2021 International Report on Snow & Mountain Tourism

Overview of the key industry figures for ski resorts



13<sup>th</sup> edition - April 2021

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**Laurent Vanat** is an international expert in ski business and ski resort management. He gained his experience first in Switzerland, benchmarking the largest resorts and starting a comprehensive collection of visitation data in 2004. His work resulted since winter 2004/05 in the Swiss end of season report. In order to benchmark Swiss ski resorts with their fellows in the Alps and North America, the Swiss report initially gave a very short overview of these respective markets.

The demand for international benchmarking data was however growing, as the demand for extending the scope of countries covered. Thus, starting in 2009, a broader overview of international ski markets was presented in a dedicated report. The latter grew from the initial 7 countries reported in the 2009 issue to 72 in 2020.

Today, the International Report on Snow & Mountain Tourism is acknowledged worldwide as the reference for ski industry figures. Since

2016, it has been translated several times into Chinese and 2018 saw an exceptional French version, to mark for the 10<sup>th</sup> issue of the report. Data from this report has already been presented at numerous international meetings, including the OITAF congress in Rio de Janeiro, those of UNWTO in Andorra, Almaty, Tbilisi and Ulsan, ALPITEC / ISPO in Beijing, Mountain Planet in Grenoble and meetings of FIS, BOCOG and many other organisations. It has been quoted by numerous press articles, reports and other Medias and has been a reference in several conferences and TV interviews.

Beside his dedication to follow up the ski business, Laurent Vanat has his own consultancy practice specialising in business management and planning.

#### Disclaimer

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The present document compiles data provided by numerous sources, together with estimates done in the absence or insufficient reliability of available statistics. Not all the information set out in this report has been systematically verified. The author is not responsible for any inaccuracy, nor is he liable for any damage whatsoever, direct or indirect, from using this document or its contents.

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# **Glossary**<sup>2</sup>

**Aerial lifts:** A lift where skiers hang in a carrier over the ground (which is held to the cable by fixed or detachable grips). This includes chairlifts, gondolas, combined lifts (chairs & gondolas, also called telemix or chondolas), cable cars, funitels, 2S lifts, 3S lifts.

**Alpine country**<sup>3</sup>: Those countries that are part of the European Alps (Austria, France, Italy, Lichtenstein, Slovenia and Switzerland). Often, reference in this document is limited to the 4 majors.

**FIS:** International Ski Federation, based in Switzerland. It was founded in 1924 and now comprises 118 national ski associations. Its mission is to promote and direct the development of ski and snowboarding activities worldwide, and oversee competition.

**Hourly lift output (skiers/hour):** The manufacturer's rated number of skiers per hour that a lift can transport to the top of the lift. Total country capacity is the sum of all the individual lift capacities.

Lifts (ski lifts, ropeways): General term to designate any aerial lift, surface lift or funicular.

**Number of skiers transported:** The number of passengers transported per lift; one skier taking the same lift 5 times accounts for 5 skiers transported, also referred to as *frequencies*.

**National participation rate:** Domestic skiers as a percentage of the total country population. This represents the total number of nominal skiers without any consideration for the frequency of visits to a ski resort. Thus, this rate includes skiers that did not ski during the latest season<sup>4</sup>.

**Ski area:** A designated place where one skis (in some countries, these areas may not have lifts).

**Ski resort:** In this report, a ski resort is considered as an organized ski area with more than four lifts.

**Skier:** One person participating in skiing, snowboarding or other downhill sliding activity, independent of the frequency of his visits to ski resorts. Thus, the wording also covers *nominal* skiers that do not ski each season.

**Skier visits (or skier-days):** One person visiting a ski area for all or any part of a day or night for the purpose of skiing, snowboarding, or other downhill sliding activity. Skier visits include full-day, half-day, night, complimentary, adult, child, season pass and any other type of ticket that gives a skier/snowboarder the use of an area's facilities. A skier skiing for a whole week at a resort accounts for 7 skier visits (for example). The figures indicated in this report for countries or individual resorts usually refer to the last 5-year average.

 $<sup>^{\</sup>rm 2}$  A French / German / Chinese glossary is available at the end of the report.

<sup>&</sup>lt;sup>3</sup> Despite Germany is also part of the Alpine Convention, the alpine range covers only a very limited part of its territory and the Alpine area of the country only hosts a fraction of the german ski resorts. Thus, Germany has not been consolidated with the Alpine region in this report but with the rest of Western Europe.

<sup>&</sup>lt;sup>4</sup> Some countries, like the US, calculate a specific participation rate for each season, which only covers the related season's active skiers and may vary considerably from the nominal participation rate.

**Skier visits per inhabitant:** Ratio of domestic skier visits divided by the population.

**Skier visits per foreign visitor:** Ratio of skier visits of foreign visitors divided by the total number of foreign visitors.

**Surface lift:** Any kind of ski lift where the skier remains standing on their skis, pulled or pushed on the ground. This includes draglifts, rope tows, tow lifts, platter lifts (or button lifts), T-bars and beginner lifts. Magic carpets are usually considered separately.

**Vertical Transport Meters per Hour (VTMH):** Product of each individual lift's hourly capacity multiplied by the vertical drop (the figure is usually expressed in thousands).



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# **Foreword by Professor Peter Keller**



Mountains cover a quarter of the world's surface. They are the resource of fascinating outdoor leisure activities whose high appeal to visitors is often underestimated. Snow and mountain tourism creates the highest value added in many structurally weak mountain economies. Its potential is exploited by the capital-intensive cable car industry, which provides the infrastructure for skiing but also for many other sports and leisure activities depending on the spectacular topography of the mountain ecosystem.

The International Report on Snow & Mountain Tourism is the only data resource on snow and mountain tourism on a worldwide scale. It is the result of the private initiative of Laurent Vanat, an outstanding expert on snow and mountain tourism. His report covers not only the traditional but mature Alpine resorts, which remain the benchmark for developing snow and mountain tourism. It includes also all developed mountain resorts with fully equipped ski areas in emerging countries, which he analysed and evaluated with an eye on the future thanks to his immense desk and field research during many years.

I counted on Laurent's expertise and data that inspired me when I prepared the agenda of international conferences such as the World Congresses on Snow and mountain tourism launched and hosted by the Government of the Principality of Andorra under the umbrella of the World Tourism Organisation UNWTO. Laurent makes his report generously available online free of charge. I invite all those who are interested in promoting snow and mountain tourism to participate at the crowdfunding in order to encourage him to continue to publish the report for many coming years.

Prof. hon. Dr. Peter Keller HEC University of Lausanne

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# Introduction

Unfortunately, the circumstances in which this **13**<sup>th</sup> **edition** of the **International Report on Snow & Mountain Tourism** is prepared do not commend for a positive perspective. If sadly the 2019/20 season was suddenly interrupted in many countries by covid-19 pandemic, the 2020/21 winter experienced trouble to start in some Alpine countries. All over the world, the industry has been working hard and investing to implement protective measures and offer safe skiing conditions. Ski resorts operated under restrictions and a sharp decline in international visitation. Despite this, skiers have been impatient to hit the slopes and in many countries, at least domestic skiers have been fortunate enough to enjoy a refreshing open-air leisure activity.

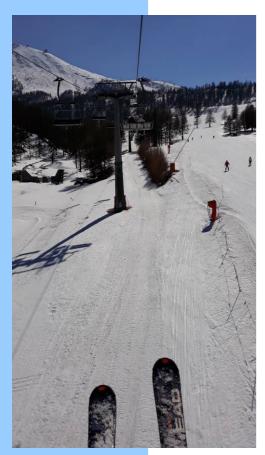
It has been difficult to understand why in some countries, media have been so keen to point out ski areas as drivers of the propagation of the pandemic, when it has never been demonstrated that the ski activity itself was an active disseminator. Lots of noise has been made to charge the ski industry with faulty human behaviours in bars or accommodation.

On the one hand, no data shows that people get contaminated on the ski lifts or on the slopes. Anyway, after one year of this plaque, we still have no comprehensive view about the exact places where the virus is spreading. It is therefore difficult to base any decision on objective facts. On the other hand, ski lifts are not comparable to shops or restaurants, but to public transportation, which remains open without any capacity limitation. In many countries, 8 people can seat face to face in a bus or a train, but not in a gondola. Common sense therefore suggests that infection is more likely in a crowded bus than in a cable car. The queues at the ski lifts were due to capacity limitations, but again, if all the places where there are queues had to close, so would also supermarkets, as well as some covid-19 testing and vaccination centres! The ski slopes are also not comparable to the gyms. In many cities, joggers run unmasked on the sidewalks or footpaths, closely crossing pedestrian while they are breathing like steam locomotives. Is there also the risk of getting infected not greater than sliding down a ski slope?

In some countries, media stigmatized the situation of open ski resorts as an abnormality. Of the 60 countries in the northern hemisphere that have ski resorts, only France, Italy and Germany prevented them from opening in winter 2020/21. Who is normal and who is abnormal? In Switzerland and Austria, ski is practiced by about 35% of the population. Is it abnormal to offer to this third of the population the possibility of going out to change their minds, to breathe in the open air and to practice a physical activity, which pleases them in these gloomy times? As a sport, ski is a healthy activity and being in the mountain not only provides good exercise but also the benefits to the whole body and mind.



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Skiing allows strengthening general endurance. Altitude naturally boosts the body by causing it to make more red blood cells to compensate for the scarcer oxygen. Skiing is also good for the heart. The scarcer oxygen at altitude requires more effort from the heart to give muscles what they need. Skiing helps muscle building, improves agility and balance together with the movements coordination. Skiing stimulates the production of endorphins, the pleasure hormone. Tensions are released. Skiers benefit from the effects of pure air and sun to fill up with D vitamin, which boost the immune system and the morale. Going down the snowy slopes gives a feeling of freedom and a good dose of adrenaline. After a day of skiing, stress decreases, concentration improves, with a feeling of general well-being that continues in daily life. Which government would like to prevent its population from enjoying this?

Beside the well-being of the population, ski business is a big component of the mountain economy. In each major Alpine country, it represents more than 100'000 jobs. In regions such as Valais or Grisons in Switzerland, it accounts for more than 10% of local GDP. The weight at country level changes widely from one country to another, but it can represent up to 1.0% of GDP in a country like Switzerland, 2.5% for Austria or even 8.0% for Andorra. It is not clear if governments made their homework to compute this before taking some stringent decisions.

This sets the context in which the ski industry currently lives. Despite one would be so pleased not to speak about covid-19, one cannot avoid doing so. Already season 2019/20 got impacted, despite it started in many places with bright perspectives.

# The covid-19 outbreak

Ski season 2019/20 has been impacted by the brutal apparition of a virus that first put the largest populated country of the world into strong confinement, resulting in the closure of all ski resorts in China by beginning of February 2020. As incredible as it was, within one month, this virus spread over most of the world and resulted in a generalised lockdown. Thus, most of the ski resorts in the world had to close by mid-March 2020. The level and duration of the lockdown varied from one country to the other. Japan, Iceland and partially Sweden were the only ski nations to carry on skiing through the pandemic. The governments of these countries have not seen a need to shut down ski centres, or most other public places including most schools, shops or restaurants. Some Chinese ski areas managed to reopen by the end of March 2020 thanks to the strict control over the pandemic.

Southern hemisphere season was also diversely impacted, with some opening delays and closures. The 2020 ski season began first at Afriski in Lesotho in early June, with New Zealand's season starting a few weeks

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later, slightly delayed, but largely without the *new normal* restrictions seen elsewhere in the world due to the country's successful suppression of the virus. Restrictions were re-introduced for a time after some cases were found but ski areas kept open and restrictions were later lifted again. Australia also managed a ski season from June to October, in New South Wales at least. Ski areas in Victoria were forced to close by the pandemic and it was a poor winter for snowfall. In South America, strict restrictions were in place for much of the winter but a handful of resorts managed to open with *new normal* requirements and very limited access from mid-August to, in most cases, mid-September, although some made it to mid-October. South Africa's sole ski area, Tiffindell, was not able to open in 2020 due to pandemic restrictions in the country.

The table below summarises the evolution of the situation in a worldwide sample of ski destinations. More detailed comments are supplied with each country section.

Country	Change to former season		MAR	APR	MAY	NNC	JUL	AUG	SEP	Type of opening/closure
Andorra	-9%									full closure
Argentina	n.a.									delayed opening
Australia	-66%									delayed opening/ partial closure
Austria	-13%									full closure / glaciers reopened
Canada	-17%									progressive
Chile	-91%									delayed and partial opening
China	-43%									progressive closing / partial reopening
Finland	-21%									progressive closing
France	-16%									full closure
Italy	-13%									full closure / summer skiing reopen
Japan	-22%									resorts stayed open
Lesotho	n.a.									normal opening
New Zealand	-28%							Ш		delayed opening
Norway	-8%									progressive closing / partial reopening
Slovenia	-29%									full closure / partial reopening
South Africa	-100%									resort remain closed
Spain	-15%									full closure
Sweden	-20%									progressive
Switzerland	-19%									full closure / summer skiing reopen
United Kingdom	-8%									full closure
United States	-14%									progressive closing / partial reopening
Legend										
Ski areas open <b>Disclaimer</b> : As with all the information related to this pandemy,										
Ski areas partially open Ski areas partially open things have not always been crystal clear and above table is an attempt to summarise the evolution of the global situation related to										
Ski areas fully closed ski resorts in a sample of ski countries.										

The global impact of covid-19 outbreak over 2019/20 winter season attendance translated into a decrease of 18% in ski resorts visitation over the globe. The highest impact could be seen in Asia & Pacific, where the decline reached 31%. In all other regions of the planet, the impact was around 15%. This can easily be explained as the pandemic first impacted Asian countries in January / February 2020, before spreading in other regions in March 2020. Then the closing pattern has been pretty similar from one country to another.

The change over former season has been up to -100% in South Africa, where the only existing resort did not open, or about -65% in Australia, where the operating conditions where heavily restricted leading some

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resorts to open only for a few days. Countries like Norway have been mostly preserved from adverse effects, with good winter conditions nearly offsetting the restrictions linked to covid-19 and resulting only in a -8% decrease in visitation over former season.

## The worst season of the current millennium

After 2018/19 ski season was reported as the best season of the current millennium, the rapid spread of an unknown virus has unfortunately turned the 2019/20 into the worst season of the current millennium.

Despite this dark background, some positive highlights however deserve to be pointed out for the 2019/20 winter.

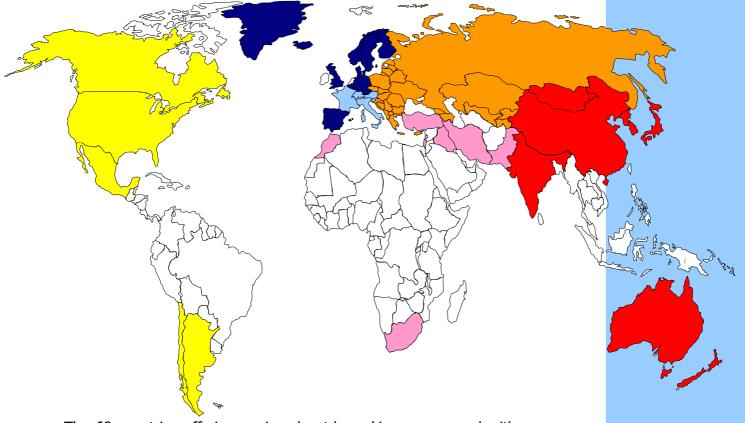
- The season began very well in most resorts of the Alps and intermediate figures were at the highest. It is very peculiar, because winter 2019/20 has been considered as the warmer since systematic temperature records started by meteosuisse, for instance. In spite of this, attendance was clearly over former years' average until end of February. Attendance during the first part of the season was also excellent in other regions of the world, such as in Quebec.
- The spread of multi-resorts season passes and the wider adoption of dynamic pricing continued to shape some transformation of the traditional tickets sale business model and increase the reliability of the revenue base.
- Despite the general closure that happened in most places in the course of March 2020 due to the coronavirus outbreak, a renewed interest for ski learning has been observed in several places. The empty bottom of the slopes, surrounded by closed lifts, turned into a nursery zone for beginners. Many made a first trial or re-trial, even in the absence of any functioning uphill facilities.
- Despite the testing competition could not be held in February 2020, the Olympic alpine skiing venue has been completed in Yanqing. The perspective of 2022 Winter Olympics hopefully heralds of brighter years for the ski industry.

Currently, everybody also already knows that winter 2020/21 will even be worse in many countries. However, the industry remains dedicated to delivering extraordinary experiences to the skiers and will be trying even harder over the next years.

# The world ski market

## Participating countries

Accounting for ski countries may vary according to the definition of skiing and of a ski area. **There are currently 68 countries in the world that offer equipped outdoor ski areas covered with snow.** They are shown colour-coded on the map below. 62 are located in the northern hemisphere while 6 are located in the southern hemisphere, with a ski season in opposed time. While people ski in the North, they go to the beach in the South, and reverse. Taking into account indoor facilities<sup>5</sup>, mountaineering-only areas and other types of facilities such as dry slopes, the figure can be as high as 100<sup>6</sup>. Besides the major ski destinations in terms of skier visits, there are a number of other, smaller destinations, where skiing has been an industry for a long time, or is currently developing. The most obvious emerging destinations are Eastern Europe and China, but there are a number of other small players spread out across the globe: Cyprus, Greece, India, Iran, Israel, Lebanon, Lesotho, Morocco, New Zealand, Pakistan, South Africa, Turkey and many more.



The 68 countries offering equipped outdoor ski areas covered with snow are described in detail in this report. The report covers 4 additional

<sup>&</sup>lt;sup>5</sup> There are about 90 indoor snow centres operating in 20 countries around the world.

<sup>&</sup>lt;sup>6</sup> According to a detailed breakdown prepared by famous ski-journalist Patrick Thorne.

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countries, which no longer have any organised ski area in operation but use to offer skiing: Afghanistan, Algeria, Bolivia and Colombia.

#### 100 countries offer skiing?

Famous ski journalist Patrick Thorne (Snowhunter) published in a 2013 press release his count of countries where it is possible to ski. He concluded that 100 countries across all continents have reliable snow coverage for all or part of the year, or artificial surface slopes, to allow snow sports. How does this figure reconcile with the data published in the *International Report on Snow & Mountain Tourism*?

Now that the *International Report on Snow & Mountain Tourism* completed taking inventory, which started with the edition issued in 2009, it features reports on 68 countries having at least one ski area with lifts. 4 additional countries once had one or more ski lifts, but these are no longer in operation (Algeria, Afghanistan, Bolivia and Colombia are also written up in this document and still offer unorganised skiing opportunities). 14 others countries offer some permanent or temporary snow coverage in some mountains, making it technically possible to ski:

- **Bhutan**, with snow covered mountains in winter;
- Democratic Republic of the Congo, with a glacier and occasional snowfall on the highest peaks;
- Ecuador, with glaciers and occasional snowfall on the highest peaks;
- Ethiopia, with occasional snowfall on the highest peaks;
- Indonesia, with some small quickly-melting glaciers;
- Kenya, with occasional snowfall on the highest peaks;
- Moldova, featuring some unequipped hills with limited vertical, where the locals use to go skiing;
- Myanmar, with high snow-covered mountains at the Himalayan border, and even a projected ski resort;
- Nicaragua, with the highest volcano receiving snow every few years;
- **Peru**, with tropical glaciers and snowfall in the mountains in winter, and possibly even some temporary lifts;
- **Syria**, with snow in the mountains in winter (a ski resort was in planning before the civil war);
- Tanzania, with a glacier and occasional snowfall on the highest peaks;
- Uganda, with a glacier and occasional snowfall on the highest peaks;
- **Venezuela**, with a snowfield at the top of the Merida lift, not usually used for skiing.

With these, the total reaches 86 countries where outdoor skiing is possible on snow<sup>7</sup>. There are a further 15 countries offering either indoor ski centres or outdoor dry slopes, bringing in fact the total to 101.

<sup>&</sup>lt;sup>7</sup> Issue has also been raised to know if Turkmenistan was to be included in this listing. Despite rumors of a ski resort project, it has not yet materialised. The very scarce snowfall in the country would require 100% snowmaking and does not seem to allow enjoying any skiing in natural conditions.

# Ski resorts and infrastructure

According to the latest inventory, **5'716 ski areas** have been identified worldwide (equipped outdoor ski areas covered with snow). As some only offer rudimentary equipment, with a limited number of lifts, a threshold has been set for the purpose of this report. Those **2'084** areas that feature more than 4 lifts are qualified as **ski resorts**. It is estimated that the industry currently offers about 6 million commercial beds in the mountains. These are primarily concentrated in the industrialised ski markets, which have a high volume of skier visits.

Based on the latest situation, the key figures for ski resorts and their equipment are presented in following tables. The colour of each bar/slice matches with that of the geographical area shown on the above map.

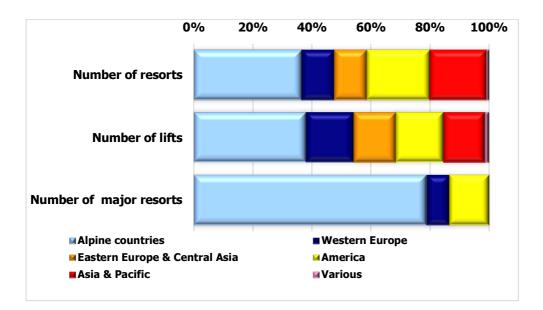


Figure 1: Ski resorts woldwide and regional weight

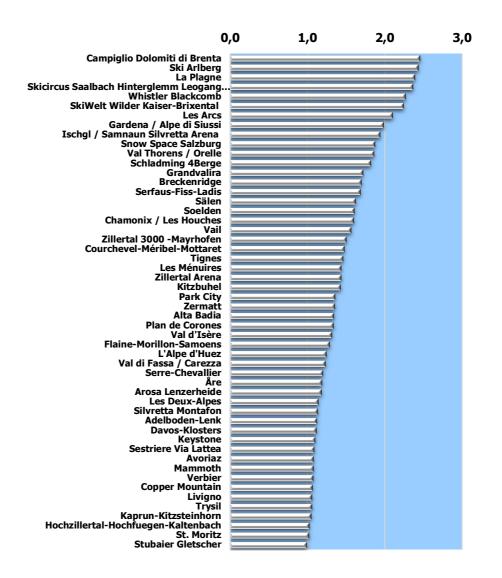
The share of the Alpine countries in the global ski industry is emphasised by its weight in the distribution of:

- Number of ski resorts worldwide (2'084 resorts): 37% of all ski resorts are located in the Alpine countries.
- Number of lifts worldwide (25'939 lifts): With 38% of the lifts, the Alpine countries feature more than the double of lifts than the next largest region.
- Number of major resorts worldwide (52 resorts): There are a limited number of major resorts worldwide<sup>8</sup>. 79% of them are located in the Alps.

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<sup>&</sup>lt;sup>8</sup> A resort is considered as major if its attendance reaches over 1 million skier visits per winter season.

The major ski resorts worldwide have been ranked below based on their average annual skier visits<sup>9</sup> during the last 5 winter seasons.



#### Figure 2: Top world resorts in millions of skier visits

Most of the industry is concentrated around the resorts that generate more than 100'000 skier visits per year. Even if they only account for 20% of the resorts, they account for 80% of all skier visits.

Although often important at a regional level, the altitude of a ski resort is not really an important benchmark worldwide, since at some places around the globe one can ski at sea level, whereas in other countries, one needs to be at much higher elevations to access decent snow conditions.

<sup>&</sup>lt;sup>9</sup> Publicised data or estimates when required; based on the operating company or marketing operator.

# Evolution of worldwide skier visits

Although data collection within the industry is not always well-organised and yearly number of visits may vary mainly due to weather conditions, for several years the estimate has been an overall draw of approximately **400 million** skier visits worldwide<sup>10</sup>. The assumption is that the total figure has been rather stable over the last 20 years, as major mature markets experienced reduced growth (when not experiencing a dramatic decline as with Japan), while other markets were emerging.

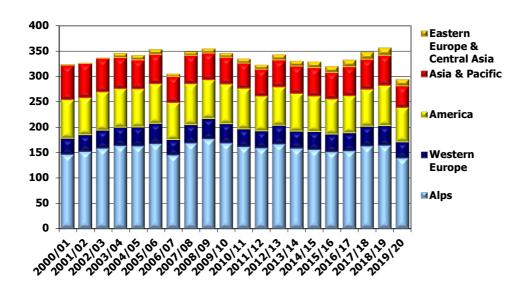


Figure 3: Evolution of skier visits per region (millions)

The chart above appears to confirm this assumed trend, and reflects the evolution of skier visits in those countries considered to be a large sample<sup>11</sup> of the most significant industry players over the last decade. Only bad weather and snow condition of winter 2006/07 involved an abrupt decline in visitation nearly such as did covid-19 for the 2019/20 season.

#### Winter Temperatures at Alpine Mountain Weather Stations (50 years)

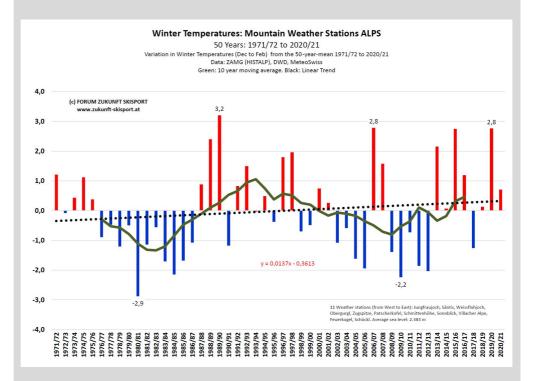
Over the past 50 years, there has been no significant shift in winter temperature levels in summit locations in the Alps. The winter temperatures at 11 available mountain weather stations have only shown a slight increase in temperature of around 0.7 degrees Celsius since 1971/72 - which is not statistically significant<sup>12</sup>.

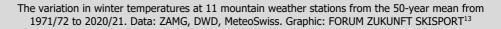
<sup>&</sup>lt;sup>10</sup> Including visitors to indoor ski centres.

<sup>&</sup>lt;sup>11</sup> This sample refers to the countries where skier visits are measured and publicised on a yearly basis. In spite of the very representative sample, it is of course not a comprehensive sample of all countries with ski areas.

 $<sup>^{12}</sup>$  If a test result is not significant, it is because there has been no effect or an existing effect could not be proven. In other words: We cannot statistically prove that the winter temperatures in Figure 1 have increased.

The winter of 1989/90 was the mildest mountain winter since 1971/72, with a positive change of 3.2 degrees Celsius from the 50-year mean, while the winter of 1980/81 was the coldest with a negative change of 2.9 degrees Celsius.





Winter temperatures have developed very similarly across the Alps: the temperature curves run almost parallel to each other in the east and west, as well as in the north and south.

It is generally assumed that the snow line height increases by 100 meters for every 0.65 degrees Celsius warming. In this regard, one can deduce that the winter snow line in the Alps has risen by around 100 meters over the past 50 years.

Interpretation: What can this chart teach the winter tourism industry?

When it comes to the development of winter temperatures, we see an astonishing contrast between official measured data and public opinion - sometimes shaped by one-sided media reporting. The winter sports industry must better inform its target group about the actual regional development of temperatures and snow, otherwise there is a risk of a dramatic loss of confidence in the future of winter sports, which has the power to destroy the entire industry. It is quite conceivable that the Alps could still have adequate snow conditions in 30 years' time, but due to the ongoing negative expectations there would no longer be anyone who could or would want to ski.

<sup>&</sup>lt;sup>13</sup> Sample (from west to east): Jungfraujoch (3'580 m), Säntis (2'502 m), Weissfluhjoch (2'691 m), Obergurgl (1'938 m), Zugspitze (2'962 m), Patscherkofel (2'252 m), Schmittenhöhe (1'954 m), Hoher Sonnblick (3'106 m), Villacher Alpe (2'160 m), Feuerkogel (1'618 m), Schöckl (1'445 m); medium altitude: 2'383 m

Note 1: This data analysis is not suitable for questioning current global climate change. Climate change can of course also be analyzed in the Alps. The annual mean temperatures have risen by nearly 2 degrees Celsius over the past 50 years. This rise in temperature has mainly been driven by the strong warming in spring and summer, while autumn and winter months have recorded only slight increases.

*Note 2: The temperature analysis presented here relates to the meteorological winter, which begins on December 1st and lasts until February 28th (for leap year: February 29th) in the northern hemisphere.* 

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# Market share of worldwide skier visits

The relative importance of the major destinations is showed in the pie chart below. Clearly, the Alps are the biggest ski destination in the world, capturing 43% of skier visits. The second biggest destination is America (mostly North America), accounting for 21% of skier visits worldwide.

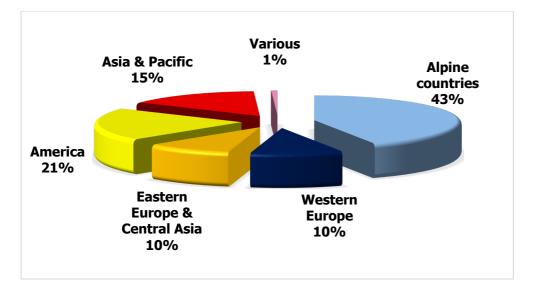


Figure 4 : repartition of skier visits worldwide

Asia & Pacific used to have the same market share as America. However, the continuous decline of the industry in Japan has still not been replaced by the growing ski market in China. In the very long term, countries such as India and Pakistan could maybe join them and contribute to increasing

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the weight of Asia in the international spread of skier visits<sup>14</sup>. Northern, Southern and Western European non-Alpine countries (grouped under the label of Western Europe) also attract 10% of the market, even if skier visits are spread primarily over a large number of small resorts.

# Skiers per region of origin

The total number of skiers worldwide was estimated based on both the number of skier visits in the various countries as well as on the national rates of participation<sup>15</sup>. The figure is currently estimated to be around **135 million** and seems to be growing, thanks to the development in Eastern Europe and Asia<sup>16</sup>. Although some countries have no ski areas (in some instances only ski domes), they have skiers who ski abroad. For example, this is the case with the Netherlands, which accounts for about 1 million outbound skiers.

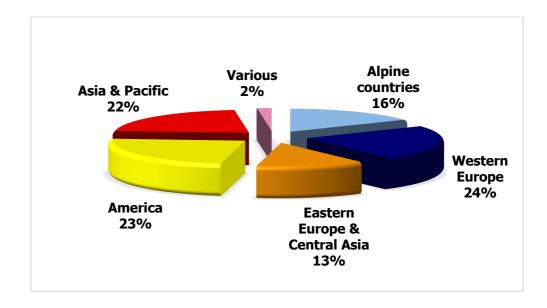


Figure 5: distribution of skiers by region of origin

This chart, comparing to skier visits, clearly shows the regions that are exporters of skiers and those that are recipients. The Alps is the most internationally visited ski destination, attracting most of the inbound-skier travel. Even though it hosts 43% of skier visits, it only produces 16% of the skiers. No other region has such a high proportion of foreign visitors.

<sup>&</sup>lt;sup>14</sup> This seems however to be an uncertain perspective, since up to now, the projects in these countries failed to be implemented, or only on a small scale. Moreover, skiing has recently been banned in some areas in India by environmental protection laws.

<sup>&</sup>lt;sup>15</sup> It must however be stressed that the number of days actually skied per potential skier may vary significantly from one country to another. Skiers are considered independent from their frequency of visit to ski areas – see glossary.

<sup>&</sup>lt;sup>16</sup> Interestingly, this is not yet fully reflected in the evolution of skier visits, as the participation rate of new entrants is still lower than those of declining skiing populations.



# International skiers flows

The international flows of skiers are primarily concentrated within Europe. The number of skiers using long haul flights to go skiing is rather small. For instance, overseas skiers represented only 3.5% of total skier visits to US ski resorts in 2016/17 (including Latin American visitors). The weight of international customers is limited for most ski destination countries. Moreover, the international catchment areas are also limited, due to various factors such as market size, transportation, travel time and costs, and possible saturation of airports at ski destinations in Europe.

Worldwide, in a global perspective, the share of foreign visitors in the number of skiers is limited to about **10% of total participants**. There are few big players both in the inbound and in the outbound markets. Skiing is mostly based on the domestic markets and the national customer base is very strong in most of the big player countries. Often, foreign visitors are concentrated in a few top international resorts.

There are only 2 big outbound markets, Germany and the United Kingdom, providing skiers to a few inbound markets. Most of the outbound countries have few to no ski areas but a ski culture. This is an important issue, as countries with no ski culture are not likely to be major suppliers of international skiers, even if they have huge populations. The major international skiers' flows concentrate on a very limited number of destinations. The table below ranks the flows for over 200'000 yearly skiers.

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	Outbound country									
Inbound		United								
country	Germany	Kingdom	Netherlands	Belgium	Switzerland					
Austria	1	5	4		9					
France		3	7	8						
Italy	2	10								
Switzerland	6									

Outbound European markets are not increasing but will be spread over more destinations in the future. For instance, British customers familiar with the Alps and Andorra now also have other destinations to choose from such as Bulgaria, Romania, Slovakia, etc. It is also foreseeable that the new markets will supply themselves at a regional level. The recent growth of skiing in Asia will feed resorts in Japan and South Korea, before eventually, if ever, benefiting resorts in the European Alps or North America.

## Future trends

On the western markets, the high competition to ski activities combined with the demographics and the stagnation of the middle class do not provide for substantial development perspectives. In addition, with the exception of a few resorts in Canada, no new resorts have been created in the traditional markets since the start of the century.

As it appears from figures 4 and 5, the regions of Eastern Europe & Central Asia and Asia & Pacific provide 35% of the skiers worldwide, but only produce, at this stage, 25% of skier visits. These regions clearly represent the future growth potential of the market. Besides, a look at new deliveries of lifts confirms that Eastern European and Asian countries are building up at a higher rate than the more traditional ski regions, if the figures are analysed in relative terms.

In Eastern Europe & Central Asia, the growth is however still to be expected. It does not materialise as quickly as the prospects of the early 2010s were promising. The renewal and introduction of new lift infrastructure does not seem to have brought large effects yet. Even if Poland, Slovakia and Czech Republic have pretty well modernised their resorts, attendance still seems rather stagnant. Other Eastern European countries where the industry was less developed did not either achieve to build all the ski areas that they had planned. Several big resorts development projects have been put on hold or did not materialise to the extend originally planned. This lowers somehow the future growth expectations that could be placed on this region. Unfortunately, some projects had unrealistic expectations of international visitation and the concern for getting domestic clients has been underestimated.

In China, consumption patterns of skiing still need to be improved, so that skiers show a higher commitment to the sport and visit more often the ski areas than currently. Despite the growth perspective of the number of

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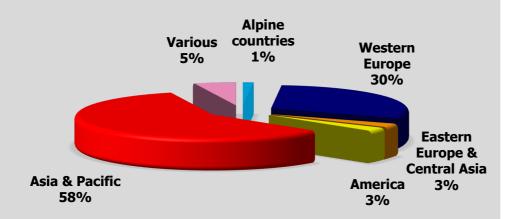
skiers in China still remains, their impact on ski area visitation will highly depend on the dedication to skiing that Chinese skiers will gain.

Therefore, even if the growth potential of the Eastern Europe & Central Asia and Asia & Pacific regions remains, it is not clear when it will actually be materialised in the skier visits statistics.

#### Indoor ski centres

Earlier versions of indoor snow centres date back to the 1920s in Berlin and Vienna and in the early 1950s, a complex using crushed ice as a snow surface for part of the year opened in Seibu, Japan. Now fitted with an artificial slope surface under the snow, this complex celebrated 60 years of operations in 2012. The longest established and still operational *real snow* indoor snow centre is generally agreed to be Tamworth Snowdome in the UK, which opened in 1993.

More than 100 indoor snow centres have been built in approximately 30 countries over the past 25 years, and around 90 are still operational. Some of them are dedicated to cross-country skiing (ski tunnels) and some are only *snow experience* areas. The number offering downhill skiing is closer to 70. Over the recent years, the number of indoor ski areas in China has been growing tremendously. 19 Indoor ski centres opened in China between 2015 and 2018. The distribution of operating indoor downhill ski centres is presented hereafter.



China is the country in the world offering the highest number of indoor ski centres (36), followed by the Netherlands, United Kingdom, Germany, Japan and India. The largest one in terms of slope surface area is the newly opened Harbin Wanda Snow Park, in China, and in terms of slope's length is the Amneville Snow Hall in France.

2020 Indoor Snow Centres Guide – 3 decades of indoor snow centres catalogued in 370 pages

The 2020 edition of the **World Indoor Snow Centre Guide** marks the completion of the third full decade of indoor snow centres existing. In that time, more than 140 centres have been built in 35 countries on 6 continents.

The past 12 months have been a big year for the world's indoor snow centre as it has seen 3 of the 5 largest yet open, including the first major new centre in Europe for many years. It has also seen the number of operational centres worldwide pass the 100 mark with centres now open in 30 countries on 6 continents.

The latest country and final continent (except Antarctica) to get an indoor snow ski centre, was the USA and North America in December 2019.

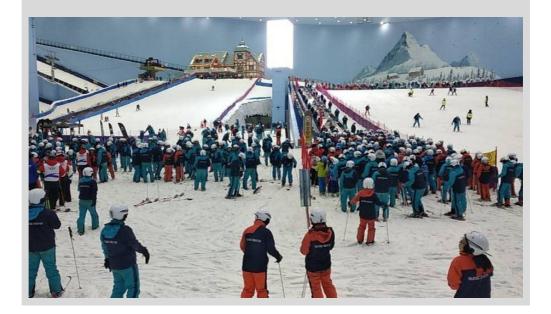
2019 also saw more centres open than in any other year to date marking the completion of the *bounce back* in projects since the 2008 financial crash.

2020 also marks the completion of 3 full decades since the first refrigerated indoor snow centre with real snow began opening in the late 1980s, allowing to look back and compare data from the 3 separate decades.

The period from 2010 to 2019, which initially saw all projects ground to a halt after the economic crash, has bounced back to see more centres built (57) than any prior decade, including 4 of the 6 largest ever built. It also saw a return to Asia (this time driven by China) as the continent that has the most new facilities open, as it was in the 1990s, although the centres were being built in Japan then. The first decade of this century saw Europe get the most facilities.

In other findings he resort's authors have calculated the number of people having learned to ski on indoor snow, many of them continuing on to conventional outdoor slopes, has passed 50 million.

Critics of indoor snow centres say that operating giant indoor fridges for leisure purposes is not a good idea in a climate crisis. However, there is some good news there with ever-greater efficiencies, driven in part by the desire to cut costs. Moves by some European facilities to cover their vast roofs with solar panels allows sometimes generating more solar energy than the centre actually needs to operate and exporting the excess to the local grid.



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#### Key Updates to the 2020 Edition

- The number of currently operational<sup>17</sup> indoor snow centres worldwide has passed the 100 mark for the first time reaching 110.
- 2019 saw more indoor snow centres open worldwide than any other year.
- 3 of the 5 biggest indoor snow centres in the world, including 2 with over 50,000 square meters indoor snow space, have opened in the past 12 months.
- The number of countries with currently operational indoor snow centres worldwide has passed the 30 mark for the first time.
- The guide has a new list: Most Frequently Used Indoor Snow Centre Names.
- The total number of indoor snow centres built since the first in the modern era in the late 1980s (including those that have subsequently closed) has passed 140.
- Number of people estimated to have learned to ski on indoor snow in past 30 years reaches now 50 million plus.
- China's SUNAC group has become the world's largest operator of indoor snow centres, operating 7 centres, including the world's 3 largest. 2 are under construction, most opened in the past year.
- India has become the third country after Japan and China to operate at least 10 centres.
- The first indoor snow ski slope in North America has finally opened, the sixth continent to get such a facility. It means now only Antarctica does not have one.
- The world's first indoor snow centre that is still operating, which opened in Japan in the 1950s, has closed for a major overhaul, but is due to re-open for winter 2020-21.
- The first major indoor snow centre in Europe for several years has opened near Oslo in Norway. It has the continent's new largest indoor snow area.
- Analysis of the last 3 decades of indoor snow centre construction saw the past decade had the most indoor snow centres built (57), up from 43 the previous decade and 34 built in the 1990s.
- Asia (especially China) saw the most-new indoor snow centres built since 2010, as it did in the 1990s (back then most were built in Japan). Between those 2 decades, Europe built the most facilities in the first decade of this century.
- The past decade saw the first indoor snow centres open in Africa, North and South America.
- Several groups have emerged which own 6 or more indoor snow centres.
- More and more centres have added huge solar arrays to generate the power they need, led by the SnowWorld Group.
- The first indoor snow centre in Pakistan has opened; the first in Sri Lanka is under construction.
- More than half of all indoor snow centres built in the past decade have been built in China, almost a fifth in India.
- Centres built in the past 5 years have included 4 of the world's 5 biggest by slope area, representing the first big changes in the list of the biggest areas

<sup>&</sup>lt;sup>17</sup> A percentage remain closed in summer 2020 due to COVID-19 restrictions but expect to re-open

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since most of the previous biggest centres opened in the first 5 years of this century.

• A new list of the *Groups Operating the Most Indoor Snow Centres* has been added.

**The World Indoor Snow Centre Guide** is a 17MB, 370 page, 77'000 word PDF document delivered to buyers by WeTransfer. First compiled in 2003, and updated several hundred times since, it lists every indoor snow centre planned, built or under construction, with descriptions, key stats and hundreds of images. It also has sections on various aspects of indoor snow centre operations, the companies involved and numerous tables comparing centre sizes. There is also a chronology of centre openings. From more information please contact Patrick Thorne: patrick@patrickhorne.com

The Guide's publisher, Snow Hunter Ltd, runs the specialist website <u>www.IndoorSnowNews.com</u>, the world's only active website providing news and collated information on the world's indoor snow centres sometimes known as *snowdomes.* Thanks to 33 years of data and information collection, it enables to compare indoor snow centres of the 1990s, along with those of the first and second decades of the 2000s.



# Country benchmark - top 20

Various organisations and entities usually collect ski resort data at a national level. This information has been compiled to produce an international overview of the key figures for the industry. For some countries, since data is lacking or incomplete, some research has been conducted in order to either collect or consolidate detailed national data or to extrapolate figures based on known benchmarks. Numerous sources were checked to ensure the most accurate figures. Some general information was also provided from global directories or statistics. Although some definitions may vary from one country to another, the section hereafter presents a summarised benchmark of some of the key figures for the industry<sup>18</sup>.

Under the country review section, charts are presented for those where attendance at ski resorts is measured and consolidated on a yearly basis. On the charts, in addition to yearly data, the evolution of the 5-year average has also been included (blue line). It helps to understand the long-term trend for each of these markets. In current chapter, the charts hereafter generally only show the top 20 countries ranked.

The United States, Japan, France and Italy have the most **ski resorts** with more than 200 each (not included are small ski areas with less than 5 lifts – see glossary).

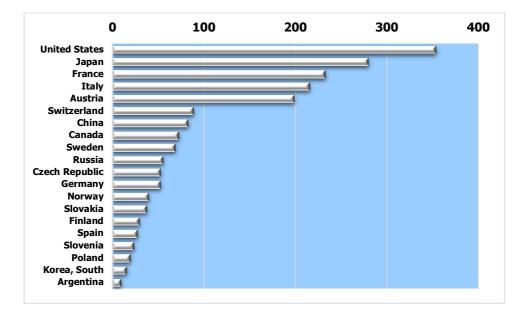


Figure 6 : Number of ski resorts with more than 4 lifts

 $<sup>^{18}</sup>$  Please refer to the Glossary at the front of the document for further definitions of the terms employed.

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If Germany also shows a significant number of ski areas, most of them are very small ones that are not considered as ski resorts under the definition used in this report.

Only Austria and France have more than 10 **resorts that generate over 1 million skier visits per season**. Thanks to recent lift-interconnexions between ski resorts, Austria now accounts for a higher number of such resorts than France, which used to host the highest number of very large ski resorts for a long time.

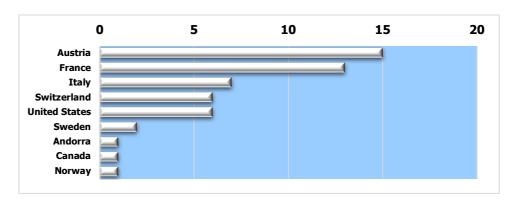
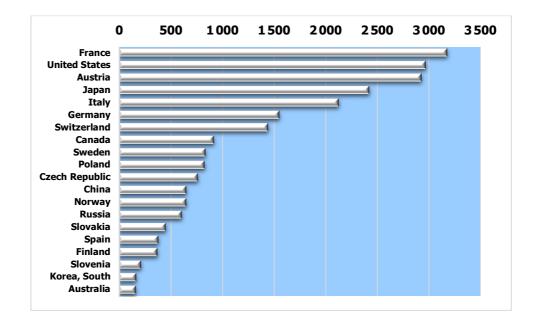
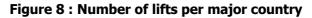


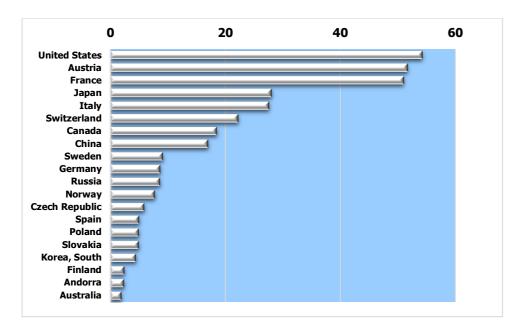
Figure 7 : Number of ski resorts with more than 1 million skier visits

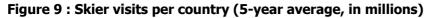
France, Austria and the United States top the list of countries with the most **lifts**, with about 3'000 each.





They are also the countries posting the highest **5-year average skier visits** figures, with more than 50 million each. Over recent history, the first rank often changed between the top-3 players. United States are back on the first rank, followed by Austria and France.





#### New Seal of Approval for ski area size claims

The company run by German ski writer and cartographer Christoph Schrahe, who 3 years ago highlighted discrepancies in claimed ski area size, has launched a new independent *Seal of Approval* for resorts that want to verify that the ski area size they claim is genuine.

Schrahe's precise research, based on more than 20 years of detailed study of ski areas around the world, found that most ski areas exaggerate their claimed size, although the amount of exaggeration widely varies.

The findings caused uproar, particularly in the Austrian media, when ski areas rationalized their claims with explanations that included measuring piste width multiple times, treating them as 2 or 3 runs, and measuring the length of a snaking skiers S-track descent of a run rather than a straight line from top to bottom.

Surveys of skier preferences have found that ski area size is the number one criteria when considering where to ski.

An Austrian ski resort association subsequently introduced a code of practice for slope measurement and several areas shrunk in claimed size – the Ziller Valley by around 20%, for example. Others, including the Skiwelt, brought in their own independent professionals to verify their numbers. Schrahe subsequently published several annual guides to what he claims to be the true size of the world's 100 largest ski areas from his precise and standardised measurement system<sup>19</sup>.

<sup>&</sup>lt;sup>19</sup> The list of the world's 100 largest ski areas – Analysis of relevant statistics in different categories, available from <u>www.montenius.com</u>

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Now Schrahe's Montenius Consult Company, whose main business is ski resort design, has launched the, *Verified Piste Length* seal. To receive the seal the resort must allow Schrahe's company to measure all runs, going down the precise centre line of each piste, to come up with a figure.

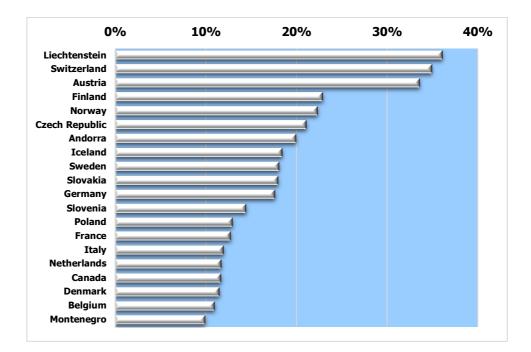
A new multi-lingual website, www.pistelength.com, has been set up to promote the service. Schrahe's first 2 customers are reported to be 2 of the 5 biggest ski areas in Austria.

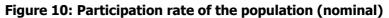
Source: Snowhunter

South Korea features a record-breaking figure as far as **skier visits produced per lift** is concerned, with 26'500 skier visits generated per lift per season. The number of skier visits per lift is also higher in Canada and the United States than in other countries. This reflects the difference in business model from Europe where an emphasis is placed on lift mechanics and sophisticated infrastructure.

With more than 1'300 million inhabitants, the biggest **national market** of the sample is China, far greater than any other. However, at this stage, the size of the ski industry is not proportional. India, which also has over one billion inhabitants, still has a very low number of skiers. The United States represent the largest mature market, with a population of over 300 million inhabitants.

The Lichtensteinese, Swiss and Austrians are the populations with the highest nominal **participation rates**, with more than 30% of the population participating in skiing.





However, since they benefit from much larger populations, the United States, Germany and China account for the highest **number of national skiers.** China is new on the top-3 podium further to the continuous growth of participants' numbers. Formerly, Japan occupied the 3<sup>rd</sup> rank but is now loosing some ageing skiers.

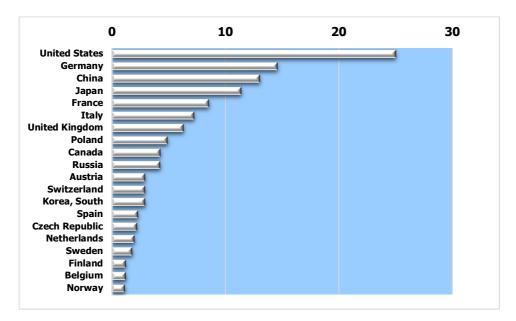


Figure 11: Number of national skiers (nominal - in millions)

France, the United States and Spain are the **countries with the most foreign tourists**, but it is only in France that they provide a noticeable benefit to ski resorts. Most foreign visitors, however, do not come to ski. For the 2 other countries, foreign tourists only marginally contribute to the number of visits to ski resorts.



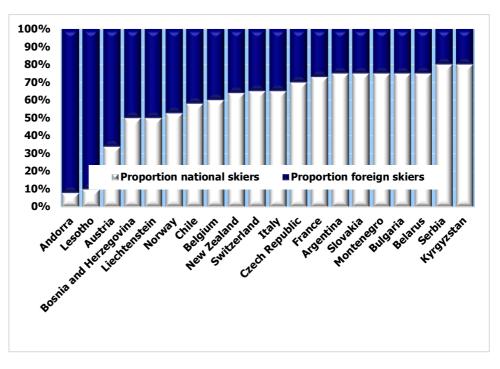


Figure 12: Proportion of national and foreign skiers

In nearly every country, the main portion of skier visits consists of **domestic skiers**. Apart from some anecdotic small ski destination countries, there are only 2 major markets worldwide where **international customers** represent more than half of skier visits. In Andorra and Austria, foreign customers represent respectively 92% and 66% of all skier visits. Besides posting a record proportion of foreign skier visits, these countries also have the highest ratio of skier visits per inhabitant and per foreign visitor of the sample, clearly showing the importance of winter tourism. All ski destinations that are not shown in above chart have only 20% or less international visitors in their ski areas.



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#### Summer ski options

Currently up to 8 glaciers open at some point between June and September in Austria (although half of these close at the start of June and do not re-open until late September), 3 in Italy, 3 in France, 3 in Norway, 2 in Switzerland and 1 each in Canada and the USA.

In the 1980s and 1990s, up to 40 resorts, primarily in the Alps, opened for summer skiing with famous resorts including Verbier, La Plagne, Zugspitze, Val Thorens, Monterosa and Marmolada offering this option. While many of these resorts stopped offering summer snow sports at the start of this century, the numbers have remained relatively constant for the past decade.

The maximum number of ski areas open in July and August is now a dozen, although Hintertux in Austria, Zermatt in Switzerland and Timberline in Oregon, USA, are usually open more-or-less year round (except for weather/maintenance breaks).



Source: Snowhunter

#### The World's 6 Summer-Only Ski Areas

There is a short time window each year when the 6 ski areas that only open during spring or summer are all open at once.

Because of unpredictable snow conditions some years, that does not happen every year and in 2020 it was particularly welcome news as it was unclear whether any would be able to open due to the virus pandemic.

The *summer only* areas are different to those winter resorts that stay-open, or reopen, offering high altitude glacier skiing in the summer like Zermatt or Val d'Isere; and they are not southern hemisphere ski areas where resorts only open between late autumn through winter to early spring.

They are northern hemisphere ski areas in locations, which are often cut off by snow in winter, or too cold and dark to operate in the winter season. The 6 are **Beartooth Basin** on the Wyoming/Montana border in the United States; **Passo Stelvio** in Italy, **Gassan** in Japan and 3 glacier ski areas in Norway.

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All 6 were open for the first time in 2020 as Passo Stelvio and the **Stryn Glacier** in Norway opened for their 2020 seasons. Stelvio had been delayed by the pandemic whilst Stryn opened a fortnight later than planned as there was so much spring snow to dig away to get to it. Gassan re-opened at the start of the month having been closed in May due to the pandemic lockdown in Japan. Despite receiving unseasonable early summer snowfalls, which sometimes blocks access to the slopes, Beartooth Basin says its operation is on a day-to-day basis as summer thawing means rocks are increasingly appearing through the snow.

A seventh mostly-spring-skiing area, **Riksgransen** in Sweden, usually opens from late-February to late May. In 2020, it was one of the few ski areas in the world to operate through the pandemic. It traditionally opens for 3 days of skiing and boarding around Midsummer, offering the novelty of snowsports under the midnight sun in its northerly location within the Arctic Circle where there is 24-hour daylight at this time of year.

Source: Snowhunter

# **Alpine countries**

The Alps are by far the largest inbound ski market on the planet, capturing 43% of worldwide attendance. It is also the most intensely equipped region of the industry, totalling more than 10'000 lifts. Unsurprisingly, it is home to 4 of the major players of the ski industry. Although geographically part of Western Europe, the Alpine countries have been treated as a separate group in this report, due to their importance in terms of market share.

### Austria



Part of the Alps, Austria is covered mostly by mountains. 68% of the country is located above 500 meters. Only the eastern side of the country partly consists of lowlands. The Alps cover 62% of the land area, culminating with the Grossglockner at 3'798 meters above sea level. Thus, contrary to the other Alpine countries, Austria does not feature any summit above 4'000 meters.

Winter sports already appeared in Austria at the end of the 19<sup>th</sup> century. Some ski competitions

were organized as early as 1906 and the first ski schools emerged. The *Arlberg* ski teaching method was the standard at that time. In the 1930s, ski schools and ski clubs were founded in several locations. In 1936, the first surface lift was installed and in 1947, the first chairlift. Together with the slope preparation, they contributed to making winter sports increasingly popular. Many of farmers' villages in the mountains discovered the opportunities winter tourism offered, and after Second World War, it progressively developed into a major industry.

Ski resorts have never ceased to improve. With more than EUR 6 billion spent during the last decade, Austrian operators have been massively investing, showing the most updated lift infrastructure of the industry. 728 new lifts<sup>20</sup> have been installed since year 2000. To some extent, or when measured to other countries' standards, the infrastructure in some places even tends to be luxurious, with equipment such as 8-seater detachable chairlifts with heated seats, bubbles and automated underground parking. It is worth noting that the economic sustainability of such a high level of investment is still difficult to demonstrate, when more than 50% of revenues have been reinvested for several consecutive years.

The industry now also covers more than 60% of the slopes with snowmaking. A yearly average of EUR 140 million has been invested on snowmaking over the last 10 years.

Austria has a strong ski culture and remains the only country where schools still go on ski weeks on a regular basis. For the observer, there is a high level of individuality between the ski resorts, and the business models of the Alpine villages show some particularities. Austria is the European country with the largest hotel accommodation offering and the lowest

<sup>&</sup>lt;sup>20</sup> Including lift renewals.

number of secondary homes. Since most of these hotels are family-

owned<sup>21</sup>, they still have a very conservative approach to marketing, but benefit from loyal returning customers. The owners invest very regularly to maintain rooms and infrastructure up to date, resulting in a very good price/quality ratio of most of the accommodations. This seems to be successful with both the domestic and the large German and Dutch customer base (respectively 12%, 47% and 12% of overnight stays<sup>22</sup>). In fact, the country is a big importer of skiers: Austria is the country in the world that welcomes the highest number of foreign skiers. Even if the level of traditional German clients have been rather stagnant for more than 20 years now, and Russian clients showed a



sharp decline after Winter 2014, Austrian ski resorts still benefit from a global increase of foreign guests. Most nationalities are up – possibly a switch from Switzerland due to the rise of the Swiss currency. Domestic customers remain stable.

A couple of Austrian resorts have a very strong market positioning. Some, although not connected, have joint marketing efforts, showing an example of a new dynamic. Despite the fact that it is not possible to ski between each of the resorts, the benefits of using this common brand have appeared, for instance by allowing higher pricing and joint advertising actions. By the way, the number of interconnected resorts has been growing over the recent years. The race to become Austria's biggest interconnected resort seems to be open!

In the western part of the country, Tyrol is likely to be the most densely ski-resort populated area in the world. With 79 ski areas and 480 major lifts<sup>23</sup>, Tyrol captures 49% of Austrian skier visits. Large ski resorts can also be found in Vorarlberg, Salzburg and Carinthia. The smaller ski resorts in the eastern regions are visited by guests from the Vienna area and neighbouring Slovakia and Hungary, mostly just for day trips.



<sup>&</sup>lt;sup>21</sup> The same families also often own shares in the lift companies.

<sup>&</sup>lt;sup>22</sup> Figures from the 2017/18 winter season, Statistik Austria, Tyrol, Salzburg & Vorarlberg.

<sup>&</sup>lt;sup>23</sup> Not taking into account the surface lifts.

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Austrian ski resorts are working to improve their climate-friendliness. A large number of projects are continuously improving the share of renewable energies. In the area of mobility, the industry is relying on a strong cooperation with ÖBB Railtours. The product *In the Nightjet to the Snow* is now entering its second season after its successful premiere last year.

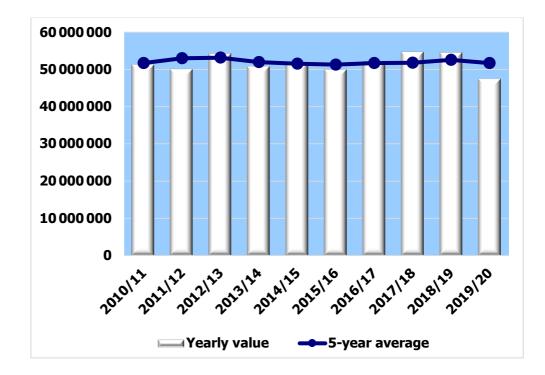


Figure 13: Austria, evolution of skier visits

With an average yearly increase of 2.25% since beginning of the century up to the record 56.9 million skier visits in 2008/09 season, Austria has been continuously growing its attendance. Then, yearly attendance began to decrease, as with other Alpine destinations. Despite very good visitation figures during the 2012/13 winter, the situation then stagnated at lower levels, translating to an overall decline in the long term trend up to winter 2015/16. Season 2016/17 however looked better and the 5-year average trended on the rise again. This was confirmed by the 2017/18 winter, with a further increase of 4.8% in attendance. Due to poorer figures in France and the United States, Austrian ranked first on the winter 2017/18 skier visits podium for the first time in recent history. Despite good attendance also in 2018/19, top of the podium was recovered by the United States that over performed.

Season 2019/20 was cut short by the covid-19. The industry was right on track until the official closure of the operations, but then had to accept heavy losses. Despite the figures for the season show a decrease in visitation of 13.0% compared to 2018/19, the period between November 2019 and February 2020 saw an increase of 8.4% in skier visits over former season and an even higher increase in sales.

Laurent Vanat

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#### Covid-19 impacts

Initially it was Tyrol region, then Salzburgerland and Vorarlberg announced on Friday 13th March, but later in the day ski areas in other ski provinces like Styria and Carinthia where resorts like Schladming, the Dachstein Glacier and Bad Kleinkirchheim are located also closed. At least four glaciers then re-open. Hintertux, Kaunertal and the Kitzsteinhorn from 29 May 2020, and the Molltal from 6 June 2020. The Kaunertal closed again on 7 June.

People who have caught coronavirus, believing they did so at the Austrian ski resort of Ischgl, have sign up for a class action due to be brought against the provincial and Austrian governments by the country's own consumer protection body, the VSV. The action alleges that the province failed to shut down Ischgl quickly enough when it was well aware that many people visiting the resort from all over Europe and further field were testing positive for coronavirus soon after they left. More than 400 people were reported to have signed up to the action in the first 48 hours since it was announced and that number has now grown to more than 1500. The Kitzloch bar, which was one of several that had already been closed before the general shut down, is sited in many media reports as the epicentre of the outbreak.

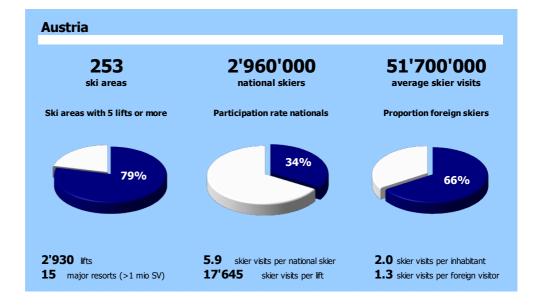
A criminal investigation is already underway separately, and some of the more colourful media reports suggest some people believe Ischgl was a key hotspot for the start of the European pandemic, with some believing they caught the virus there as early as January, although those claimants have not been tested to see whether they had the virus.

More solid reports were made on March 5th by the Icelandic Government, which identified the Alps and particularly the Tyrol as the place from where Icelanders were returning with the disease. They banned their citizens from travelling to the Alps and required those returning from there to go in to two weeks isolation.

Ischgl was finally identified as being about to close down the next day on Thursday 12 March, but then all ski areas in Tyrol and within a few days all in Austria had closed. It, along with several other famous ski resorts in the Tyrol, were then under strict quarantine.

#### Source: Snowhunter

The largest ski resorts of Austria, based on attendance, are, **Hochzillertal-Hochfuegen-Kaltenbach**, **Ischgl / Samnaun Silvretta Arena**, **Kaprun-Kitzsteinhorn**, **Kitzbuhel**, **Schladming 4Berge**, **Serfaus-Fiss-Ladis**, **Silvretta Montafon**, **Ski Arlberg** (including Lech, Zürs-Warth, St. Anton, St. Christoph and Stuben), **Skicircus Saalbach Hinterglemm Leogang Fieberbrun**, **SkiWelt Wilder Kaiser-Brixental**, **Snow Space Salzburg** (including Flachau-Wagrein-St. Johann,), **Soelden**, **Stubaier Gletscher**, **Zillertal 3000 – Mayrhofen** and **Zillertal Arena**. Most of them are based in Tyrol.





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# France



France hosts, together with Italy, the highest summit of the Alps (Mont Blanc, topping at 4'810 meters above sea level). There are 24 Alpine peaks that reach over 4'000 meters in France. If the French ski resorts in the Alps are the largest and most well known, several other mountain ranges in the country have ski resorts: the Jura, the Pyrenees, the Massif Central and the Vosges. There is even a ski area in Corsica Island.

France saw the first Winter Olympics Games, held in

**Chamonix** in 1924. At that date however, they did not include downhill ski competitions. Ski began to develop in France in the 1930s and Chamonix was joined by other mountain villages, like **Mégève**. After a first development phase of ski areas around existing villages, French developers began to build resorts from scratch. It first started with village-like resorts and then moved to high altitude densely urbanised integrated resorts, which saw construction of big housing blocs in the mountain in the 1960s and 1970s. The French Government highly supported the development of these suburb-looking mountain towns, such as **La Plagne**, **Val Thorens**, **Avoriaz**, **les Arcs**, **Tignes** and others (Plan neige). Last and most recent development phase returned to more village-like lower altitude resorts, smaller and better integrated in the environment.

Some of the major French resorts that were created from scratch, initially as integrated operations, were later on dismantled in the 1980s and lift operations were distributed among numerous actors, giving birth to the Compagnie des Alpes, the world's largest ski resort operator. France is the only European country with such a dominant operator who runs nearly all the major resorts (13 large Alpine resorts totalling more than 15 million skier visits are operated fully or partly by Compagnie des Alpes). There are also a few other smaller operators that manage lifts for several ski areas, such as Labellemontagne and Altiservice. Savoie Stations Participation is a public / private company that holds interests in 17 ski areas. In France, ski lifts are still considered a public service, and some of the operating companies are either partially owned or even directly managed by municipalities.

Another particularity of French resorts, especially in the big purpose-built resorts, is the extremely high proportion of apartment housing. Hotels are quite rare and most customers spend their ski week in what is called a *Résidence de tourisme*, which are to some extent the French equivalent of

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the North American condos, with much less surface area per guest, and with a level of comfort in many cases still based on the standards of the 1970s. This latter issue is even becoming a problem, as it generates a decrease of the number of beds that can be properly marketed.

The largest and most attended ski resorts in France are mostly located in Savoie and Haute-Savoie, beside 3 spread between Isère and Alpes du Sud. All of the following resorts have average winter visitation over 1 million skier visits : **Avoriaz**, **Chamonix / Les Houches**, **Courchevel-Méribel-Mottaret**, **Flaine-Morillon-Samoens**, La Plagne, L'Alpe d'Huez, Les Arcs, Les

Deux-Alpes, Les Ménuires, Serre-Chevallier, Tignes, Val d'Isère, Val Thorens / Orelle.

Although France is the number one destination in terms of arrivals in world tourism, the ski industry is still primarily driven by the domestic market. However, the domestic market is very mature, with a number of skier visits that shows a slight declining trend after an inflection point in winter 2012/13. On the other hand, there are about 2 million foreign skiers who visit France each winter season and their number used to tend growing and compensate the retiring domestic customers. The British represent one quarter, followed by the Italians, Belgians, Germans and Russians. The latter became increasingly numerous at ski resorts, accounting for 7% to 9% overnight stays in hotels, before the Ukrainian crisis. Nevertheless, the 5-year skier visit average trending slightly downwards for several years highlights the overall trend in Europe. Both domestic and foreign customer bases are flattening and it will be imperative in the very near future to find new ways to introduce massively new clienteles to skiing.

#### **Covid-19 impacts**

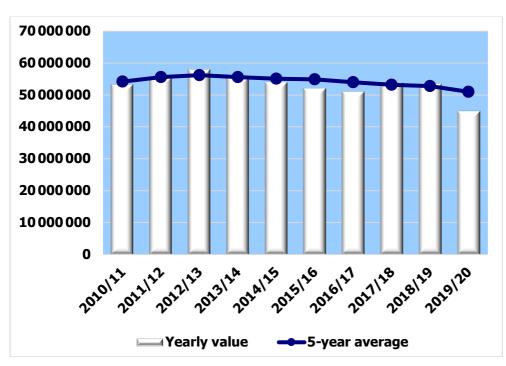
On Saturday evening 14 March 2020, French resorts went from saying they expected to stay open to being told they had to close at midnight that night by the French government. There has been some unhappiness that the French government announced measures that resulted in the immediate closure of the country's resorts at very short notice, just after tens of thousands of skiers arrived to start their ski weeks.

Tour operators said they had been reassured by French resorts that they would not be closing and so many flew in their guests as planned on Saturday, checking them in to accommodation, collecting ski rentals and passes ready to start their skiing next morning. However, the French government announced at night measures, which meant the closure of all ski resorts, saying it must happen within a few hours, by midnight same day.

As this was a logistical impossibility, resorts and travel companies were struggling to get skiers back home and questioned why the announcement, or some warning of it, was not made a few hours earlier so that this nightmare situation could have been avoided.

We are getting over our anger. It was literally not until 10 pm last night that we were confident of the information we were receiving. The same people who had assured us on Thursday, Friday or even Saturday that they would remain open, *have now all closed,* said Diane Palumbo, sales and marketing director at SkiWorld to The Guardian, which estimated that 30'000 Brits were affected.

The summer glacier ski areas at Les 2 Alpes and Val d'Isere reopened beginning of June 2020.

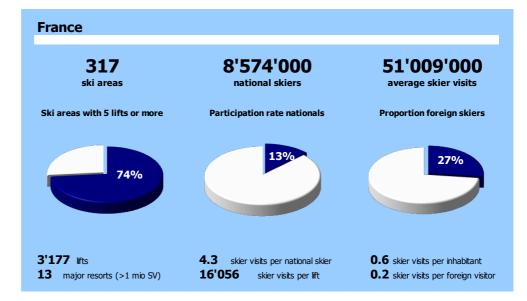


Source: Snowhunter

Figure 14: France, evolution of skier visits

After 4 seasons in a row with a decrease in visits to French ski resorts, winter 2017/18 showed better figures. Attendance improved to reach 53.8 million skier visits. In 2018/19, attendance declined again 0.8% on former year due to unfavourable holiday's periods.

Resorts of all sizes suffered during season 2019/2020, but those most impacted were the smallest and the biggest. The largest resorts are the ones that paid the heaviest tribute to the early end of the season. Indeed, there was still one month and a half to run after 15 March brutal closure for high altitude resorts. These weeks use to make a substantial contribution to the season for these resorts. Smaller ski areas have often suffered from a lack of snow throughout the season. Covid-19 closure itself brought therefore less impact at low altitude resorts, which had anyway already experienced a bad season. For the others, before it came to a sudden end, the season had gone well so far, with real resilience of ski areas, some facing adverse weather conditions. On average, the ski resorts visitation ended 15.9% down over former season.







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# Italy



A share of 35% of Italian territory is made of mountains and a further 42% is covered by hills. 2 major mountain chains cross a large part of the country and are linked together. The highest one, the Alps in the North, ranging from East to West, culminates at 4'810 meters above sea level with the Mont Blanc, on the border with France. The second range, the Apennine, crosses the country from Liguria to Calabria. It is not so high as the Alps but much longer, as it extends over 1'500 kilometres. Its highest point,

Corno Grande, in the Gran Sasso, reaches 2'914 meters above sea level. The Etna volcano, which by the way hosts a ski area, culminates over island of Sicily at 3'340 meters above sea level. Italy shares also with Switzerland the Matterhorn, one of the most iconic summits of the Alps.

Although most of the ski resorts are concentrated in the northern regions of Piemonte, Valle d'Aosta, Lombardy, Trentino, Alto Adige (Südtirol) and Veneto, there are minor ski resorts throughout most of the country, including on the islands of Sicily and Sardinia.

Despite some older traces of skiing in Italy, it seems that modern skiing was introduced in 1897 in the region of Torino. In 1901, Ponte Nossa and Torino ski clubs were the first ones in Italy. They concentrated at the beginning mostly on the promotion of backcountry skiing. The fist ski race was organised in Italy in 1904 in **Bardonecchia**. Italian Ski Federation was founded in 1913. First World War gave an impulse in Italy to train 88 Alpine battalions.

The erection of **Sestriere** was started in 1930, as the first purpose-built Alpine resort. **Cervinia** completed its first Breuil - Plan Maison cable car in 1936. The lift was built within 2 years of the founding of Cervino in 1934, and played a crucial part in the resort becoming one of the most important ski resorts in Italy.

**Corvara**, in Val Badia, was the first place to introduce dedicated ski lifts in Italy. It started in 1938 with a sledge-lift, cable-dragged across the snow. Then the first chairlift was built in 1946. It was a single seater with wooden towers. Its huge success led to expanding the area with other lifts over the next year, creating the famous *Skicarosello Alta Badia*.

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Currently, Alta Badia, Campiglio Dolomiti di Brenta, Gardena / Alpe di Siussi, Livigno, Plan de Corones, Sestriere Via Lattea, Val di Fassa / Carezza are the ski resorts in Italy with the highest visitation numbers. They are located in the provinces of South Tyrol, Trentino, Piemont and Lombardy.

The Italian ski industry is similar to the Austrian model in the South Tyrol and eastern regions, and shares some similarities with the French resorts in the west. Some players are very dynamic, like the *Dolomiti Superski* area (featuring 450 lifts and 1'200 kilometres of trails), and offer a high level of infrastructure and state-of-the-art lifts and snowmaking facilities under a common brand name. This packaging is, however, formed by a multitude of small operators. The evolution of some other areas has been slower, contributing to stagnation in skier visits.

The Italian industry is quite fragmented, with no major operator. It relies primarily on domestic customers and for about one third from European outbound markets. Large international resorts are popular for guests from Germany, United Kingdom, Netherlands and Poland.



From 2002 up to 2009, 20% of the lifts were removed and a further 20% have been renewed, for a total of 445 new lifts. Although Italian operators have been investing quite heavily in the beginning of 2000s, attendance started to decline. Even if the market was then recovering up to 2010/11

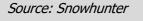
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season, Italy seems to have a rather mature market profile, with the trend towards declining skier visits ever since and yearly figures stabilising at a low level for 6 winters in a row. Season 2016/17 looked however a little better, stabilising the 5-year average. Winter 2017/18 was much better, with a 6.8% improvement in visitation (on national average; some resorts, like Dolomiti Superski, even enjoyed a 12% increase). Positive trend continued in 2018/19 with a new increase in attendance of 1.0%.

Due to the emergency linked to the spread of covid-19, the Italian authorities imposed the immediate closure of all ski lifts nationwide on 9 March 2020, thus anticipating the end of the winter season. Ski areas were stopped right in the heart of a season that would have been record in the North. At the end of February 2020, the level of revenues showed a growth of 15% to 25% in some areas in Aosta Valley for instance. In the Central South, the early closure did not allow the ski areas to recover after a start which, unlike in the Alps, had been very problematic in the Apennines due to lack of natural snow, rain and warm winds. With the abrupt closure, the global attendance figures for 2019/20 season ended up 12.6% down over former winter.

#### **Covid-19 impacts**

Italy was in complete lockdown since 9 March 2020. Stelvio glacier summer ski area re-opened to all skiers and boarders in June 2020, later on followed by a second Italian glacier ski area, Cervinia.



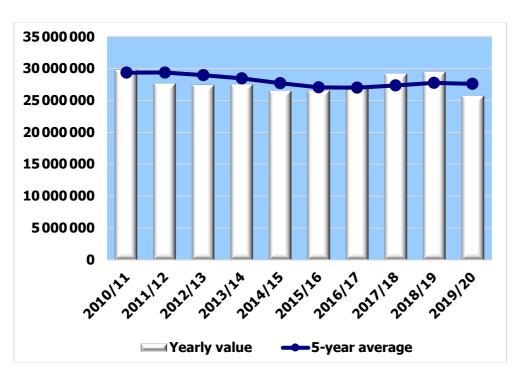
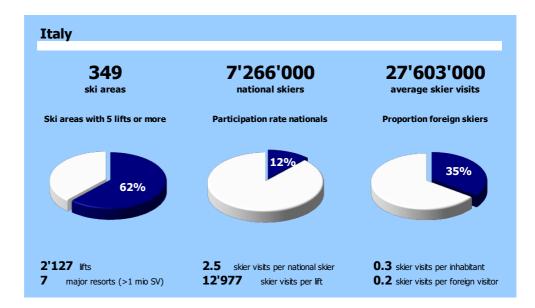


Figure 15: Italy, evolution of skier visits

Italy is the only major market that does not supply proper national yearly attendance statistics. Skier visits figures rely on estimates<sup>24</sup>.





 $^{\rm 24}$  The present report does not rely on the officially communicated estimates.

# Liechtenstein

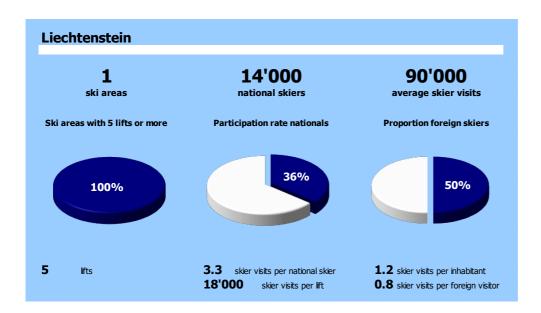


Liechtenstein is a small Alpine principality in Central Europe bordered by Switzerland to the west and south and by Austria to the east and north. The majority of its 162 square kilometres is mountainous, with the highest summit topping out at 2'599 meters above sea level (Grauspitz), making it a destination for winter sports, although the small country only accounts one single ski resort, **Malbun**.

Malbun is pretty close to the capital, Vaduz, but the road up to the resort can be an

intimidating one for inexperienced mountain drivers, with steep gradients and sharp corners.

Skiing in Malbun appeals to the nostalgia of the days before the sport became industrialised, with package tours and lift queues. It is not a place to ski record vertical, or to spend a lot of money on après-ski. However, Malbun is the perfect resort for a romantic getaway to remind oneself what a ski vacation was once all about. Like the country, the resort is tiny, with only a handful of hotels amongst the private chalets and houses. It is only equipped with 5 lifts that rise to a maximum altitude of 2'000 meters. The snow conditions normally remain pretty good.



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# Slovenia



Slovenia has 28 peaks over 2'800 meters high. The highest peak, Triglav, culminates at 2'864 meters above sea level. The Alps, including the Julian Alps, the Kamnik-Savinja Alps and the Karavanke mountain range, tower above Northern Slovenia along its long border with Austria and Italy. In the 17<sup>th</sup> century, skis were already used there as a means of transportation. Today, hiking and trekking are among the most preferred sports in Slovenia. Thanks to attractive winter resorts such as Kranjska Gora, Rogla

and **Krvavec**, skiing has developed into a major sport in the past few decades, even though other European winter sport destinations are strong competitors due to higher altitudes and the guaranteed snow. Tourism is the highest growing economic sector in Slovenia and is increasingly competitive.

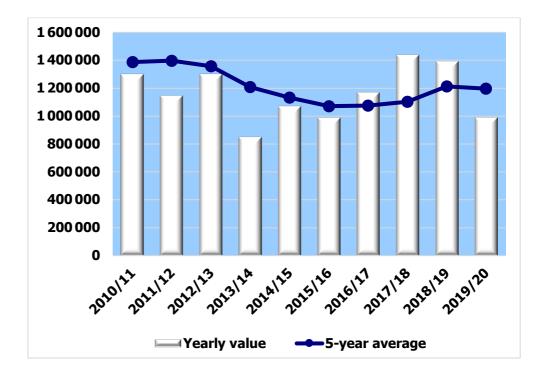


Figure 16 : Slovenia, evolution of skier visits

The evolution in skier visits reveals a strong dependency on snow conditions. After a substantial growth in the beginning of the 2000s, several seasons have shown a declining trend in attendance. It has however been reversed starting from winter season 2016/17, with a return to higher visitation figures. 2018/19 was unusually warm and ski areas, overall, posted declining skier visits numbers. With the pandemic early closure, skier visits declined again in 2019/20, with a 28.8% shortfall over former season.

### **Covid-19 impacts**

Ski resorts were closed at the same time than the other alpine resorts. Kanin Bovec re-opened from 14 May 2020 for a few weeks.

Source: Snowhunter

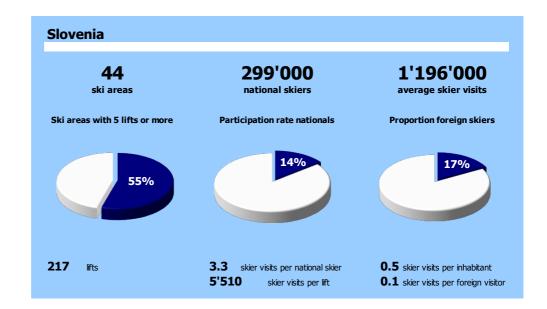
Slovenia has 44 resorts with a total of over 200 ski lifts. It offers a very good price/performance ratio, modern ski runs, cross country skiing, good infrastructure, snowmaking, and well-equipped holiday apartments and hotels.



**Mariborsko Pohorje** is one of the most well known resorts. It hosts an alpine World Cup ladies' downhill event every year. 43 kilometres of ski runs, modern spas, beautiful landscapes and being near the city of Maribor make this a very attractive destination. The resort guarantees 100 snow days per season. Another popular ski resort is **Kranjska Gora**. It hosts an alpine skiing World Cup event every year and has trails for every level, from beginners to expert skiers and snowboarders. The highest winter resort in

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Slovenia is **Kanin**, which is connected with the Italian resort of **Sella Nevea**. It offers 30 kilometres of ski runs, 13 lifts and snow through early spring. **Cerkno** is the most modern family ski resort in Slovenia, located on the slopes of the 1'291 metre high Črnivrh peak. This ideally situated ski area is 100% covered by an extensive snowmaking system, which guarantees a minimum of 70 ski days per winter.



# Switzerland



With 49 summits, Swiss Alps account the largest number of peaks that reach over 4'000 meters<sup>25</sup> of the whole Alpine range. The highest Swiss peak, Mount Dufour, reaches 4'634 meters above sea level and is the highest in the Alps

after the Mont Blanc. The Alpine range crosses all Switzerland from East to West and covers 62.5% of the national territory. Another 10% of land is covered by the lower mountain range of the Jura, which is also shared with France and Germany. Jura only reaches 1'679 meters above sea level at its highest point in Switzerland.

Mountain tourism developed already during the 19<sup>th</sup> century in Switzerland, in places like **St. Moritz**, **Davos** and many others. At the beginning, it was concentrated at summer time. Winter tourism in Switzerland is considered to be born in 1864 in St. Moritz. First winter sports were sledging, curling and ice-skating. Ski competitions appeared over the next century. World's first downhill race was held over the Plaine Morte Glacier in **Crans-Montana** in 1911. In 1921, the first modern slalom race was held in **Mürren**. The second Winter Olympics were held in St. Moritz in 1928 (without downhill skiing competition at that time). The first T-bar lift was installed in Switzerland in 1934 in Davos<sup>26</sup>.



Therefore, Switzerland was, for quite some time during the last century, the most well known ski destination in the world, with some places still garnering lasting recognition. The country was also once the leader in

<sup>26</sup> In fact it was first a J-bar lift installed, that was later on converted into a T-bar.

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<sup>&</sup>lt;sup>25</sup> Some are located on the boarder and shared with Italy.

terms of lift infrastructure. However, the industry lost part of its lustre in the 1980s; too many fragmented operators fighting over the same mountains led several companies into a poor financial situation. Investment has slowed down for quite some time and Switzerland has lost part of its appeal to foreign tourists. This has not been helped by its legendary, but not always true, reputation as being an expensive destination. However, for several years now, the exchange rate between the Swiss Franc, the Euro and the British Pound has been unfavourable and has led to a renewed reputation for being expensive. The situation became even worse when, on 15 January 2015, the Swiss National Bank discontinued the minimum exchange rate of the Franc with the Euro.

Swiss ski areas used to host an important foreign customer base, made up of Germans, British, French, Italians and Dutch<sup>27</sup>. Over the last few years, the number of Spanish, Russian and Asian customers has increased, but this has not made up for the decline of Switzerland's traditional foreign customer base. Over the last 10 years, winter resorts lost 1.5 million overnight stays related to the loss of the latter. Nowadays, the average proportion of foreign guests on the slopes has dropped below the 50% mark.

On top of this, the Swiss ski industry is facing the same demographics issue with its domestic and foreign customer base. Baby boomers are retiring and the new generations are less engaged in the sport. The skier visit figures present thus a long-range declining trend.

## **Covid-19 impacts**

General closure was decided by the Swiss Government on 13 March 2020, starting the next day. Some ski resorts however kept open on 14 March. They were quickly ordered to comply with the general closure decision and were closed on the 15th. Engleberg-Titlis and year-round ski area Zermatt re-started its glacier lifts from 6 June 2020. Saas-Fee reopened in July.

Source: Snowhunter

From beginning of 2000s, Switzerland first experienced a period of stagnation, which ended after winter 2008/09 when attendance began to show a steady decline. This happened in spite of continued efforts by Swiss ski resorts to extend snowmaking facilities and renew lift infrastructure. Unfavourable snow conditions repeated for 3 years in a row starting winter 2014/15. After early snowfalls in November, weather became mild and dry up to the end of the year. In several areas, there has been no snowfall / rainfall at all during the month of December. Snow was lacking in many resorts for Christmas / New Year holidays. Genuine winter conditions only arrived later.

<sup>&</sup>lt;sup>27</sup> Top 5 in hotels overnight stays during the winter season in mountain regions.

Winter 2017/18 experienced however better conditions. Attendance figures rose 10.3% over previous season. Despite weather conditions have not been always very favourable throughout the first half of the season, 2018/19 also experienced a further growth of 6.2% in skier visits, which reached 10.3% over the 5-year average. This improvement did not yet fully recover for the 25% skier visits lost over a 10-year period up to 2016/17.

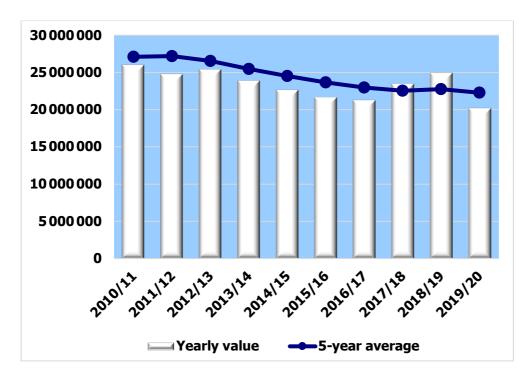


Figure 17: Switzerland, evolution of skier visits

Winter 2019/20 saw 2 exceptional conditions. First of all, the record mildness of the season, which on the one hand deprived an exceptional number of small low-altitude resorts of snow, but on the other hand allowed the larger resorts which had snow to offer excellent skiing conditions and reaching attendance records. Overall, it had therefore started very well, with an increase at the end of January of 9% compared to the previous season. At the end of February, the 2019/20 season was still 1% ahead of the previous one. Everything pointed to an excellent season, continuing the progress of the past few years, regardless of the mild winter. However, covid-19 decided otherwise. The 2019/20 winter season was prematurely interrupted on the evening of 13 March 2020 following government order. Skier visits ended 19.0% down compared to the previous season. As surprisingly as it may seem, 27 resorts however posted an increase in their attendance compared to the previous winter. Apart issues related to covid-19, an unusually high number of 35 resorts did not open during the season, mainly due to the lack of snow.

Several ski areas are currently entering into disruptive pricing strategies in order to try to recover part of the clients and attract newcomers. The first

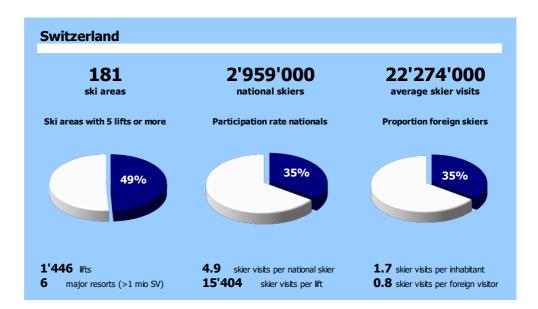
<sup>2021</sup> International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 – *PRIVILEGED COPY* 

one to propose heavily discounted season passes was **Saas-Fee**, with a CHF 222 offering in 2016/17. Although the resort was very successful with it on the first season, the 2017/18 was not so bright. 25 Swiss ski areas got also together in 2017/18 to offer a multi-resort season pass with very interesting discounted price in pre-sale. They were able to globally increase their skier visits figures by 30% over the former season, which is 20% more that the Swiss average. Other ski areas also introduced offers of this kind and some resorts are now working on the adoption of dynamic pricing. It will however need some years before conclusions can be drawn from all these initiatives.

The future is still unclear and is a concern for ski area operators. For the time being, Swiss operators have not taken any considerable measures to anticipate the impact of the demographic changes in their client base. Some campaigns were launched over the last few winters to get citizens of major cities acquainted with the pleasures of skiing. Various ideas are being studied but customer knowledge still needs to be improved to develop successful CRM programs.

Further improvements to the client experience will also pass through the modernization of part of the aging hotel infrastructure, which offers very unequal quality depending on the destination. The increase in the non-skiing offer will also help the Swiss Alpine resorts to be more appealing to a larger customer base both in winter and in summer.

Currently, the largest ski areas in Switzerland by visitation numbers are **Adelboden-Lenk**, **Arosa Lenzerheide**, **Davos-Klosters**, **St. Moritz**, **Verbier**, and **Zermatt**, in the regions of Grisons, Valais and Bernese Oberland, where the largest ski resorts are concentrated.



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# Western Europe

Western Europe (except the Alpine countries mentioned separately above) is for the present time the largest outbound skiers market. It is home to more than 30 million skiers. It is also home to nearly 1'100 ski areas, an amount quite comparable to the Alps. However, even if several Western European countries have their own ski resorts, many skiers enjoy travelling to the Alps. Thus, attendance in Western European resorts represents only about 25% of the total Alpine skier visits.



# Andorra

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With 62 peaks over 2'000 meters high within the country's 468 square kilometres surface area, the Principality is located in the highest part of the Pyrenees and has the largest ski area in the Pyrenees. The resorts are located at altitudes between 1'550 and 2'640 meters above sea level. Due to the southern location, the climate is milder and sunnier than in the other European ski regions. Even if susceptible to unreliable snowfall, snow conditions are generally good, enhanced by a solid snowmaking system.

As the Andorran population is very small, the national customer base is insignificant. Most skiers are foreign visitors. Although there is no direct access by rail or air to Andorra, the ski areas are close to big cities from neighbouring Spain and France. They also attract other international visitors, such as British and Russian skiers. The resorts offer many hotels for all tastes and budgets. They are also valued for their nightlife and shopping.



Due to the huge portion of international customers in the number of skier visits, Andorra is the only destination in Europe that experienced a decrease in skier visits immediately after the 2008 crisis. They however quickly stabilised and showed again some trend upwards over the recent years. For the first time after 11 seasons, skier visits have returned over the 2.5 million mark during winter 2017/18, which was the level at the beginning of the 2000s. The country has nevertheless to fight against increasing international competition and lacks a domestic market.

2021 International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 – *PRIVILEGED COPY*  The 2019/20 season started with early openings in mid November, due to few but abundant precipitation and good conditions for snowmaking. The Christmas – New Year period saw and increase in visitation of 20% over previous average, thanks to good snow and weather conditions. February also offered magnificent ski conditions, but unfortunately, the resorts were forced to close as of March 14 due to the Covid-19 pandemic. This health emergency shortened the growing trend that the season was showing. It ended with a drop of 8.5% in skier visits.

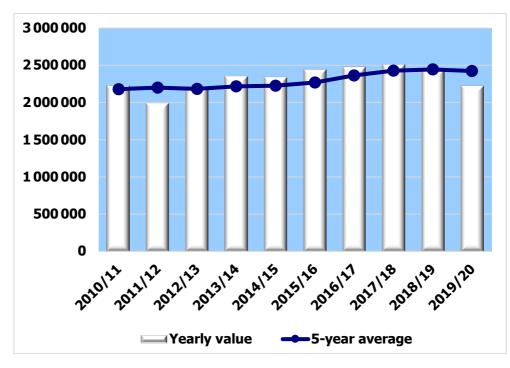
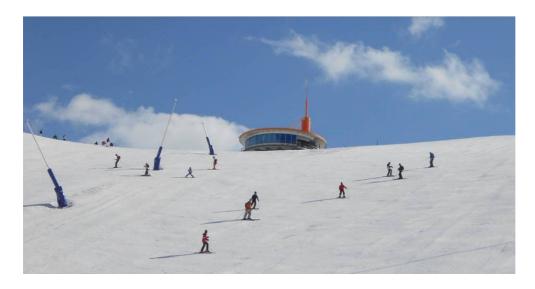


Figure 18: Andorra, evolution of skier visits

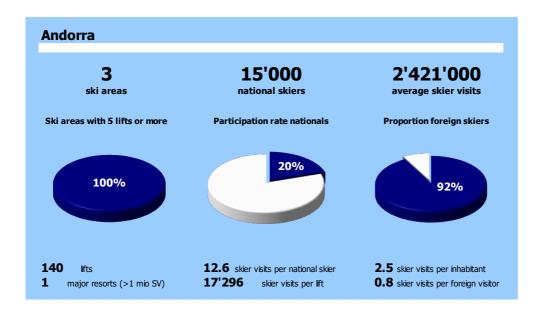
Andorran ski resorts are state of the art and offer wide ski areas. Important investments have been mare over recent years to put them in a position highly competitive with the Alps. However, despite modern infrastructure, good snowmaking, and large enough resorts to compete with the Alps, part of the skier market still does not consider Pyrenees resorts as attractive as those in the Alps, claiming their layout differs slightly. As for the whole region, there remains an image deficit to address. Villages are extensively connected over wide areas, but vertical drop is considered lower than in the major Alpine resorts.





Le Pas de la Casa-Grau Roig and Soldeu-El Tarter form the **Grandvalira** ski area. Grandvalira is the largest interconnected ski area in the Pyrenees. With its 71 lifts, 128 runs offering 210 kilometres of skiing, it has entered the exclusive club of the top 50 largest resorts in the world (over one million skier visits per year). Grandvalira benefits from an international reputation and already hosted several World Cup events. Grandvalira ski passes also include the Ordino-Arcalis area, which is not directly connected to the main resort's area. Ordino-Arcalis features 16 lifts, 34 runs, for a total of 30 kilometres of skiing and is well known for freeride. It hosts every year the *Freeride World Tour*.

The other resort is **ValInord-Pal Arinsal**. Pan and Arinsal are linked via a 50-person cable car and offer together 31 lifts, 49 runs totalling 63 kilometres.



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# Belgium

Despite Belgium being qualified as *the Flatlands*, with an average altitude less than 300 meters above sea level, the southern part of the country has some hilly terrain. The Ardennes range tops out at 694 meters (Signal de Botrange).

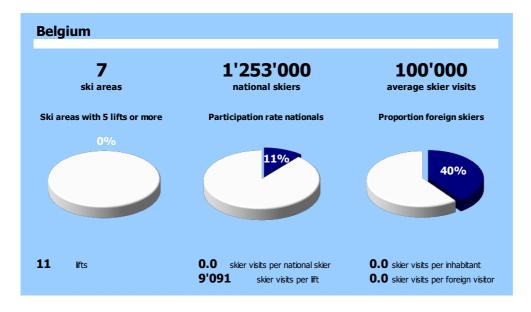
Since Belgians like to ski, and even though they spend most of their winter sports vacation abroad, 7 small ski areas have become popular in the Ardennes, in addition to a few indoor and dry slope facilities. Snow coverage is an issue, as good conditions are never guaranteed

during the winter. January and February are the most likely to offer snow. On average, Belgian ski areas operate between 30 and 80 days in a season.

The ski areas are small and local, offering only surface lifts. It is possible to rent skis in most places. They are suitable for families with young children as they offer mostly beginner slopes (and often a sledge run). Incidentally, several ski areas ban snowboarding for safety reasons. These areas offer a good opportunity for novice skiers to get a taste for skiing before heading to the larger ski resorts in the Alpine countries. Belgian slopes also attract neighbouring French and Dutch skiers.

The best-known ski areas are **Baraque de Fraiture** and **Mont des Brumes**. Baraque de Fraiture has the highest slopes in Belgium (reaching up to 652 meters above sea level) and also features night skiing. Mont des Brumes has been the cradle of skiing in Belgium. The place was discovered by skiers in 1946 and a ski club was founded 2 years later. The area was soon equipped with ski lifts and it was one of the early places in Europe where snowmaking facilities were installed.

The longest trail in Belgium (1'200 meters long) is located in **Val de Wanne** ski area.





Ilulissat kobshavn)

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NORTH ATLANTIC

Denmark

highest hill culminates at 173 meters. However, the country also includes Greenland, which features heights up to 3'733 meters above sea level (Fjeld Gunnbjorn). Greenland is a peculiar territory, with more than 75% of its surface covered with an ice cap and only contains 56'000 inhabitants. On top of a lack of any terrain relief, Denmark also often lacks snow. The Danish winter is unpredictable and snowfall sporadic. It is usually mild, with an average temperature of 0 degrees Celsius in January and February. However, sometimes the winters are

Denmark is one of the flattest countries in the world, with an average altitude of

about 30 meters above sea level. There

are absolutely no mountains and the

Danish winter is unpredictable and snowfall sporadic. It is usually mild, with an average temperature of 0 degrees Celsius in January and February. However, sometimes the winters are much colder and include snowy days, while other winters there is no snow at all, or the snow melts as soon as it falls. Sometimes several years pass between two snowy winters.

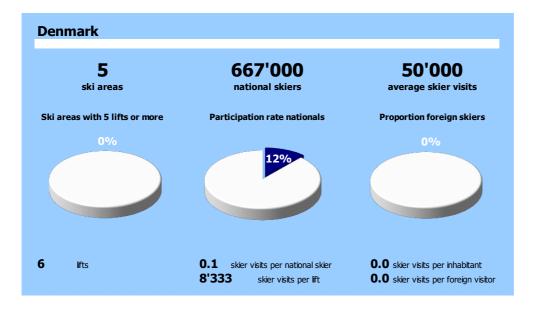
In addition to a couple of indoor ski facilities, there are a few outdoor ski areas with limited vertical drop and infrastructure. Skiing is a popular sport in Denmark and many Danes go skiing every year, travelling abroad, either to Scandinavia or to the Alps.

While the 3 ski areas in Denmark (**Hedeland**, **Kolding** and **Bornholm**) are mostly equipped with rope tows or beginners lifts (only Bornhom features a draglift), the 2 ski areas in Greenland (**Nuuk** and **Angmassalik**) have one or

more ski lifts. Hedeland is equipped with some snowmaking facilities.

The wild mountainous areas of Greenland, covered with fresh polar powder snow, offer some exclusive spots for heliskiing. It is possible to ski 2'000 meters of vertical down to the water's edge.

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Despite the coastal plains and the flat terrain of Southeast Finland, the country's high point is Mount Halti, 1'328 meters above sea level, located in the mountainous region along the Finnish-Norwegian border. Even with few mountains, Finland has about 80 ski areas in the North and Lapland (22), the South (26) and in the middle of the country (28).

The longest ski trail is in Lapland (over 3'000 meters long) but the average length of a ski run in Finland is between 600 and 800 meters. Finnish lift passes are among the cheapest in Western Europe.

Skiing has been in Scandinavia for several thousand years and it is said that the Vikings already used skis as a means of transportation. If the existence of skiing is very old, its practice as a sport is more recent. It was developed after 1850, when the first races were held (mainly in Norway), and the Finnish Ski Federation was founded in 1908.

Ski season in Finland can least substantially longer than in the Alpine countries, with some resorts opening already mid of October and operating until mid May<sup>28</sup>.



The progression of skier visits in Finland is quite low. With ups and downs, the long-range trend seemed however to be improving over the years

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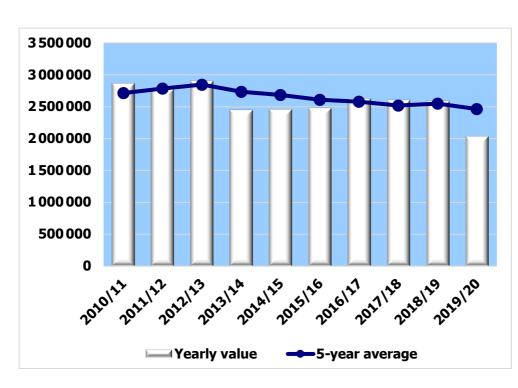
 $<sup>^{28}</sup>$  Ski resort of Ruka opened the 2016/17 season on October  $10^{\rm th}$ , using 30'000 cubic meters of snow from former season that had been piled into 3 huge mounds. Winter 2017/18 already began on October  $6^{\rm th}$ , using the same technique.

through winter 2013/14, where attendance was down 15% and remained so for the consecutive seasons. Winter 2016/17 saw however a 6% increase over the former one and winter 2017/18 remained about the same level. It started early in Lapland but exceptional late in middle and southern Finland. Despite conditions of the winter 2018/19 were considered as the worst for 30 years, with less snow, higher temperatures and a difficult season start, it ended up without any visitation loss on the former one.

Ski season 2019/20 began as early as October 4 in northern Finland, with some resorts stockpiling snow from the last season. With lots of snow, the season seemed promising there and record attendance was expected. The other parts of the country suffered from very warm and rainy conditions. On top of this, the government put some restrictions on school camps, making it already the worst winter on record by mid-March. Then came the pandemic and progressive resort's closure. If lift pass sales ended only 15% down in the North, the drop reached up to 51% in the South.

#### **Covid-19 impacts**

Finland initially followed the Swedish approach but ski resorts started to close when a number of virus cases were found in their resorts. Finnish ski areas announced plans to close early for the ski season, with several of the country's larger centres announcing they would do so the weekend after 27 or 28 March 2020.



Source: Snowhunter

Figure 19: Finland, evolution of skier visits

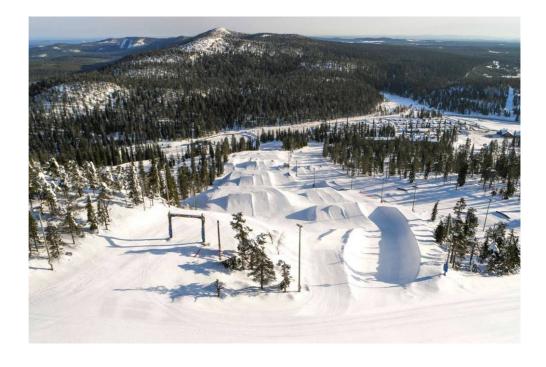
The biggest resorts are located northern of the country and offer unique combination of alpine skiing or snowboarding and true winter wonderland (arctic circles, reindeers, northern lights, Santa Claus, pure nature and clean air ...). Finnish Lapland has recently attracted a number of new routes with direct scheduled flights from United Kingdom, Germany, France and Switzerland.

The main ski resorts in Finland are **Levi**, **Ruka** and **Ylläs**. They primarily target families, recreational skiers and people attracted to the many adventure activities they offer (excursions, etc.). Levi is the fastest growing ski resort in Finland. It is located in the northern part of the country, has 2 cable cars, 1 chairlift and 25 surface lifts with a total capacity of 27'900 people per hour. Levi offers 230 kilometres of runs and 10% of them are lit for night skiing. From time to time, the resort hosts Alpine Ski World Cup races.

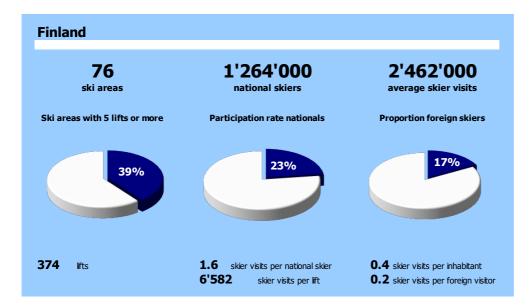
The Ylläs ski area consists of 7 peaks and 2 original Lapp villages. At 718 meters above sea level, Mount Ylläs itself is one of the highest peaks in Finnish Lapland. The Ylläs ski resort features 29 ski lifts, 61 trails, a Super-G-slope and the longest run in Finland (3.5 kilometres).

The northernmost ski area of Finland is **Saariselkä**<sup>29</sup>. The resort features 6 lifts and 15 slopes, 7 of which are illuminated. Vertical drop is 180 meters.

There is also a great network of local ski areas around Finland. Local ski areas are very popular not only for kids and beginners but especially for expert freestyle skiers and snowboarders. In such small resorts with snowparks and efficient lifts, it is possible to enjoy very good training conditions.



<sup>&</sup>lt;sup>29</sup> The resort even claim to be the northermost resort in Europe. However, there are a few ski lifts in Tromso, Norway, that are more north than Saariselkä.





# Germany



There are about 500 ski areas in Germany to satisfy the largest population of skiers in Europe: more than 14 million. However, nearly half of these areas only have one lift. The country's main resorts are located along the southern border of the Black Forest and in the Bavarian Alps. which border Switzerland and Austria. The German Alps, the Harz Mountains, Black Forest, Bavarian Forest, and the Thuringian Forest are middle altitude mountains, rising as high as 1'500 meters above sea level. Ski areas often sit at altitudes lower

than Austrian or Swiss resorts, and skier visit figures have shown higher sensitivity to snow conditions in the past. Resorts have therefore heavily invested in snowmaking systems in order to mitigate the meteorological risks. Visitors' figures have followed the same trend than in the Alps over the last decade, beside an exceptional season in 2012/13. The long-term trend appeared to be declining on recent years, before stabilising in 2017/18, before being impacted by covid-19 in 2019/20 and losing 26.7% in visitation.

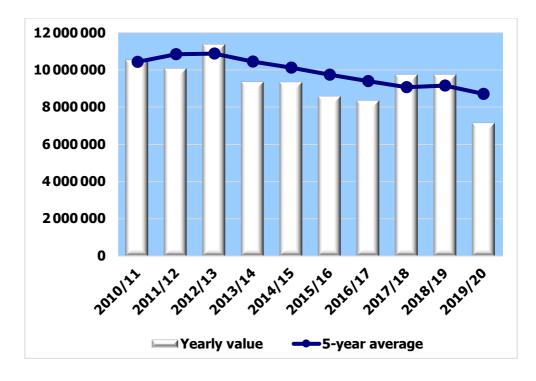
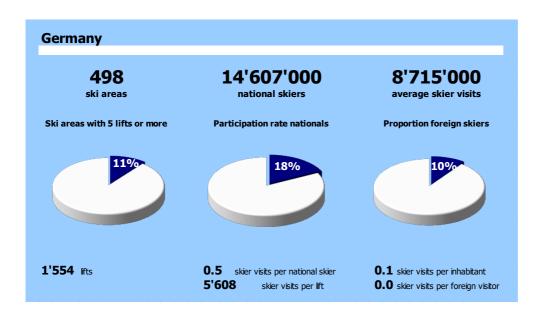


Figure 20: Germany, evolution of skier visits

The major catchment areas for German skiers are Munich, Stuttgart and regions further north. However, the Germans are big consumers of skiing abroad, and represent, for example, the largest foreign customer base for Austrian resorts. However, the behaviour of German skiers is basically similar at domestic level than on inbound markets, with a stagnating appetite for skiing coupled with the influence of seasonal snow conditions. For instance, the level of German winter overnight stays in the major Austrian ski regions has been stable for now 25 years.

**Garmisch-Partenkirchen** is the undisputed German winter sports capital. Renowned for its traditional New Year's ski jumping competition and for being an Olympic city, Garmisch today is a cosmopolitan place. Its ski area extends to the Austrian border, and includes over 60 kilometres of trails. The Zugspitze is the highest ski lift in Germany, topping out at 2'830 meters. Skiing in Germany is however not limited to Garmisch. In Western Länder, there are ski areas such as **Oberstdorf**, **Balderschwang** and **Oberammergau** in the Bavarian Alps, or **Reit im Winkl**, **Oberaudorf** and **Berchtesgaden** in the East.





Iceland

In spite of the country's name, it may often be warmer at ski resorts in Iceland than at many ski areas in Europe or North America. The snow conditions are in general cold and firm instead of powdery. Most of the Icelandic mountains are no higher than 1'500 meters above sea level. The ski areas may therefore lack the vertical drop needed for experienced skiers (the highest is around 450 meters). Several ski areas are located near urban centres, including the capital, Reykjavik. The main areas are equipped for night skiing, which is

necessary given the very short winter days. They usually offer a reasonable variety of runs, even if rather short. Many also offer cross-country ski trails, skating rinks and the possibility of renting snowmobiles.

The 2 best-known resorts are **Bláfjöll**, 30 minutes away from the capital, and **Hlídarfjall - Akureyri**, on Mount Hlídarfjall. **Bláfjöll** is the largest in the country with 12 lifts (3 chairlifts and 9 surface lifts) plus a couple of trainers' lifts and a total hourly capacity of over 8'000 people. Opened in 1982, it has 16 runs for all levels, but only a small portion is for advanced skiers. The area ranges between 460 and 700 meters altitude, offering limited vertical drop. Glacier skiing is possible during the summer. Accommodations are limited, with only 100 beds available for visitors in homes belonging to 3 ski clubs. One daily lift pass costs less than EUR 20. However, life in Iceland is pretty expensive for the extras.

**Hlídarfjall - Akureyri** is the most popular and most comprehensive ski destination in the country. It is equipped with 7 lifts, including a chairlift and a moving carpet, and features a wide variety of downhill ski runs from the summit. 24 runs cater primarily to beginner and intermediate skiers. With an altitude ranging between 500 and 950 meters above sea level, the area is equipped with a snowmaking system. In addition to skiing and a skating rink, visitors can also enjoy the snowpark, a swimming pool heated by geothermal activity and a fitness centre. Accommodations at the ski area only amount to 100 beds, but other options are available in the town of Akureyri, 7 kilometres from the resort. The daily lifts pass costs around EUR 20.

## **Covid-19 impacts**

Iceland is one of the few countries in the world where skiing has not been stopped due to the pandemic.

Source: Snowhunter

2021 International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 - *PRIVILEGED COPY*  2017/18 winter season's attendance increased more than 30% on former year, as snow conditions were much better. Winter 2016/17 had been missing snow. Weather has then been bad in 2018/19, bringing attendance figures to a lower level again.

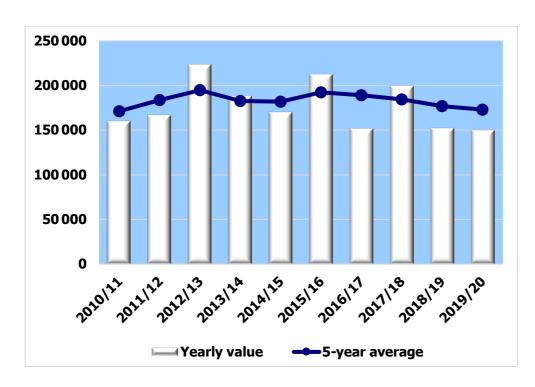
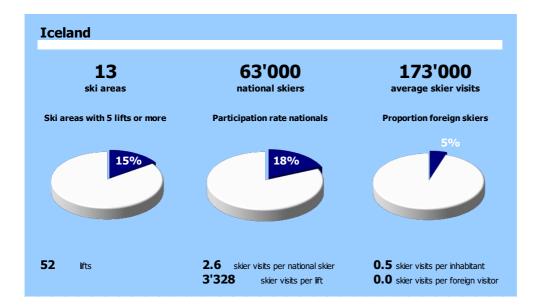


Figure 21: Iceland, evolution of skier visits





Norway

Most of the country is dominated by mountainous regions or high terrain, with 26 peaks higher than 2'300 meters above sea level. The highest summit tops out at 2'469 meters.

Skiing has been an activity in Norway for over 4'000 years and modern skiing was invented here. Initially, skis were solely a means of transportation, but skiing soon became a recreational activity. Morgedal, the birthplace of Sondre Norheim, the skiing pioneer and inventor of the telemark technique, is considered to be the cradle of skiing and was chosen 3 times to light the Olympic torch for the Winter Games. Norway has more than 200 ski resorts and over 650 ski lifts.

In the far North, there are no major resorts, but there is a wide variety of ski areas with cosy holiday cottages that are often rented out by private owners. Many holiday homes and hotels

are very close to the ski lifts. Norway also offers several snowboard parks and over 30'000 kilometres of cross country skiing trails. 2'500 kilometres of tracks are lit, as night falls very early in Norway.

### **Covid-19 impacts**

In Norway, SkiStar's ski resorts Hemsedal and Trysil were closed immediately after both municipalities decided on measures following the Norwegian government decision in mid-March. Norway relaxed its lockdown rules slightly in mid-April to allow small gatherings of people and small ski areas in the country have been able to apply to their local municipalities to ask if they can re-open under strict socialdistancing and stringent hygiene conditions. Some have re-opened for the last few weeks of the season; others have been turned down by local authorities that feel the risks are too great or that their local health facilities could not cope.

#### Source: Snowhunter

After some declining and stagnating years, skier visits have been on the growth for several seasons in a row and reached over 8 million, the highest figure ever reached in Norway.

The 2019/20 has been very mixed, even without the impact of the coronavirus. The season had a solid start, with early winterly conditions and a pre-season (fall opening until December 31) increase of 16%. In

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January, the weather conditions changed severely, with record average high temperatures in southwestern parts of the country causing operating difficulties due to lack of snow for many areas there. Against this, ski areas in the Artic Circle to the North have posted the most snow for more than 20 years. Therefore, sales kept nevertheless over previous season until February, before Covid-19 hit the ski resorts in March, with a decrease in sales of 45%. The majority of the resorts were closed also in April. Global decline in sales was 13% and 8% in skier visits.

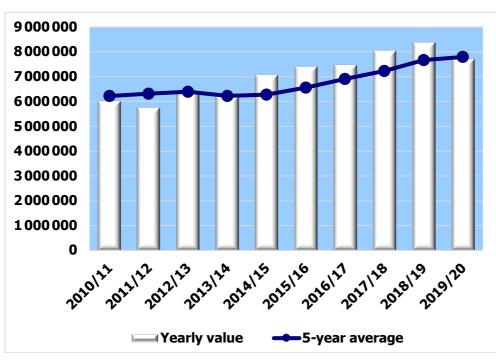


Figure 22: Norway, evolution of skier visits

Norway is an ideal holiday destination for families, thanks to excellent childcare facilities. Children under the age of 7 can ski for free, provided they are wearing a helmet. The ski season begins very early and lasts from November until Easter. Norwegian ski resorts benefit from good snow conditions and are not as overrun as elsewhere, so that ski lift lines are rare. The 2 largest ski resorts – **Trysil** and **Hemsedal** – even offer their guests a snow guarantee: if the guaranteed ski trails are not open for an extended period of time, the resort refunds their guests the money for their hotel, ski school, ski rentals and lift pass.

**Geilo** is the oldest ski resort of Norway and has since become a modern resort with good infrastructure, excellent ski runs, snowboard parks, mountain restaurants, hotels and spas. Spread on several areas, it has 4 chairlifts and 13 surface lifts with a total capacity of 22'000 people per hour, all located between 800 and 1'178 meters above sea level.

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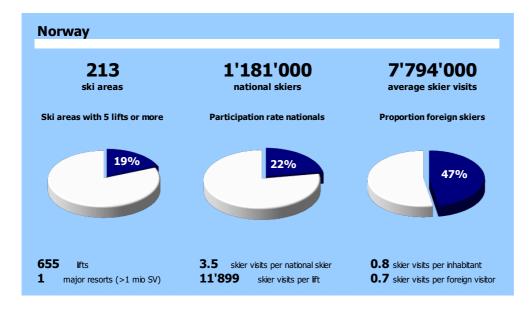


**Hafjell** is the third largest alpine ski area in Norway, 2 hours drive north from Oslo, well-known thanks to the 1994 Lillehammer Olympic Winter Games. With 835 meters vertical drop, it has 1 gondola, 3 chairlifts, 11 surface lifts, 44 kilometres of well-maintained ski runs and 300 kilometres of groomed cross-country skiing trails. Hafjell is a very modern and sunny ski resort. Snowmaking facilities cover 87% of the skiable area.

Hemsedal, in the Scandinavian Mountains, is a 3-hour drive from Oslo (230 kilometres). The summit of the resort culminates at 1'450 meters above sea level, offering 830 meters vertical drop. Hemsedal features 49 downhill runs for a total of 46 kilometres of skiing, 6 chairlifts, 12 surface lifts, with total capacity of 28'500 skiers per hour. Accommodations offer 4'800 commercial beds. There are 2 mogul runs and 2 runs are lit for night skiing.

Despite the title of northernmost ski area is heavily disputed between the 3 Scandinavian countries, it falls to the small resort of **Tromso**, featuring 4 kilometres of slopes and 2 T-bar lifts.

Norway also accounts 3 summer-only ski areas: **Stryn Glacier**, **Folgefonn** and **Galdhoppigen**. They are all located on glaciers and are usually open from May to October / November.





( **v** )



Although Portugal is among the countries most famous for their beaches, the northern half of the country is mountainous and marked with valleys, highlands and cold winters. Ponta de Pico, the highest point of Portugal (2'351 meters above sea level) is located in the Azores Islands.

The continental Portuguese mountains culminate with **Serra da Estrala**, a little less than 2'000 meters high. Cold weather and natural snowfall in winter enables skiing, and the country's only ski area was developed there as early as the 1950s. The ski area offers a vertical drop of 134 meters, between 1'851 and 1'985 meters above sea level. There is 1 chairlift and 2 surface lifts, together with 2 other beginners' lifts. Snowmaking facilities have also been built to secure good skiing conditions.

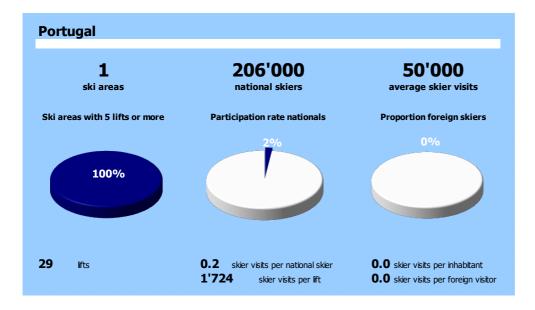
The resort features 2 hotels and other accommodations, ski rentals, snowmobile

tours and other various leisure activities.

The neighbouring village of **Manteigas** also offers the possibility for yearround skiing on its 400-metre long synthetic slope, equipped with a ski lift and lights for night skiing.



Skiing facilities in Portugal are beginners oriented. More experienced Portuguese skiers travel abroad in the Spanish and Andorran ski resorts, or further to the Alps. The resort of Sierra Nevada, for instance, hosts a large number of Portuguese skiers every winter.



# Spain



Despite the image of beaches commonly associated with Spain, the country ranks well among the mountainous regions of Europe (with a mean altitude of 650 meters above sea level, the country is even the fifth most mountainous in Europe). It has a centuries-old tradition of skiing, with 32 ski resorts located throughout various parts of the country. Spaniards, like many Europeans, love winter sports. Families go skiing or snowboarding on weekends and many people own second homes in the Pyrenees. Even former King

Juan Carlos used to spend several days a year in the spotlight at ski resorts. In most resorts, 90% or more of skier visits consists of domestic skiers. One peculiarity of the ski season in Spain, when compared to other European countries, is that it usually starts at the beginning of December due to certain public holidays. Attendance is therefore fairly well balanced over the 4 full months of the season: December to March. In April, attendance is low, as ski resorts start competing with the beaches.



With the exception of those seasons that experienced bad snow and weather conditions, skier visits at Spanish ski resorts grew slightly during the first few seasons of the new millennium, before declining and flattening out, following the record 2008/09 winter. Since, the attendance seemed

impacted by the country's difficult economic situation and had stabilised for 5 consecutive years at an average around the 5 million mark. However, winter 2017/18 showed a 7.9% increase in visitation over former season. 2018/19 was again 4.2% down, nevertheless 4.4% over 5-year average.

The 2019/2020 season has undoubtedly been one of the most atypical that has been experienced to date. The data recorded up to mid-March suggested a number of visitors similar to that of the previous season and even higher sales figures. However, the forced closure of the ski resorts due to the pandemic has directly resulted in a significantly shorter season. From 114 opening days in winter 2018/19, it was reduced to only 96 days. The number of visitors dropped from 15% compared to former season. Despite the adverse conditions, several Spanish ski resorts managed to increase their attendance figures.

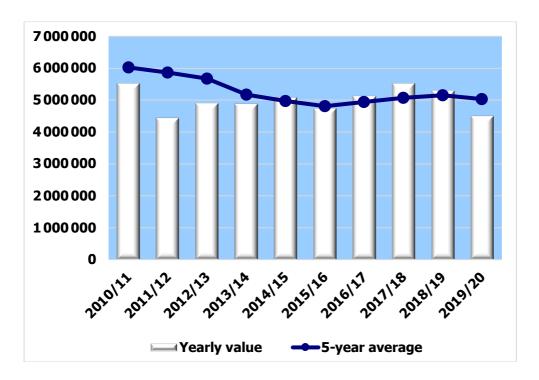


Figure 23: Spain, evolution of skier visits

The ski areas in Spain are well equipped and suitable for skiers of all levels. The on-mountain facilities are continuously being improved upon: trails, infrastructure, machinery, access, accommodations and services. Snowmaking systems at many resorts cover more than 50% of the trails. Annual investments, totalling millions of euros at the beginning of the 2000s, have contributed to bringing the resorts up to international standards, with major infrastructure expansion. For instance, the number of lifts grew from 228 in 2003 to over 380 today. This was done in an ongoing effort to respect the environment and natural sites. Some areas have been certified by the *Q trademark* for Spanish Tourism Quality. This label is granted to establishments that meet the quality standards required.

Snow conditions are usually good; daylight hours are longer in the winter than in the Alps. In addition, resorts offer a wide range of complementary activities to visitors.

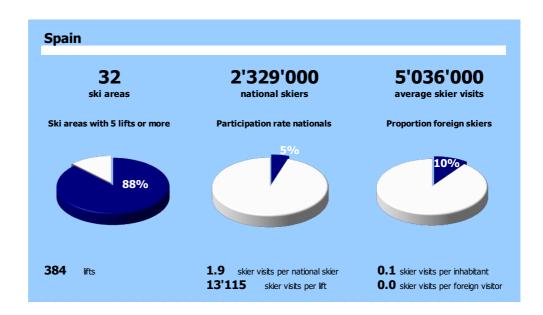
In the North, the Pyrenees form a natural barrier between France and Spain and have offered favourable conditions for building multiple ski resorts. Among the famous ones of the region, **Baqueria Beret** is located in the Aran Valley. It was founded in 1964 and is today one of the largest in Spain, featuring 78 slopes totalling 153 kilometres and 25 lifts. It offers a vertical drop exceeding 1'000 meters. **Formigal** resort is another internationally renowned resort in the Pyrenees.



Apart from the Pyrenees, which represent the most extensive ski region of Spain, the centre of the country, the Cordillera Central, has 4 ski resorts located essentially on the outskirts of Madrid, Salamanca and Segovia.

Last but not least is Andalusia. It is home to the most attended resort in Spain, **Sierra Nevada**, which sees on average 800'000 skiers visits per winter. Located in the second highest mountain chain in Europe, it is the southernmost resort in continental Europe, with 14 peaks over 3'000 meters high. Skiing at an altitude of 3'400 meters an hour's drive from the Mediterranean Sea offers an exotic experience, as there are very few

places where you can swim or surf in the sea in the morning and ski or snowboard in the afternoon. With over 105 kilometres of ski runs, 18 lifts and snow coverage about 5 months per year, Sierra Nevada offers all winter sports, for beginners and experts alike. It is also possible to ski at night on certain weekends or during holiday periods. The resort has many accommodations, bars, restaurants, and discotheques for evening entertainment.



### Sweden



The Scandinavian Mountain Range runs along the border with Norway, from the North Sea to the North Cape, over 1'700 kilometres. It reaches 2'104 meters above sea level at its highest point in Sweden, Mount Kebnekaise (the highest summit of the range is located in Norway).

The Swedish winter is long, with a lot of snowfall. In the North, the season lasts until May. Sweden is a sought-after winter sports destination as snow is practically guaranteed. In addition, cross-country skiing is very popular and the beautiful landscapes, lakes and forests offer a breath-taking panorama for skiing and relaxing.

Downhill skiing has already more than 70 years history in Sweden, with the first lift installed in 1940 in Åre. About 20 ski areas were developed in the 1950s, but the big boom of the industry happened in the 1960s. Today, Sweden has over 200 ski areas with a total of more than 800 ski

lifts. They are spread throughout all the country, even if the largest resorts are located in the middle section of the country, in the Scandinavian Mountains, close to the Norwegian border.



New investments have been made, with extension of hotel and lodging capacities in several resorts and renewal of lifts over the last years. Attendance has been growing for 4 winters in a row at Swedish resorts, pushing the long-range trend towards the rise after having shown for a long time a very flat evolution. 2017/18 season was 7.6% over former one and 15.4% over 5-year average. 2018/19 remained about the same level.

Even if Sweden was one of the last country in Europe to close its ski resorts, and only partly, visitation of the 2019/20 season was down 20% due to very mixed snow and weather conditions. While the northern part of the country saw record snowfalls, the central and southerly parts experiences exceptional high temperatures, causing operation difficulties due to lack of snow for many ski areas.

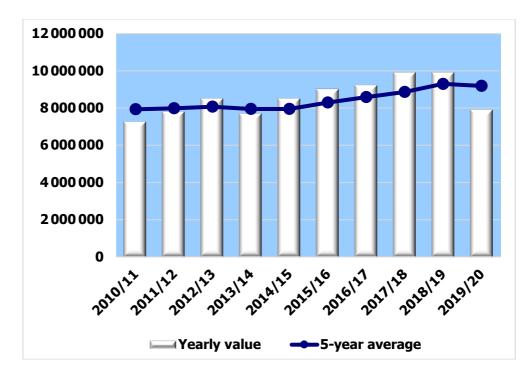


Figure 24: Sweden, evolution of skier visits

### **Covid-19 impacts**

Sweden was one of the few ski nations to carry on skiing through the coronavirus pandemic. The government's policy aimed at allowing infection to reach the younger and healthier parts of the population to develop so called *herd immunity*. Older Swedes and those with underlying health issues were advised to self-isolate. Many people who did not trust the government policy were reported to be doing so anyway.

Sweden and indeed Scandinavia's largest ski resort, Are, kept fully booked with 30'000 guests in rest at weekends, while other resorts where closing in Europe. Norway, where ski areas had closed, also closed its border with Sweden and required anyone entering the country to go into quarantine.

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Later on however, following advice from the Public Health Authority, SkiStar, the group that runs most of Scandinavia's leading ski resorts announced it will close its ski facilities in Åre, Sälen and Vemdalen in Sweden on 6 April 2020. The company's decision seemed to be following the Norwegian model of 3 weeks' earlier, closing ski centres because it is feared local medical facilities will not be able to cope if many tourists get sick, rather than because of a government order to do so. The background to the decision is the advice from Sweden's Public Health Authority to safeguard health care in the regions concerned, Ski star say. The Public Health Authority has made clear that the measures that SkiStar has taken to reduce possible spread of contamination in connection with skiing on slopes and lifts have been satisfactory. The ski resorts are closed after SkiStar has consulted with the Public Health Authority about the prevailing situation regarding the local and regional pressure that is now on health care in areas in which SkiStar operates, a company statement reads. The arriving Easter guests who were expected to come were being immediately contacted and given the opportunity to book or re-book following year.

### Source: Snowhunter

Climate change, and its consequences for countries in the European Alps, is considered an advantage for Sweden, as ski tourism may shift to the colder northern Scandinavian countries.

The largest ski destination of the country is **Sälen**, situated in the northwest of the province of Dalarna, approximately 420 kilometres from Stockholm. It consists in fact in 4 mountains interconnected into 2 large skiing areas – Lindvallen/Högfjället and Tandådalen/Hundfjället. Sälen offers more than 100 trails and 87 lifts, totalling a capacity of 87'600 skiers/hour. Accommodations feature 13'900 commercial beds.

The second largest ski destination in Sweden is **Åre**. It is situated 650 kilometres northwest of Stockholm and consists of 3 ski areas: Åre Björnen, interconnected with Åre By and the single area of Duved. Each one has its own profile and target group. Åre has 42 ski lifts, 89 ski runs and 5'800 commercial beds. Åre is the most internationally visited resort in Sweden.

**Vemdalen** is the third largest ski destination in Sweden. It lies approximately 480 kilometres northwest of Stockholm, and consists of 3 areas: Björnrike, Vemdalsskalet and Klövsjö/Storhogna. They total 35 lifts and 58 slopes.

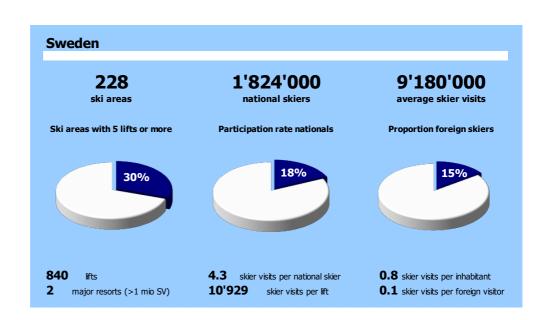
All 3 major ski destinations are operated by SkiStar, the largest Scandinavian ski resort company.

Located in Swedish Lapland, 200 kilometres north of Polar Circle, **Riksgfänsen** is the northernmost ski area of the country. With its 6 ski lifts and 15 ski runs, it is famous for skiing under the midnight sun and for high-speed snowboarding. Slopes are elevated between 522 and 909 meters above sea level.

In order to improve accessibility of Swedish ski resorts, Scandinavian Mountains Airport opened by the end of 2019. Funded by an investment

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grant of SEK 250 million from the Swedish Government, it is located in Dalarna, close to the Norwegian border. From there, it is easy to reach Sälen, Idre, Trysil and Engerdal ski resorts (2 latter are located in Norway). The airport has being constructed on the site of an existing small airfield.





# United Kingdom



Although many English people are fans of skiing, there are only 5 ski resorts with natural snow in the United Kingdom, located in Scotland, plus a few ski areas managed by ski clubs in Northern England and Wales. However, the country does have roughly 50 to 60 dry slopes, where skiers can slide down slopes covered with synthetic material<sup>30</sup>. Furthermore, there are 6 indoor snow centres, where skiers can enjoy manmade snow at any time of the year.

Skiing has a long history in Scotland, with resorts such as **Glencoe** and **Glenshee** built in the early 1930s. Although at that time they were already equipped with a small engine-powered tow, the first permanent lifts were installed in the 1950s. Skiing took off in the 1960s with several developments that proved unsustainable, especially due to the unreliable snow conditions. After **Lecht** opened in the 1970s and **Nevis Range** in the 1980s, with the first modern gondola in the United

Kingdom, Scotland currently has 5 ski areas in operation.



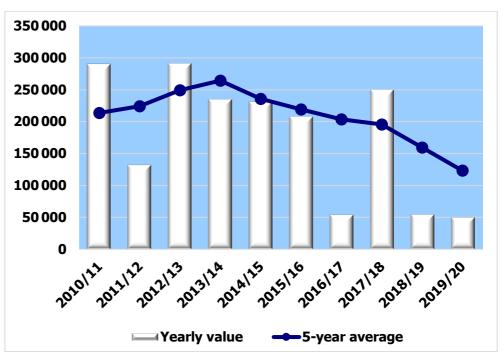
The Scottish resorts reach a total yearly average of 200'000 skier visits, but attendance is highly sensitive to weather and snow conditions and can double from one season to another. The Scottish ski season usually starts at Christmas, but ski lifts sometimes open in October. The end of the

<sup>&</sup>lt;sup>30</sup> There were over 200 dry slopes in the 1970/80's, but most have closed.

season may also be extended. One of the record seasons, the 2009/10 winter, lasted through May and even June at some resorts. Winter 2016/17 was very bad with very low snow. Many snowfalls were quickly followed by mild weather, making it difficult to maintain slopes. The snow kept melting before a base could be established. On top of these adverse conditions, there was no snow in the Central Belt or by the coast, so customers thought there was no snow anywhere – the *no snow in the backyard* issue. Attendance was thus at its lowest over the last 10 years and decided Glencoe Mountain Resort to purchase an all-weather snowmaking system. Fortunately, 2017/18 season was much better, recording the best attendance over last 5 years. However, situation worsens again with 2018/19 winter. The attendance was just above the all-time worst ever winter just 2 years ago. Ski areas were unable to open full slopes until February and then suffered some of the warmest winter weeks ever, to see snow cover thaw away fast. Situation went even worse in 2019/20, with very limited opening before March due to warm weather, then when snow finally got good, ski areas closed because of the pandemic.

### **Covid-19 impacts**

Scotland's 5 commercial ski centres were among the diminishing number of ski areas in Europe and the world that stayed open during the month of March, until all announced their closure on Saturday, 21 March 2020.



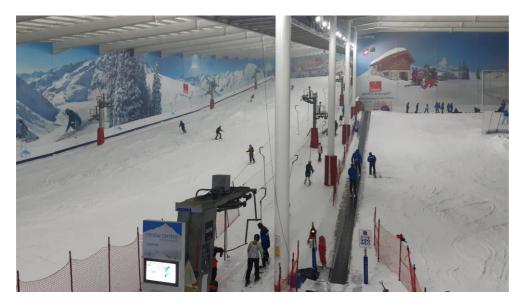
Source: Snowhunter

Figure 25: United Kingdom, evolution of skier visits

With its 19 surface lifts and 3 chairlifts, the resort of Glenshee offers the country's most extensive skiing and snowboarding facilities. Culminating at

1'108 meters above sea level, with a base elevation of 305 meters, **Glencoe Mountain** resort has the highest vertical drop and offers the longest and steepest runs in Scotland. While **Cairngorm** offers the only Scottish funicular railway<sup>31</sup>, **Nevis Range** features the only gondola lift. Both also operate during the summer months.

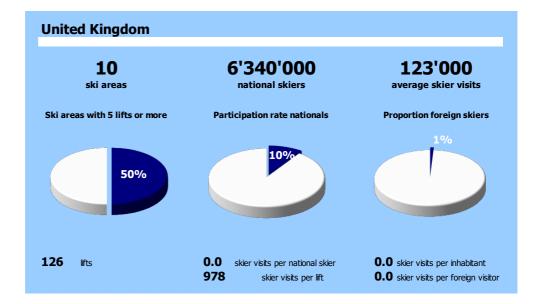
The indoor slopes are working hard to attract new people to snowsports, which is a benefit for the industry. One indoor ski centre offers a *Learn to Ski in a Day* program, which is very attractive for first time skiers and snowboarders. The artificial ski slopes are also good opportunities to enable novices to learn and become familiar with skiing. The national snowsports governing body is working to introduce snowsports to people who have never skied or snowboarded before. Some private clubs even have their own artificial slope.



In the 1980s and 1990s, skier visit figures in the United Kingdom were higher than they are today. But with improving roads and air connection to Europe, together with the introduction of low-cost airlines, most of the UK ski business is currently abroad. Every year more than one million skiers travel to the Alps or other destinations for winter sports<sup>32</sup>. Even if it lost some of its market share, France is still the most popular country among British skiers, accounting for more than one third of travellers. Austria is ranked second, capturing about 25% of the British skiers market. Next is Italy (about 14%), then Andorra (about 6%), which is on a par with Switzerland (also about 6%), North America (less than 5%) and Bulgaria (about 4%). British skiers used to travel primarily through tour operators (with several major firms specialized in winter ski travel) but now increasingly arrange their own travel and book their own accommodations, or even stay in properties either they or their friends own. For the 2012/13 season, 54% of British skiers claimed that they booked their trip independently and the figure appears to be always growing.

<sup>&</sup>lt;sup>31</sup> Closed since September 2018 further to structural problems. The Scottish government provided GBP 16 million funding in order to fix the railway. Repair work was due to start by the end of 2020.

<sup>&</sup>lt;sup>32</sup> A recent survey commissioned by Ski Weekends concludes that 1.5 million UK skiers are going skiing at least once a year.



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# Eastern Europe and Central Asia

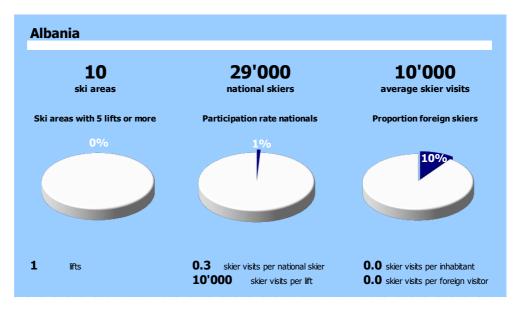
Eastern Europe and Central Asia have been grouped as a single region in this report, since the concerned countries offer similar development patterns. Even if skiing is nothing new for most of these countries, the ski areas in many places have only recently been developed into resorts and marketed internationally. With more than 400 million inhabitants, the population of this vast region is even with the Alps and Western Europe together, but skis 3 times less. Thus, the number of participants is still much lower, but may grow in the future. The region already has close to 1'200 ski areas, which is comparable to the Alps or Western Europe. With about 34 million skier visits, attendance in this region also nearly matches with those of Western Europe (excluding of course the Alps).

# Adriatic Durrês Elbasan Adriatic Sea Innian Sea Ionian Sea

Albania

Albania is a mountainous country, with about 70% of its surface area covered by mountains and hillv terrains. The country's high point is Mount Korab, 2'764 meters above sea level. The mountains in the North are a continuation of the Dinaric Alps and the Montenearin limestone plateau. The mountain range along the eastern border is the highest zone. The terrain is difficult to access, folded and rugged, with deep valleys and few roads (often unpaved). The noncoastal part of the country has a

continental climate with lots of precipitation in the highlands, especially in winter. From north to south, the inland part of the country can offer the right conditions for skiing, including powder snow.



However, and in spite of this attribute, the country is not well known as a ski destination. There are a limited number of unequipped areas to ski and the first surface lift was only installed in 2012. The areas that offer skiing are not resorts, but villages in the mountains where one can go skiing, similar to the Alps one century ago. Albanian ski enthusiasts are few in numbers, and for years, the local situation did not really favour the development of this activity, even if it was not an unknown pastime. If they want to ski, Albanians would prefer to travel to the neighbouring countries, which are better equipped. Backcountry skiing in the mountains is mostly enjoyed by foreigners.

The ski area of **Bigell**, near Dardhe, is at present time the only area equipped with a surface lift.

### Armenia

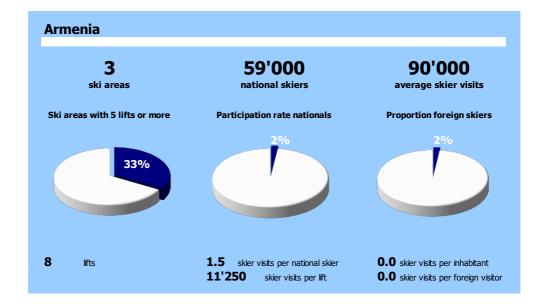


Half of Armenia is covered by mountains. The largest part of the country is at an altitude of more than 1'000 meters above sea level. Winters are cold, and offer ideal snow conditions for winter sports.

Yet, the country has only one ski resort equipped with more than 4 lifts, **Tsakhkadzor**, located 55 kilometres from the capital, Yerevan. Once upon a time, it was the training grounds for the Soviet Olympic team. The first lift system was

installed in 1972, turning the city into a ski resort. A ski-teaching centre was founded there in 1986, training athletes, including some who participated in the Olympic Games. The ski area is located between 1'966 and 2'819 meters elevation, east of Mount Teghenis. In 2005, the Government started a special program to develop Tsakhkadzor into an international tourist destination. Since then, the site has expanded quickly and every year features new hotels and recreational facilities. New lifts, built to international standards, were installed between 2004 and 2008. Among them a 3-stage chairlift, offering new runs and growing the popularity of Tsakhkadzor as a genuine ski resort. The total hourly capacity of the lifts is 4'400 skiers. The ski area extends for over 30 square kilometres and includes 10 runs, for a vertical drop of 853 meters. Most runs will suit beginners, and the ski area offers excellent off-piste conditions. 5 groomers are planned to maintain the slopes. The season runs from late December to late March. All-day lifts pass costs about EUR 20. In 2002, improvements to the highway leading to the resort were made to meet with international standards and to improve safety. In addition to being a ski area, the city of Tsakhkadzor is also a spa centre.

There are 2 other ski areas in the country, each one with only one ski lift: **Akhtamar Ski Centre**, next to the Sevan Lake, is equipped with a quad chairlift, and **Jermuk** has a double chairlift.





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# Azerbaijan



About half of the country is flat, with some lowlands situated below sea level (the Caspian Sea is located 28 meters below sea level), and the other half is considered to be mountainous terrain. Except for its eastern Caspian shoreline, Azerbaijan is surrounded by mountains. To the north, part of the Great Caucasus Mountains crosses its territory, offering peaks rising up to 4'485 meters above sea level (Bazarduzu Dagi) along the Russian border. To the west, the Lesser Caucasus Mountains are located on the Armenian

Border, and top out at 3'500 meters, together with the Karabakh Mountains and volcanic highlands. South, along the Iranian border, the Talish Mountains rise to 2'477 meters above sea level.

Ski resorts are something new in Azerbaijan. There are presently only 2, which were recently built.

**Shahdag Mountain Resort** is the first and biggest mountain tourism spot of Azerbaijan. The complex is named after the 4'243-meter Shahdag Peak of Greater Caucasus range and its constructions started in 2009. The resort is located close to the Shahdag National Park and offers year-round mountain activities and a complete range of lodging-from luxury hotels to camping (in the summer). In winter, it offers 18 ski slopes with a total length of 20 kilometres and 15 lifts of different types. Skiable area is fully covered with snowmaking systems, which guarantees the snow for entire winter season. The

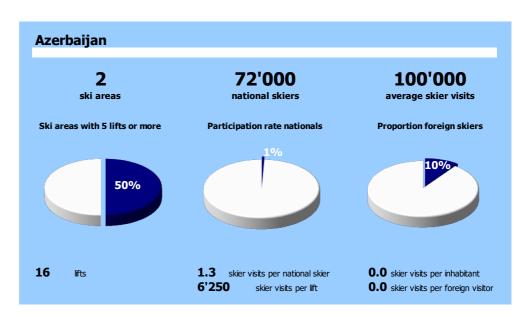
base of the ski area is located at an altitude of 1'435 meters above sea level and the top elevation of skiing area is 2'351 meters, which is the highest skiing point in Azerbaijan. Shahdag Mountain Resort has ski schools with experienced international and local instructors. The infrastructure also features a complimentary medical centre (7/24), a helipad and a gas station. The resort is located 210 kilometres from the capital city of Baku, and is 4-hour drive from Baku Heydar Aliyev International Airport. There are up to 30 restaurants within the complex, including Shahdag 2'351 – the highest restaurant of the country. Spa, wellness centres, cinema, nightclub and a game zone add for the utmost comfortable leisure of the guests.

About 40 kilometres away, close to the city of Qabala, **Tufandag Mountain Resort** has also been built recently. A gondola and a mixed lift (8-person gondola – 6-person chairs) were installed in 2012. Two other lifts of this kind were installed the next year. The ski area features 10 trails for a total of 15 kilometres, equipped with snowmaking, and a 963 meters vertical drop. 3 hotels accommodate guests close to the slopes.



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The resorts expect to host mostly foreign customers from neighbouring Russia, Iran and Turkey, plus guests coming from countries further away, such as China, India and Arab countries.





Belarus



With an average altitude of 162 meters above sea level, Belarus is a country covered with plains and forests. Its highest point, Dzyarzhynskaya Hara, is only 346 meters above sea level and is located near the capital city of Minsk. It is part of a range of low-lying mountains called the Byelaruskaya Hrada (Belarus Range). The northern part of the country offers landscapes with several lakes, hills and gentle slopes. Nearly one third of the southern part of the country is covered in swamplands. Winters are mild to cold with

an average January temperature ranging between minus 4 and minus 8 degrees Celsius. It snows during the 105 to 145 day winter season, offering the chance to enjoy powder.

Despite the lack of real mountains, alpine skiing started in the 1950s in Belarus, on hills near the city of Minsk. In 1964, the **Raubichi** ski-training centre was built, an initiative of the Belarus Federation of Alpine Skiing and Ski Jumping, and the first championship was held in 1965. Nowadays, downhill skiing has become increasingly popular on the higher hills and steep ravines. In the 2000s, several 4-season recreational areas opened, offering skiing and snowboarding in winter. Alpine skiing facilities are found in Minsk, Minsk Oblast, Gomel Oblast and Vitebsk Oblast. They attract domestic skiers, together with ski aficionados from Lithuania, Latvia and Russia.

The 2 major most recently built ski areas are **Logoisk** National Ski Centre and the **Silichi** recreational centre. Both are located in the Minsk region.

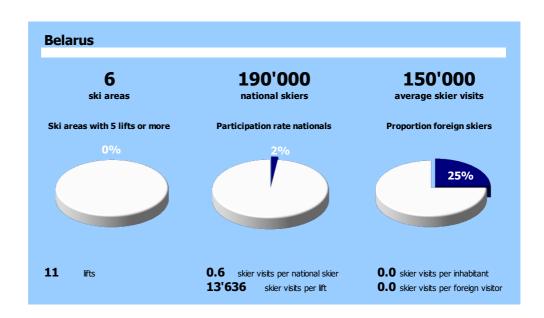
**Logoisk** was the first centre of its kind to be built in Belarus. With a vertical drop of 82 meters, it features a fixed-grip quad chairlift and one surface lift, 8 trails totalling 3.6 kilometres, equipment rentals, night skiing, a ski school, a 50 bed hotel and restaurants.

**Silichi** centre opened in 2005 as a 4-season recreational area. For snow sports, it offers 2 fixed-grip chairlifts (1 double, 1 quad) and a beginner rope tow, 4 trails totalling 2.8 kilometres, snowmaking facilities, night skiing, a half pipe, ski school, snow-tubing, an ice skating rink (which is used in the summer for indoor sports), snowmobiles, a 104 bed hotel, 12 dachas (wooden cottages), restaurants and cafés. In order to increase the vertical drop and offer a steeper slope, the builders artificially raised the hill an additional 24 meters, for 100 meters of vertical drop. The centre receives more than 100'000 yearly visitors, and skiers can train all year round thanks to a skiing simulator.

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In 2009, the **Sunny Valley** ski area was built within the city of Minsk, offering 2 ski lifts, equipment rentals and night skiing for its citizens, without having to leave the town.



## Bosnia & Herzegovina



Bosnia & Herzegovina is a mostly forested and mountainous country; the Dinaric Alps run from the northeast to the south of the country with numerous valleys and peaks. The highest summits rise up to 2'386 meters above sea level, near the border with Montenegro (Peak Maglic).

In 1984, Sarajevo was the host city for the Winter Olympic Games, evidence of the long history of skiing in Bosnia & Herzegovina. However, the war in 1992 left scars still visible at ski areas today. It is

only recently that the major ski areas have started to modernise, by either building new ski lifts or renovating old ones, as well as building new accommodations. Thanks to these infrastructure improvements, skier visits have increased in recent years, and with it the hope that Bosnia & Herzegovina will find its place among international ski destinations. However, most resorts do not have the means at this stage to install snowmaking systems.

About 5% of the Bosnian population skis. The country has less than 20 ski areas and some are too small to really be considered. Most foreign visitors come from Serbia, Slovenia, Croatia or Montenegro.

Jahorina, Bjelasnica and Igman, the major ski areas in Bosnia & Herzegovina, are located in the Sarajevo region. In addition to these popular places, Mount Vlasic, in the centre of the country, also has a ski resort. In the West, Kupres and Blidinje Natural Park are also 2 destinations for connoisseurs. All resorts in the country provide alternative activities to skiing, such as cross-country skiing and snowmobile tours. It is also possible to night ski. A small but important detail for visitors: In Bosnia & Herzegovina, the roads are not routinely salted in the winter, meaning that access to ski areas can sometimes prove a challenge.

Located 30 kilometres from the International Airport in Sarajevo, **Olympic Center Jahorina**, which hosted some of the events during the 1984 Olympics, presents itself as one of the major skiing and tourism centres of the Balkans. Damaged during the war in the 1990s, the area has since been refurbished and new hotels built. A large part of the mountain was turned into a national park to preserve the natural beauty of the region. The ski area is located between 1'300 and 1'880 meters above sea level. Visitors have a wide choice of restaurants and a selection of hostels to 4star hotels. Since 2017, the resort experienced a new development policy with major investment projects, including snowmaking that guarantees a minimum of 130 days of skiing per season, arrangements of ski slopes, new lifts and trails lighting. A new gondola was inaugurated in November 2019

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with a ski trail named after famous Serbian tennis player Novak Djoković. In addition to contributing significantly to the quality of skiing, the gondola will be a kind of tourist attraction adapted for panoramic sightseeing and will adequately complement the offer of the Jahorina Olympic Center throughout the year. The total lift capacity reaches 17'000 skiers per hour (1 gondola, 3 6-seater chairlifts, 1 2-seater, 3 surface lifts and 3 magic carpets). The resort features 45 kilometres of alpine and 10 kilometres of Nordic trails. 11 ski trails are FIS homologated for all 4 disciplines, downhill, slalom, giant slalom and super G, which gives the resort the opportunity to apply for international ski competitions.



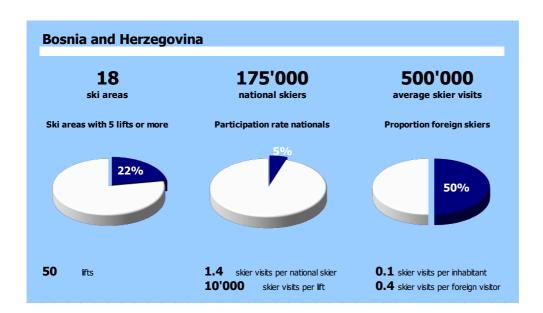
The neighbouring resort, **Bjelasnica-Igman**, was also a former Olympic competition site. In addition to 6 runs of various levels and 11 kilometres of skiing, it has 2 ski jumping facilities. Compared to Jahorina, this ski area has fewer runs, but they are better maintained. The uphill infrastructure includes 8 lifts (4 surface lifts and 4 chairlifts), for a total capacity of nearly 9'000 skiers per hour. A number of investments have been made at the resort in recent years. It is now equipped with a snowmaking system and 2 brand new chairlifts have been built in 2017 (one fixed grip quad and one detachable 6-pack). Moreover, hotels were recently built in the area. The restaurant selection is still limited, although sufficient for the basic needs of the resort. The price of an all-day lift pass is roughly equivalent to one at Jahorina.

**Vlasic** offers 14 kilometres of beginner to intermediate runs, so is well suited for novice skiers. It has 6 ski lifts with a total uphill capacity of 4'600 skiers per hour. The runs are poorly groomed. Some facilities that hosted events during the 1984 Olympics were damaged during the war and never rebuilt. However, the resort belongs to a private owner who is investing to improve services for the entire area. Through this modernisation, the ski area hopes to earn the title of second best ski area in the country with regard to popularity and visits. Visitors will find rooms in one of several new

or renovated hotels, or at a few private accommodations (cottages or pensions).

The small city of **Kupres** has a ski area that features 4 runs for 13 kilometres of skiing, 2 chairlifts and 3 surface lifts. The area, which also has 2'000 beds, is especially well suited for beginners. **Risovac**, located in Blidinje national park, has 1 chairlift and 2 surface lifts with a total hourly capacity of 2'960 skiers. It has 4.5 kilometres of ski runs and a certified FIS slalom run. The resort offers 700 beds.

A study conducted in 2009 by the Foreign Investment Promotion Agency of Bosnia and Herzegovina (IFAP) shows that the country only utilizes a fraction of its potential for winter tourism. The document recommends different investments to improve infrastructure in the Bosnian Mountains, which still lack a sufficient number of lifts, lodging and proper ski run maintenance.





GREECE

Bulgaria is the highest country of the Balkan region, with an average altitude of over 450 meters above sea level. 8 mountain ranges rising higher than 2'000 meters cover one-third of the country. The highest peak culminates at 2'925 meters above sea level (Mount Mousala).

The robust development of skiing in Bulgaria in the past few years is mainly due to significant investment in mountain resorts and the country's attempts to host the Winter Olympics (despite several

bids, the candidacy has never been retained). In addition, the quality of the services and activities offered has also improved. A few resorts feature world-class infrastructure. One of the main assets of Bulgarian ski resorts is their excellent price/quality ratio, much less expensive when compared to the Alps; this attracts a number of international visitors. Foreign tourists from Russia, Romania, Macedonia, Serbia, Turkey, the United Kingdom, France and Israel visit Bulgaria's ski resorts. The number of Russian tourists recently decreased, while the number of Turkish tourists was on the rise.

Despite the lack of official figures, ski resorts are estimated to attract roughly 1.2 million skier visits per year. The country's most internationally renowned ski resorts are **Bansko**, **Borovets** and **Pamporovo**.

**Bansko**, often referred to as the Winter Capital of the Balkans and said to be the most modern resort of Eastern Europe, contains a wide variety of hotels up to 5-star. The slopes are equipped with a modern gondola and state-of-the-art detachable chairlifts. Investments of EUR 100 million were made to upgrade the lift system and the ski slopes, enabling Bansko to gain international recognition by organising FIS World Cup Ski races. Bansko has 75 kilometres of ski runs and 14 ski lifts with a capacity of 23'100 people per hour. The resort has many restaurants and a very dynamic après-ski offering, which is very appealing to both national and international tourists.

**Borovets** ski resort claims to be the leader in the Bulgarian ski market and the largest ski area of Eastern Europe. It is the oldest Bulgarian ski resort, with a history that dates back to 1896, when it was established as a hunting place for the Bulgarian kings. Aristocrats and members of the Bulgarian elite followed the trend and subsequently built their summer cottages and chalets in Borovets. Winter sports developed and the first downhill race was held in 1930. The resort expanded in the 1960s and 1970s based on the French ski resort development model and hosted its first FIS competition in 1974. Borovets has 13 ski lifts with a total capacity

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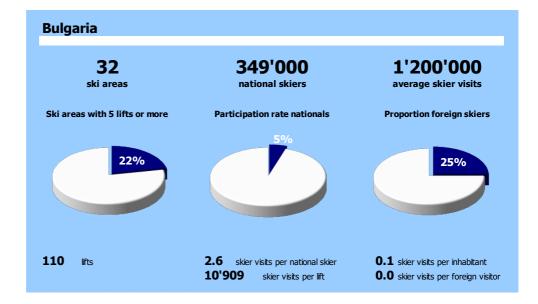
of 16'300 people per hour. Large expansion plans have been developed for the *Super Borovets* project. Once fully completed, it would provide around 17'500 hotel rooms, extend the number of slopes and double the number of lifts. However, it never turned into reality because of setbacks and environmentalists oppositions.



**Pamporovo**, the sunniest of the Bulgarian mountain resorts, is nestled in the heart of the Rhodopes Mountains at 1'650 meters above sea level. It is the perfect resort for beginners and it claims to have one of the best ski schools in Eastern Europe. Pamporovo has 14 ski lifts with a total capacity of 13'000 people per hour.

**Vitosha** ski resort is only a few kilometres away from the capital city of Sofia and easily accessible by public transportation. It used to be popular for people living in Sofia to go skiing there on the weekends. However, the lack of lift renewal appears to have decreased the area's appeal.

Lifts renewals and resort development has been a challenging issue for Bulgarian ski resorts over the last 10 years, as environmental activists seem to systematically oppose any new lift projects. With an aging infrastructure and less than optimal connections, a few resorts may lose some of their international popularity, likely limiting the industry's growth and development in the country.





### Croatia



Croatia extends from eastern end of the Alps through the Dinaric Alps, up to the Adriatic Sea. The highest point of the country is Dinara Peak, which rises 1'831 meters above sea level. The central and southern regions near the Adriatic coastline consist of low-lying mountains and forested highlands. The first snow usually falls in autumn and lasts through spring, providing the right opportunity for winter sports.

Skiing is nothing new in Croatia. In the highland area of Mrkopalj, not far from

the Adriatic coast (only a half-hour drive), winter sports developed at the beginning of 20<sup>th</sup> century. There are records of a ski competition as early as 1913. The first ski jump was built in 1934, where international competitions were held. In the 80s, under the former Yugoslavian regime and around the time of the Sarajevo Winter Olympics, a ski-training centre was built in **Bjelolasica**. At that time, winter sports connected to skiing were actively promoted.

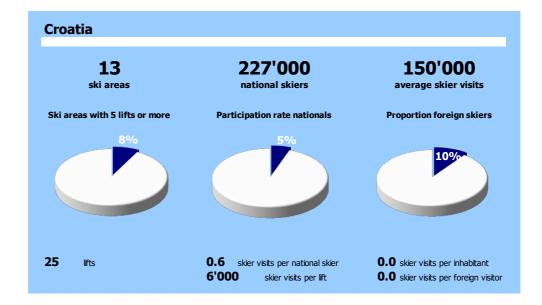
Today, the Zagmajna Croatian Biathlon Centre is located in the same region, together with the ski areas of **Begova Razdolja**, **Bjelolasica** and **Velika**.

The resort of **Sljeme / Medvednica** is located only 10 kilometres away from the capital city of Zagreb, (and 33 kilometres from the airport). It is equipped for night skiing and is close to a variety of accommodations.

The largest ski resort in Croatia has only 5 lifts and less than 10 kilometres of trails. **Bjelolasica** offers a vertical drop of 800 meters. A few resorts are equipped with snowmaking systems. However, several resorts only offer a single lift or only a magic carpet.

Even if skiing is not well developed at this stage, there are several projects to expand existing resorts and to build new ones, mostly in the coastal region of Gorski Kotar. About 1'900 hectares of land have been set aside for recreational sports and ski area development. **Maj Cicak** should turn into the best Croatian resort.

Even if domestic offer is not so wide, it seems that numerous Croatian skiers are heading to Italy, Slovenia and even Austria and France to spend some winter sports holidays.



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Cyprus

The forested Troodos Mountains stretch across most of the western side of Cyprus, offering a cool sanctuary in the summer, and the opportunity for winter sports at the only ski area in the country. Imagine skiing under the blue Mediterranean sky!

The **Troodos** – **Mount Olympos** ski area is located just a one-hour drive from the seaside town of Limassol or from the capital city Nicosia. It is perched high on the slopes of Mount Olympus, whose summit rises to 1'951 meters above sea level, just 2 kilometres away. The ski area itself ranges from 1'800 to 1'920 meters altitude, features 4 lifts (1 chairlift and 3 T-bar lifts), snowmaking facilities and a total of 2 kilometres of skiing spread over 8 runs for all levels. The ski area also offers cross-country skiing.

The Cyprus Ski Federation organises an international FIS ski competition every year at Troodos Mountain, on the officially sanctioned, 380-metre long Zeus slalom run. The first race was held in 1969, with participants from 9 countries.

The ski season is rather short, running usually from the beginning of January to the end of March.

Skiing has a history here, having officially started in Cyprus in 1947, with the creation of the Cyprus Ski Club. At that time, the roads were not cleared and the pioneers used to walk to Troodos in order to practice their sport. The first lift was soon built with local means and ingenious ideas from the pioneers. In the late 1950s, 2 portable lifts were installed in the winter. The first modern ski lift started operating in 1967 and is still in use today.

## Czech Republic



The 2 main regions of the country, Bohemia and Moravia, are both surrounded by numerous mountains and hills. The highest summit in the Czech Republic is the 1'602 metre high Sněžka peak in the Sudetes mountain range, Giant Mountains sub-range (Krkonoše). The latter accounts the largest ski resorts of the country.

However, in spite of much lower altitudes than in the Alps, there is a large number of ski resorts nearly all over the Czech Republic (about 200 ski areas with a total

of almost 800 ski lifts), all of them located between 900 and 1'300 meters elevation (only 3 ski areas top over 1'300 meters above sea level). Despite this lower elevation than in the Alps, the northern situation of the country provides for relatively enough snow. Most of the resorts are small; the larger ones are often made of the aggregation of several small operators, and not always fully connected. Many ski areas are easily accessible from Germany or from the country's capital city of Prague. Snowmaking enables skiing throughout the entire season, mitigating climate risks.

Skiing has a long history and tradition in Czech Republic resulting in an important share of skiers in the population; the first ski club was founded in 1887 by Josef Rössler-Orovský. In 1893, the first ski races took place in **Jilemnice** (Krkokonoše – Giant Mountain) and in 1903, the Association of Skiers in the Czech Kingdom was founded, which was the first ski association in the world. The first hanging (cabin) cableway was installed in **Ještěd** (Liberec) in 1933 and in 1940 the first chairlift appeared in **Pustevny** (Beskids Mountains). With single chairs and wooden towers, it was the earliest one in Europe<sup>33</sup>. It was reconstructed with steel towers in 1956, later on replaced in 1987 with a double seater, and modernised again in 2006. This latter version is still in service.

Over the last 10 years, resort infrastructure has been renewed and expanded. 50 new lifts were delivered by the major manufacturers.

Despite this, attendance at Czech ski resort has been showing a stagnant or even declining trend for several years. Obviously, the ski industry in Czech Republic faces the same problems than most of the major mature markets. Winter 2017/18 saw a 2% improvement in attendance, reaching the best score in at least 10 years. The 2018/19 season was on average 4 days shorter than former one, with a slight decrease in attendance.

<sup>&</sup>lt;sup>33</sup> The first chairlifts in the world were installed at Sun Valley, United States, in 1936 and 1937.

2019/20 winter was interrupted by covid-19 pandemic and skier visits declined by 27%.

### **Covid-19 impacts**

Czech Republic ski areas closed as most of resorts in Europe. However, one ski area has re-opened for Easter after the country's government eased lockdown restrictions in the country earlier this week and instead encouraged more physical activity. The country's CT24 TV news has reported that the Praděd ski resort at Ovčárna in Jeseniky is so far the only one in the country that has re-opened its lifts. In order to be allowed on the slopes, skiers must have their nose and mouth covered, wear gloves and keep at least two meters apart. The centre is also severely limiting the number of people allowed on the slopes in total.

Source: Snowhunter

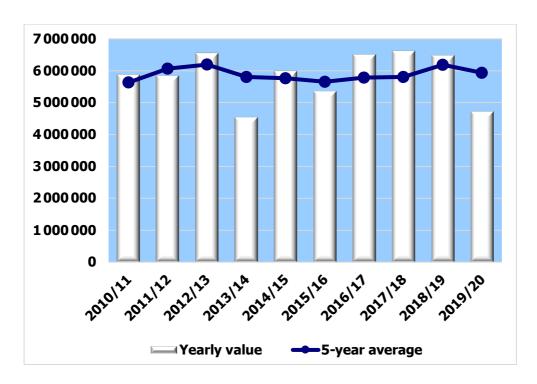


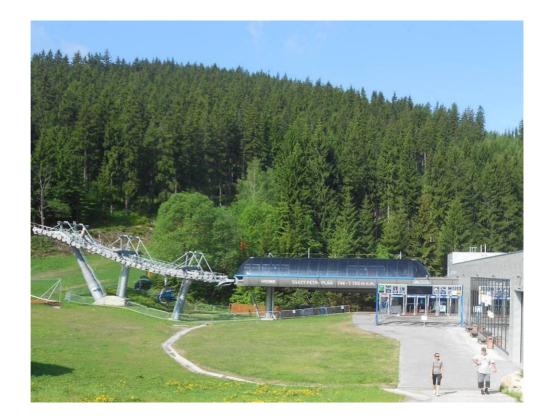
Figure 26: Czech Republic, evolution of skier visits

With 41 kilometres of ski pistes and some 40 lifts accessible with the same pass, ski resort **Černá hora - Pec**, located within the Giant Mountains National Park, sells as the largest resort of Czech Republic. It is however not fully interconnected. Despite a snowcat ride allows to connect from Černá hora-Janské Lázně to Pec pod Sněžkou, other smaller areas can only be reached by bus connections. The resort is located at the base of the country's highest mountain, Mount Sněžka, which is accessible via a new gondola, built in 2013 to replace its 50-year old predecessor. The first lift

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was built there in the 1940s. Ski resort Černá hora - Pec offers approximately 13'000 beds. The season lasts from mid-December to mid-April.

**Spindleruv Mlyn** is one of the largest and most famous resorts in the country. The first lift was built there as early as 1947. The resort developed, split into several sub areas that will be soon all interconnected by lifts and ski trails (Svaty Petr, Hromovka, Medvědín and Horni Mísečky). Hromovka has the second longest night skiing run (1'500 meters) in the country. Svaty Petr hosts World Cup Alpine Ski races, acrobatic ski events and snowboard races. Horni Misecky hosts also several events. The full resort has more than 20 ski lifts, 25 kilometres of ski runs, of which 12% are black (difficult) trails<sup>34</sup>. To make up for any lack of natural snowfall, snowmaking covers 85% of the ski area. Various base villages offer a vide range of accommodations, totalling 12'000 beds, including chalets, apartments, privately rented homes and hotels, together with a wide choice of restaurants. The resort also features a very lively summer offer.



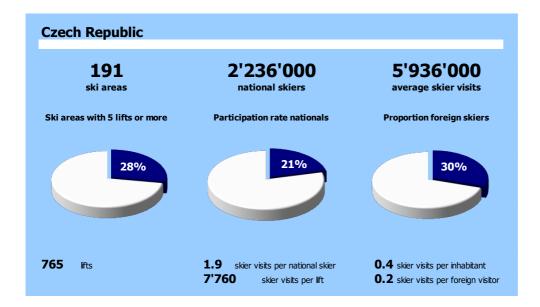
With also more than 20 lifts, **Rokytnice Nad Jizerou** also accounts among the largest Czech resorts. Its target public is skiers of all levels, even though it has predominantly blue (easy) slopes. The resort is split into 5 sub areas (Horni Domky, Studenov, Modra hvezda, Parez and Udatny) and totals 18 kilometres of ski runs. Rokytnice Nad Jizerou belongs to *skiregion.cz*, a ski area alliance totalling 4 resorts and 35 lifts, 37.5

<sup>&</sup>lt;sup>34</sup> With the projected interconnexion, total slopes' length will reach 40 kilometres.

kilometres of ski runs. It allows skiing with the same ticket in all affiliated ski areas.

Another popular resort is **Malá Morávka - Karlov pod Pradědem**, in Moravia near Mount Praděd, in the Northeast. Although it is split between several operators and not all slopes are interconnected, the ticket system is united. Due to its low altitude (maximum 940 meters above sea level), it is very sensitive to lack of snow. The slopes are nearly fully equipped with snowmaking. The runs are aligned one next to the other and the vertical drop is limited to 150 meters offering little appeal for experienced skiers. The resort has about 15 ski lifts and 22 kilometres of ski runs, 53% of which are blue (easy).





## Estonia



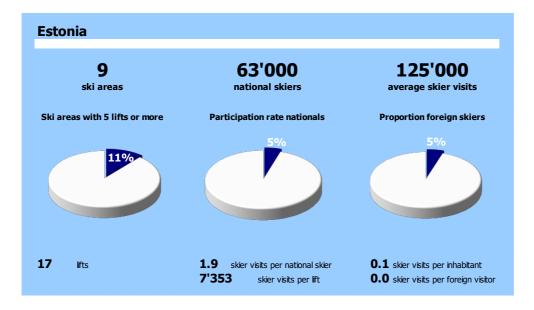
With cold and snowy winters, Estonia offers decent conditions for winter sports. The winter climate is one of the most stable in Europe, with few sudden changes that could harm the ski season. However, due to the lack of any real mountains (the high point Suur Munamagi is only 318 meters above sea level) and low altitude, the snow season is short, and cross-country skiing and snowshoeing are much more popular than alpine skiing. Cross-country skiing has a long history in the country, with the first competition being held in Tartu

as early as 1921. It later on became a yearly tradition and the Tartu Ski Marathon is a well-known and highly attended race by national and foreign cross-country enthusiasts. Otepää is called the *Winter Capital* of Estonia and has hosted World Cup cross-country skiing events.

However, downhill skiing and snowboarding have become increasingly popular among the youth. One hundred metre long low-angle slopes work well for beginners. However, although not very long, there are steeper slopes for more experienced skiers. Several ski areas have no lifts, including some simply equipped with a magic carpet that may also be used for snow tubing; a few offer terrain parks for snowboarders. Several rental shops next to cross-country trails also offer downhill ski equipment, even if there is only an adjacent unequipped snow hill. Hills that are more sophisticated offer a beginner lift and groomed slopes.

Night skiing is popular, and several ski areas have lighted runs, a necessity since the days are very short in winter at these latitudes.

A few more elaborate ski centres are operated in various areas of the country, on either natural or artificial hills (built from mining waste). There is an adventure park near Kivioli that features a few ski runs, and a ski centre in the White Mountains next to the city of Tapa. The region of Otepää, south of the city of Tartu, also has a few ski runs spread over several ski areas. This region has the largest ski areas in the country: **Kuutsmäe** has 5 lifts and **Munakas** has 3 lifts.





Georgia

Georgia is located on the historic and geographic barrier between Europe and Asia, between the Black Sea and the Caspian Sea. Mountains cover a large part of the country, with the Greater Caucasus Mountains in the North and the Lesser

Caucasus Mountains in the South. Some reach impressive altitudes, with the Mount Shkhara, located on the border with Russia, culminating at 5'201 meters above sea level.

Georgia used to be one of the popular winter sports destinations of the former Soviet Union. Winter tourism developed there in the 1970s. With its colossal mountains, there are plenty of options for mountaineering and several spots to go heliskiing. Georgia unsuccessfully bid for the 2014 Winter Olympics. It attracts tourists from neighbouring countries, and especially Russia, as well as from the USA, Germany, Israel and Turkey.

In addition to a few ski areas with limited infrastructure, Georgia has 2 resorts equipped with lifts that also offer heliskiing: **Gudauri** is located in the Greater Caucasus Mountains, 120 kilometres from Tbilisi, the capital of Georgia. Gudauri has guaranteed snow from November to May. The average snowpack is about 1.5 meters deep. The resort's high point is the 3'007 metre summit of Mount Kudebi. The area enjoys great weather in



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spite of its high elevation. The resort benefited recently from a complete redesign by a leading international master planner. Accommodations are in the process of being upgraded to 2 to 5-star hotels, some with international brands. The ski area has 13 lifts, which were recently replaced, retrofitted or newly built. A 10-seater gondola lift was added in 2011 and a further investment program of EUR 70 million was set to develop the resort from 2014-2017. It brought 6 additional high-speed detachable lifts, including a 3-leg gondola connexion with neighbouring Kobi ski resort. Ski mountaineering is also very popular in Gudauri. The attendance in the resort has been growing dramatically over the last couple of years.

**Bakuriani**, the second resort, is located on the Didveli slopes of the Lesser Caucasus Mountains, in the southeastern part of Georgia, at an altitude of 1'800 meters. The highest skiable mountain of the resort is Mount Kohta, culminating at around 2'200 meters above sea level. The resort lies 30 kilometres from Borjomi and is located within the Bakuriani Depression. It is connected with Borjomi by an electrified narrow gauge railway line. Bakuriani offers both downhill and cross-country skiing for skiers of all abilities. The resort has accommodations ranging from 3-star hotels to small private hotels and



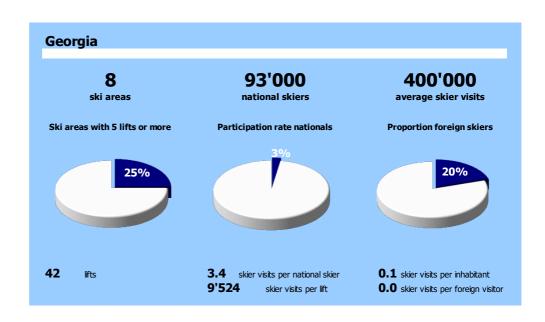


guesthouses. It has 12 ski runs of varying difficulty. New chairlifts and a gondola were recently added. The resort is family oriented, with a year round offering. The forest-covered mountains, the mineral water springs, the roads leading to the spectacular natural or cultural monuments of the Borjomi Valley are appealing for vacationers. Further to an important private-public partnership, a new resort base named Kokhta-Mitarbi has now been connected to the ski area. It is supported by a USD 150 mio investment by the Georgian State in infrastructure improvement. On top of this, the resort has also secured FIS 2023 Freestyle Ski & Snowboard World Championships.

New resorts have also been planned. One is at **Goderdzi Pass**. The Georgian Department of Tourism has contracted with a foreign company in order to develop a new ski resort in the high mountains of Adjara. The resort will accommodate about 7'000 tourists and offer 35 kilometres of runs. The resort is located 90 kilometres from Batumi, with an elevation ranging between 1'700 and 2'400 meters above sea level. A first gondola lift was delivered in 2012 and a detachable chairlift in 2014.

Another project is located in the remote high-mountain town of Mestia, where officials hope to establish a year round tourist destination at **Mount Tetnuldi**, with an initial budget of USD 145 million. It will feature 6 ski lifts and a run with 988 meters of vertical drop to meet Olympic standards. The first lifts have already been installed through financial support from the Georgian and French governments. Closer to Mestia, the ski area of **Mount Zuruldi / Hatsvali** has also been refurbished and equipped with new lifts. Since 2010, a 4-seater chairlift enable skiers and pedestrians to reach the top of the mountain restaurant, featuring a beautiful view on the valley and

2021 International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 – *PRIVILEGED COPY*  the famous Mount Ushba twin peaks. The slope is equipped for night skiing. Since 2017, an additional detachable 6-pack chairlift is connecting the ski area with the town of Mestia.



### 3 New 6-Seat Chairlifts at Georgia's Bakuriani Resort

Whilst construction of ski lifts at many resorts around the world has been postponed during 2020 summer, some larger projects have gone ahead, one of them at the Bakuriani ski area in Georgia.

The resort has been selected to host the 2023 Freestyle Ski and Snowboard World Championships and started to build the new lifts ahead of it.

The 3 lifts are all high-speed 6-seater chairlifts and have a combined uplift capacity of 5'400 passengers per hour, although this could be increased to 7'200 as required.

The lifts have been financed by Georgia's Ministry of Economy, which has also built new access roads to the ski area.

Source: Snowhunter

# Greece



Skiing in Greece is a unique experience. Surprising as it may sound, while Greece is mostly well known for its warm sunny weather and beautiful beaches, skiing is also well developed. This is no secret for Greeks and a handful of other Europeans. However, the majority of skiers in Europe, the United States and other countries around the world fail to imagine the numerous skiing possibilities that Greece can offer. Mountains cover 80% of Greece with a majority of peaks topping out at over 1'500 meters above sea level, thus

providing some areas with ideal conditions for winter sports resorts. These resorts are located all over Greece. In Central Greece there are the resorts of **Parnassos**, **Karpenissi (Velouchi)**, **Vassilitsa** and **Agriolefkes**. Located in Northern Greece, in the historical region of Macedonia (not to be confused with the country nearby), are the resorts of **Seli**, **Tria-Pente Pigadia** and **Kaimaktsalan**. In the Peloponnesus, in Southern Greece, are the resorts of **Kalavryta** and **Mainalo**. Greece has a total of 21 ski resorts and those mentioned above are the most well known, and also equipped with modern infrastructure.

During the winter season, many Greeks enjoy winter sports and although all skiers are not as well trained as those living in Alpine countries, the skier level, especially for children, is improving every year. Skiing is still popular in Greece, and most ski resorts are full with skiers and visitors on the weekend.

The largest ski resort is **Parnassos Ski Resort**, in Central Greece, only 200 kilometres from Athens, and very close to the well-known ancient city of Delphi. Runs are between 1'600 and 2'250 meters elevation. In Parnassos, one can ski in the morning and bathe in the sea at lunchtime. The nearby **Gerontovrachos** ski area offers another 2 lifts and it is possible to ski to and from Parnossos. The Fterolaka ski area was built in 1975 and in 1981, the **Kellaria** ski area was fully operational. Today it has 19 runs for a total of 36 kilometres of skiing. Fterolaka and Kellaria have 14 lifts: 1 gondola, 6 chairlifts and 7 surface lifts. The Ermis lift that connects Fterolakka and Kellaria was built in 1988 and offers skiers and visitors unbelievable views. Looking to the North one can admire the Mountain of the Gods, Olympus; looking to the South, the clear blue waters of the beautiful Corinthian Gulf. It is usually operated throughout the year, including the summer season, offering countless hiking options for residents and tourists. The winter season starts in December and usually ends in April. Parnassos has hosted multiple FIS alpine skiing and snowboarding races at the end of March-April, and foreign racers have always been surprised by the snow quality and quantity.

2021 International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 – *PRIVILEGED COPY*  In Central Greece, in addition to Parnassos, is the ski resort of **Karpenissi** (Velouchi), near the city of Karpenissi. The resort is located at an altitude of 1'750 meters and tops out at 2'000 meters. It has 3 chairlifts, 3 surface lifts and 12 runs. Another ski resort in Central Greece is Vassilitsa, close to the city of Karditsa. Snow conditions are very good and it has 2 chairlifts and 4 surface lifts of varying lengths, ranging from 900 to 2'000 meters long. The **Agriolefkes** ski resort (Central Greece) on Mount Pilion, near to the city of Volos, is located between 1'178 meters and 1'471 meters elevation. It is one of the oldest ski resorts in Greece and has 3 chairlifts, 3 surface lifts and 5 kilometres of runs.

Another well-known ski resort is **Kalavryta** on the Peloponnesus (Southern Greece). It is located 200 kilometres from Athens in the region of Achaia. It is nestled at an altitude of 1'650 meters, with runs starting from as high as 2'340 meters. It has 7 lifts and more than 10 runs. The ski resort of **Mainalon** is also located on the Peloponnesus, near the city of Tripolis, at an altitude of 1'500 meters, with a top elevation of 1'860 meters. It features 4 lifts and 8 runs.



The largest ski resort in Northern Greece, in the region of historical Macedonia, is **Mount Kaimaktsalan**. Its ski area is located between 2'050 and 2'480 meters above sea level. It features 10 runs for a total of 4 kilometres of skiing. It has 7 lifts, including a chairlift and 6 surface lifts. Skiers can take advantage of 430 meters of vertical drop. It also has a half pipe and snowpark for experienced snowboarders and skiers. Snowmaking equipment includes 4 mobile cannons and 6 snow lances.

Another ski resort in Northern Greece in the historical region of Macedonia is the **Tria-Pente Pigadia**, located between 1'430 to 2'005 meters

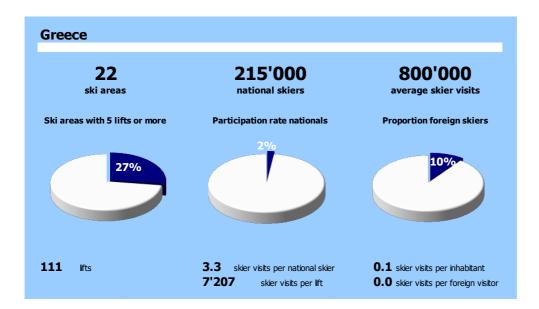
elevation, near the town of Naousa on Mount Vermion. There is 1 chairlift and 5 surface lifts, as well as crosscountry skiing. This resort is used by several national sports teams (football – track and field, etc.) as a training camp, and has top-notch equipment. Most of the Super-G races in Greece take place in Tria-Pente Pigadia, as the slope length meets FIS standards. The ski resort is equipped with snowmaking equipment to ensure excellent snow conditions throughout the entire ski season.



The Seli ski resort, where the first ever ski lift in Greece

was installed in 1955, near the town of Veroia, is among the most beautiful ski resorts in Greece. Seli is located at an altitude of 1'515 meters, and tops out at 1'874 meters. It has 1 chairlift and 8 surface lifts that serve 14 runs. Cross-country skiing is also popular in Seli.

In all the above ski resorts, there are officially sanctioned ski slopes that host FIS alpine and cross country skiing races every year. All ski resorts have restaurants, cafeterias, ski schools, ski shops, ski rentals and medical facilities.



# Hungary



Even though only 2% of Hungary is located higher than 400 meters above sea level, a number of small ski areas exist. A mountainous region stretching over 200 kilometres is located in the northern part of the country next to the Slovak border. It consists of Börzsöny, Cserhat,

Matra (including the country's highest peak, the 1'014 metre high Mount Kekes), Bükk and Zemplen Mountains. However, one of the biggest and most popular ski resorts in Hungary, **Skiarena Epleny**, is located in another region, the Bakony Mountains, on Lake Balaton in the western part of the country.

Skiing has become popular in Hungary: about 600'000 of the 10 million Hungarians ski. However, more than 90% of them travel abroad for winter sports, as the Hungarian mountains are not high enough, the ski lifts are somewhat antiquated and snow coverage is insufficient. Thus, skier visits in the country are only estimated to be around 400'000.



There are 15 ski areas with a total of 55 ski lifts in Hungary. Only 6 resorts have more than 4 ski lifts each. The most important ones are the already mentioned **Skiarena Epleny**, which has the most runs, with a total of 7.2 kilometres of trails, **Matraszentistvan Skipark**, **Kekesteto**, the highest ski resort in Hungary, **Visegrad** and **Bankut**. The latter resort operates the most lifts (9).

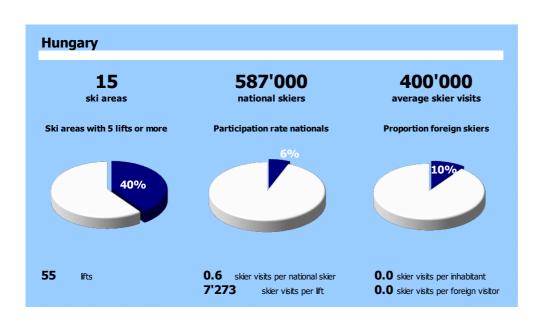
In Bankut, snowmaking systems are not yet allowed, so the number of operating days per winter is limited. The ski resorts of Epleny, Matraszentistvan, Kekesteto, Visegrad and Satoraljaujhely are relatively modern and have snowmaking equipment, which allows them to operate

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for up to 100 days per winter if the temperature is low enough. **Satoraljaujhely** also features a synthetic slope.



There used to be many smaller ski areas in Hungary, with only 1 or 2 short lifts, but they no longer operate due to poor snow conditions and high costs. However, there is a plan to revitalise the well-known, historical slopes of **Normafa**, in the Buda Hills, which could become popular with people living in the capital city of Budapest.





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# Kazakhstan



Kazakhstan is a big country, ranking 9<sup>th</sup> in the world in area. It offers a variety of terrain, from desert zones, which cover nearly half of the country, to high mountains in the Southeast. The highest peak of the Tien Shan Mountains rises to 7'439 meters above sea level, and the mountainous range that continues well into China, starts from the suburbs of Almaty.



In most areas, there is a wide temperature difference between summer and winter, which can be very cold. The ski season begins in mid-November and lasts until mid-April.

More and more Kazakhs are discovering the pleasures of skiing. The ski resort of **Shymbulak**, near Almaty, has been around for a long time. The resort is located in the Zailii Alatau Mountains. It started to attract skiers at the end of the 1940s, and in 1954, it was established as a ski resort and

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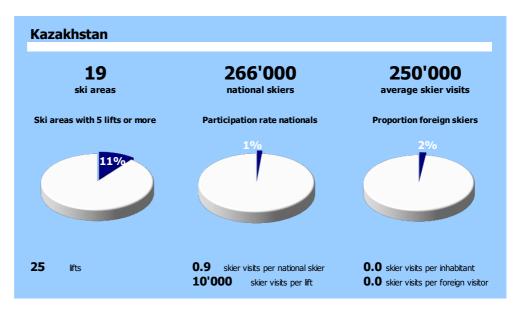


equipped with its first ski lift. Ski competitions were held there, and until 1962, it had a monopoly on skiing in the former Soviet Union. Since 1983, it has operated as an Olympic centre for downhill ski training and additional lifts were added. The resort was recently refurbished, with 5 new lifts out of a total of 6. It even has one of the longest gondolas in the world, with a 4'572 metre section that provides easy access to the ski area, connecting Almaty's public bus system with the ski resort. There are a total of 15 kilometres of runs between 2'200 to 3'163 meters elevation. Some of the runs are FIS certified. The resort hosted the 2011 Asian Winter Games. The famous Medeo ice rink is located at the base of the mountain,

where numerous competitions have been held, and 120 world records established.

Another major resort in Kazakhstan is **Ak-Bulak**, recently equipped with 4 new lifts, also not far from Almaty. It offers one high-quality hotel and an important 4-season indoor and outdoor sports centre.

In addition to these well-known resorts, there are several other ski areas, located either in the Almaty Region (**Enbekshikazaksky resort**) or in the eastern part of Kazakhstan. In the latter, ski areas are located in the suburbs of cities such as Ust-Kamenogorsk, Zyryanovsk. The **Nurtau resort**, **Altaïs Alps**, **Edelweiss**, **Stardust Camp** and **Eagle** ski areas offer a wide variety of runs for all levels of skiing and snowboarding.



The ski industry of Kazakhstan aspires to continue to develop. 3 major new resort development projects were presented (Kokzhailau, Kaskasu Mountain and Koksai) in 2013 when the City of Almaty applied, unsuccessfully, to host the 2022 Winter Olympics. Now, it seems that the City and the Government have approved new projects to modernise and expand 7 existing ski areas and to build 3 new resorts within the coming years. Work is already underway in **Oi Qaragai / Lesnaya Skazka**, where a new chairlift has been built and ski slopes have been expanded from 3 to 13 kilometres. Expansion in a further stage will bring a 10-seater gondola and

a 6-seater detachable chairlift, to expand skiing over more than 40 kilometres of slopes, including also snowmaking. Shymbulak will further develop as well.





Kosovo

A large part of Kosovo is mountainous, with the highest peaks rising to 2'656 meters above sea level (Mount Gjeravica, located on the western border with Albania).

Despite several mountain ranges, there are only 3 ski areas in Kosovo.

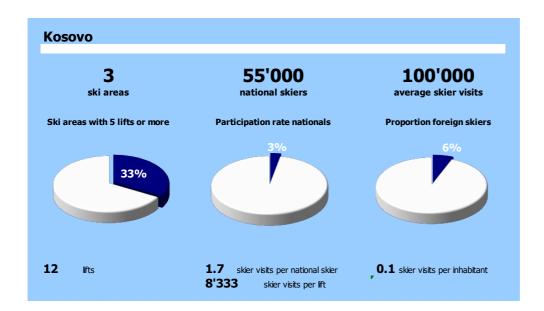
The largest ski area, **Brezovica**, is located in the South, on slopes facing the Sharr National Park. It is conveniently located only 60 kilometres from Pristina Airport and 70 kilometres

from Skopje Airport in Macedonia. The current ski area was originally established in 1954. In 1979, the first ski lift was installed. Breznovica served as an alternative site for downhill skiing events at the 1984 Sarajevo Winter Olympics and hosted several FIS events in the 1980s and 1990s. However, due to the difficult situation of the country, the resort has not received any meaningful investment for more than 2 decades. The site nevertheless offers favourable conditions for a ski resort, with snowfall from mid-November through May, for an average of 128 skiable days. The ski area currently features 10 lifts, carrying skiers up to an altitude of 2'500 meters, with a total capacity of about 10'000 people per hour. There were recent plans by the Government to develop Brezovica into a genuine 4season resort. EUR 410 million were likely to be invested to develop more than 100 kilometres of trails and build new lifts. A contract had been announced with a French consortium. However, the whole story was later on denied by some of the said interested parties and the financing anyway failed to materialise.



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The other smaller ski areas are **Bogaj** (Bogë), in the Rugova Valley in the West and **Brod**, in the Dragash municipality, in the South. They are equipped with a limited number of lifts but offer nice slopes and spectacular villages. In Brod, there is a hotel and the ski area hosts competitions between local ski clubs and those from neighbouring Albania.





Kyrgyzstan is a small country with just over five million people and is often compared to Switzerland because of its potential for developing alpine skiing. Indeed, the climate and the significant vertical drop are factors that offer great conditions for skiing. Over

90% of the country is covered by mountains. Its average elevation is 2'750 meters above sea level and a majority of the peaks rise to over 3'000 meters. The highest summit, Pobedo Peak, is 7'134 meters high.

However, skiing is at this stage not widely developed, even though the country has 19 ski areas, many of them near the capital city of Bishkek. They are small, often at an early stage of development, with no or only one hotel, and a limited range of standard services such as equipment rentals or ski schools. Not a single ski area has a modern detachable lift. The most advanced system is 3 or 4-seater fixed grip chairlifts. Some have only rope tows. Poor master planning is a common issue for many ski areas. For instance in one place, lifts do not serve all slopes and skiers need to go up by road. Most of the ski areas however feature old second-hand groomers to prepare the slopes.



7 kilometres from the town of **Karakol**, a ski resort of the same name is located on the slopes of the Tian-Shan mountain range. Its base area sits at 2'300 meters above sea level. It has a temperate climate and offers views of the second largest mountain lake in the world, Lake Issyk Kul. Most of the 20 kilometres of runs descending through the forest are of

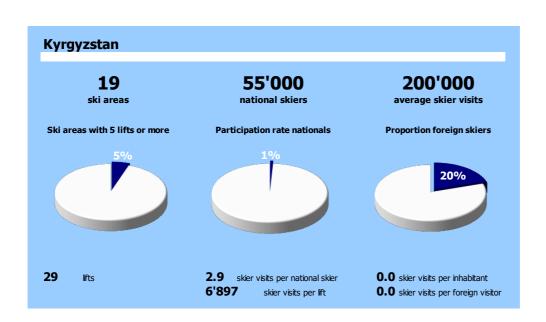
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varying difficulty and between 400 and 3'500 meters in length. The highest point of the resort is 3'040 meters above sea level, providing a total vertical drop of 800 meters. Karakol features 4 lifts: 2 double and 2 triple chairlifts. The 2-metre average snowfall per year offers a sufficient base for the entire ski season due to low nightly temperatures. In addition to downhill skiing, there are also plenty of options for backcountry skiing, mountaineering or snowmobile tours.

Opened in 1967, **Orlovka** has grown in recent years. A new lift was built, as well as new buildings (cottages, restaurant). Lighting for night skiing was installed and the resort has acquired its first snowmaking equipment, becoming one of the few in the country able to guarantee snow throughout the entire season. The resort has 5 lifts: 4 chairlifts and 1 surface lift, with a total capacity of 4'200 skiers per hour. Skiers have access to 9 runs of varying difficulty and between 150 and 2'900 meters long. Snowmobile rentals are also available.

**Norus**, about 40 kilometres from the capital, is located at 1'980 meters above sea level. It has 3 lifts and 15 kilometres of trails for all levels. The area is however particularly well suited for children. There are also drop off zones for heliskiing.

35 kilometres from Bishkek, the **Kashka-Suu** ski area is located at 2'000 meters above sea level. 2 lifts (1 chairlift and 1 surface lift) serve 6 runs of varying levels for a total of 10 kilometres of skiing. A sauna, an ice rink and conference rooms are also available to visitors.



## Latvia



With the highest hill just 311 meters above sea level, Latvia is not a mountainous country. However, snow is an integral part of the winter season, and over recent years, skiing has gained much interest. The short but steep slopes offer a suitable location for quick runs on skis or snowboard. While it may seem unusual, alpine skiing is one of the favourite wintertime activities in Latvia. Ski runs are located in almost every town, including well-marked and well-lit runs where one can crosscountry ski. Since vertical drop is

always limited (often less than 100 meters), most ski areas are equipped with only one or a few surface lifts, and sometimes a small chairlift. Ski areas are also often limited to one only run.

The ski season usually starts in the first quarter of December and finishes in the last week of March. Most ski runs are equipped for night skiing.

The ski area of **Riekstukalns** is close to Riga. It features 8 runs, 11 lifts, and some snowmaking equipment. The longest run is 350 meters long.



In the North, the resort of **Baili** has 7 lifts and 100% snowmaking. The longest run is 180 meters long. In the West, there are the ski areas of **Milzkalns**, with 8 lifts, and **Zviedru Cepure** (4 lifts, also equipped with a summer toboggan run). The recreational park of **Lemberga Hüte** offers a recently furbished slope on a manmade hill next to Ventspils. Every year since 2005, this hill has been made higher, using construction debris and old asphalt from repaved streets. It is now 58 meters high and equipped with 3 lifts as well as snowmaking. The longest run features 240 meters of slope. As with other ski hills in Latvia, it turns into an



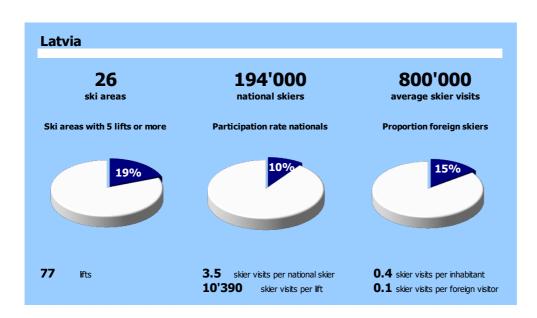
adventure park in the summer and is a popular leisure and sporting facility for the inhabitants of Ventspils.

The area around Sigulda has at least 6 ski runs. There is, for example, the

recreational centre in **Kakitis**, **Korde** slope and the leisure complex in **Reina Trase**, which is located a little bit farther. The only cable car in the country (which by the way is also the only one in the Baltics) is also located in Sigulda and connects both sides of the Gauja River. It is not used for skiing.

Near the city of Cesis, the ski areas of **Zagarkains** and **Ozonikains** are equipped with a chairlift, snowmaking, a snowpark, a beginner and children's zone, ski schools and cafés. The longest run is 500 meters long.





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Lithuania is a rather flat country with a few gently rolling hills but no real mountains; its highest point is 294 meters above sea level.

Lithuanians started to show interest in skiing only a few years ago and focusing primarily on cross-country skiing, but there are a few downhill ski areas. Most are limited to snowfields on hills, offering a few hundred meters of runs, equipped with one or more lifts, where skiers can pay for a 2-hour pass

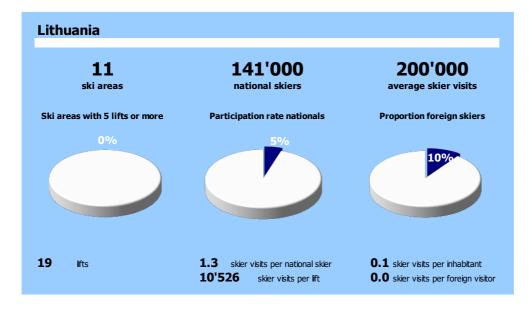
that includes equipment rental. No ski area has more than 4 lifts. The majority are located about 80 kilometres from the capital city of Vilnius. They also do not offer hotel accommodations, but there are country homes available for rent near a few ski areas. Some also offer night skiing and have snowmaking systems.

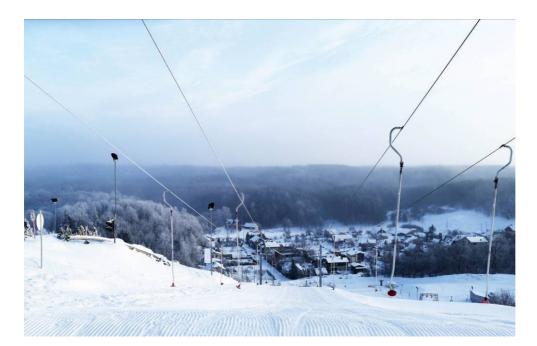


An indoor ski centre opened in 2011. At a cost of EUR 32 million, it offers Lithuanians the opportunity to ski year-round. The facility is one of the very few in the world to feature an outdoor slope during the winter season. As the other outdoor ski areas are rather small in size, this 640 metre-long outdoor slope is one of the longest in the country.

The **Liepkalnis Ski Hill** in Vilnius offers at wintertime 10 lifts and 10 tracks, for all levels of skiers. Total length of the tracks is 2.6 kilometres and the ski area is equipped with efficient snowmaking system. There are current plans to upgrade the Liepkalnis Ski Hill area by adding a complex of iconic buildings to make it an epicentre of entertainment, leisure and culture for the city of Vilnius.

The ski season in Lithuania is a bit peculiar when compared to resorts in the Alps. It begins in September with the first snowfall, and ends in February. However, winters are pretty stable.







Macedonia



Macedonia is a small landlocked country, in the southernmost part of what was once Yugoslavia. Reaching altitudes up to 2'764 meters (Mount Korab), the country's mountainous region boasts snow coverage through the end of May, in spite of its southern location.

Civil war and regional conflicts considerably slowed the pace of ski industry development. Even if the country is emerging as a budget winter destination, with weeklong lift passes at EUR 69.00, ski areas are still primarily

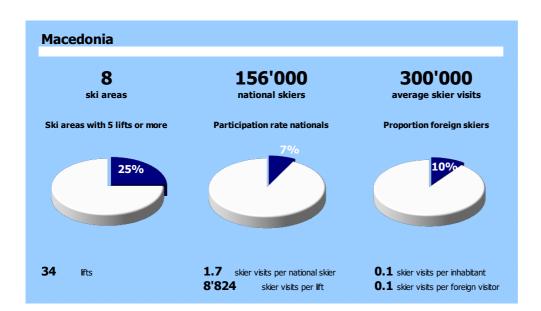
visited by local Macedonian skiers. Due to the conflict, the country has had a hard time building up a skier population base large enough to support ski resorts and offer state-of-the-art facilities. Lifts, trail marking, grooming and even cleanliness are not yet up to western standards. The ski areas tend to be crowded by locals on the weekends, with long lifts lines, and empty on weekdays, when lifts may even close. The foreign customer-base is currently limited to Albanians, Greeks and Bulgarians.

The **Zare Lazarevski** ski area, in Mavrovo national park, a one-hour drive from the capital city, is the largest in Macedonia. It has 14 lifts, and tops out at 1'860 meters above sea level. The resort features several hotel accommodations, including 4-star hotels. It has FIS approved downhill, super giant slalom and giant slalom runs. However, the lift infrastructure is ageing, with no high-speed detachable lifts.

**Popova Sapka**, another one of the most popular resorts, is located in the northwestern part of Macedonia, just 35 kilometres from the capital of Skopje. With bars, restaurants and hotel accommodations, it is able to successfully attract foreign customers. The ski area is equipped with 9 lifts. It has hosted both European and Balkan ski championships. One of them, the *Shara Mountain Cup*, dates back to 1947. Popova Sapka was linked to the neighbouring city of Tetovo via a 7-kilometre long cable car that was destroyed in the 2001 hostilities. Slopes are located between 1'708 meters and 2'510 meters above sea level, and the snow pack lasts 135 days per winter on average. A new latest generation 6-seater chairlift has just been built there.

Beforehand, only the **Ski Centar Kožuf** was equipped with new state of the art lifts. It is located next to the border with Greece. Even though it only has 3 lifts, there is a EUR 73 million development plan to extend the resort and add further lifts and accommodations.

Finally, a special mention for the **Sharplania** ski area, which brings skiers to the top of pristine slopes by using 2 snow cats since the area is not equipped with lifts. 14 freeriders can sit in each snow cat.





### Macedonia Has Big Plans for Leading Ski Resort

North Macedonia has announced plans to privatise and upgrade its Popova Sapka ski resort in 2021, one of the largest of the country's half-dozen ski areas.

Currently state-run Popova Sapka currently has 9 lifts, but many date back to

2021 International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 – *PRIVILEGED COPY*  the era when the country was part of Yugoslavia. However, a fast new 6-seater chairlift was installed ahead of last season.

The resort, on Sar Mountain, has ski slopes extending over the border in to neighbouring Kosovo. It has around 20 kilometres of prepared slopes between approximately 1'700 and 2'500 meters altitude.

The country's economy minister Kreshnik Bekteshi said the North Macedonian government is interested in a full or partial privatisation and would also consider a public-private partnership for the ski centre itself. 2 hotels at the resort, also currently publicly owned, will however definitely be sold off.

Popova Sapka (which translates as *Priest's Hat*) is located in the Sharr Mountains. It also offers extensive lift-accessed backcountry ski terrain of easy alpine bowls, steep chutes, and tree skiing. The region is also famed for its Vranec *black wine*.

Source: Snowhunter

## Montenegro



Known primarily for its sun-kissed coastline, Montenegro also offers plenty of mountain scenery, lakes and the longest canyon in Europe, through which the Tara River flows. The country has a lot of mountains and valleys. The highest peaks in Montenearo rise to over 2'500 meters above sea level (Maia Kolata, Prokletije Mountain, 2'534 Bobotov Kuk, Durmitor meters; Mountain, 2'523 meters). Some winters receive extremely heavy snowfall; during this type of winter, some places become inaccessible by car.

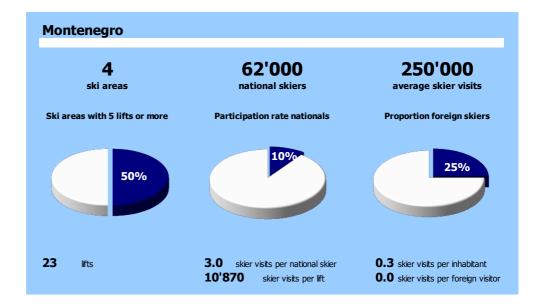
There are several winter resorts for both downhill and cross-country skiing. The most popular ones are **Kolasin 1450** and **Durmitor**, which are at the foot of beautiful and massive mountains.

The resort of **Kolasin 1450** is the most modern resort in the country. Located in Jezerine, near to the city of Kolasin, it was known in the past under the name of *Bjelasica Ski Centre*. After being acquired during bankruptcy proceedings, it was renamed, developed and some lifts were replaced. A high-speed 6-person detachable chairlift was recently installed (2010) in addition to 1 other fixed-grip chairlift and 3 surface lifts. The ski area features the only snowmaking system in Montenegro. Kolasin 1450 offers both winter and summer activities. Rustic wooden restaurants and mountain huts make the place a picturesque location, together with two 4-star mountain resort hotels.

Located close to Durmitor National Park and in the shadow of one of the country's highest peaks, Zabljak is the highest town in northern Montenegro and an epicentre for winter sports. It enjoys snow 120 days per year, from December to April. The **Durmitor** resort is made up of several small ski areas for a total of 12 lifts that rise up to 2'313 meters elevation. Some high-quality mountain ski chalets and new hotel ski-lodge accommodations have opened in recent years.

Both resorts are trying to increase market awareness and attract more local and foreign customers. Durmitor has hosted international downhill ski competitions. Various entertainment and sporting events are organised by the National Tourism Organisation throughout the season, with the slogan, *A hot winter in the mountains*. Ski passes, equipment rental and ski lessons are a bargain here. An all-day lift pass costs about EUR 15.00, a pair of skis and boots can be rented per day for EUR 10.00 and a one-hour private ski lesson costs EUR 20.00.

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Since Montenegro only gained independence in 2006, the tourism industry is still thinking about the major developments to invest in. Until now, the country's ski areas have primarily been the domain of locals and a few visitors from the Balkans. In the future, a number of tourism projects will enhance the country's tourism appeal. Mountain centres are a key part of this strategy and 8 resorts have been planned for development. Some are starting from scratch, such as the Zarski, Torine, Jelovica and Komovi ski resorts; others intend to further develop the existing ski area of Kolasin.

## Poland



The Carpathian Mountains cross the southern part of Poland and form a natural border with neighbouring Czech Republic and Slovakia. In the High Tatras region, the highest part of the Carpathian Mountains, Poland has 70 peaks over 2'000 meters high. The range culminates with the 2'499 metre high Mount Rysy. The Beskidy and the Giant Mountains are Carpathian sub-ranges, with slightly lower altitudes. They all contain winter sports areas. Skiing also exists in the central and northern parts of the country. In these regions, the

slopes are gentler and ideal for beginners or those who want to get in shape before going to the mountains.

Even though skiing has been around for a while, up until recently Poland was not a very popular winter ski destination for international tourists. The opening of Polish air space to low-cost airlines and the development of the highway system have given a big boost to tourism in Poland. The relatively low prices and pristine wilderness are other factors that have helped to make Poland popular with tourists.



The climate in Poland provides good conditions for winter sports. The season begins in December and lasts until April at some resorts. However, the best conditions for skiing are from January to March.

The country offers nearly 200 ski areas and a total of over 800 lifts. Many ski areas are pretty small, with only a few trails and one or a couple of lifts.

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Most of the time, skiing is consumed on an hourly or pay-as-you-go basis. Snowmaking and night skiing are common.

The most famous ski destination in Poland is the town of **Zakopane**, which attracts 2 million visitors yearly. Nestled in the heart of the Tatras Mountains, it started out as an intellectual centre in Poland. Since the 1930s, the area evolved into one of the most popular holiday destinations in the country, with a flourishing winter sports centre, as well as year round activities and a busy nightlife. Zakopane hosted the FIS World Ski



Championships as early as 1929, 1939 and 1962. However, even if it has a total of almost 50 lifts, it is not a ski resort like those of international renown. The fact is that the town is surrounded by several small ski areas with a few lifts each that are not interconnected and that do not offer a common lift pass. Most of them have short surface lifts, either running parallel or not connected to one another. Some were installed in the 2000s, but there are still some rather archaic relics. The ski areas are privately owned and require separate lift tickets (usually priced for a specific number of rides). From Zakopane, it is also possible to drive to larger resorts.

The beginner-friendly ski area of **Zieleniec** features more than 20 ski lifts (mostly surface lifts and 2 quad chairlifts) and 7 baby lifts. In terms of lifts, it is the largest single resort in the country. Even if its altitude is rather low (950 meters above sea level), it benefits from a unique alpine microclimate, which guarantees snow nearly 150 days per winter. Together with a snowpark and 10 runs equipped with lighting for night skiing, the resort's broad offering suits skiers of all levels.

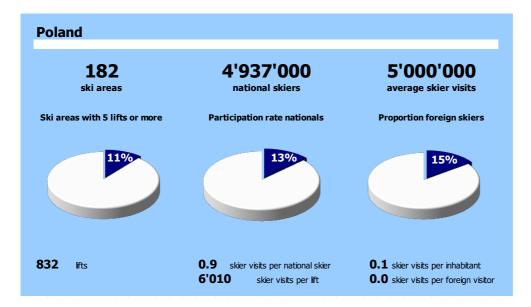
The ski areas of Czyrna and Solisko combine to form the popular resort of **Szczyrk**. It has about 20 ski lifts as well as several baby-lifts, 30 downhill trails totalling 60 kilometres, with an approved FIS run, snowmaking, night skiing, ski school, restaurants and equipment rentals. The first chairlift was installed in Szczyrk in the 1950s due to the area becoming an Olympic training centre. 2 new detachable chairlifts with bubbles and a 10-seat gondola have been installed in 2017.

With 16 lifts, **Bialka Tatrzanska** is also among of the largest ski resorts in Poland. It is 40 minutes away from the city of Zakopane, has recently expanded, and infrastructure was improved with the addition of several new chairlifts. It offers runs for all skiing abilities, and has a number of bars, restaurants and shops.

Recently, there has been a revival of ski tourism in Poland. Cross-country skiing and backcountry skiing have become more popular, and there are well-marked itineraries not only in the South of Poland, such as in Karkonosze - Jakuszyce in the famous Race Piast - and at the foot of the Tatras, but also in other parts of Poland, including Masurian Suwałki, the lake region in Kashubian, the Cracow-Częstochowa plateau and the mountainous Roztocze. Furthermore, 60 new lifts have been built at Polish ski resorts over the last 10 years.

Laurent Vanat





## Romania



The Carpathian Mountains are the second largest mountain range in Europe. They dominate the centre of Romania, with 14 peaks reaching over 2'000 meters. Culminating 2'544 meters above level. sea Moldoveanu Peak is the high point. There is snow between November and April and snow conditions can be very good through the end of March or even April, with often very cold temperatures. The ski resorts have decent infrastructure, and the hotels are comfortable and offer interestina specials

packages. Nevertheless, the poor access roads are sometimes an issue.

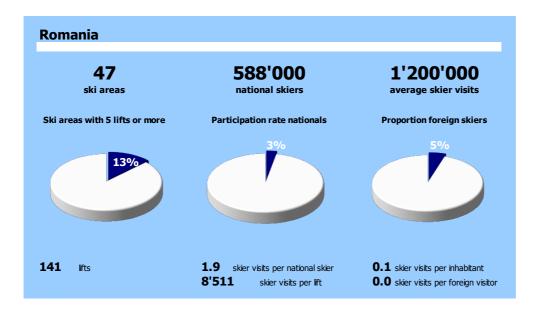
Romania is still a rather unknown and undiscovered winter holiday destination. It features 44 ski resorts with about 150 ski lifts, 20% of which have been installed or renewed over the last 15 years. It is an attractive destination for foreign visitors, as prices are relatively low when compared to most of Europe, and some ski runs are lit for night skiing. However, lift passes are not considered cheap due limited infrastructure and poor grooming. Romanian ski resorts are estimated to attract around 1.2 million skier visits per year.

The main ski areas in Romania are **Poiana Brasov**, **Sinaia**, **Busteni**, **Predeal**, **Azuga** in the Southeastern Carpathians, **Paltinis** in the Southern Carpathians and **Borsa**, **Vatra Dornei**, in the Eastern Carpathians.

The popular destination of **Poiana Brasov** is only 13 kilometres from the medieval city of Brasov. More restaurants, villas and hostels have been built there than anywhere else in the country. The region hosts several sporting events every year. It has 11 ski lifts, a snowmaking system, cross-country skiing, ice rinks, swimming pools as well as several bars, restaurants and discos. The resort offers a capacity of 4'500 visitors per day and the lodging infrastructure can accommodate 4'000 guests.

**Sinaia**, with a maximum altitude of 2'000 meters above sea level, is located 125 kilometres from Bucharest. It is called the *Pearl of the Carpathians* because of its beautiful landscape. The mountain resort has 10 recently upgraded lifts, cross-country skiing and lots of restaurants, bars and discos. The highest city in Romania is **Predeal** at 1'000 meters above sea level, 145 kilometres from Bucharest. It is one of the main ski resorts in the country and has 7 lifts.

Recently, a new ski resort opened. Initially called **Star Trek Voineasa**, the now official name is **Transalpina**. It features a 2-section gondola, 1 quad chairlift and 2 surface lifts. Developers want to add more lifts to make it the largest resort in the southern Carpathian Mountains. The finalised project features 31 lifts and 80 kilometres of trails. The resort is being built by the Romanian Ministry of Sustainable Development and Tourism as part of their EUR 80 million *Ski the Carpathians* program, backed with EC funding, which includes the dramatic upgrade of several Cold War era resorts as well as the development of new centres.

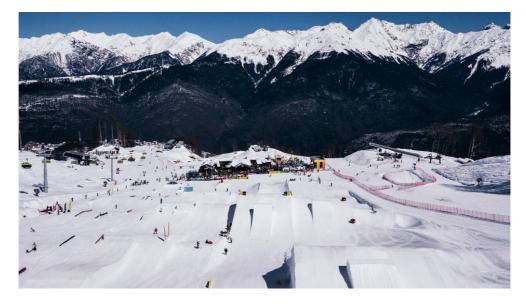




Russia

Out of all the countries in the world, Russia boasts the largest number of mountain ranges, from the rolling hills of the Khibiny range, to the majestic peaks of the Caucasus and the volcanoes of Kamchatka.

Skiing has been practiced in Russia since ancient times. An old set of skis dated from 6300 BC was found near Lake Sindor, in the Vychegda basin of Russia (northern Russia). Rock paintings near the White Sea, dated from 3000 to 2000 BC also confirm an old history of skiing. Other petroglyphs, dated between the 3<sup>rd</sup> century BC and the 4<sup>th</sup> century AD were found only 600 kilometres from the Altay Mountains of northwestern China.



Since the 1950s, there has been a Russian alpine ski instructors association. In 1967, it launched a national training programme. However, at the time of former USSR, winter sports were mostly reserved for

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professional athletes and training centres were built in various republics that are now independent. It is only since the early 2000s that recreational skiing became more popular and that ski areas were developed or redeveloped. Starting from 2000, 140 news lifts were supplied in Russia by major western manufacturers.

Ski resort development for the 2014 Sochi Winter Olympics has been driving a growing market with future potential. Of Russia's 140 million inhabitants, only 3% ski. However, the market is expanding through an increasing number of domestic skiers, and an increased attendance at domestic ski resorts. The trend has been clearly noticeable since the Sochi Olympics, triggered by the state-of-the-art resorts. On the other hand, the drop in the rouble's value, due to recent political issues, encouraged Russians to ski in Russia. Between January 2014 and January 2016, Russian rouble lost half of its value. Tours to Russia became much cheaper for foreigners and, accordingly, travelling abroad became much more expensive for Russians. Therefore, many Russians who used to spend their winter holidays in European resorts skied domestically. According to recent surveys, the number of Russian tourists travelling abroad decreased by about 30% in 2015/16.

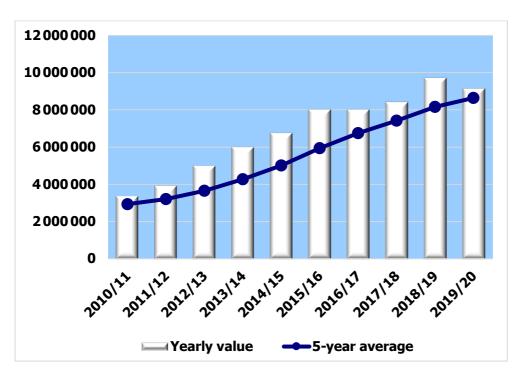


Figure 27 : Russia, evolution of skier visits

It looks that visitation in Russian ski resorts was boosted after Sochi Olympics but then tend to be stagnating in 2016/17 at former years' level. Visitation at many Russian ski resorts even slightly decreased, despite relatively good snow conditions. Winter 2017/18 looks a bit better with an estimated growth in attendance of 5%. Sustained growth in Northern

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Caucasus and Siberia pushed 2018/19 visitation further upwards. With the outbreak of the pandemic, 2019/20 season lost about 6% in attendance.

The number of ski areas in Russia increased significantly since 2012. Many of them still feature limited infrastructure and lifts that require some renovation. There are about 40 small ski areas around Moscow and a few around St-Petersburg, even though neither city is located in a mountainous region. The main ski resorts in the country are located in the Ural and the



Caucasus Mountains, but many other regions also offer ski areas, from the vicinity of St-Petersburg over Siberia up to Sakhalin Island and Kamchatka peninsula. Currently, 75 of the 83 regions or subjects of the Russian Federation offer one or more, totalling over 350 ski areas.

70 kilometres from Sochi, the resort of Krasnya Polyana served as the main site for the 2014 Olympics. It is spread over 4 different ski areas: Alpika Service, opened in 1993, lies between 690 and 2'050 meters above sea level, offering a vertical drop of over 1'300 meters. Laura, whose real name is Gazprom (but some people call it Laura because of the name of the river running through

it), first opened for the 2008/09 season. It now features 14 lifts. Some gondolas are open all year round, since they are designed for more than just skiing. Gorki Gorod (which was renamed in 2019 to Krasnaya Polyana, under heavy criticism from other ski resorts in the area, which are even reckoning legal steps, arguing that Krasnaya Polyana is the colloquial name of the whole area) was the place of the media-village during Winter Olympics. The ski resort itself was established in 2001, a few years before Sochi has been selected as the host of 2014 Olympic Games. Actually, it did not host any alpine events and was the only resort open for general public (for skiing) during the Olympics. **Rosa Khutor** is Krasnya Polyana's largest resort, and hosted the alpine skiing events during the 2014 Olympics. The resort features 102 kilometres of runs for all levels, from beginners to Olympic champions, and 26 lifts (8 gondolas, 11 chairlifts and 7 surface lifts) and 4 magic carpets. It is spread over 2'289 hectares, with the highest point culminating at 2'320 meters above sea level. Some gondolas and chairlifts are open almost all year round. Various ski competitions (i.e. Ladies' World Cup) and several festivals are held there. After the Olympics, the resort has proved to be very popular and has been recording about 800'000 skier visits each winter and about the same amount of visitors in summer.

The Caucasus is a mountainous region that includes Mount Elbrus (5'600 meters above sea level) and is one of the snowiest areas in the world. With winters longer than the rest of Europe and the opportunity to ski on glaciers and at high altitudes, it has the natural potential to compete with the Alps. However, the Caucasus is subject to cycles of violence (bombings, explosions, terrorist attacks, etc...) on a regular basis. In order to bring the region to more peaceful status, the government's goal is to develop the tourism industry and attract investors. Under the name of Northern Caucasus Resorts, a broad regional project was designed to build 5 resorts through a public-private partnership, spread among the various semiautonomous Russian republics of the region. These resorts were aimed at

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having a total of 179 lifts and 879 kilometres of ski runs, with the goal of accommodating 150'000 guests daily. After the multi-billion euro project would be complete, over 10 million tourists would be expected to visit the mountains on an annual basis. However, currently some of the planned areas have been put on hold and the project focuses on 3 only. For the time being, most of the operation is concentrated in the Soviet legacy resort of **Elbrus** and **Cheget**, situated in Elbrus National Park, near the Georgian border. In Elbrus, a new record holding gondola<sup>35</sup> was recently added to its original 3 gondolas and 2 cable cars<sup>36</sup>. They provide the opportunity to ski through August on Mount Elbrus, offering 21 runs for 35 kilometres of skiing. The negative point however is that lift lines are long. In nearby ski area, one of the other projected resorts, several lifts (2 gondolas and 2 chairlifts) have already been delivered and some further are expected in the near future.

#### New Lifts For Europe's Highest Winter Ski Area

2 new lifts are to be built on the ski area at Mount Elbrus over the next few years. The 2 new lifts are the first of a planned 9 announced a year ago by Resorts of the North Caucasus LLC for the mountain, Europe's highest, close to the country's border with Georgia.

The initial new lifts do not increase the centre's highest lift-served point, already Europe's second-highest ski lifts at 3840 meters<sup>37</sup>, but are designed to improve skiers' flow down near the base of the area.

The new EL3 chairlift is designed to take skiers and snowboarders to the start of the ski slopes, with a capacity of 2'000 people per hour. The lift will start at the lower cable car station at 3'452 meters above sea level and climb to 3'515 meters above sea level. The new EL6 lift will carry 10-passenger gondola cabins. 830 meters long with a capacity of 2'400 people per hour, it will climb from 3'395 meters above sea level to 3' 516 meters above sea level.

The full project announced last year for the construction of 9 new lifts, with a combined length of 8.2 kilometres, includes plans to increase the lift-served vertical to reach 4'200 meters above sea level. Although there are several gondolas in the Himalayas that reach higher altitudes, this will be the highest lift in the world for a 'proper' ski area.

Design work for the 9 new lifts and what appears to be at least a dozen new runs is reported to be complete and 5.7 billion rubbles (EUR 71.7 million) allocated to it. The plans are reported to include the creation of a solar power plant to help generate some of the power needed for the lifts. New runs include new blue, red and black grade slopes of at least 1.6 kilometres length as well as access to free riding terrain currently served by a snowcat operation. The plans last year suggested the 9 lifts would be installed between 2020 and 2022 but it is not clear whether the project is still on this schedule.

Source: Snowhunter

<sup>&</sup>lt;sup>35</sup> Highest gondola in Europe, reaching up to 3'847 meters above sea level

<sup>&</sup>lt;sup>36</sup> Gondolas are from the 2000s while cable cars date from the 1960s.

<sup>&</sup>lt;sup>37</sup> Zermatt's highest lifts are lower in winter, but summer-only glacier draglifts reach 3'899m.

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Another well-known ski resort of the Caucasus Mountains is **Dombai**, located close to the Georgian border. Although the resort was equipped 10 years ago with 3 modern lifts, part of the infrastructure still looks from a past era.

The most popular resort in the Ural Mountains is **Abzakovo**. It is also one of the largest in the region. With a spa, the area is both a ski resort and a sports and health complex. For years, it was essentially the resort of choice for residents in the city of Magnitogorsk, 60 kilometres away. Nevertheless, with the construction of a new complex and modern skiing facilities, its popularity has spread throughout Russia. Abzakovo features a dozen runs with a total length of 18 kilometres of skiing, including FIS approved slalom and giant slalom runs. The 5 ski lifts and the baby lift can carry 5'000 skiers per hour. In addition, the resort has a snowmaking system and offers the possibility of renting snowmobiles. Visitors also have the opportunity to enjoy ice-skating.

**Sheregesh** ski resort, in Siberia, is one of the largest and most visited of Russia. It was open in 1981 and accounts 18 lifts, including gondola, combined lifts and high-speed quads. Slopes total more than 50 kilometres, with a vertical drop of 680 meters. It is famous for its end of season ski festival, where everybody skis or snowboards in bath suits! It features a lot of cafés and restaurants. A total of 3'000 commercial beds are distributed in various accommodations ranging from hostels and hotels to VIP apartments. They are all located within walking distance of the mountain infrastructure. Some slopes are FIS homologated. Another popular Siberian resort is **Baikalsk-Sobolinaya**, on the banks of Lake Baikal. It offers 7 lifts, including 2 designed for beginners and was established in the beginning of the 1990s.

Though Kamchatka is known mostly for what many consider to be secondto-none heli-skiing and ski touring destination, it has a few ski areas close

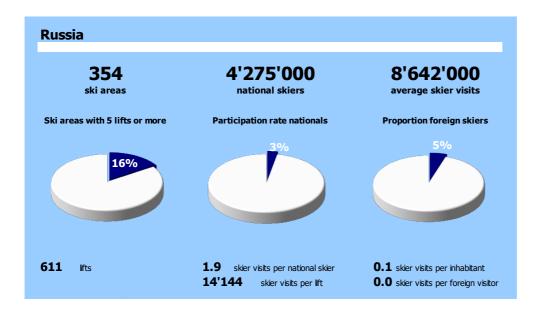
<sup>2021</sup> International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 - *PRIVILEGED COPY* 

to the regional capital Petropavlovsk-Kamchatsky. The biggest and the most popular one is **Moroznya**, with 523 meters of vertical (branding itself as a training base of Russian alpine skiing team). **Krasnaya Sopka** ski centre is also located close to the city of Petropalvovsk. The top of the hills is 450 meter high.

In Sakhalin, the **Gorny Vozdukh** ski area is also located close to the city of Yuzhno-Sakhalinsk and offers a vertical drop of 500 meters. It was recently equipped with a new 8-seater gondola and a combined lift, on top of 2 high-speed quads.

A project for a new year-round resort of international standing is also in the planning phase in the Nizhny Novgorod region. The infrastructure will be able to accommodate 1'900 people.

In 2008, drawing on foreign experience for such projects, an indoor ski centre opened in Krasnogorsk, in the Moscow province. *Snezh.kom* comprises, in addition to a ski slope, an ice skating rink, a fitness centre, an aquatic centre, conference rooms, restaurants, shops and other entertainment facilities. Snow is produced through ice crash technology, consisting of grinding thin ice plates to produce snow. 3 machines make 90 tons of fresh powder every day. The advantage of this technique is that it does not increase the humidity inside the complex. 56 chillers, air conditioners and de-humidifiers run constantly to maintain a temperature between -5° C and -7° C. The slope, 400 meters long with 65 meters of vertical drop, holds up to a metre of snow and requires constant maintenance. 2 groomers are available for this purpose. A 4-seater chairlift and a baby lift allow skiers to reach the top of the run.



#### New Ski Resort Planed for Kamchatka

A ski resort project has been unveiled for the remote Kamchatka Peninsula in the Far East of Russia. The resort, to be named 3-Volcanoe Park, will be built in a spectacular location with views of the Moutnovsky V, Vilyuchik and Gorely

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Volcanoes, according to local reports.

Kamchatka is known for its spectacular, remote, generally snow sure mountains and has long been a cult destination for heliskiers to aspire to visit.

The global HKS architectural firm has won the contract to design the mountain resort, working with the resort's creators 3-Volcano Park LLC, with the objective of creating a year-round mountain destination *rather than a pure ski resort* reports say, *with a focus on the ecological side of the Kamchatka Region*.

That said the plans are for a ski-in ski-out, car-free village with accommodation in hotels an eco-village. There will initially be 17 kilometres of marked ski slopes served by 2 lifts. Besides the ski slopes the resort will feature a hot spring lagoon and thermal gardens all located to maximize the volcano views.

Kamchatka has incredible natural assets, which are almost entirely unknown and undiscovered. This is a fantastic opportunity for us to define responsible tourism development from the first stages of an area's growth. Our design is inspired by the colours and textures of the surrounding landscape, creating an extraordinary environment for visitors, against the dramatic volcanic backdrop, said Kevin Underwood, Global Director of Hospitality Design at HKS.

The 3-Volcano Park LLC was established by Vladimir Potanin's Interros group and the entities of Sergey Bachin (Chairman of the Board of Directors of the Rosa Khutor resort, a leading ski area near Sochi and 2014 Winter Olympic Venue) to develop a project for a new tourism cluster in Kamchatka. Planned investments in the project have been put at 15 billion rubbles up to 2028. 3-Volcanoe Park aims to open by 2025 and attract over 400'000 visitors annually.

Source: Snowhunter

## Serbia



If northern Serbia consists mostly of plains, 75% of the country is covered with hills and mountains. The highest peak culminates at 2'169 meters above sea level. There are several mountain ranges, offering good conditions for winter sports, with up to 5 months of snow on the ground per year.

The mountains in Serbia therefore offer options for winter sports enthusiasts. Among the more than 20 ski areas, the country's most developed and popular ski resorts are

**Kopaonik, Tornik Ski Centre** on Zlatibor and **Stara Planina**, which has FIS certified ski runs and hosts international competitions. These areas were modernised by the government company, *Ski Resorts of Serbia*, which is working to build up skiing infrastructure and transforming Serbian ski resorts into an international ski destination. The goal is to make the resorts more attractive to domestic and foreign tourists with a year-round offer.

Serbian ski resorts were popular with Irish and British skiers when tour operators offered them as destinations. However, the major operators stopped offering these destinations a few years ago. Today, more and more skiers are locals and Russians.

The resort of **Kopaonik** has taken the lead in Serbia's ski industry. It is located at an altitude of 1'600 meters above sea level, with runs that start from as high as 2'000 meters. It benefits from about 160 snow days per year and offers more than 50 kilometres of ski runs serviced by 23 lifts, including 6-, 4- and 2-seater chairlifts, together with some surface lifts. They can accommodate 32'000 skiers per hour, which ranks Kopaonik among the largest ski areas in this part of Europe. The resort is equipped

with snowmaking that covers 97% of its runs and offers one trail equipped with lighting for night skiing and a snowpark. The village base offers various accommodations, from cottages up to 4-star hotels (and soon even 5-star), bars, restaurants and a vibrant nightlife.

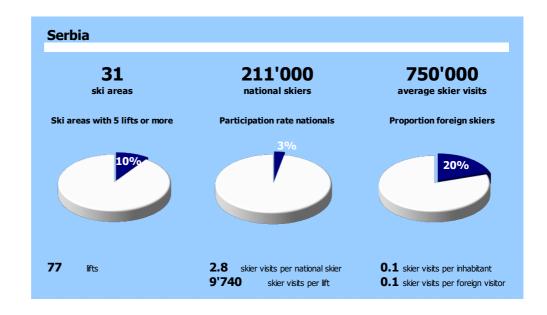
Near the Bulgarian border, located in a high mountain range, the resort of **Stara Planina** offers considerable potential for tourism development. A few years ago, it had only 2 lifts, but now has 5, including the first gondola in Serbia. It is expected to further expand with new chairlifts and runs (to reach a total of 100 kilometres of downhill skiing compared to currently 13 kilometres), accommodations and



2021 International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 – *PRIVILEGED COPY*  other infrastructure, and should become one of the country's most important ski resorts. The planned Babin Zub base village will offer 8'000 beds. The timing when the plans will be implemented is however not clear yet.

In the region of Zlatibor, the Serbian capital of mountain tourism, the **Tornik Ski Center** has a modern 6-seater chairlift and 2 surface lifts. In addition to skiing, if also offers tubing runs.

Some other smaller resorts offer limited infrastructure. The **Iver** ski resort, on Mount Tara, has 4 runs 900 to 1'100 meters long, equipped with snowmaking and one lift. **Divcibare** ski area, on Mount Maljien, is a place specifically designed for beginners, with several short runs, and one intermediate slope, equipped for night skiing. Several other ski areas are only equipped with one lift. A few even have no lifts but are designated places where people ski.



#### New Longest Gondola in the World Ready to Open

Serbia is reported to be set to open what is claimed to be the new longest gondola lift in the world once the country's coronavirus pandemic lockdown is eased. Dubbed the *The Zlatibor Gold Gondola* the new lift in 9 kilometres in length and will carry skiers and boarders from the centre of Zlatibor, a small mountain town in western Serbia, to the local ski area at Tornik.

The lift will be 1.6 kilometres longer than the current record-holder, the 7.4 kilometres long Tianmen Shan cable car in Zhangjiajie National Park in China, according to the local Municipality of Čajetina who is behind the development. The lift was officially due to open in May, but like many other countries, Serbia experienced a state of strict lockdown with closed borders and a nightly curfew so opening has been postponed.

The new lift, which will have large panoramic cabins each capable of holding up to 10 passengers, has been planned since 2105. The trip will take 25 minutes

with a capacity of 1'200 passengers per hour. The lift will have a mid-way station at the scenic Lake Ribničko, where a 200-acre tourist resort is being developed.

The developers expect the project, which they say has been completed to the highest environmental standards, will become the most-visited tourist destination in Serbia and the surrounding region, with a target 10 million overnight stays year-round per annum. This will help it recoup its investment within 10 years.

Source: Snowhunter





Slovakia

Approximately 80% of the country is located at an altitude of 750 meters above sea level or more. The highest point is Gerlachovský Peak, 2'655 meters above sea level. Slovakia already has a long ski history. Since 1940, lifts have been in

the Tatras Mountains. With about 40 new lifts delivered by the major manufacturers over the last 10 years, there are now more than 100 ski areas in the Slovak Republic, most of them located in the northern part of the country.



The majority of the ski areas are located in nature reserves. With regards to environmental preservation, their development is limited to some extent. Slovakia has a little less than 500 lifts. Due to the low altitude of many ski areas, snow coverage is not always guaranteed. Nevertheless, Slovakia seems well on its way to becoming a popular ski destination in Eastern Europe.

Slovak ski resorts were estimated to have attracted about 4 million skier visits per year at the beginning of the 2000s. This figure is now at about 5 million.

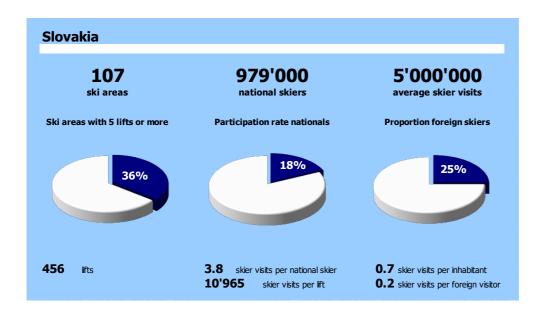
Currently, visitors from Poland, Hungary, Russia, the Czech Republic and the Ukraine come to Slovakia to ski. Thanks to very competitive prices, the Slovak ski resorts are now trying to expand their catchment area to the Western European market. A group of 4 ski areas (**Snow paradise Velka Raca/Oscadnica**, **Park Snow Strbske Pleso**, **Jasna Nizke Tatri** and **Park Snow Donovaly**) has launched an advertising campaign aimed at the French, British and Benelux middle classes. These 4 ski resorts have recently made different investments and are now able to offer infrastructure and services similar to those in Western Europe (64 kilometres of ski runs for all levels, hotels, chalets and guest houses, 6-seater chairlifts, bubble equipped chairlifts ...). The Tatry Mountain Resorts Group, which operates 4 ski resorts and several hotels, invested EUR 190 million over 7 years from 2007 to 2013 to upgrade facilities and expand its resorts.

**Donovaly** is one of the major ski resorts in Slovakia. It is located in the centre of the country between the Low Tatras and the High Tatras. It is popular with Slovaks as well as with foreign visitors. Donovaly has 15 ski lifts and offers 18 kilometres of ski runs. **Jasna** Nizke Tatri – Chopok North is the largest ski resort in the country. It is located in the Carpathian Mountains, in the Low Tatras. It features 18 surface lifts, 7 chairlifts and 4

Laurent Vanat

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gondolas, including a funitel, with a total capacity of 30'744 people per hour. 29 of the 45 kilometres of ski runs are equipped with snowmaking. The **Bystrianska Dolina** ski resort is located between 1'216 meters and 2'005 meters above sea level in the Low Tatras. It has 14 ski lifts and 7 ski runs, 2 that are considered difficult. The vertical drop is 789 meters.







With 93% of the territory covered in mountains, more than 10 mountain ranges and 72 peaks over 6'000 meters high, Tajikistan is one of the most mountainous countries in the world. It shares the high Pamir and Tian Shan mountain

ranges with its neighbours Afghanistan and China. The highest summit, Peak Ismoil Somoni, tops out at 7'495 meters above sea level. The 70 kilometres long Fedchenko Glacier is the longest and thickest glacier in the

world, outside the Polar Regions. About 50% of the country is located over 3'000 meters, with an average altitude of 4'000 meters in the highlands in Eastern Pamir.

Despite the vast natural potential, mountain tourism is not very developed, recording very few visitors. It is not part of the local culture.

The only ski area of the country, formerly known as Takob, is now called **Safed Dara**. It was developed during the Soviet era, in the 1980s, about 100 kilometres from the capital city Dushanbe. Access roads are not in very good conditions and driving there can take 3 hours. The ski area is located about 2'250 meters above sea level and was equipped with 2 old surface lifts, of which only one operated. However, in 2016, a brand new 8-seater gondola lift was installed and the old building with accommodations located at the base of the slopes, which was falling into disrepair, has been renovated entirely. Attendance seems mostly concentrated on the weekends.

However, since mountains and snow are not scarcities, there is plenty of potential for ski touring and ski mountaineering and there are 2 reputable locations for heliskiing, one in the Pamir and the other in the Fann Mountains. Those who have skied there reported deep untracked snow and stable sunny weather.



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## Ukraine



Part of the Carpathian Mountains extends through Western Ukraine, followed by lower hills to the centre of the country. The highest peak in the Ukraine is Hoverla Peak, which culminates at 2'061 meters above

sea level, near the Romanian border. Ukraine is hardly known internationally for its ski resorts, but there are many places to ski in the country. Most ski resorts are located in the Carpathian Mountains, but there are also a few ski areas in the other regions and several urban ski areas (hills next to cities equipped for downhill skiing).

The ski industry has been developing and Ukraine's ski resorts have considerably improved in the last 10 years. 18 brand new lifts were delivered by major manufacturers between 2004 and 2009, but no more since. In the first decade of the century, several small hotels, holiday houses and apartments were built and some resorts have upgraded a portion of their ski lifts to current standards, even if ground transportation remained problematic for access to some resorts. Secondary ski areas usually have only basic equipment, and runs may not be groomed. Lifts queues can last more than one hour on the weekends.



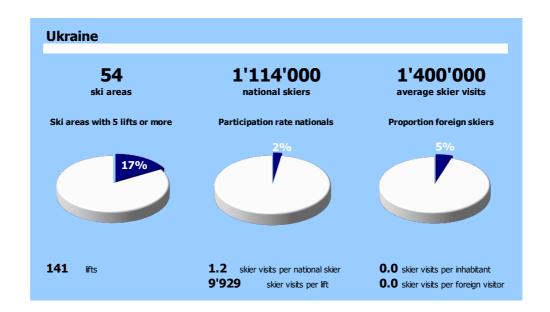
The price for lift passes, ski rentals and ski lessons are relatively cheap compared to Western European standards.

The newest and most modern ski resort in the Ukraine is **Bukovel**. It was built in the 2000s and is for the time being the only one with world-class facilities: with high-speed chairlifts and meticulously groomed runs, snowmaking facilities, organised lift lines and safety personnel. Even if Bukovel is the second highest resort in Ukraine, its base elevation is only 900 meters above sea level and the highest ski lift reaches 1'370 meters. This makes the resort very weather and temperature dependent. In 2011/12 winter season, the ski area only fully opened at the end of January. Additional snowmaking systems will help reduce dependence on weather conditions and allow an earlier start to the season. The mountains around the resort protect it from the cold wind. It has 16 lifts, 60 kilometres of runs and quality ski and snowboard instruction.

The resort of **Slavsko** was the most popular in Ukraine for many years (until Bukovel was built after 2000). It is also one of the easiest to access. Located in a picturesque village at 600 meters above sea level, it is

2021 International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 – *PRIVILEGED COPY*  surrounded by mountains that protect the resort from strong winds. With 4 different mountains, the resort offers a wide variety of runs. The most famous one is the Mount Trostian, which offers nearly 500 meters of vertical drop and 8 lifts (1 chairlift and 7 surface lifts).

The highest ski resort in the Ukraine is **Drahobrat**, located at 1'360 meters above sea level, in an area with heavy snowfall and a stable snowpack. It is the first ski area to open for the season and the last one to close. The resort features 8 lifts, 8 ski runs and claims to meet the requirements for Olympic competition. It is very popular with skiers and snowboarders because of the guaranteed snow. The natural landscape in and around Drahobrat, and the view from most hotels are appealing. However, access to the resort is a challenge. The only way to drive there is to use old Soviet all-terrain vehicles on an unpaved road.



## Uzbekistan



A large part of the country is covered with a mostly flat and rolling sandy desert with dunes, and broad, flat, intensely irrigated valleys along the Amu Darya, Syr Darya and Zarafshon rivers. However, the eastern part of the

country along the Tajik and Kyrgyz borders is surrounded by mountainous terrain. The country's high point rises to 4'301 meters above sea level (Adelunga Toghi).

Although skiing has a relatively low national participation rate, the country has 3 ski resorts located in the Western Tian Shan Mountains, about 80 kilometres away from the capital city of Tashkent. Every year, more than half a million tourists from Tashkent and other neighbouring areas visit the 3 health–recreation complexes that have been built in the mountains. 2 of them offer skiing during the winter: **Chimgan** and **Beldersay**.

With a base elevation of 1'600 meters, **Chimgan** lies below the massive 3'309 metre high Big Chimgan peak. As early as the 19<sup>th</sup> century, the climate made the area an appealing destination. The elite began to build summerhouses and cottages, and then a sanatorium and resorts. Much later, 6 ski lifts were built for winter sports. The ski season is not very long; it starts in December and lasts until mid-March.

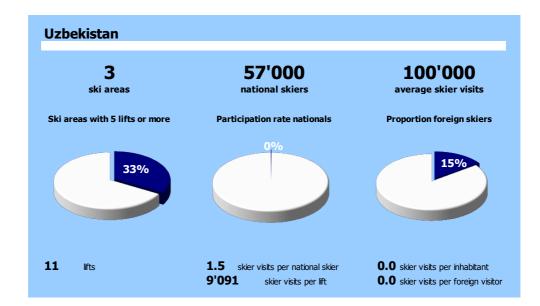
With a slightly longer season, **Beldersay** ski area is located close to Chimgan, on the slopes of Kumbel Mountain. The ski area advertises more than 300 sunny days a year and abundant snowfall. Runs are more geared towards skilled skiers and snowboarders and one is FIS certified. The ski area's infrastructure is limited to 2 lifts and minimal accommodations.

Various locations in the Western Tian Shan Mountains also offer heliskiing opportunities. Skiers are flown to altitudes ranging between 2'500 to 4'200 meters above sea level. Descents are often 10 kilometres long and offer up to 2'000 meters of vertical drop.

A further new 4-season resort named **Amirsoy Mountain Resort** has now open near Tashkent, in the western part of the Tian Shan Mountains, on the northern slopes of the Maygashkan Mountain of Beldersay. It is equipped to international standards. Its construction began in 2018. It currently offers 12 ski runs totalling 15 kilometres of different difficulty level and served by 3 lifts. The resort features equipment rental services, ski school, and currently covers 900 hectares. Development plans target upon completion, in 2022, a total of 28 ski runs totalling 21.3 kilometres served by 7 lifts including gondola, chairlifts and conveyor lifts. Some floodlit will

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be provided for night skiing, together with modern snowmaking system and snow grooming machines to offer high quality slopes.



# **The Americas**

Both North and South America have ski resorts. Although the region has a market twice the size of Europe, including the Alps, with approximately 900 million inhabitants, penetration rate for the ski industry is low. Proportion of skiers among the population is only one third of what it is in Europe. In spite of 2 continents spread across 2 hemispheres, both with high mountains, more than 90% of the ski resorts are located in North America. Overall attendance is only the half of the skier visits in the Alps, even if this region is second to the Alps in terms of big ski resorts (with 7 resorts in the top 50).





Argentina

23% of Argentina is covered in hilly and mountainous terrain. The longest mountain range in the world, the Andes, runs down the entire western side of the country for more than 3'000 kilometres, and includes the chain's highest summit, Aconcagua, topping out at 6'960 meters above sea level. However, in spite of the high summits of the Andes, the ski resorts are located at lower altitudes, primarily between 1'000 and 2'000 meters elevation. At the southern end of the country, ski areas are located even lower. As is typical for winter sports resorts in the Southern Hemisphere, the ski season in Argentina starts in June and lasts through mid-October.

Before skiing became a leisure activity, and due to the mountains and the presence of snow, skis were already used in the 19<sup>th</sup> century as a means of transportation by foreigners who brought the activity over from Europe. It developed as a recreational activity in the 1930s, mostly concentrated in

the area surrounding San Carlos de Bariloche under the management of ski clubs and promoted by some European pioneers. Ski areas developed even before being equipped with lifts. The first lift was installed in **Cerro Catedral**, Bariloche's ski area, in 1939 and ski racing started in Argentina in the 1940s.



South American ski resorts have experienced new growth and development over the last decade. With nearly unlimited off-piste possibilities and good

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powder snow on pristine slopes, they offer an appealing option during offseason for resorts in the European Alps and North America. Skiing has until now remained fairly exclusive, as Argentineans do not have the mountain culture of the Alps and costs are relatively high. General interest is increasing, with an annual dedicated trade show, *Expo Nieve*. Visits to ski resorts are not limited to nationals. Skiers from Brazil, Chile and even Mexico come to Argentina, and some resorts are crowded with this international clientele in July and August, the middle of the austral ski season.



Argentinean ski areas are estimated to generate around 1.5 million skier visits per year, mostly concentrated in the top 7 resorts.

The biggest resort in Argentina is **Cerro Catedral**, which stands for *Mount Cathedral* in Spanish, due to its summits resembling the towers of a medieval cathedral. It is located in a national park near San Carlos de Bariloche, whose name may be more familiar to foreigners. The majesty of the place is well known by skiers from all around the world. The resort was a pioneer in South America. It operates as a 4-season resort and is today the most international and fully equipped ski area in the country. It continues to update facilities in order to provide visitors with the most advanced infrastructure. It is considered to be the *Chamonix* of South America. With 53 runs, 39 lifts, a snowmaking system covering 10 hectares, it offers 600 hectares of skiable terrain, with a top elevation of 2'180 meters above sea level. For years, Catedral has hosted the most important international competitions and snow festivals in Argentina.

2021 International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 – *PRIVILEGED COPY*  **Las Leñas** is among the most popular ski resorts in Argentina due to snow quality, runs for all levels, the outstanding off-piste descents and cross-country skiing. The resort is located a few kilometres from the City of Mendoza. It is the highest in the country. With a vertical drop of 1'200 meters, the area is located between 2'240 meters and 3'430 meters above sea level. Due to its dry climate, the snow quality for the 230 hectares of skiable terrain and 40 runs is famous worldwide. The terrain is served by 13 lifts and, if necessary, supported by a snowmaking system.

Another spot close to Mendoza is **Penitentes**. With views of Mount Aconcagua, it is also very close to Chile. Inaugurated in 1979, the resort occupies more than 300 hectares of skiable terrain and offers 25 runs. Several runs are FIS approved and used for competition. The hotel infrastructure, with a capacity of nearly 2'000 beds, includes all kinds of accommodations, from hostels to 4-star hotels.

Among the other major ski areas of the country, Chapelco, in Patagonia, offers fantastic scenery from its 1'980 metre high perch. It is advertised as combining adrenaline pumping activities and beautiful landscapes. Caviahue, with a base elevation of 1'647 meters above sea level, is located at the foot of the Copahue Volcano on the shores of a lake with the same name. With over 1'000 hectares of skiable terrain, and 20 runs, it offers the longest season in the southern hemisphere. The 8-kilometre long off-piste descent from the volcano's crater to the base of the resort is legendary. Popular with families, La Hoya, located in a forest, lake and waterfall covered landscape, was opened in the 1950s. The first lifts were installed in the 1960s and the resort was subsequently modernised in the 2000s. It now features 10 lifts, 24 runs and snowmaking equipment. For those who like skiing at the far reaches of the planet, Cerro Castor, the newest resort in Argentina and the southernmost on Earth, is close to the capital of Tierra del Fuego, where the sea and the mountains meet. The ski area base is only 195 meters above sea level and the summit rises to 1'057 meters. Cerro Castor enjoys very good weather and quality powder snow. Due to stable temperatures, it has one of the longest seasons in South America. Opened in 1978, Mount Bayo ski resort is located within a beautiful natural landscape. Surrounded by forests and with a majestic view of a lake, it offers 200 hectares of terrain for alpine skiing, with a 700metre vertical drop. It has 22 marked trails and 12 lifts.

#### **Covid-19 impacts**

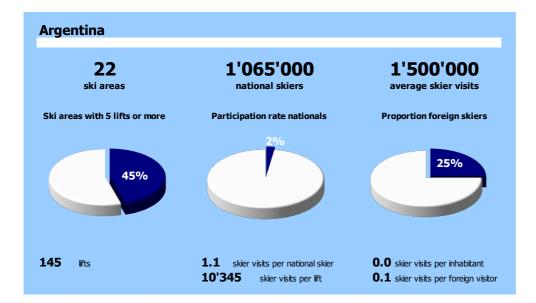
The leading Argentinean ski area of Las Leñas decided not to open for winter 2020. In a media statement the resort essentially said that the realities of operating with the additional limitations that working during the pandemic would entail meant it was not feasible for them to open this season, even when restrictions on doing so were lifted.

Argentina has had one of the world's most stringent lockdowns, extended up to end of May 2020. The government also banned all flights until the start of September – which is close to the end of the normal ski season there.

Beginning of July, ski areas have been reporting snowfalls of up to 1.2 meters in

the past few days but the government has stated full lockdown, which means ski resorts could not open on time. Catedral ski area in Argentina opened for the 2020 season on 23 July 2020. The world's most southerly ski area Cerro Castor in Southern Argentina began running its ski lifts and opened downhill runs from 1 August 2020. By mid-August, most of Argentina's ski areas were open for locally based skiers, with inter-regional travel within Argentina as well as international travel severely restricted for non-essential reasons.

Source: Snowhunter





Bolivia

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The Andes are running though the western side of the country in 2 distinctive ranges separated by the Altiplano, a highland plateau situated between Occidental and Oriental ranges of the Cordillera. The Andes feature very high altitudes in Bolivia and are toping at 6'542 meters above sea level (Nevado Sajama). The country capital city, La Paz, is itself situated at an altitude of 3'640 meters. The town is overlooked by mountains reaching over 6'000 meters, with snowcapped peaks in the northernmost part of the Cordillera Oriental, the Cordillera Real.

The upper slopes of these mountains have some glaciers and are covered year long with snow, at altitudes over 4'600 meters. Over 5'500 meters high, climate can be polar. However, global warming has been showing its impact. Permanent snow-covered slopes are scarcer and some glaciers already disappeared.

This caused the highest ski area in the world to get out of business. For a long time, **Chacaltaya**, situated at nearly 5'400 meters above sea level hold this record and was an attraction for the middle class of La Paz, about 30 kilometres and one-hour drive away. The at that time existing Chacaltaya glacier was served by a single home-made lift, offering a slope that was skiable 7 or 8 months a year, together with some après-ski. It was once home of the Club Andino Boliviano, which established there already in 1939.



The place has however been a witness of climate change over decades. Bolivian scientist started measuring the Chacaltaya glacier in the 1990s. In 2005, it was predicted that it would survive until 2015. However, it completely melted down already in 2009. Now the defunct ski area looks like a ghost place, with the ruins of the base area building. The skilift has been dismantled.

## Canada



Ski areas in Canada are located in the Rocky Mountains of the West and in the Québec, Ontario and Atlantic<sup>38</sup> provinces of the East. While the Rockies have ski resorts that can compete with the European Alps in terms of vertical drop, skiing in the East takes place on lower altitude mountains and hills.



It is considered that alpine skiing, created in Europe, got its first roots in North America in the Laurentians. Even before lifts were installed, railways from Montreal to the Laurentians were already bringing skiers in special trains as early as 1920s. North America's first rope tow was installed in 1931/32 at Shawbridge, in Quebec, in fact a rope moved along pulleys by the tireless wheel of an old car. Mont **Tremblant** was the first destination in Canada to be equipped with a chairlift, around 1938, and the second in

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<sup>&</sup>lt;sup>38</sup> Prince Edward Island, Newfoundland, Labrador, Nova Scotia and New Brunswick

North America. A lodge was also opened there by a young and wealthy Philadelphia American named Joseph Bondurant Ryan, and he initiated the development of the site into a world-class resort, quickly popular among the aristocratic clientele of New York. The death of Ryan in the 1940s stopped the development of the site. The resort was sold a first time in 1965 and saw its attendance reduced to local customers<sup>39</sup>. But many other ski areas developed in Quebec and Ontario. Nowadays, these provinces account respectively more than 70 and more than 60. In the 1980s, the practice of skiing moved west to the Rocky Mountains. For instance, despite the first lifts opened already in 1965 in Whistler, the development of the sort grew into one of the biggest of North America only in the 1980s-1990s. It reached over 1 million skier visits in 1988 and over 2 million in 1999. Several other resorts developed in Alberta and British Columbia, with the 1988 Calgary Winter Olympics used as a booster for the sport.

Canada is one of the only western mature markets that has still seen development of new ski resorts in the current century. **Kicking Horse** Mountain Resort was developed beginning of 2000s and expansion is still increasing. **Revelstoke** Mountain is the newest ski resort in Canada. It opened in 2007 with a gondola and a few chairlifts and aims at offering the greatest lift-served vertical drop in America (total forecasted investment is USD 1 billion over 15 years). There were further new ski area development projects in the Canadian Rockies, with Jumbo Glacier Resort and Valemount. Jumbo Glacier Resort project was eventually abandoned by the end of 2019, after nearly 30 years of administrative and legal proceedings<sup>40</sup>. Valemount is still in the building phase. It was due to open by the end of 2020 but it seems the project has been delayed.

Canada's skiers market is now mature, with serious concerns about an ageing clientele and the ability to renew the customer base. It is facing challenging demographic and ethnic issues. Skier visits have been flat for the last decade, mostly influenced by weather conditions. These can be much different from East to West, mitigating the overall impact on national attendance figures.

However, market studies show that the number of skiers continues to decline. The purchasing behaviour of most skiers has been influenced by the economy and they have more actively sought out deals or to ski close to home. Some still say that weather and poor snow conditions are the prevailing cause. Winter 2015/16 was the worst season over at least 20 years for Ontario and Quebec, resulting in a depressed national total. Attendance improved in 2016/17 and 2017/18. The snow conditions were generally better all across the country. The latter season, Canadian resorts enjoyed a strong international visitation. Snow, low Canadian dollar and the

<sup>&</sup>lt;sup>39</sup> After 2 operators succeeded each other without investing, the resort fell into bankruptcy at the end of the 1980s and was purchased in 1991 by Intrawest. At that time the world leader in ski resort development, it decided to revitalise the area with billion dollars development plans in several phases that transformed the place into a 4-season destination of international renown. It is today the social and economic engine of the entire region of the Upper Laurentians and part of Alterra Mountain Group.

<sup>&</sup>lt;sup>40</sup> On January 18, 2020, the provincial and federal government jointly announced that the permit had been sold to the Nautre Conservancy of Canada and returend to the government to allow the Ktunaxa First Nation to manage the area as a conservancy. Essentially, the government bought back the perits in order to stop the construction.

inclusion of Whistler Blackcomb on the Epic pass were all factors. The ascending trend went further with the 2018/19 winter season, which recorded the highest visitation total in more that 10 years. This performance was aided by several favourable factors which included snowfall, good internal economic factors, multi resorts passes and relatively cheap Canadian dollar compared with other world currencies. Domestic skier visits grew by an estimate 980'000 or 5.8%. This growth largely occurred in the most populous provinces of Ontario and Quebec where solid snow and favourable temperatures helped stimulate interest. International visits grew by only 100'000. US visits now accounts for 56% of the international market. The increase in the number of multi resort passes (Ikon and Epic) combined with the favourable exchange rate to the US dollar were considered to be major factors is this change.



The season 2019/20 presented different regional patterns, before the abrupt closure of the ski resorts by mid-March. In Quebec, the season was mild with good snowfalls and resorts operators expected to perform one of the best season of the last decade. With early closure and average of 25 operating days lost, they ended up with a drop of 8.2% in visitation. In western Canada, where the season is usually expected to last longer, the losses caused by the shortened season are much higher. Attendance figures declined by 20.7%. At national level, it resulted in a global shortfall of 17.1% in skier visits on former season.

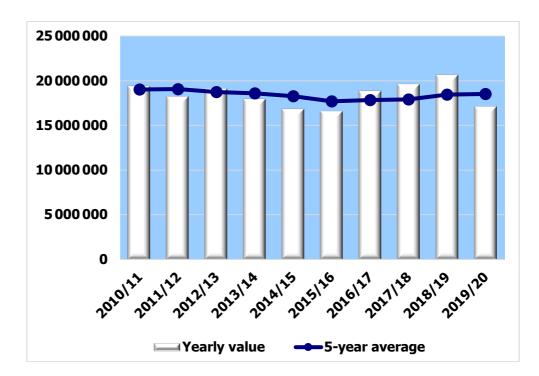
#### **Covid-19 impacts**

Resorts in Quebec and Alberta have been closed down early by provincial government decrees or requests, while those in British Columbia still operated. But

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all ski areas in the province closed down anyway on 21 March 2020.

Whistler Blackcomb confirmed it would not open its glacier for summer skiing in June and July 2020.

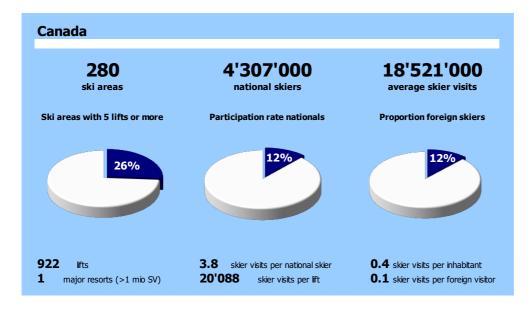


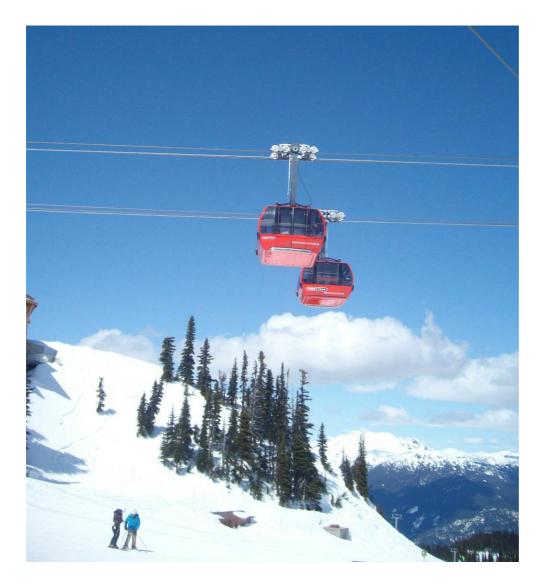
Source: Snowhunter

Figure 28: Canada, evolution of skier visits

Although Canadian ski resorts mostly depend on a domestic and US customer base, it is interesting to stress that some of the well-known resorts, such as Whistler Blackcomb, Banff and to a lesser extent Tremblant, also attract some overseas skiers, even if the proportion of foreign visitors is relatively low. Furthermore, some very small resorts also appear to attract British tour operators. Mont Saint-Sauveur International and Resorts of the Canadian Rockies are the largest multi-resort operators in Canada, with 6 resorts each. Further to the demise of Intrawest, some of its former resorts are now being operated by the 2 large US multi-resorts groups. Otherwise, operators are mostly local.

Due to the ongoing stagnation of attendance, the Canadian ski industry has conducted detailed studies about the demographics, implementing the *Model for Growth*. Several operators have also diversified their activities and some of the major resorts now offer numerous summer activities that enable them to balance out visits for both seasons. The idea of a yearround resort has been highly developed and promoted. Some resorts near metropolitan areas have developed water rides and other such summer activities, which even allow them to use some of the lifts during the summer, as well as to sell year round passes.





### Chile



The Andes run 4'000 kilometres up and down the entire length of the Chile. 80% of the country is covered in mountains, rising to very high altitudes in the north, with year round snow coverage on summits over 4'800 meters high. In the south, after having reached its highest point, the Andes are a bit lower, with most peaks topping out in the 3'000 metre range. Most ski resorts are typically located at these altitudes. Further south, Patagonia offers huge glaciers that plunge into the sea, where several fjords shape the coastline.

The first Andean skiers were already identified in 1887, when investigation work started for the construction of a railway from Valparaiso to Santiago, crossing the mountains into Argentina, from Mendoza to Buenos Aires. With snowfall of up to 8 meters in the high passes, the most efficient way for the European engineers to travel was on skis. Skiing was, for instance, the only realistic way for workers to reach Uspallata Pass, which is near the present-day Chilean resort of **Portillo**.

During construction of the Trans Andean Railroad, skis were then used by engineers to travel around in winter. There are also historical records of skiers hired to transport mail across the mountains in the winter of 1889. Finally, after the inauguration of the railway, in 1910, recreational skiers began to use the railway as a ski lift.

In the 1930s, a rudimentary lift was built in the Portillo area (so called because it was a small pass between the mountains) and adventurers from Europe and North America became the first ski tourists. Ski instructors were brought from Europe and a rustic mountain lodge served as the first hotel. In 1946, Portillo installed a chairlift, the first one on the continent. In 1949, the Gran Hotel Portillo was inaugurated. In 1960 the Chilean government, who had owned and operated the ski area up to that point, decided to sell Portillo, making it one of the first state-owned companies sold to the private sector in Chilean history. In 1966, the World Alpine Ski Championships were held in Portillo, which focused international attention on Chile's emerging ski industry, and also increased national interest in the sport. Over the years, 3 speed records were set on Portillo's slopes, including the 1978 record for US skier Steve McKinney, who surpassed 200

kilometres per hour for the first time in skiing history. During the 1960s, top international ski racers began to train during the northern hemisphere's summer on Portillo's slopes, and then later on in **El Colorado**, **La Parva** and **Valle Nevado**.



During the 1950s and 1960s, the sport expanded rapidly with new ski areas being built in the central Andes near Santiago and in southern Chile, largely on the slopes of volcanoes. During the 1980s, improvements to infrastructure included new ski lifts, increased and better hotel capacity, and improved roads. With fewer tourists than in Europe and the United States, the ski industry in Chile remained relatively quiet until the 1990s. Improvements such as new ski lifts, added capacity to hotels, saunas and swimming pools served to provide Chile's ski resorts with a world-class reputation.

There are 3 principal geographic ski regions in Chile. The Central Chilean Andes, where ski resorts are located between 2'800 and 3'000 meters, on wide-open mountains, above tree line. The snow is generally dry and the terrain varied, providing slopes for skiers and boarders of all abilities. The main resorts are El Colorado, La Parva, Valle Nevado, Portillo, Lagunillas, and Chapa Verde. The already mentioned ski resort of **Portillo** is the oldest in South America. It is surrounded by snowy peaks that rise to 5'000 meters above sea level. The resort has a few odd 5person T-bar lifts, unique in the world. The resort offers 23 runs, features 14 lifts and claims to limit access to only 450 guests, offering a unique experience. Tres Valles, with an interconnect between El Colorada, La Parva and Valle Nevado, is the largest ski area of South America, with a total of 48 lifts and about 120 kilometres of groomed runs. The area, located 40 kilometres from Santiago, tops out at 3'630 meters. In addition, the Valle Nevado base area, nestled at 3'025 meters above sea level, is recognised as the highest in the world.

In the Southern Andes, where the mountains are lower on average, precipitation is much higher, and as a result, there is both more and heavier snow. The resorts are largely located on the lower slopes of volcanoes, many of which are active, and provide terrain with dense native

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forests. The views of lakes, forests, and distant volcanoes are exceptional. The major resorts are **Termas de Chillán**, **Villarrica**, **Antillanca**, **Lonquimay**, **Las Araucarias**, and **Corralco**.



Patagonia offers skiing at **Cerro El Fraile** and at **Cerro Mirador** in Punta Arenas, where one can ski and enjoy spectacular ocean views. Due to the latitude, these resorts have the longest ski season of anywhere in Chile. Cerro Mirador is the southernmost ski area in Chile. It was equipped in 1947 with its first lift, in spite of the fact that it was already considered a ski resort as early as 1938. Still today, the area features one unique lift, but 14 runs, which allow skiing from mid-June to mid-September with spectacular scenery of the Straits of Magellan.

#### **Covid-19 impacts**

Beginning of July 2020, ski areas reported snowfalls of up to 1.2 meters but the government had stated full lockdown, which meant ski resorts could not open. In the early stages of the pandemic, Las Lenas announced that it would not attempt to open for winter 2020 even if the lockdown was lifted before the season started. Its decision was believed to be based on an Argentinian government announcement early on that flights were unlikely to resume until the autumn (spring in the southern hemisphere), the end of the season there. The resort is heavily reliant on air services to bring in its quests. Ski areas in Chile remained closed for a while. Chile was at that time one of the world's 10 worst hit countries in terms of pandemic infections and deaths. The first ski areas in Chile eventually opened on 18 August 2020. La Parva opened on that day and El Colorado on the 19 to pass holders only and with strict pandemic-spread-prevention measures in place. Along with the many restrictions that are now the new normal for ski area operations around the world, one appears unique to Chile - ski areas could only operate on weekdays, not weekends. A third ski area, Corralco, opened for the 2020 season beginning of September.

Source: Snowhunter

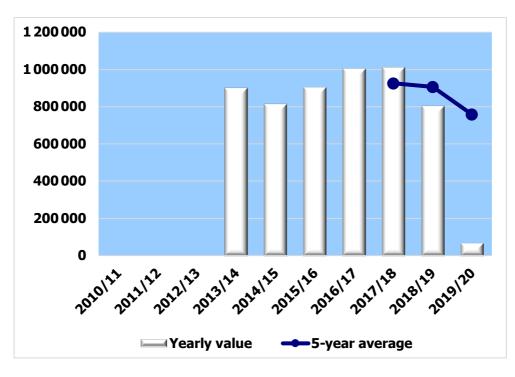
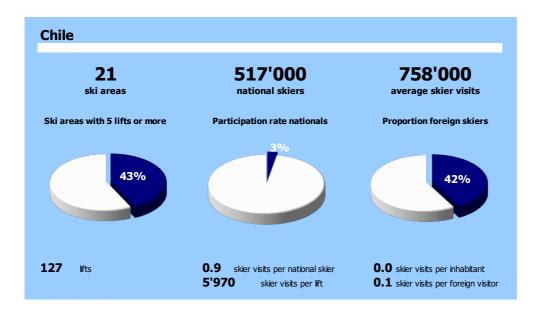


Figure 29: Chile, evolution of skier visits

After 2 goods seasons in 2017 and 2018, 2019 saw a decrease in attendance at the Chilean resorts. With an average length of only 84 days, the season was 17% shorter than former year. Climate conditions were harsh in Central Chile and snowfalls down 29% over former winter. The very strong impact of the pandemic over the whole country led to a very limited opening of the ski resorts in 2020 and depressed visitation figures, about 90% down from former season.





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## Colombia



Colombia offers a wide variety of terrain: it combines flat coastal lowlands, central highlands, high Andes Mountains and eastern lowland plains. Altitudes range from sea level up to Pico Cristobal Colon and Pico Simon Bolivar, both topping at 5'775 meters.

Colombia no longer accounts in the current world ski areas inventory, but it deserves however to be mentioned as it used to host a small lift equipped ski area, despite it has already belonged to

the past for a long time. The idea to ski on the very high slopes of **Nevada del Ruiz**, a 5'305 meters high active volcano of Cordillera Central, already emerged in 1949. This mountain is located in a compact cluster of volcanic mountains near the centre of Colombia and is included in Los Nevados National Park. It is partly covered by a glacier. The ski area was located over 4'800 meters and a T-bar lift was installed in 1956, allowing to host the same year the South American Ski Championships. A second T-bar lift was installed later on and whilst the ski season corresponded to the northern hemisphere winter, there was enough snow there for the lifts to operate on any day of the year, subject to demand.

Skiing in Columbia was driven by a couple of enthusiasts but as no Colombians succeeded in international (or national) competition, interest warned rapidly and the lifts fell into disrepair by the late 1970s. Later on, it is reported that the lift cables were partly buried in glacial ice. The volcano had a major eruption in 1985 and more than 23'000 people were killed<sup>41</sup>. Following that eruption, the mountain remained continually active for several years, melting down part of the glacier. Eruptions culminated in 1991 and 1992. The last eruption dates from 1996.

Even if accessibility is sometimes restricted due to seismic activity, Nevada del Ruiz remains a popular climbing area in Colombia, as well as a popular unorganised ski spot in winter. Some parts of the glacier and snow still remain on the mountain year-round, even if they are expected to melt down over the next 30 years.

<sup>&</sup>lt;sup>41</sup> The 1985 eruption was the world's second most deadly eruption in the 20<sup>th</sup> century, the first being the 1902 eruption of Mont Pelée, which killed 29'000 people.

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# Mexico



Mexico contains several mountain ranges. The Sierra Madre Occidental Sierra and the Madre Oriental run from north to south along the western and eastern sides of the country. The Mexican highlands (Altiplano) range between 1'000 to 2'000

meters elevation. From the Pacific Ocean to the Gulf of Mexico runs the 900 kilometre long Trans-Mexican Volcanic belt, the Cordillera Neovolcanica, which marks the geological divide between North and Central America. The Cordillera Neovolcanica features the country's 3 highest volcanic peaks, all over 5'000 meters. At 5'675 meters above sea level, Pico de Orizaba (Citlaltépetl) is the third highest mountain in North America.

Snow can be found in winter on the high peaks of the Sierra Madres, as in other places in the Northern Altiplano. There are even some remaining glaciers on the 3 highest peaks<sup>42</sup>, where mountain aficionados sometimes enjoy skiing after their mountaineering endeavours.

Skiing is nevertheless not very popular among Mexicans. There is only one small ski area in the north, named **Monterreal**, close to the city of Monterrey. It is a 4-season leisure centre, equipped with 2 dry slopes (230 and 45 meters long), one platter-lift and one magic carpet. However, between December and January, it is possible to ski there on the natural snow that covers the area.

Despite the significant population of the country, there seems to be very few people who actually ski, as there is no ski culture. The closest destination for Mexican skiers is of course the United States. However, there is in fact no report of important figures of Mexican skiers, among the half million of people that come every year to ski in the United States (most of them are Canadians).

<sup>&</sup>lt;sup>42</sup> Due to volcanic activity and the associated rising temperatures, PopocatépetI is now off limits to climbing and its snowfields are slowly disappearing.

## **United States**



With a territory as large as Europe, the United States represents one of the world's largest ski markets. Beside the Rocky Mountains Range, reaching altitudes higher than 4'300 meters in Colorado, there are numerous other mountains throughout the country. Located in the State of Alaska, the highest summit, Denali, also known as *Mount McKinley*, its former name, reaches 6'144 meters above sea level. Only a dozen of the 50 States do not offer ski areas. The east part is subject to polar winds in winter and ski areas can be located in low altitudes. On the west part, resorts are located at higher altitudes, with some base areas over 3'000 meters<sup>43</sup> and reaching up to 3'914 meters above sea level with the highest lift in Breckenridge ski resort. This enables some ski resorts like Arapahoe Basin to offer one of the longest ski season in the world, for non-glacier resorts, with opening in October and closing in July.

Ski has a long history in the United States. The sport was obviously brought in by Norwegian immigrants, who founded the first ski club in 1882 in New Hampshire. The National Ski Association was founded in 1905 and a ski factory already existed in 1911. **Howelsen Hill Ski Area** already opened in 1915 in Colorado and the first rope tow was installed in 1934 in **Woodstock**, Vermont. United States accounted already more than 50 ski areas before World War II. The first Winter Olympic Games in America were held in 1932 in **Lake Placid**. However, at that time, downhill skiing was still not introduced as an Olympic discipline. In 1936, **Sun Valley** opened and installed the first chairlifts in ski history. The first aerial tramway in United States was installed 2 years later at New Hampshire's **Cannon Mountain**. The first destination resorts already appeared before World War II: **Stowe** and Sun Valley were the forerunners.

There has later on been a big boom in the development of ski areas in the 1950s to 1970s. From 78 ski areas in North America in 1955, the figure

<sup>&</sup>lt;sup>43</sup> Arapahoe Basin, Loveland, Silverton Mountain, Santa Fé, Monarch, Wolf Creek, Cooper ...

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increased of 580 in the next 10 years. However, contrary to the Alps, new ski areas went on appearing even after the 2000s, even if it is in numbers that are more limited. Nevertheless, due to closures and other misfortunes, the number of ski areas has been steadily decreasing over the years. At the beginning of the 1980s, there were over 700 ski areas in the country, whereas there are less than 500 ski areas still in operation today. The rising infrastructure costs, coupled with the always-increasing expectations of the clients drove several small community ski hills out of business. The adverse consequence is that several convenient and inexpensive places for ski learning disappeared, diminishing easy access opportunities for beginners.

In the 1950s and 1960s, participation in skiing grew at 15% annually, meaning that the sport was doubling in size every 5 or 6 year. This development was driven by demographics and its massive adoption by baby-boomers. In the 1960s, average age of downhill skiers was reported to be 24<sup>44</sup>. The first snowmaking equipment was tested in winter 1950/51 at **Mohawk Mountain** and by 1964, 140 ski areas in North America were able to produce snow. The real estate driven development of ski resorts started with **Snowmass** (next to **Aspen**) in 1967. By the time, few ski area operators were willing to invest lots of money to build inns and hotels. The solution to extend the offer for accommodation came with the condominium units, which were sold to individual owners and rented out when not occupied.



The industry is currently dominated by 2 big players, operating several mostly integrated resorts. These giants have been growing in size by new acquisitions over the last years, with some billion dollars recent deals. Vail Resorts (which recently acquired Peak Resorts) operates 37 resorts (4 of

<sup>&</sup>lt;sup>44</sup> It now reaches age of 34, according to Kottke End of Season and Demographic report 2019/20.

which outside the US) and Alterra Mountain Company<sup>45</sup> operates 16 resorts (2 of which outside the US). Together with Boyne Resorts and Powdr Corporation, they cumulate nearly 50% of US skier visits. Some of the larger players are listed companies. In addition to smaller groups, there are numerous independent ski areas of varying sizes.

The largest ski areas in the United States, based on visitation number, are **Breckenridge**, **Copper Mountain**, **Keystone**, **Mammoth**, **Park City** and **Vail**. Most of them are located in Colorado (one left in Utah and one in California).

Aside from the 2008 crisis, weather conditions have shaped, more than anything else, the change in skier visits over the years. Their pattern throughout the decade reinforces the trend of a mature market since the end of the 1970s. After the 2010/11 winter posted an all-time record of 60.5 million skier visits, attendance entered into a declining trend, until winter 2018/19 showed a reversal. With 59.3 million skier visits, it was up 11.4% from 2017/18. This result represented the fourth best season in the past 41 years. Projections for visitation in 2019/20 were also excellent and were expected to reach similar level. However, due to the early closure forced by covid-19 pandemic (93% of the ski areas closed early), skier 2019/20 skier visits ended 13.9% down to 51.1 million.

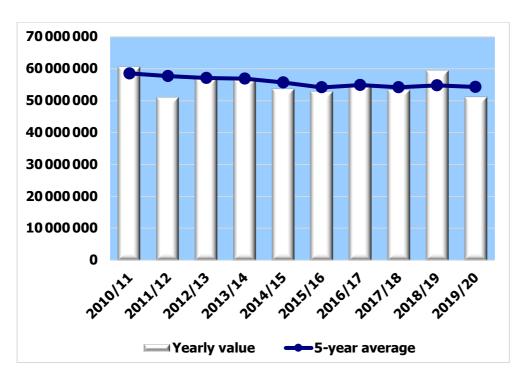


Figure 30: USA, evolution of skier visits

Small resorts were less affected by the early closure than larger ones. This was obviously reflecting their different customer mix and vicinity to large metropolitan areas. The season pass sales pursued their growth, with a

<sup>&</sup>lt;sup>45</sup> A joint venture between Henry Crown & Company (owner of Aspen) and KSL Capital Partners.

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45.5% share in skier visits (34.7% in 2009/10), overtaking for the first time the share of daily/multi-day tickets.

### **Covid-19 impacts**

In the US, most resort closures were corporate decisions rather than a state decision. It happened in a progressive way. Not all the resorts closed in the same time. The large operators started closing and they were soon followed by the smaller ones. Vail Resorts originally suspended operation of its resorts from 15 March 2020 to 22 March. However, it announced on 17 March that the closure was indefinite. In fact, it ended the season and Vail Resorts' operated lodging properties were closed on 20 March. On 18 March 2020, the number of ski areas in the Western North America that were still open was falling fast but some were still open.

Several US ski areas in the state of Oregon re-opened in early May after the state's governor signed an executive order allowing them to do so. Arapahoe Basin was the fourth US ski area to re-open, more than a month after Mount Baldy in California and nearly a fortnight after Mount Bachelor and Timberline in Oregon.

Source: Snowhunter, saminfo

The ski industry in the United States has been the most closely analysed ski industry over the years. There is a substantial history of statistical data available, already since early 1980s. It was the first in the industry to raise issues in the discrepancies between population growth and skier visits, especially since it primarily depends on domestic skiers. In spite of its huge population, the actual yearly participation rate is low. The number of active snow sports participants<sup>46</sup> was estimated to 9.2 million active skiers and snowboarders in 2019/20. Active snow sports participants represent only 2.8% of US population nowadays. They were still 3.2% in winter 1996/97 and some consider that the decline in the number of young people entering the sport already began in the 1970s. To address demographics, the US ski resort industry closely monitors the yearly results of its Model for Growth. This aims at addressing the aging population, the increasing proportion of minorities and skier retention rates (increasing beginner interest, converting them into lifelong skiers and preventing regular skiers from abandoning the sport). For several years now, measures have been taken in order to implement this Model for Growth, even if some drawbacks have arisen and the US ski industry continues to have difficulty in growing its customer base. The results show that continuous efforts are required and their benefits are limited, so they need to be multiplied. With a market as big as Europe but only one third of the number of skier visits, the US industry still appears to have some potential.

Another issue that the US ski industry is facing is the increasing prices, paid by a declining number of customers. The window price of daily lift ticket rose from an average of USD 59 in 2005/06 to USD 132 during the 2019/20

<sup>&</sup>lt;sup>46</sup> Participants who participated in a snow sport at least once during the given season. This rate is of course much lower than the number of nominal participants (see Glossary). It is estimated that about 25 million people in the United States know how to ski (nominal participants).

season<sup>47</sup>. In some Colorado resorts, it is now usual that the daily window price reaches over USD 200 on peak days. Average daily rates in accommodations in the western resorts also rose from an average 30% since 2009/10. This tends to make skiing less affordable, and especially to beginners, who usually purchase daily passes, the less discounted tickets. In an overall, the business model of the large US resorts can be summarised as trying to get always more money from always less customers. The question is to know if it will still be sustainable for a long time.

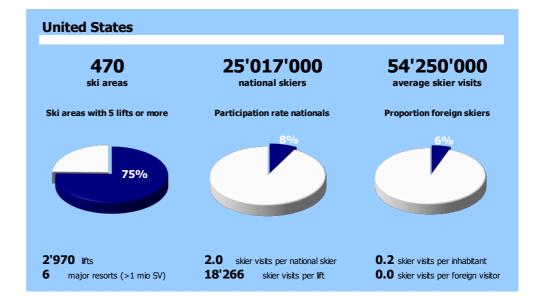


The spreading of the *mega-passes*, discounted multi-resorts season passes that are sold in advance of the season, only offers part of the answer to this important issue. Although they have gained much popularity and Vail Resorts announced more than 1 million Epic passes sold for 2019/20 season, with some offers focused at less frequent skiers, one can doubt that real beginners will invest in a more affordable multi-day advance purchased ski pass when they have no clue if they will enjoy their first trial<sup>48</sup>. Therefore, it looks that with the *mega-passes*, US ski industry managed to make existing skiers skiing more often, but still failed at bringing in new skiers.

<sup>&</sup>lt;sup>47</sup> Even if yield per lift ticket did not increase that much, rising from USD 31.94 to USD 57.91.

<sup>&</sup>lt;sup>48</sup> In addition, the US ski industry, which is one of the best informed in the world, through regular surveys of customers' behaviour, already identified that the conversion rate of beginners is lower than 20%.

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# **Asia-Pacific**

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With more than 3 billion inhabitants, this region is by far the largest potential market. It combines countries with a long ski history and others that are still completely novice to the industry. Despite the fact that some countries will remain mostly unreached by the industry over the next decades, some others have demonstrated over the last 15 to 30 years a considerable potential for development. This has compensated for the decline or stagnation in attendance of the more traditional markets of the region.

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# Australia



The geography of Australia is extremely diverse, ranging from snow-capped mountains in the south tropical to large deserts, and forests. temperate The country culminates at 2'228-metre Mount Kosciuszko, in the southeast.

Even if there are other mountain ranges of lower altitudes throughout the country, the local climate does not allow for snow sports. Downhill skiing and snowboarding thus primarily take place at 10 resorts in the states of New South Wales and

Victoria, in a region called the Australian Alps, located between Melbourne and Canberra. There are also 2 small ski resorts on Tasmania Island, located in National Parks, where snowfall is not always sufficient to enable skiing every year.



Skiing already has a long history in Australia. Miners are said to have started skiing in the 19<sup>th</sup> century. Records indicate that they founded the first ski club in 1861. The 1920s saw an explosion of winter sports. The industry organised and Australia's first ski lift started operating in 1937. Onslope lodging facilities remained limited through the 1950s. Then skiing became more popular and resort development increased, with strong influence from the United States, Canada and Europe. However, some ski areas are located in Natural Parks and their expansion has been under tight control. The boom of the ski industry lasted through the 1970s and then entered a consolidation phase, with skier visit figures flattening. They have been rather stable for the past 10 years, with occasional good years, alternating with average and poor years. 2018 and 2019 seasons saw increasing visitation figures.

The Australian ski industry had an excellent 2018 season, with 2.4 million skier visits recorded. This was a record, exceeding the previous best of 2.3 million skier visits reached in 2012. Australia was blessed with good quality natural snowfalls throughout the season, making for good skiing conditions from start to finish. 2019 season experienced less favourable snow conditions, with snowmaking proving essential for certain periods of the season<sup>49</sup>. In 2020, the southern hemisphere winter was severely affected by covid-



19 issues. Australia had a winter of mixed results. The New South Wales resorts managed to operate (with capacity constraints) from late June through to end of September, despite all Australian State borders being closed for the duration, and despite one of the leanest snow fall seasons on record. The Victorian resorts were heavily impacted by severe State Government lockdown measures, with Mount Hotham and Falls Creek operating for only 5 days. Mount Buller managed to operate for 44 days but operations and visitation were severely curtailed due to the travel restrictions and lack of snow. Despite Australian resorts have decided not to share national visitation data this year, one can estimate that the season's visitation was about 65% down from former one.

#### **Covid-19 impacts**

Mt Buller, Mt Baw Baw and Thredbo aimed to open on 22 June 2020, whilst Perisher, Falls Creek and Hotham (all owned by Vail Resorts) set opening on 24 June. The Australian ski season traditionally begins on the Oueen's Birthday long weekend, which includes a Monday public holiday, on 8 June 2020. Therefore, opening was 2-3 weeks later than it would have been without the pandemic. Operations were subject to pandemic restrictions, which included about half the usual number of people allowed on the slopes, social distancing requirements, facemask wearing and increased hygiene measures along with 1010 other things. Beginning of July, all of the main ski areas in Australia were open, a month after the pre-pandemic planned season start date, which would have been 6 June. However, 2 of the 4 main ski areas in the Australian state of Victoria (Hotham and Falls Creek) have closed just a few days after their delayed winter 2020 opening, but 2 others have decided to stay open, while the region suffered an increased number of virus cases. They were ordered to close by 6 August. By end of September, Perisher was still open, but most other resorts closed due to end to the season or virus issues.

Source: Snowhunter

<sup>&</sup>lt;sup>49</sup> The Australian ski industry is now far less reliant on natural snowfalls than ever before, with all resorts investing in the very latest in snowmaking technology and ressources. As a result, all resorts managed to commence operations on time and remain open until the scheduled end of the season, with some resorts extending operations beyond.

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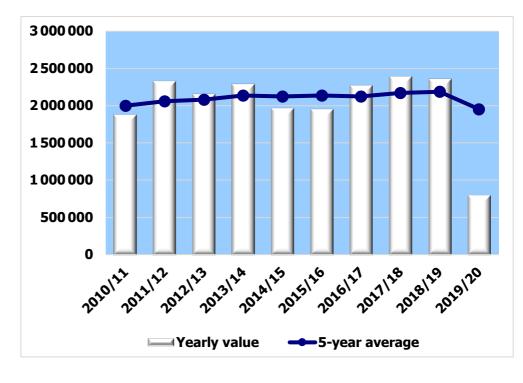


Figure 31: Australia, evolution of skier visits

There is a very high level of interest in Australia's Alpine resorts at present, with strong visitation coming from a wide range of customers. Australia has a strong immigration program, which in effect creates a whole new emerging market within its own borders. Many *new Australians* come from countries with no snow and no winter culture. These people are very keen to experience snow and *have a go*. This market is embracing snow tourism and flocking to the Alpine resorts, particularly on weekends. A number of Australia's resorts are experiencing capacity issues in some areas of operations as they strive to convert snow tourists into ski/snowboard enthusiasts. These are problems the industry is mostly pleased to be dealing with. Australian resorts are now adjusting to this large influx of new customers and hope to work with governments and other stakeholders to provide tailored facilities for every customer group.

**Thredbo**, built on the European ski resort model with its shops, nightlife and accommodations, is an example of the kind of resorts that exist in Australia, with 50 runs served by 14 lifts. The resort also offers the longest run in Australia, 3.2 kilometres long with a vertical drop of 670 meters. Thredbo is located on the slopes of the highest mountain in Australia, in the Southern Snowy Mountains. Another example is **Perisher Blue**, located in the Snowy Mountains of New South Wales. This is the largest ski resort in Australia, with 4 villages (Perisher, Smiggin Holes, Blue Cow and Guthega) and 7 summits (including 5 of the highest in the country) served by 49 lifts. There are 99 kilometres of runs for all levels, but 60% are intermediate.

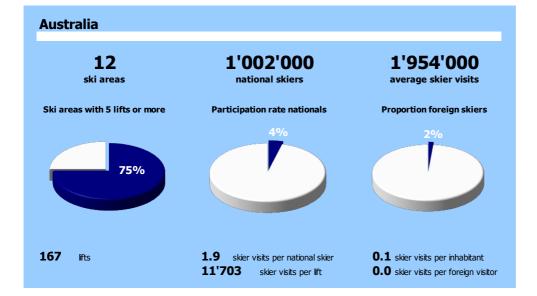
Apart from this big resort, most of the ski areas are rather small with limited vertical drop. Most areas have snowmaking capabilities. Some

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resorts have a vibrant nightlife, but they are perceived as expensive and even luxurious.

With foreign visitors representing less than 2% of skier visits, Australian resorts are clearly not very appealing to international customers, since New Zealand offers a close alternative with much greater vertical drop, lower prices and at least as much fun. It even competes for domestic customers, who in part also prefer to go skiing in New Zealand. Besides New Zealand, Australia is also an important outbound skier market for Japan and South Korea.





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China

Two thirds of China is covered by mountains. As the country has boundaries with Nepal and Pakistan, China shares with these countries 11 of the 17 highest peaks in the world, including Mount Everest and K2. In addition, it has also one summit over 8'000 meters above sea level exclusively on its territory (Mount Shishapangma, 8'027 meters). 40% of



China lies above 2'000 meters, mostly in the western part of the country. Mountains in the eastern part are much lower, with top altitudes limited to 2'600 meters above sea level.

Skiing is not new at all in China, even if it looks that modern skiing only became popular since the early 2000s. In fact, skiing is very likely to have been invented in China. Skis were used already thousands years ago by hunters in the Altay Mountains. Petroglyph paintings showing skiers have been found there and experts agree to date them more than 10'000 years ago. It would be from the Altay cradle that skiing was then exported to Northern Europe, Russia and other places<sup>50</sup>. Long and wide traditional wooden skis are still

currently used in the Altay Mountains. They have their base covered with animal skin, which allows for both climbing and sliding downhill in the very cold and powder snow that uses to cover the ground during the winter.

Modern skiing and snowboarding practice started in the northeastern part of the country, in the Harbin region, which still contains most of China's ski areas, but where temperatures can be extremely tough. The first ski areas emerged in the 1980s, mostly designed for training ski racers, with usually only one slope and poor accommodations. Since **Yabuli** was awarded the 1996 Asian Winter Games, interest in skiing has developed quickly. Besides

<sup>&</sup>lt;sup>50</sup> Rock paintings picturing skiing hunters were found in Altay in 2005. The International Ancient Skiing Cultural Forum held in January 2015 in Altay gathered international experts that agreed together that Altay was the oldest skiing region in the world.

building the necessary infrastructure to host the Games, ski areas suddenly began to develop around major cities. The defunct ski area of **Saibei** pioneered Chongli region in 1996. It was developed by a few enthusiasts of winter sports, with rudimentary means. It brought appetite for skiing and later on the **Wanlong** ski resort opened in 2003. The pace of growth also increased in the 2000/01 winter, when the first snow stadium near Beijing was built.

With the boost of winter sports triggered off by 2022 Winter Olympics, ski areas are now blossoming in nearly all Chinese provinces, up to the south- west. Only in 2019, 28 new ski areas opened, bringing the total to 770 ski areas. Most are



still poorly equipped and are rather ski fields for beginners, only equipped with one or a few magic carpets. Only 25 approach Western standards, but often without accommodations and only a limited number can be considered genuine ski resorts. However, in recent years, this restricted circle has been growing by one unit yearly and now includes **Beidahu**, **Cuiyunshan** (also known as Galaxy), **Fulong**, **Genting Resort Secret Garden**, **Songhua Lake**, **Thaiwoo**, **Wanda Changbaishan**, **Wanlong** and **Yabuli** ski areas. Soon a few other new 4-season destinations will join the group. There are also 31 ski-domes (mostly in the Beijing and Shanghai regions) and 24 snow stadiums around Beijing with 100% snowmaking and a maximum vertical drop of a few hundred meters. Attendance at these indoor ski centres is included in the national skier visits data below.



Over the last years, the market for ski simulators has been growing and 140 venues offer such equipment, mostly in Beijing, Shanghai and Guangdong. Dry slopes are also offering another option for beginners to practice and the number grew from 2 in 2012 to 45 in 2019. It is estimated

2021 International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 – *PRIVILEGED COPY*  that these facilities generate now a yearly 1.1 million visits (not included in attendance figures in the chart below).

## **Covid-19 impacts**

Chinese ski areas have ceased operations since 24 January 2020. Ski resorts that were ready to greet the Spring Festival holiday visitors suddenly had suddenly to shut down. Tens of thousands of families who had made their reservation at ski resorts had to cancel their trip. For most ski areas and skiers, the 2019/20 ski season come to a sudden end. Not all resorts closed exactly at the same time, but soon, all China was locked down.

Top events such as the Alpine Skiing World Cup, X Games Chongli, and the 14th National Winter Games of the People's Republic of China have all been postponed. In addition, ISPO Beijing 2020 has been cancelled.

Some ski areas and skidomes in parts of China less directly impacted by the virus re-opened in late February or early March in some cases. Wanlong began soft reopening in early March and extended its season until May. Beidahu was also one of these but for a limited period, as many Chinese ski resorts end their seasons anyway in the latter half of March as the snow melts.

Source: China Ski Industry White Book 2019, Snowhunter

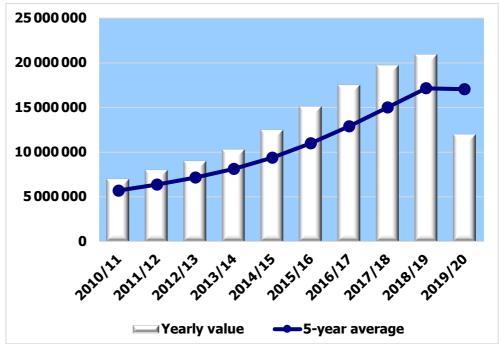


Figure 32: China, evolution of skier visits

Growth in attendance has been dramatic since 2000 and boosted since 2015 by the awarding of the 2022 Winter Olympics, which has generated further enthusiasm for skiing. The last few winter seasons experienced considerable growth, with the 20 million skier visits mark reached during winter 2018/19 and visitation expecting to rise further. It therefore seems

<sup>2021</sup> International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 - *PRIVILEGED COPY* 

that China will very soon rank among the big players of the industry, even if this has been slowed down by the pandemic. During the 2019/20 season, Chinese ski areas were the first to have to close down, but they were also among the first to reopen. Nevertheless, visitation lost about 43% over former winter.

The number of skiers in China is also growing quickly. It is currently estimated to be above 13 million. At this stage, the market potential mostly remains untapped. It was estimated at 27 million skiers by the UNWTO in 2003, revised to 120 million in the plans of the Chinese government to encourage winter sports (share of skiers in the global plan aiming to have 300 million Chinese participating in winter sports). Support from the government seems very strong. However, when this figure will be reached is still anyone's guess, even if it is likely that after 2022 Olympics, there may be more than 1'000 ski areas in China and 40 million skier visits.

Ski culture is not widely spread. Most Chinese skiers do not ski more than once per season and 80% are beginners. Some ski areas even have paid employees to help skiers get up after they fall and to retrieve their equipment! Most ski areas offer packages for 2 hours of skiing, including ski

gear. Skiing is often consumed as a kind of entertainment product rather than a sport that requires repeated practice. For the time being, ski areas are considered more as ski playgrounds than as mountain resorts, and onetime skiers account for a considerable portion of skier visits. Skiing is nevertheless becoming more and more popular among Chinese between the ages of 25 to 35. About 80% of the skiers are under 40.

A big challenge facing the ski business in a market such as China is the learning process. As various foreign surveys already pointed out, the first ski experience is often very disappointing for first-time beginners, with extremely low return rates. Unfortunately, ski areas crowded by uncontrolled beginners do not offer ideal conditions for a good learning experience. On top of this, the traditional alpine ski teaching methods are mostly designed for skiers staying for one week at a ski resort and may not be the best adapted for the current Chinese consumption pattern. The industry needs to quickly develop a suitable ski-teaching curriculum in order to be able to capture this huge market potential and not drive it away from skiing for good.

Among the destination resorts, one of the oldest and most well known in China is **Yabuli**, in the Heilongjiang province, near Harbin. It has been brought close to European and Japanese standards in terms of infrastructure quality, with the interconnection of the 3 mountains, offering 46 runs. Some of the accommodations are now managed by a well-known international hospitality & leisure operator. Located in the far Northern China, temperatures can be frigid. Heilongjiang accounts numerous other resorts. However, despite the province was at the origin of development of modern skiing history in China, Hebei and Jilin provinces are now





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experiencing a quicker development, when measured to attendance figures.

In Jilin province, **Wanda Changbaishan** is one of the most modern and state of the art in China. It is comparable to modern resorts in North America. It offers a combination of hot springs and snow. The resort has views of 16 peaks in the Changbai Mountains. It is located at an altitude of 800 to 1'206 meters above sea level and was built in only 23 months. It features state of the art lifts and slopes, with an emphasis on a lively base village and comfortable accommodations: it offers 5'700 hotel beds

under management contracts by international brands and another 1'200 rented apartments. Recently 2 other big ski resorts opened in the region, one is **Changbaishan Luneng** and the other is **Changbaishan Tianchixue**. The distance among these three ski resorts is less than 90 kilometres.

**Beidahu** is also located in the Jilin province. It is surrounded by mountains with summits over 1'200 meters that are covered in snow for half of the year. It offers one of the highest vertical drops in China and received recently the addition of a large accommodation facility operated by an international group. It is close to Vanke Group's **Songhua Lake** resort, featuring a 5-star hotel and state of the art detachable lifts, with heated seats. Vanke also manages 2 other ski areas, **Shijinglong**, near Yanqing and **Beijing Xishan**, a family friendly urban ski area in Beijing, only 2 kilometres away from the 16 metro line<sup>51</sup>.

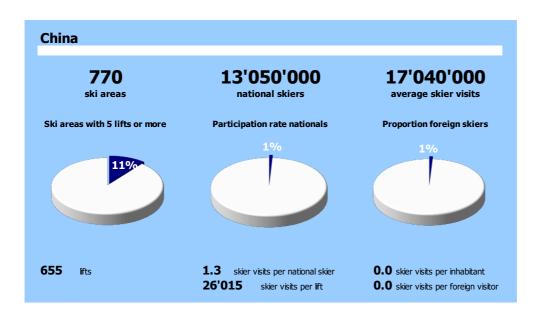
Close to Beijing, about a 3-hour drive northwest, in Hebei province, the city of Chongli<sup>52</sup> seems to develop into the ski capital of China. The already well established resort of Wanlong (improving every year its infrastructure, now including detachable chairlifts and combined chair / gondola lifts called there chondolas, all Chinese-made), was quickly followed by the development of Genting Secret Garden, where the freestyle competition of the 2022 Winter Olympics will be held. The resort of Thaiwoo opened not far away for winter 2015/16, featuring a North American like village base. A further state of the art resort was opened in December 2016 by the **Fulong** Group, just next to the city. It was followed in December 2017 by Cuiyunshan-Galaxy ski resort, featuring also hotels and real estate development, and there are still other ski areas projected in the neighbourhood. With the opening of the new 1-hour high-speed train link between Beijing and Chongli in December 2019, the further development of Taizicheng Village at the heart of the Chongli Olympic venues, the place is continuously consolidating its role of a major winter sports cluster in China.

<sup>&</sup>lt;sup>51</sup> Vanke Group Ice & Snow Business division has also 2 other ski resorts projects moving forward. Xiaohaituo, which will become the Alpine Centre of 2022 Beijing Winter Olympics and a new ski resort project in Chongli named Hanhailiang. <sup>52</sup> Part of the Zhangjiakou area



In the south-west, the mountains are much higher. Dagu Glacier Ropeway, installed in 2008 in the Sichuan province, is the highest gondola in the world (despite it is not considered as a ski area). The summit station is located at 4'860 meters! **Xiling Snow Mountain**, in the same province, currently features a gondola lift and several 2- and 4-seater chairlifts. Surrounded by mountains more than 5'300 meters high, the resort represents the largest ski area in Southern China. Ski areas are also being developed even more southern, in Yunnan, Guangxi and Guizhou provinces. In the latter, for instance, the city of Liupanshui opened **Plum Blossom Mountain International Ski Resort**, a ski area located at latitude of 26.6 degrees. There is also a project of ski area for Lhassa, capital of the Tibet autonomous region, which has an average altitude of 4'500 meters above sea level.

Because of the natural conditions, Xinjiang province in the north-west offers quite good snow quality. **Silk Road Ski Resort** is 38 kilometres away from Ürümqi city and **Jiangjun Shan** just next to Altay city. **Altay Powder Park** is located in Kelan Grand Canyon and has the first heliskiing program in China. There are currently other plans to develop skiing in the Altay Mountains.





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# India



Northern India is a mountainous region with several peaks over 7'000 meters high. Skiing was introduced there by Europeans in the early 1970s and has become increasingly popular with foreign skiers. Even if some Indians love skiing, most are not yet familiar with the discipline. Operators are beginning to develop more modern ski areas, which are also among the least expensive in the world.

Skiing takes place in the Manali Valley, located in the State of

Himachal Pradesh, in northwestern India. This region, in the foothills of the Himalayas, concentrates most of the country's few and limited ski areas. The lift infrastructure remains modest, but some rise to impressive altitudes, as the region is located between 4'500 and 7'000 meters above sea level. There is also skiing in Kashmir, a neighbouring region of the Himachal Pradesh. This region of the Indian subcontinent is still disputed territory between India and Pakistan, giving rise to armed conflict from time to time, which may cause access restrictions in some places.

There are 3 acknowledged ski areas in the country. The largest one is **Gulmarg**, in the State of Jammu and Kashmir. It is one of the most famous in this region of Asia. Runs range from 2'600 to 3'200 meters long. The ski area was equipped a few years ago with a 2-section gondola, famous for carrying skiers to an altitude of nearly 4'000 meters above sea

level at its top station. A quad chairlift at the same highaltitude was recently added, making it the highest in the world. The area offers more than 1'000 meters of vertical drop, with pristine slopes. The village of Gulmarg lies at 2'500 meters above sea level. The base area sits below the 4'124 metre Mount Apharwat. This gives the place a magical feel for skiers. The resort is one of the few places on Earth where there may be 2 continuous weeks of snowfall. Furthermore, it offers a variety of runs: skiers will enjoy the high slopes of Aparwath, which offer magnificent views of K2 during good weather, or the runs in Kongdori. The best time to come to Gulmarg is from mid-January to mid-February, especially for skiers looking for a balance between a stable snowpack, combined with the powder snow down to Gulmarg, in the valley.

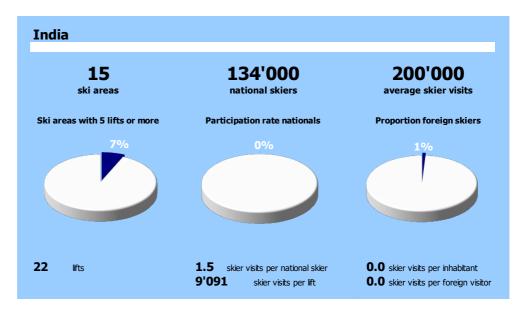
**Auli** is the most select resort in India, offering the best possible infrastructure. It hosts the Indian national ski Championships and an Indian ski festival. It is nestled in a



2021 International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 – *PRIVILEGED COPY*  collection of snow covered Himalayan peaks (the Garhwal Mountains). Auli offers 2'000 meters of slopes, equipped with lifts.

The ski area of **Manali** is located at the northern end of the Kullu Valley. It is best known for heliskiing but also operates a few lifts. It has a multi-season sports offering.

The country's other ski areas usually have only one lift. The small **Kufri** ski area is nestled in the hills of Himachal Pradesh. It is one of the best destinations for skiing in this state and a destination easily accessible for anyone in northern India. This quiet town becomes a winter paradise as soon as the snow begins to fall. Kufri is home to an annual festival of winter sports in February. **Narkanda** resort is located 65 kilometres from Shimla. At 3'143 meters above sea level, it is one of the oldest resorts in India. The ski season is concentrated between late December and early March. Narkanda offers beautiful landscapes and splendid views of the Himalayas. **Dayara Bugyal** is another ski area, located at an elevation of 3'050 meters.



### India Announces Small New Ski Area

The completion of a major tunnel through the Indian Himalayas appears to have sparked plans to develop a small new ski area in India.

The tiny Tiling Village, population 35, located 2 kilometres from the north end of the new tunnel in the previously remote Lahaul Valley in the Himachal region is in line for an investment of the equivalent of around EUR 250'000, which would see three surface lifts installed initially. The main lift will be 550 meters long according to local reports.

The new 8.8 kilometres long Atal tunnel, located 3'000 meters above sea level, connects Manali and Leh. It shortens the 474 kilometres distance between Manali and Leh by 46 kilometres and cut the 8-hour journey time by 2.5 hours.

Source: Snowhunter

# Japan



Japan is one of the countries with the highest number of ski areas. Resorts are located all throughout the Japanese islands, from the northern island of Hokkaido to the main southern island of Kyushu. Almost the entire population is only a couple hours away from a ski area. With its high number of inhabitants, this represents a huge potential.

The Japanese ski industry experienced a tremendous boom in the years from 1970 to 1990, when skier visits

showed record figures and the number of active skiers reached over 18 million in a season. They are estimated around only 8 million nowadays<sup>53</sup>. In the 1980s, resort development was extraordinary, with several new, expanded or fully rebuilt ski areas. The country offered the finest and most modern facilities in the world. Skiing became very fashionable, and the most popular sport among young people. The resorts were busy and crowded to such an extent that it was sometimes difficult to actually ski! There were long lift lines and crowded slopes. This surely contributed to skiing becoming less appealing. Furthermore, Japan experienced a significant economic downturn at the beginning of the 1990s and real estate was affected. Many resorts had difficulty financing their huge investments. Skier visits began to decrease significantly.



<sup>&</sup>lt;sup>53</sup> Skiers having actually skied last season.

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In the past, Japan was also the country with the most indoor snow centres and the world's first such centre (the first one opened in 1959). However, in recent years, several of these facilities have closed. This seems to be a further sign of the loss of interest in skiing.

#### **Covid-19 impacts**

Japan was one of the world's largest ski nations to carry on skiing through the coronavirus pandemic. Its government did not see a need for a full shut down of ski centres, or most other public places including most schools, shops or restaurants.

In the northern area of Hokkaido, home to several of the country's most famous resorts, a state of emergency was declared in late February but it was lifted a few weeks later when the number of cases there started to decline, having never really got that high. Foreigners arriving in the country were quarantined and the Japanese authorities have keep a close eye on those confirmed to have the virus, rigorously testing everyone they have come into contact with, and appeared to have the spread under control.

Source: Snowhunter

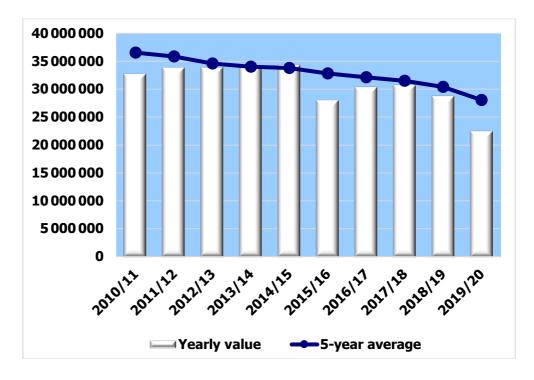


Figure 33: Japan, evolution of skier visits

Skier visits currently hardly reach 30 million per year, less than half of what they were in the 1980s. After a succession of seasons with decreasing attendance, the situation seemed to have stabilised, despite in the season

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2015/16, riders counts decreased 18% due to warm weather conditions (Japanese resorts feature a lower equipment level in snowmaking than the Alpine region, with 65.8% of ski areas having no snowmaking). After this season that was one of the worst for 50 years, season 2016/17 did however not show a full recovery. Neither did 2017/18 and 2018/19 was down again. 2019/20 was for many Japanese ski areas the worst winter in their histories for snowfall, with predominantly warm weather for much of the autumn and winter meaning some receiving little or no snow all season. Despite the pandemic did not bring much restriction on the ski resorts operation in Japan, the season ended with visitation 21.7% down on former winter.

The Prefecture of Hokkaido is however showing a distinctive trend. With very favourable snow conditions, it was not affected by the overall decrease in visitation during recent seasons and attendance even shows a move upwards. However, it may still take time before Hokkaido recovers the 7 million skier visits it had at the beginning of the century<sup>54</sup>.

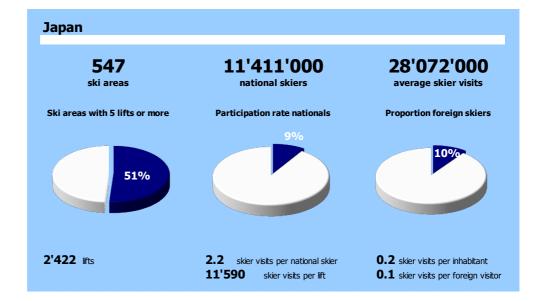
The largest ski areas in Japan are mostly in Hokkaido Prefecture, Nagano Prefecture and Niigata Prefecture. Hokkaido Prefecture hosts **Niseko United** (Niseko Annapuri/Niseko Grand Hirafu/Niseko Hanazono/Niseko Village) and **Rusutsu**, Nagano Prefecture is the home of **Shigakogen Mountain Resort**, **Nozawa Onsen** and **Hakuba Valley** (10 resorts including Hakuba Happo-One, Hakuba 47/Goryu) and Niigata Prefecture features **Gala Yuzawa/Ishiuchi Maruyama** together with **Mitsumata/Kagura/Tashiro** (Mt. Naeba). Other large resorts include **Zao Onsen** (Yamagata Prefecture) and **Appi Kogen** (Iwate Prefecture).

Ski resorts have started to attempt to revitalise the industry, but they have to fight against demographic reality of the aging Japanese population. The latter may unfavourably affect the overall participation rate. Nowadays, the Japanese slopes are no longer overcrowded and the industry is trying to attract new clients. Some ski areas have turned into big resorts where skiing is only one of many activities to choose from. Investments are directed to make these places attractive to both skiers and non-skiers. True mountain base villages have been developed, offering housing and multiple facilities. Some are even afraid of an almost *Disneylandification* of the mountain.

With these changes, Japanese ski areas have subsequently attracted an increasing number of foreign visitors. Before the 2000s, nearly no foreign visitors came to Japan to ski. After the 9/11/2001, Australian skiers began to come to Japan instead of flying to North America. They were followed by visitors from neighbouring Asian countries, even some without any ski culture. Efforts have been made to produce trail maps, sign and menus in English, Korean and Chinese. Today, the country attracts more and more skiers from abroad. It is now common to see skiers from Australia and East Asia. Very recently, China became one of the most promising markets for skiing in Japan and Chinese skiers going to Japan currently represent the largest international skiers flow in Asia-Pacific region. Focus has also now turned to attracting European and American skiers.

<sup>&</sup>lt;sup>54</sup> Attendance in Hokkaido was 5.1 million skier visits in 2017/18.

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# Mongolia



Mongolia is a large country combining highlands and mountains. The lowest altitude in the country is 518 meters above sea level, and the average altitude is 1'580 meters. The western and

northern parts of the country are crossed by the Khangai and Altai mountain ranges, featuring the country's highest summit, the 4'374-metre high Kujten Uul (formerly Nayramadlin Orgil). There are also several volcanoes in the area. One third of Mongolia is covered by the famous Gobi desert.

With an extreme continental climate, the country has long, dry, cold winters and short summers. The average temperature is below freezing from November to March. Minus 20 degrees Celsius is common in January and February and night temperatures can reach minus 40. Lakes and rivers freeze in winter. Snowfall is limited. The level of precipitation is low and mostly concentrated during the summer months.

Even though Mongols are accustomed to winter, the first and only ski area of the country opened in 2009. **Sky Resort** is located next to the capital city of Ulan Bator. Its base elevation is 1'379 meters and the top of the lifts reach 1'570 meters, offering about 200 meters of vertical drop. It is equipped with 2 quad chairlifts and 2 surface lifts, plus 3 moving carpets, comprehensive snowmaking facilities and lighting for night skiing. All of the equipment was manufactured in China. The ski season lasts from November to March / April, but the resort is operated as a year-round recreation destination. It features various outdoor activities, including a golf course.

#### Dangahi Handriangga Dangahi Handriangga Dangahi Handriangga Handriang Handriang

Nepal

Nepal is an 800 kilometres long on 200 kilometres wide territory landlocked between India and China. Although Nepal is well known for its Himalayan Mountains, the altitude in the country ranges from as low as 60 meters in the subtropical lowlands of

Terai, on the northern rim of the Ganges River, to the top of the world, with the 8'848 meters high Mount Everest (shared with China). The country accounts some 90 peaks over 7'000 meters and 8 of them are over 8'000. This wide range of terrains involves also a wide range of climates, and annual precipitations vary on average from 160 millimetres to 5'500 millimetres depending the region.

Nepal is highly affected by global warming, with its glaciers melting down. From 1997 to 2010, the country lost 25% of them, putting some areas at risk with the sudden creation of lakes that can be a threat for the populations located in the valleys below.

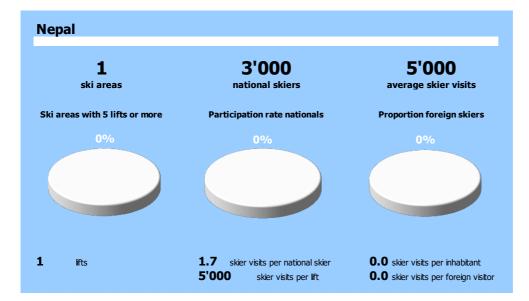
The zone with mountains over 3'000 meters covers about 15% of the country and populated villages reach up as high as 4'500 meters above sea level. However, the snowline is at an altitude of 5'000 to 5'500 meter, making it difficult to find comfortable skiing conditions.



Occasionally, it may snow at lower altitudes and in 2019, a first ski lift was installed on a temporary basis at the **Kuri** area in Kalinchok of Dolaka, at an altitude of 3'842 above sea level. With the help of a rope and some home made machinery, a 60-meter long rope tow was inaugurated for snow lovers. Ski and Snowboarding Foundation Nepal organised a 2-month

festival with an aim to make Kuri of Kalinchok a popular ski park, expecting 10'000 visits over the period. Kalinchok is a famous Hindu pilgrimage site with beautiful sceneries and it features a sightseeing cable car and hotels for visitors.









The southern island of New Zealand is the more mountainous of the 2 main islands, crossed through the middle by mountains referred to as the Southern Alps. They include 18 peaks over 3'000 meters, culminating with the 3'754-metre Mount Cook. Although the northern island has fewer mountains, it features some volcanoes. The highest peak, Mount Ruapehu (2'797 meters above sea level), is a still an active volcano.

New Zealand is a major destination in the Southern Hemisphere for skiing and snowboarding. The resorts are well equipped and evenly spread out over the 2 main islands that make up the archipelago. Snow conditions are good, even if the powder is not as light as in the European Alps, Japan or the Andes, due to the maritime climate. Only a few resorts offer more than 500 meters vertical drop. The others have shorter slopes. The season starts in late May and ends in early November.

In addition to 13 commercial ski areas, New Zealand has 10 private ski clubs. Heliskiing is also highly developed, with numerous possibilities and departures from 10 different bases.



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#### **Covid-19 impacts**

New Zealand has been leading the ski world in successfully suppressing the virus and its ski areas were all able to operate pretty much normally. However some of the country's biggest resorts decided to open 2-3 weeks later than planned, and to only open around the weekend in low season, not because of the virus, but because they expected business may be down as much as 50% due to a lack of international skiers arriving from overseas, with the country's borders closed. They were therefore looking to cut costs to break-even.

The delayed start to the New Zealand ski season was, unexpectedly and happily, a fairly normal one with restrictions on the number of people using lifts at any one time or entering mountain restaurants and other buildings no longer an issue. The big resorts usually reliant on international business reported good numbers for opening weekend. Around 2'000 people came to Cardrona for its opening day, and around 1'000 were at Treble Cone.

Mid-August, ski resorts were imposed pandemic restrictions for the first time after the virus re-emerged in the country. New Zealand remained under COVID-19 Level 2 pandemic restrictions, which limited the numbers on the mountain. In September, restrictions were lifted and most resorts were fully open up to end of the month, with fresh snowfalls.

Source: Snowhunter

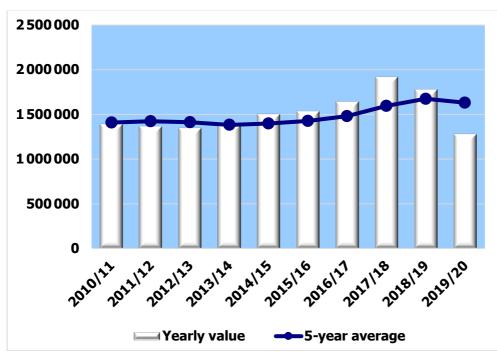


Figure 34: New Zealand, evolution of skier visits

In the new century, skiing has grown. Before the 2000s, only exceptional seasons saw more than one million skier visits. Since the early 2000s, this has been the rule. The growth emphasised after winter 2015 which saw

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record snowfalls and an extended season, some resorts having their highest ever number of visits. Winter 2016 and 2017 renewed with very good attendance figures and were again bet by 2018 season, which clocked a record 1.9 million skier visits, 16% over former season. It was said a phenomenal snow year, which ensured that the season was longer than usual. Intense marketing, sales and investment contributed significantly also. Ski areas have invested in new chairlifts and snowmaking (5 new lifts delivered between 2014 and 2017). In some resorts, the introduction of cheaper season passes is considered having encouraged New Zealanders to return to the slopes or visiting them for the first time. Season 2019 could not match the former one, although very good indeed. It records as the second best, even if season start was slower than normal for many ski areas. Some did not open in time for the July school holidays. Moreover, when the snow did arrive, some areas endured a higher number of closed days than usual.

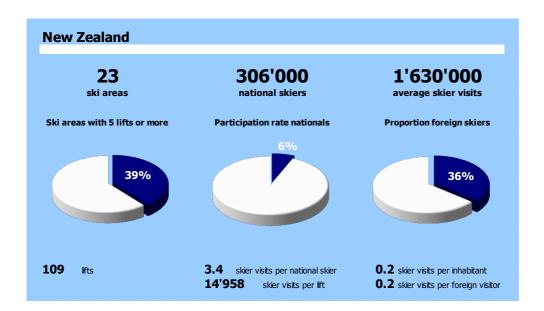


For the 2020, ski areas reported a visitation 28.1% down over previous season. Visitors were only domestic, as borders were closed to international visitors because of the pandemic. Thus, the industry is pleased with this result. 4 lock down levels for covid-19 were defined in New Zealand. Ski resorts decided not to operate if levels 3 or 4 were reached. When ski areas started to open in June, the country was in level 1 – the lowest of the levels with no domestic travel restrictions and no mass gathering restrictions. The ski areas did well with the domestic market especially in the school holiday periods and weekends. In August, the country moved to level 2 for 3 weeks and the major change was a 100-person restriction for indoor spaces such as in cafes and restaurants. Outside visitors wore facemasks and social distancing was required. The industry had no problems operating in Level 2, having earlier prepared very good safety protocols in partnership with health officials and safety regulators. At the end of August, New Zealand moved back to Level 1 and the ski season

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finished in October at this level. The season was satisfactory as far as snow was concerned although some of the smaller areas without snowmaking had a very limited season. New Zealand was exemplary in the way that covid-19 fighting strategy was organised, with pre-defined levels and a set of corresponding measures.

The southern part of the country offers the best ski resorts in New Zealand. Near Queenstown, the Remarkables mountain range boasts a vast ski area of about 220 hectares that rises to 1'935 meters above sea level. There are 4 ski resorts on the northern Island. **Whakapapa** and **Turoa** are the most popular ski areas, topping out at 2'300 meters above sea level on the northeast side of Mount Ruapehu. They recently merged and draw many skiers and snowboarders every year. Despite being the largest resort in the country, it is small when compared to other international destinations. It has only 43 trails and 16 lifts spread out over 400 hectares.



# North Korea



With its high point Paektu-san rising to 2'744 meters above sea level, North Korea is a country covered by forested hills and mountains, separated by deep, narrow valleys. It counts 50 peaks over 2'000 meters. There are some coastal plains wide in the west, discontinuous in the east.

Although the climate is tough, with long cold winters and a decent amount of snow, the socio-economic situation for most of the population does not

generate an important demand for leisure activities. The number of skiers is very limited.

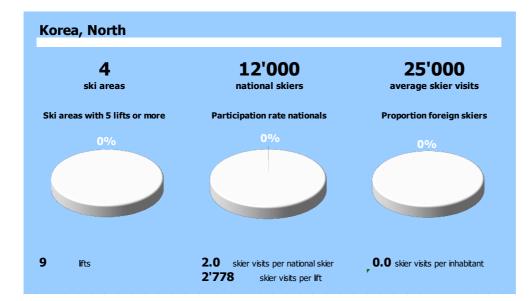
A couple of limited ski areas offer a few second hand ski lifts but they are reported to be only used by the military and other selected members of the North Korean population. The small ski resort of **Begaebong** features a second hand chairlift retired from the Alps. Another single downhill slope equipped with a ski lift has been identified in **Samjiyon**, close to Mount Paektu.

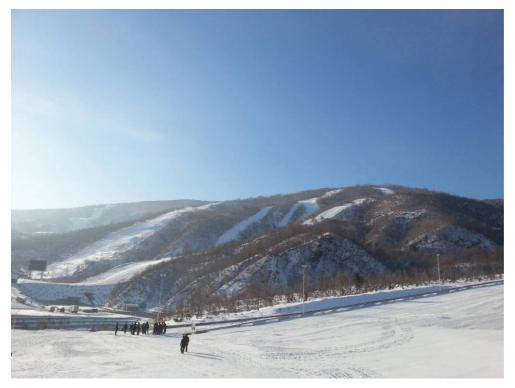


Due to the UN embargo, Austrian, French and Swiss manufacturers had to refuse to sell the country a new detachable chairlift to equip a planned ski resort on **Mount Masik**, the first with the goal of meeting international standards. Despite this drawback, the resort was officially inaugurated at the end of December 2013 with unusual media visibility for North Korea. Due to the embargo, the originally planned brand new western manufacturers' installations were replaced with second-hand equipments (surface lift and fixed grip 2-seater chairlift). Later on, a gondola lift having served before in Austria was installed, and some further Chinesemanufactured lifts. The ski area features an impressive hotel, ski rental shop and restaurants (even one top of the mountain panoramic restaurant). The final plans would call for 110 kilometres of ski trails and a

heliport. It is considered to be the first ski area in the country to open to the general public.

Rumours of building another new ski area mention a project, which would be located 50 kilometres away from Chinese boarder. The ski area would feature 2 slopes.



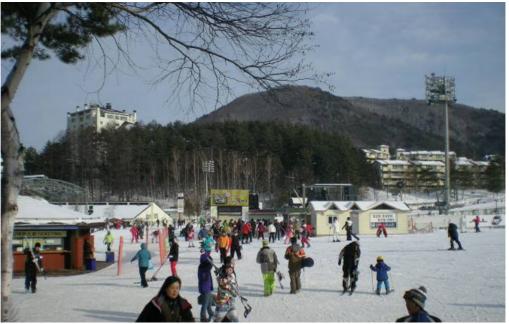


# South Korea



South Korea is a mountainous country with relatively cold winters. Ice skating or gliding over the snow was already familiar to part of the population before the advent of skiing. When the first ski resort was developed in 1975, it rapidly became popular. A few years later, it was followed by several new openings, mostly resorts equipped to international standards. Even if the financial crisis that hit South Korea in 1998 slowed down new developments for years, they resumed after 2002 but stopped again by 2010. A total of 19 ski areas were built over the

years in the country. However, starting from 2006/07, some began to close temporarily or for good. There are currently 5 ski areas that remain closed.



Korean resorts are based on the North American model, very capital

intensive. They are generally built on land that must be fully or partially acquired by the operator, who then controls the entire business. As all ski resorts have been created from scratch, they require significant investment in roads and utilities, not to mention the need to build the entire base area infrastructure. Accommodations are almost exclusively condominiums. The peculiarities of the terrain also create the need for a lot of civil engineering work. This generally limits ski resort operation to powerful financial groups. Several ski areas are owned by large, typically Korean, conglomerates, like Hyundai and LG. The smaller developers have often suffered financial difficulties or gone bankrupt only to be acquired by a big investor.

With the significant increase in supply up to 2010, some resorts have been losing market share as the market has become much more competitive. In light of the huge investments, some may have to fight to survive in the short term and some even already closed.

All resorts offer year-round activities. Most have at least one golf course, an indoor swimming pool and shops. Indoor malls are filled with recreational activities like bowling, ping-pong, video games, movies, karaoke, and of course restaurants, bars, clubs and night-clubs, as many of the resorts are active both day and night. 3 resorts even offer a water park and a theme park.

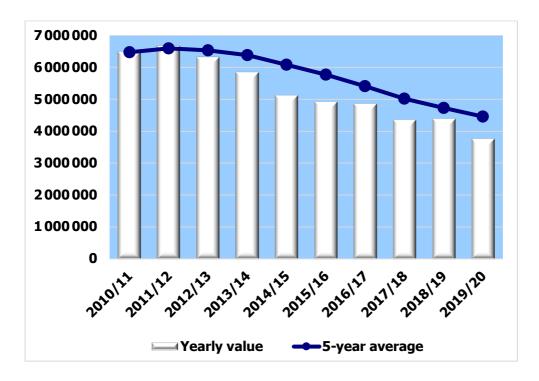


Figure 35: South Korea, evolution of skier visits

Starting at the beginning of the 2000s, attendance records grew steadily through 2008. Since then, yearly skier visits have stagnated and then dropped below the 5 million mark. This happened in spite of several new high-quality resorts that have opened in the late 2000s. It was expected that they would stimulate demand. South Korea also expected an increase in foreign customers, boosted by promotional efforts made by the government. However, the reason for the stagnation probably has to do on one hand with current economic conditions and a depressed market, both nationally and in Asia<sup>55</sup>. On the other hand, ski has been so much packaged

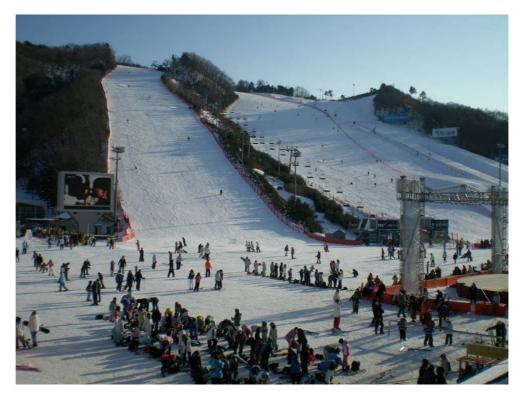
<sup>&</sup>lt;sup>55</sup> South Korea is perhaps the country were attendance is the least dependent on the climate. With a lot of snowmaking and relatively cold temperatures, snow is nearly guaranteed. Furthermore, much skiing consumption is done at night, with little concern for sunny skies.

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like a leisure activity in South Korea that this makes it much more sensitive to trendy fashion as if it had been presented as a sport and healthy practice. It seems that there is currently a switch towards other leisure activities at domestic level. Considering the last 5-year average, it is reasonable to fear a long-term decline at this stage.

The PyeongChang 2018 Winter Olympic Games completely failed to contribute increasing the popularity of skiing. The 2017/18 winter season visitation was 10% down former one and 20% below 5-year average. 2018/19 however marked a stop to the declining numbers, with a stabilisation around former year level. However, with the pandemic, winter 2019/20 saw again a decrease in visitation of 14.3% over former season.

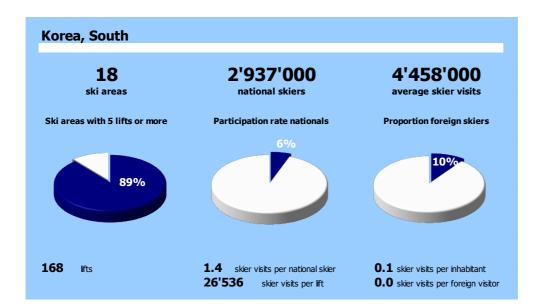
With 2.5 million skiers for a population of more than 48 million inhabitants, a participation rate of about 5%, the potential for the Korean market is still partially untapped and demand could however be developed. In addition, the high-quality equipment at Korean ski destinations, meeting the highest of international standards, offers an attractive alternative to European resorts for skiers throughout the entire Asian continent. Prices are also more attractive than in Japan, and Korean ski areas offer a great deal of fun, with several ski resorts operating their lifts nearly around the clock. With this kind of controversial situation, the Korean ski industry seems at a turning point. Either it finds way to stimulate a revival of skiing demand; either it will have to transform the business model of the ski resorts. Nevertheless, adding more leisure activities may only make the business more subject to temporary trends and fashion.



The ski season is peculiar in Korea. It is relatively short, but very dense. The school year matches the calendar year, so students have their annual holidays in December and January, which is followed by mid-February and

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spring holidays. The ski season begins in late November / early December and ends in March, but has virtually no lag time.





# The Middle East & Africa

Every continent offers options for skiing. Even if much scarcer than in other regions of the world, there are ski resorts spread across the Middle East and Africa, and in both the Northern and Southern hemispheres for the latter.

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## Afghanistan



The country is mostly covered by rugged mountains, with the Hindu Kush range and 100 peaks rising to over 6'000 meters above sea level. The highest point tops out at 7'485 meters above sea level (Nowshak Peak). With such an arid climate, the cumulative snowfall in the mountains during the cold winter serves as the primary water supply. The Koh-e-Baba (Grandfather Mountains) is the western extremity of the Hindu Kush mountain range of Afghanistan and Pakistan. It contains glaciers and permanent snow.

Modern skiing was introduced to the country by European visitors in the 1960s. At that time, the Afghan tourism organisation established Afghanistan's first ski area at Chowk-e-Arghande, near a low pass just outside Kabul known for its heavy snowfalls. With the help of a German ski enthusiast, Afghanistan's first rope tow was installed in 1967. A few years later a second rope tow was installed to take skiers to a higher, steeper slope. Together the two lifts offered a roughly 700-metre descent. Most skiers were expatriates living in Kabul. Some locals, including women, also got acquainted with skiing and a few races were organised in the 1970s (the last ski races were held at Chowk-e-Arghande during the 1978 winter). Through the subsequent 4 decades of conflict, snow sports became all but impossible to pursue in the country.

Today, the widespread poverty among most of the population does not allow for expensive leisure activities (living standards are among the lowest in the world). However, sledging has remained a popular activity in the snowy mountainous regions. Boys and girls sliding down on homemade sleds is a common sight. In 2010, during a local festival in Bamyan, a ski race was once again organised to familiarise people with snow sports. Second-hand skis from France, together with others made by local artisans, were used.

In spite of the few favourite spots of a couple pioneering skiers and snowboarders, there is no organised and equipped ski area. The rope tows have been destroyed along with most infrastructures. For the time being, the only available ski lifts are donkeys, but things may be changing. A homemade ski lift has been put in operation in 2019 at the **Bamyan** ski area, located 100 miles west of the country's capital Kabul. The rudimentary ski lift, like many of the early ski lifts in North America and Europe, utilises a motorbike engine to pull a simple cable lift. The bottom pulley wheel is fixed in an upturned wheelbarrow. The lift is reported to have been created by an American family who live locally.

The lift is the latest development since the creation of the annual Afghan Ski Challenge, originally established by a Swiss journalist in 2011 and now organised by the Bamyan ski Club, which is a ski touring race over 2.5 kilometres. Indeed, the Bamyan region offers tremendous backcountry skiing potential. More than 200 ascent/descent options have been described in a recent backcountry guide to Bamyan and Band-e-Amir region.

Although country's tourism appeal is debatable, some places were very popular with tourists through the 1970s. 4 decades of war have destroyed the country, including its once profitable tourism industry. The Bamyan province, formerly the centre of Afghanistan's tourism industry, aspires to once again become an appealing destination for tourists, with its culture, natural beauty and snow-covered mountains. In fact, in several countries across the world, tourism has already demonstrated an ability to rebound quickly following a war.



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## Algeria



Although the highest point of Algeria is located in the Saharan part of the country (Mount Tahat, in the Hoggar, 3'003 meters above sea level), the Atlas mountain range in the coastal region also rises to over 2'000 meters high. In Kabylia and in the Aurès, several mountains are covered with snow during the winter. In several areas, there is sufficient snowfall to ski for 2 to 3 months during the winter.

Even though the country uses gondolas for urban transportation in several major cities and recreational

areas, there are no longer any operating ski lifts in the country. For the time being, ski resorts in Algeria are a thing of the past. Although at least 4 ski areas used to be equipped with ski lifts, they have all been either destroyed or no longer function. In recent years, there were plans to rehabilitate 2 of these areas, but this has not yet been implemented.

For instance, in the Blida area, 70 kilometres away from the capital city of Algiers, the **Chréa** National Park used to have a ski area. Located 1'500 meters above sea level, it was the first one in Africa when it opened in the 1940s and was equipped with a surface lift. Later, in the 1980s, an additional chairlift was installed as well as a 7-kilometre long 2-section gondola, in order to enable direct access from the city of Blida. All lifts were later damaged by the civil war and only the gondola was renovated in 2007. Today, on the weekends, the small slopes are sometimes crowded with locals sledging, even if there is no longer any organised form of skiing.

Another place that became famous for skiing in 1948 is **Tikjda**. Rising to over 2'000 meters above sea level and offering a vertical drop of about 500 meters, it used to be equipped with 2 ski lifts and a chalet-hotel. Even if they are no longer on use, Tikjda remains the second place in Algeria where people still do some snow sports.

### Iran

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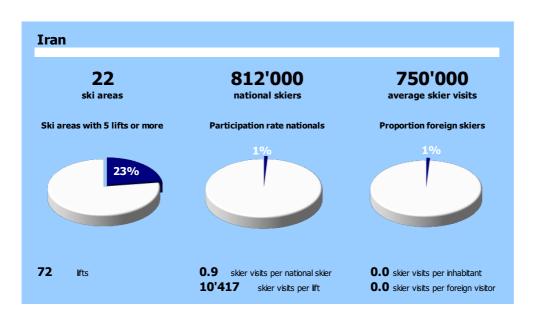
Modern skiing was introduced in Iran around 1930. Germans, who were in the country to build the national railway, and Iranian students, who studied in Switzerland and France and learned to ski there, helped to introduce the sport. In 1947, the Olympic Federation of Iran and the Ski Federation Iranian were founded. The first lift was installed in 1951. Iran was represented for the first time in history by a skier in the women's competition at the 2010 Vancouver Winter Olympic Games.

Most ski resorts were built during the reign of the Shah. When he was overthrown in the 1979 revolution, the Iranian clergy closed all ski areas, as they were considered emblematic of the decadent western lifestyle. In the mid-1980s, growing demand put pressure on the government to reconsider its position and reopen the ski resorts. Today, there are a dozen in operation, and the most important are located in the Alborz Mountains above Tehran, in the northern part of the country. The highest peak in Iran is located here, Mount Damavand, a giant dormant volcano rising to over 5'600 meters above sea level. Even if several new gondolas were delivered in the 2000s, infrastructure is still rather old and facilities often limited. However, the resorts are located at high altitude and have excellent snow conditions. Several resorts also offer spring and summertime activities, such as tennis, volleyball, climbing, mountain biking or grass skiing. Although runs are no longer segregated between men and women, the lifts still are. There are two separate lines and it is illegal for a man and a woman to share a gondola.



The biggest resort in Iran and even in the Middle East is **Dizin**, 70 kilometres north of the capital. Founded in 1969, the ski area lies between 2'650 and 3'600 meters above sea level. It thus accounts among the highest ski resorts in the world. It covers 470 hectares and receives about 7 meters of snow per year. With 23 runs for all levels, 4 gondolas, 3 chairlifts and 9 surface lifts, it is the first ski area in Iran to have been officially recognised by the FIS as suitable to host officially sanctioned international competitions. The mountain also offers many freeride options. Dizin has 2 hotels, 19 cottages, villas and private apartments. An all-day lift pass costs USD 30.

**Shemshak** is the second largest ski area in the country. Located 60 kilometres northeast of the capital, it opened its doors in 1958 and lies between 2'550 and 3'030 meters above sea level. It was originally designed to offer a trendy spot to the Teheran jet set. With 2 chairlifts, 5 surface lifts and 8 runs, it is well suited for experienced skiers and snowboarders. The resort offers the opportunity to ski at night as well as cross-country skiing. There is only one official hotel, Shemshak Hotel, built in the style of an old Austrian chalet; the resort has adopted a somewhat Western style.



The **Tochal** recreation complex, which is connected to Tehran by a 7.5 kilometres 3-section gondola lift<sup>56</sup>, features a ski area at the top. In addition to the gondola, there are 2 chairlifts and 1 surface lift that serve the 4 runs.

**Ab-Ali** is the oldest resort in Iran, where the first lift was built in 1951. It helped to instigate the development of skiing in the country. Recently renovated, it has a few new lifts: 1 gondola and 8 surface lifts for a total hourly capacity of 4'500 people. The 5.5 kilometres of runs at this ski area, located between 2'400 and 2'650 meters elevation, are well suited for beginners and intermediate level skiers.

<sup>&</sup>lt;sup>56</sup> One of the longest gondolas in the world, climbing 1'840 meters vertical. 500'000 people use it annually. There has been recently a project to extend it to a total of 8.1 kilometres.

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The newest ski area in the country is **Darband-Sar**, opened in 1982. Originally, a very small ski area with only one chairlift, it has been purchased by a private investor that is now developing it further. Designed for beginners and intermediate skiers, it has 6 lifts: 1 gondola, 3 chairlifts and 2 surface lifts. Ski area of Darband-Sar is close to Dizin (with currently and interconnexion project under study).

Iranian ski resorts require new investment, since most of them still operate with equipment from the late 1970s. However, this would require promoting skiing at a national level to attract more skiers and to increase resort revenues in order to provide the financial means to make any new investments. With regard to foreign visitors, apart from the occasional diplomat, tourists are a rare sight at ski areas around Tehran.





Iraq



Even if large parts of the country are flat deserts and of low altitude, Iraqi Kurdistan, in the northeast, is a mountainous region, with peaks reaching up 3'611 meters above sea level.

Snow is not unusual in the mountain in this autonomous region of Kurdistan, even if not all places are accessible due to some hostilities and unsettled disputes. Already several decades ago, the mountain near Haj Omran, next to border, the Iranian was an acknowledged place for skiing,

even if the place was not equipped. Recently, an ice and snow festival was held there at Kudu Mountain.

It is reported that a first ever ski school was opened in the mountain village of Penjwin in early 2010s. It does not operate any ski lift. The only infrastructure is a simple municipal building that houses the equipment.

The only equipped ski area in Iraq, **Korek Mountain Resort**, opened in 2013. Located about 100 kilometres east of the city of Arbil, it features a 3.7-kilometres gondola lift, bringing the people from base station in Bekhal up to the mountain, 1'690 meters above sea level, where there are some facilities for skiing. Equipment rental and a magic carpet allow everybody that can afford to have a taste of snow sports. The place has become a popular attraction for Iraqis and Kurdish people seeking to have some respite in the snowy landscape. Some are coming from regions that do not



experience snow and have there their first contact with it. Some visitors are even coming from the neighbouring countries Turkey and Iran. In one packed day, the place can welcome up to 2'500 visitors. Of course, only a fraction is skiing, despite ski can also be practiced without snow, thanks to a dry slope. The mountain also offers some amusement park style attractions, zip-line, tubing, chalets and food outlets.

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### Israel

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In spite of its small size, Israel is home to a variety of geographic features, including mountain ranges in Galilee, Carmel and the Golan Heights in the north. Even if the city of Jerusalem receives snow at least once per year, only the Golan Heights are high enough in altitude to offer the requisite conditions for winter sports.

The sole ski resort of Israel is located there, just next to the UNDOF buffer zone with Syria. Although **Mount Hermon** is located in this buffer zone, the Israeli ski area is called Hermon Ski Resort. It is located on the southeastern slopes of the Mount Hermon, between 1'600 and 2'040 meters elevation. During the winter, when the mountains are covered in snow, the resort attracts a lot of visitors that come to enjoy the snow. It offers family activities, like sledging and of course skiing. On peak days, it hosts up to 12'000 visitors.

The first lift was built in 1971. Now, the resort offers several chairlifts and surface lifts. It even features a FIS-approved competition run. Winter operations usually run from January to March. However, during some seasons, skiing may be limited to only 2 to 4 weeks due to the lack of snow. In 1999, the resort had no sufficient snow at all for skiing.

The resort also offers summer activities.

### Lebanon



Only 23% of Lebanon lies in coastal plains and lowlands; it is а with 2 mountainous country, mountain ranges parallel to the Mediterranean coastline. Both ranges run up and down the entire length of the country. The first row of mountains is called the Lebanon Mountains. It varies in between 10 to 56 kilometres wide. Narrow and deep gorges cut through the range. The Lebanon Mountains top out at 3'088 meters above sea level, with Al Qurnat as Sawda as the high point. They gradually descend to the south

before rising again to a height of 2'695 meters at Mount Sannine. The second range, the Anti-Lebanon (Antilibanos) Range, is separated from the first range by the Biqa Valley. It runs parallel to the first, bordering with Syria and Israel. Mount Hermon, its highest peak (2'814 meters above sea level), is situated in the South, on the geographical border with Syria. Parts of both of these mountain ranges are covered in snow in winter.

Lebanon is one of those countries where it is possible to ski in the morning and to swim in the sea in the afternoon. It has 6 ski resorts with lifts and groomed slopes<sup>57</sup>. The ski season last about 4 months, from mid-December to the beginning of April.

Local industry considers that the total of domestic skiers is on the decline. In the past, Lebanese ski resorts also used to welcome visitors from the Emirates, Syria or Saudi Arabia, but these times are over.

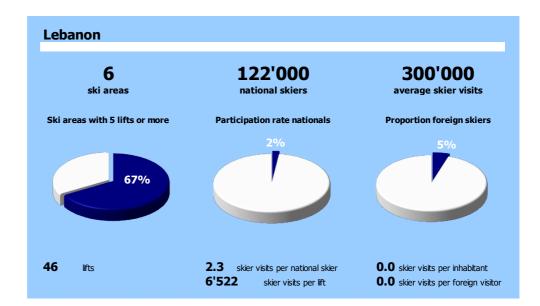
Skiing developed and became popular in the 1930s, when the fist ski club was founded, soon followed by the first ski school. The first lift was installed in 1953 in **Cedars**. This resort is reputed for its charming natural surroundings. It is located at an altitude of 2'000 meters and benefits from an extended season (sometimes beginning in early November and lasting until late April). Resort capacity was enhanced in 2005 with the addition of a few chairlifts. Further projects include the construction of a gondola and new accommodations.

**Mzaar** offers world-class infrastructure and facilities for tourists. It is the best-equipped and most popular resort, capturing about 75% of the national skier visits. It features 18 lifts and 42 runs totalling 80 kilometres. With a base elevation of 1'850 meters, the resort tops out at 2'465 meters above sea level.

<sup>&</sup>lt;sup>57</sup> One of these ski areas now only features tow lifts, operated by the local hotel. Resort's buildings were damaged by the war and major lifts were dismantled.

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**Faqra** is a private ski club, meaning the club owns the land, the 4 lifts and all other facilities.





Lesotho



Surrounded entirely by South Africa, 66% of Lesotho's land area is mountainous. Its lowest elevation is 1'000 meters above sea level, and the highest peak is 3'600 meters. With some natural snowfall, the country almost brings together all the necessary criteria to operate a successful ski resort. This was enough to motivate a few entrepreneurs to start **Afriski Mountain Resort**.

It is located in the arid Mahlasela Valley, 3'222 meters above sea level, in the

Drakensburg-Maluti Mountains. The ski area features a 1 kilometre long Tbar as well as 2 beginner lifts and a magic carpet for kids and beginners. The resort is not always covered with natural snow during the winter months. In general, snow falls 3 to 4 times per winter season, but is quite unpredictable: it can snow 10 out of 12 months a year at the resort's altitude. The ski area is equipped with a snowmaking system, which guarantees skiing from June to the beginning of September.

The ski area is far from any urban area. The nearest city is located 110 kilometres away, and it takes four-and-a-half hours to drive there from Johannesburg, South Africa. The ski area offers winter and summer activities. Various chalets and group accommodations provide for 250 beds at the resort. Since Afriski is an alliance of individual companies and private homeowners that work in cooperation with each other, similar to a European ski resort, a central booking office services the rooms available at the resort. Winter and summer activities, including equipment rental and meals, can also be booked through this agency.

The ski area hosts around 12'000 skiers per season, with a good portion of them being foreign visitors. 90% are South Africans, who come up primarily from Johannesburg. There are also skiers who travel from farther away, such as Germans, the Dutch and North Americans.

#### **Covid-19 impacts**

The ski area of Afriski opened to local skiers and snowboarders starting 5 June 2020.

Source: Snowhunter

### Morocco



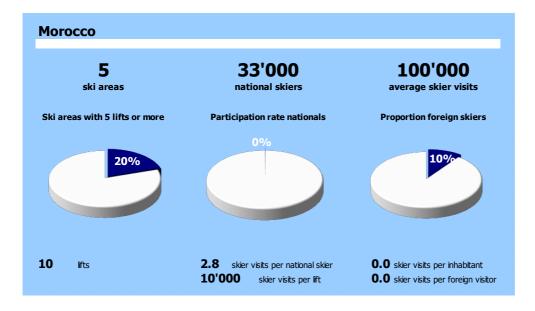
Morocco has several mountain ranges: in the north, the Rif, the Middle and High Atlas in the centre and the Anti-Atlas close to the Saharan plains. The highest summit, Jbel Toubkal, south of Marrakech, rises to 4'165 meters above sea level.

In the 1930s, mountaineers and skiers already enjoyed the snowcovered mountains of Morocco, even if access was rather difficult at that time due to poor or inexistent roads. Situation improved in the 1960s, and skiing became fashionable.

The largest and most well known ski resort in the country is **Oukaimeden**. Chalets and hostels were built there in the 1940s and 1950s. In the 1960s, the first ski lifts were installed and the resort continued to develop by adding restaurants and nightclubs. Today, it features 5 surface lifts and 1 chairlift and tops out at 3'200 meters above sea level (the base area is at 2'600 meters elevation), which makes it the highest ski resort in North Africa. It is possible to ski from November to April. The resort is also popular in the summer. Close to Marrakech, it provides a cool refuge during the warm summer months. Mountain biking, climbing and mountaineering are all popular here.

The other ski area operating in Morocco is **Mischliffen**, in the Ifrane region. This city is located in a region with a cold climate, one that posts the lowest temperatures in Africa. The mountains are lower, with cedar forests and smaller vertical drops. The area rises to only 1'650 meters above sea level and is equipped with 2 ski lifts and some accommodations. The ski season is shorter, with slopes skiable from December to end of February.

The area of Azrou was also once known for skiing, with 2 surface lifts installed in the 1950s at Borg Doumergue and Djebel Hebri. They are now out of service. In the past, they used to host ski races. The first one was held there in 1936, even before any lifts were built.



# Pakistan



With peaks rising to over 8'000 meters above sea level, Pakistan is blessed with majestic mountains. 7 of Asia's 16 highest peaks are located in Pakistan. K2's 8'611 summit makes it the second highest peak on the planet. The western and northern parts of the country are covered in mountains. The highest peaks are in the north, while in the west, the mountain ranges rise up to 3'000 meters above sea level.

The first ski area in Pakistan to be equipped with a chairlift was **Malam** 

**Jabba**. It was owned by the Pakistani Tourism Development Corporation and featured a 50-room hotel together with an 800-metre long slope located 2'804 meters above sea level. The resort was equipped with modern facilities through cooperation with the Austrian government and was completed in 1988. It was however left on standby for the next 10 years due to disputes over operations.

Malam Jabba quickly became a popular retreat, especially for families and students from Islamabad and Peshawar. Many of them drove the 4 to 5 hours to the resort not for skiing but just for the snow. Malam Jabba gets a lot of it; the snowpack can reach up to 3 meters deep. Even in summer, the place was packed with people who just came for the fresh mountain air, took a ride on the chairlift to the summit ridge (2'670 meters) and enjoyed the stunning views of Nanga Parbat. It all ended when the Swat valley fell under the influence of the Taliban in 2006. Since they consider skiing un-Islamic, they blew up the hotel, the chairlift and the grooming equipment.

In 2009, the Pakistani army regained control over the Swat valley but it took another 5 years before contracts to rebuild the resort were signed. Under a lease from the Pakistani government, a large tobacco company from Islamabad won the tender to develop Malam Jabba, to build a 4-star hotel and other 3-star accommodations, a new chairlift and run the place as a 4-season resort. In exchange, the government promised to rebuild the road and take care of the power supply. The chairlift was rebuilt in summer 2015, supplied by a Chinese manufacturer who also supplied the magic carpets for a beginner area and a toboggan run. Nevertheless, skiing there never actually stopped. A simple lift has served about half of the vertical drop and locals have continued to offer ski rentals and lessons. The new hotel will be managed by a local brand and is scheduled to open in June 2019.

In 2014, **Naltar** ski area became the second ski resort in Pakistan to get a chairlift, with the help of the Ski Federation of Pakistan. This second-hand

lift previously in use in the Swiss ski resort of Villars-Gryon replaced an old surface lift. Access to the ski area is difficult and requires either a fourwheel drive vehicle or helicopter. Actually, the ski area is located in an army base and is primarily used by army officials. The staff is employed by the Pakistani Air Force. The resort features the country's longest ski run at 2.5 kilometres in length.

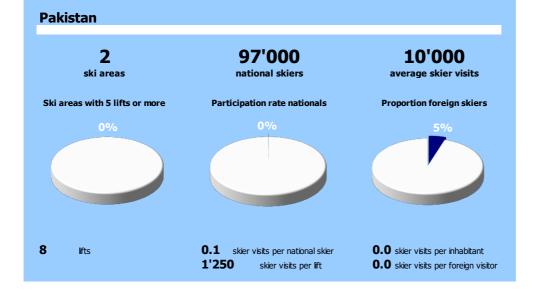
#### Pakistan Aims To Create 4 New Ski Resorts

There are plans to create 4 new ski resorts in Pakistan, according to reports from the country, although so far there is no detail on where these may be and what type of ski area they might each be.

The announcement came as a new operator of the luxury Pearl Continental hotel at the country's one current commercial ski area, Malam Jabba, officially opened the ski resort just as the country is in virus pandemic lockdown and the 2019/20 ski season ended. The new hotel set up is the latest positive development in the long-running Malam Jabba saga.

The new Malam Jabba hotel operator has been chosen after the Hashoo Group announced the signing of a management contract between its subsidiary Pakistan Services Ltd and Samsons Group of Companies Ltd to bring the Pearl-Continental Hotels & Resorts brand to the ski resort.

Source: Snowhunter







South African interior highlands are separated from the coastline and its lowlands by the Great Escarpment, a 3'500-kilometre long geological formation along the edge of the Central Plateau with mountains that range from 2'000 to 3'300 meters. In the east, the highest stretch of the Great Escarpment is known as the Drakensberg Mountain range. It features the country's high point, Peak Mafadi, culminating at 3'450 meters above sea level, on the border with Lesotho. Other mountain ranges are located

between the coastal plains and the Great Escarpment (Swartberg and Langeberg).

South Africa has only one single commercial ski resort, even if it is possible to ski in different areas in the mountains. Located near the border with Lesotho, on the highest mountain in the region, Ben McDhui Peak, the **Tiffindell** ski area tops out at 2'900 meters elevation.

Since opening in 1993, an area for beginners, and 2 main runs from 2 Tbars were built. A recent investment was made to renovate the 2 T-bars, increase the length of the ski runs, add a terrain park and upgrade services in order to improve its offering. Although its location on the southern face of Ben McDhui Peak receives enough natural snow, the ski area is equipped with a modern snowmaking system that covers 3 hectares.

There are daily entertainment programs offered to children and adults. Tiffindell also has an attractive after-ski scene, with mountain-themed bars to relax after a day on the slopes. The accommodation consists of rustic log cabins for 4-8 people, Luxury Mountain Chalets for up to 12 people and Mountain Suite rooms for 2 people – for a total of over 150 beds. Popular ski week packages include meals, lift passes, ski equipment and instruction.

The ski season extends from late May to early September (Southern Hemisphere). Skiing in South Africa is of course a completely different experience than skiing in Europe. The number of runs and infrastructure is limited, as is the snow quality. In spite of such a limited offer, the country has a ski association. Founded in 1990, Snow Sports South Africa (SSSA) is affiliated with the FIS and recognised as an official organization for everything relating to skiing in South Africa. It serves to coordinate and promote the development of skiing in the country.

In conjunction with Tiffindell, the association organises the South African National Skiing Championships every year. Incredibly, in 2014, SSSA and

Tiffindell also hosted the first Men's FIS slalom ever to be staged on the African Continent and again in 2015 the men were joined by the women for the first Ladies' FIS race in Africa. Competing racers were from Austria, Sweden, Belgium, Iceland, the USA, Slovenia, Italy and Slovakia. A local ski club called the Ikhephu Ski Pups train around 120 children from the surrounding schools annually. There is a Winter Sports Academy based at the resort, which provides 24 children with both schooling and race training for the ski months of June, July and August.

From a snow perspective, there are some years with little to no natural snowfall in South Africa (and Lesotho), but low temperatures allow Tiffindell as well as Afriski in Lesotho to make snow in order to open the ski areas. In Tiffindell's case, 2014, despite poor in natural snowfalls, was the longest season on record thanks to a newly extended snowmaking system. In 2020, the ski area remained closed due to the pandemic situation.

#### **Covid-19 impacts**

Despite it was reported the coldest winter start for 7 years, there has been no 2020 ski season in South Africa. The country announced tourism businesses would be able to re-open in September but that was too late for its only ski area of Tiffindell, which normally ends its season at the end of August and remained closed. This makes South Africa the first country to lose a whole ski season due to the virus.

Source: Snowhunter



Turkey

Turkey, in addition to its beaches, is also a mountainous country with almost 60% of the territory covered in mountains. They are spread all over the Anatolian region, with the Köroglu and Pontic ranges in the north and the Taurus Mountains in the south; they meet join in the Eastern part of



the country. The average altitude in Turkey is 1'131 meters above sea level, but in eastern Anatolia, this average increases to 1'600 meters. Located in the far eastern part of the country, Turkey's highest mountain, with an elevation of 5'137 meters above sea level, is the legendary Mount Ararat, the supposed final resting place for Noah's Ark.

The Turkish Ski Federation was founded in 1936, the year when the Turkish Olympic team first participated in the Winter Olympic Games. This was the impetus to develop skiing in Turkey and build ski resorts, especially **Uludag** (the highest mountain in western Turkey, topping out at 2'543 meters above sea level, about 45

kilometres from Bursa), Erciyes (Mount Erciyes is the highest point of Central Anatolia with 3'916 meters) and Elmadag (in the province of Ankara). Internationally sanctioned competitions were first organised in Turkey as early as 1944. To increase participation in the skiing, ski training clinics and holiday camps are organised every year, but for the time being, this only reaches a small section of the population.

New ski areas have been built on a regular basis in Turkey and the pace increased over the last decade. In 2000, there were 20 ski areas. Today, there are more than 40, spread all over the country, plus another 50 additional sites identified as having the potential to become new ski areas. For the time being however, less than 10 ski areas offer more than 4 lifts. Hotels provide approximately 15'000 rooms all ski resorts combined.

One of the most famous resorts in Turkey is **Palandoken**, which hosts FIS competitions. It lies in the eastern part of Turkey, near the city of Erzurum and has one of the coldest climates in the country resulting in very good snow conditions. The Winter Universiade in February 2011 was the driving force to bring the Turkish ski industry to new heights. In preparation for the event, Palandoken invested nearly USD 100 million. In 2014, the brand *GrandErzurum* was born from the merger of Palandoken with the neighbouring resort **Konakli**. Although both ski areas are not physically connected, *GrandErzurum* totals 65 kilometres of ski trails and 14 lifts. It is now managed by an international ski operator. 212 snowmakers guarantee snow coverage for 75% of the resort's skiable area, located between 2'200 and 3'180 meters above sea level.

Although it was already possible to ski at the base of Mount **Erciyes** for a long time, the area developed into a modern, state of the art ski resort – the largest in Turkey. Initiated in 2005 by Kayseri Metropolitan Municipality and later on managed by its wholly owned development company Kayseri Erciyes A.S., it was inaugurated in 2011. After a global investment of EUR 350 mio, the resort now offers 13 aerial lifts, including gondolas and 4 and 6-seater chairlifts, some with heated seats and bubbles, totalling capacity of 26'750 skiers per hour. 58% of the 102 kilometres of slopes are equipped with snowmaking. They range between 2'200 and 3'400 meters above sea level. The resorts offers 1'450 beds (with some further hotels planned, together with additional lifts on the other side of the village) and

the 25 kilometres away neighbouring city of Kayseri offers an additional 6'000 hotel beds, including international brands. Lift passes are priced very attractively, with a daily pass sold TKL 70 (EUR 15) in winter 2017/18. The resort has FIS homologated slopes and already hosted several world cup events. It also offers night skiing and promotes *cultural skiing*, with tours of Cappadocia in addition to days spent on the resort slopes.

**Kartalkaya**, located west of the Balkan Sea, in the Koroglu Mountains, built the first professional snowpark in Turkey. The ski area lies between 1'850 and 2'250 meters above sea level and has 18 lifts serving 12 runs of all

levels. Kartalkaya has 3 major 4-star hotels with a total capacity of 2'250 beds. The resort hopes to become better known worldwide by hosting international competitions in the future. Since it snows a lot, the ski season lasts an average of 120 days.

With 2 gondolas, 6 chairlifts and 8 surface lifts, **Uludag** is one of the largest resorts in Turkey. It is located near Bursa, offers an uphill capacity of 19'630 people per hour, and 28 kilometres of runs. Snowfall generally averages 3 meters per winter. In addition to alpine skiing, the area enjoys favourable conditions for cross-country and heliskiing. Located in a national park, the ski area also has swimming pools, fitness centres and a well-developed nightlife. With its 27 accommodations for all levels of expectations (some are State properties), Uludag offers 3'000 beds.

Over the last 10 years, about 50 new lifts were installed in the Turkish mountains. To diversify the tourism offering (primarily beaches), there are



<sup>2021</sup> International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 – *PRIVILEGED COPY* 

major projects in the works to further develop Turkey's winter tourism and bring the number of ski resorts to 100. This project, which includes EUR 50 billion in investments, 1'000 new lifts and 275'000 beds for 14 million of skiers, has recently been discussed in the media. At present, although resort capacity is on the rise, they are not yet at a stage to compete with foreign resorts in attracting an international clientele. The potential for the Turkish mountains is not yet fully exploited. The Minister of Sports has declared the willingness of the government to promote winter sports among children, in a country where only an estimated 1% of the population participates in skiing.



Currently, foreign skiers are primarily from Russia, the Ukraine or Iran. Thanks to the 2011 Winter Universiade, which brought together 58 nations, the country has hopes of attracting more Europeans. In addition, many Turks still travel abroad for their winter holidays. Improvement in local infrastructure will increase the retention rate within the country.

# New Gondola Is World's Longest and Has Biggest Vertical Rise of its Type

A new Swiss made gondola with 8-passenger cabins is the new world's longest of its type (monocable gondola lift for eight people in a single section), with an inclined length of 5'682 meters. It also climbs the greatest vertical for a single lift.

It has been built at the new Turkish ski area of Düziçi. It is not only the length that is spectacular, but also the outstanding topography that is overcome. The line leads over rough and smooth terrain, past barren rocks and climbs a total vertical of 1'551 meters, a second world record.

Extreme weather conditions, challenging terrain and limited local resources, made the installation even more challenging. The cable pull was particularly impressive. It is a rope loop of about 11.2 kilometres, with 2 ropes spliced together in the middle of the track. Even the transport of the 2 rope bobbins by truck into the impassable terrain was a major event, as each metre of rope weighs about 11 kilograms. Prior to the actual rope, a nylon leader was placed with the help of a drone and pulled in manually. Then several more ropes of increasing strength were pulled through, followed finally by the actual steel

<sup>2021</sup> International Report on Snow & Mountain Tourism - Overview of the key industry figures for ski resorts April 2021 - *PRIVILEGED COPY* 

cable.

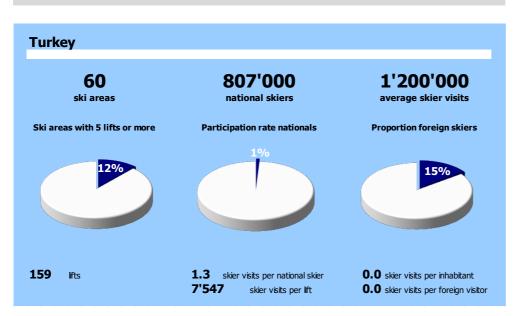
Düziçi is located in Southern Turkey, not far from the Syrian border, close to the Eastern edge of the Mediterranean Sea and almost due north of Israel and Lebanon. The city, with a population of 80'000, has existed since ancient times and in the past has been ruled by civilisations including the Ottoman and Egyptian Empires and has been a military flashpoint in more recent times too.

The ski area development here, first announced in 2017, is known as Düldül Mountain, which is reported to be snow covered for 10 months of the year with an average snow depth of 1.5 meter in winter.

With the completion of the ski area project, Düldül Mountain ...will be remembered not with terror, but with tourism, entertainment and happy memories said Düziçi Mayor Ökkeş Namlı at the time, adding that ...we will make Düldül Mountain the region's Uludağ. – a reference to Turkey's long-standing best-known ski area.

The new gondola, one of several the company is building at the resort, ascends from a valley station at 695 meters above sea level and above the town of Düziçi and has 25 support towers for the ascent up to 2'246 meters above sea level. The ascent takes 17 minutes and from the top, there are views over Syria and the Mediterranean.

Source: Snowhunter





## Conclusion

Everybody hopes that the outbreak of covid-19 will remain an accident of history. Despite it marked 2019/20 ski season reported in this document and will also impact winter 2020/21, all the industry longs to a quick recovery. Major tourism sectors such as travel and accommodations do not expect for a full recovery in international visitation before 2024 and it would be optimistic to consider that ski resorts will find a shortcut. No doubt, the ski industry will also suffer the lack of foreign guests in 2021/22 and maybe longer. The good news however is that most of the business in skiing is domestic.

Beside implementation of pandemic operating measures, the ski industry cannot do much to address the covid-19 crisis, especially when it depends from some remote decisions taken far away from the mountains. This brings the focus back to the basic challenge of the ski industry. **Maintenance, attraction and renewal of the customer base remain key issues.** 

As already pointed out in former edition of this report, there are 2 ways to increase attendance at ski resorts. One is to increase the frequency and length of stay of the existing skiers. The second one is to bring in new customers. The royal way for the latter is an introduction by existing skiers.

The discounted season passes managed to reach the first of these goals. However, the industry remains in front of the challenge to bring in new customers. Retention rate of beginners remains under 20% even in countries that addressed the issue. Introduction of the ski to new skiers keeps being a challenge where the industry still has not found an ideal solution. The need for a new growth model remains, to renew the baby boomers that are retiring from the market. Such a model would need to change socio-demographic focus in order to acquiring new skiers from the large population ranges with no skiing tradition. In large metropolitan areas



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of North America and Europe, it was already estimated that they represented 50% of the new generations 10 years ago. Some programs were introduced to facilitate access to the ski, mostly focused on kids. The industry yet did not find a way to introduce widely non-ski cultures to the ski, nor to attract massively the younger urban generation. In the mature ski markets, the middle class has reached a level of stagnation and there are no big development perspectives in the future.

Still hard work remains to be done to find how to introduce young urban multicultural generations to the ski. The more the new generations get multicultural, the less the penetration of the ski culture. There is a big challenge to change now of paradigm and MAKE THE SKI URBAN. The potential of revolving carpet simulators, indoor training centres and dry slopes to contribute bringing ski to the young urban generations must be better exploited. Partnerships would be required between ski resorts and urban sports centres, in order to feature a progressive introduction to skiing, through packaged offers. This is also true in developing ski markets such as China. By the way, such attempts just started to blossom there recently, with the emphasis on urban ski centres, revolving carpet simulators, dry slopes and ski domes. Guangzhou Sunac Snow World already reached 2 million visitors less than 2 years after opening and despite covid-19. It demonstrates the urban interest for skiing, when the industry knows how to reach the cities. It also demonstrates the penetration potential of non-ski cultures, such as South-Chinese inhabitants.



The need for improved convenience also remains. There is still very much room for improvement in this regard at ski resorts, and especially focused on beginners. Apps and e-services are nice, but if they are not really supported by service, they remain irrelevant to enhance guest experience. All of them, and especially beginners, need to find human support when needed in their way to the slopes. Resort design needs to be done customer-oriented, or corrected in this perspective in those 20th century's resorts that have been conceived so much ski-oriented that they lost focus on the customer.



Finally, last years report's remark regarding the changing consumption patterns is also repeated as a warning to the industry. It is not clear if the current covid-19 crisis will involve long-term changes in the consumption patterns. However, it has already been pointed out that, regarding skiing, consumption patterns tend to change in the wrong direction. Ski is becoming more considered as a leisure activity than as a sport. This was heavily noticeable in South Korea, it is a high risk in China, but it also now points out on other mature markets. Very few have been done to address this issue and it is even doubtful that the industry realised the threat that is connected to this change. Persistence of this trend puts the ski industry at risk, as leisure is much more subject to trends and fashion than sport. It may be pushed up, as it was in Korea, but once it was no longer fashionable, it lost most of its interest and the industry is now at pain there. This is a very serious issue, which the industry needs to address. It concerns both mature markets and emerging ones. In markets like China, the industry will be at high risk if it does not manage to get the people more dedicated to the ski as a sport and a healthy activity worth some sacrifices.

By the way, China will also continue to be one of the focus points of the ski industry, culminating with the Beijing 2022 Winter Olympics. No doubt, both the venues and the organisation will show unprecedented

levels. This world event and the excitement it generates among the Chinese ski industry illuminate the perspectives for the next ski season.

Laurent Vanat

# Sources and acknowledgments

As comprehensive information is not available worldwide for the industry, and even scarce for some countries, the present report compiled data from numerous sources.

A lot of effort has therefore been focused on presenting the data as accurately as possible. The data has been crosschecked numerous times. If, however, a reliable source has been omitted or the data insufficiently updated, the author would very much appreciate being informed for future reference. Please address any comments to **vanat@vanat.ch**.

Besides the personal historical database assembled by the author, and in addition to conducting extensive web research, the following sources of data were used:

- Reports, webpages and news from national or regional ski areas associations: ACESKI - Asociacion de Centros de Ski de Chile A.G., ANEF (Associazione Nazionale Esercenti Funivari), ASAA (Australian Ski Areas Association), ASSQ (Association des Stations de Ski du Québec), ATUDEM (Associacion Turistica De Estaciones de Esqui y Montana), CWSAA (Canada West Ski Areas Association), DSF (Domaines Skiables de France), NSAA (National Ski Areas Association), RMS (Remontées Mécaniques Suisses), SHKY (Finnish Ski Area Association), SLAO (Swedish Ski Area Association), VDS (Verband Deutscher Seilbahnen und Schlepplifte), WKO (Fachverband der Seilbahnen Österreichs) and others
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Maps: CIA Factbook

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Endish	Francaic	Deutsch	₽ ®
Aerial lifts	Téléportés (terme générique)	Luftseilbahn	来空索道
Alpine country	Pays alpin	Alpenland	高山国家
Alpine skiing	Ski alpin	Ski alpin	高山滑雪
Backcountry skiing	Ski hors piste	Skifahren ausserhalb der Pisten	后山滑雪
Button lift	Téléski à perches / assiettes	Tellerlift	圆盘式拖牵
Cable-car	Téléphérique	Pendelbahn	箱式缆车
Cat skiing	Ski avec montée en chenillette	Skifahren mit Aufstieg per Pistenwalze	雪猫滑雪
Chairlift	Télésiège	Sesselbahn	吊椅式缆车
Combined lift	Télémix	Kombibahn	吊箱吊椅混合式缆车
Cross-country skiing	Ski nordique, ski de fond	Langlauf	北欧滑雪,越野滑雪
Detachable	Débrayable	Kuppelbar	脱挂式
Downhill sliding	Sport de glisse (gravitaire)	Schneesportarten (Abwärts)	速降
Drag-lift	Téléski	Skilift	拖牵
Fixed grip	Pince fixe	Feste Klemme	固定抱索器
Freeride skiing	Ski freeride (pratique libre, hors cadre formel)	Freeride Skifahren	自由滑雪(多指滑野雪)
Freestyle	Freestlye (figures lors de sauts)	Freestlye (Figuren im Sprung)	自由式滑雪(多指花样或技巧类 )
Gondola lift	Télécabine	Gondelbahn	箱式缆车
Groomer (vehicule)	Dameuse, chenillette	Pistenraupe / Pistenfahrzeug	压雪车
Grooming	Damage	Pistenpräparierung	压雪
Hourly lift output	Capacité horaire	Stundenleistung	每小时运力
Lifts	Remontées mécaniques	Seilbahnen	索道
Magic carpet	Tapis roulant	Förderband	蘑毯

# French / German / Chinese glossary

Laurent Vanat

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English	n anças	Deutscu	
Nordic skiing	Ski nordique, ski de fond	Langlauf	北欧滑雪,越野滑雪
Off-piste skiing	Ski hors piste	Skifahren ausserhalb der Pisten	道外滑雪
Participation rate	Taux de pratique	Ausübungsrate	参与率
Quad	Télésiège 4 places	4er-Sesselbahn	<b>4人</b> 缆车
Rope-tow	Télécorde	Kleinskilift	小拖牵
Ropeways (cableways)	Installations de transport à câble	Seilbahnen	索道
Six-pack	Télésiège 6 places	6er-Sesselbahn	<b>6人</b> 缆车
Ski area	Zone de pratique du ski	Ski Übungsgelände	滑雪区
Ski lift	Téléski (terme générique)	Skilift, Schlepplift	拖牵
Ski resort	Station de ski	Skigebiet	滑雪场
Ski touring, ski mountaineering	Ski de randonnée	Skitouren	滑雪旅游
Skier	Skieur	Skifahrer	滑雪者
Skier transported	Passagers transportés	Beförderte Personen / Frequenzen 运送的乘客	运送的乘客
Skier visits	Journées-skieurs	Skifahrertage / Skier-Days	滑雪人次
Snowboarder	Néviplanchiste / snowboardeur	Snowboarder	单板滑雪者
Snowcat	Chenillette	Pistenwalze	<b>雪地履</b> 带車 /雪猫
Surface lift	Téléski, télécorde (terme générique)	Skilift, Schlepplift	拖牵
Snow field	Stade de neige	Schneefeld	滑雪场
T-bar lift	Téléski à arbalètes / archets / pioches	Bügellift	T型拖牵
Terrain park	Zone freestyle, snowpark	Freestyle-Bereich, Snowpark	地形公园
Trails	Pistes	Pisten	雪道
Tram (aerial)	Téléphérique	Pendelbahn	缆车
Vertical drop	Dénivelé	Höhendifferenz	垂直落差





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