

AIRPORT INDUSTRY CONNECTIVITY REPORT 2019







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INTRODUCTION

Air connectivity is the essence of international mobility, the lifeblood of our globalised world – and an essential element of both national and regional accessibility & development. The exercise of boarding or disembarking from an aircraft may seem quite banal to so many people now, but this report is about taking a step back and looking at the bigger picture. What does air connectivity recoup and involve? How do we measure which airports have the best direct connectivity? Which ones facilitate the most connecting flights and what are the underlying competitive dynamics? And what do we gain from measuring it?

This report delves into the dynamics and performance of air connectivity for and across our continent – down to each individual airport that is part of the European aviation system. As such, the different types of air connectivity indexes we use - direct, indirect and hub connectivity – are useful metrics for airports themselves, but also for policy makers who may want to include connectivity data as part of their assessments and decision-making process.

While traffic figures account for the mere size and volumes involved in air transport, our connectivity data provides a measure that is arguably more directly related to its societal benefits – in particular in economic terms. Indeed, a 10% increase in direct air connectivity comes with a 0.5% additional increase in GDP per capita. It is thus no surprise that citizens' access to air connectivity is a fundamental part of the equation for economic and social cohesion – one of the reasons why Europe's regions are mindful of the positive externalities a well-connected airport can bring – as vital infrastructure that facilitates tourism, foreign direct investment and more.

As with previous editions, this year's report comprehensively measures and analyses the way Europe's air connectivity has evolved over the past decade. Using the SEO NetScan connectivity model, the report provides the indexes that matter most in analysing citizens' access to direct, indirect and hub connectivity, based on both quantitative and qualitative metrics. This means that this is not simply a measure of how many city pairs there are, or how many direct services there are. For the purposes of this report, connectivity is a composite measure of the number of destinations, the frequency of services and the quality of the connections (in the case of hubbing or indirect services).

THE PASSENGER PERSPECTIVE OF AIR CONNECTIVITY

Let's begin by outlining **the various types of air connectivity** from the perspective of the air traveller.

The one who wants to get from A to B. Or sometimes, from A to B to C.

The following definitions describe them and together they provide a comprehensive picture of connectivity provided by an airport – and how it links its communities to the rest of the world.

DIRECT CONNECTIVITY

These are the direct air services available from the airport – measured not just in terms of destinations, but also factoring in the frequency of flights to the same destination (so for example, an airport with 5 daily flights to another airport, will register a higher score than one with only 4).

INDIRECT CONNECTIVITY

This measures the number of places people can fly to, through a connecting flight at hub airports from a particular airport. For example, if you fly from Cork to a hub airport such as Amsterdam Schiphol, that's a direct flight from to A to B. But with the vast choice of onward destinations you can fly to from there – the large number of available onward connections from these airports expands the range of destinations available from the airport of origin. Indirect connections are weighted according to their quality, based on connecting time and detour involved with the indirect routing. For example, a flight from Manchester to Johannesburg via Paris-Charles de Gaulle will register a higher score than an alternative routing via Doha.

AIRPORT CONNECTIVITY

As the name suggests, this is the most comprehensive metric for airport connectivity – taking into account both direct and indirect connectivity from the airport in question. Airport connectivity is defined as the sum of direct and indirect connectivity – thus measuring the overall level to which an airport is connected to the rest of the World, either by direct flights or indirect connections via other airports.

HUB CONNECTIVITY

Hub connectivity is the key metric for any hub airport big or smaller. Essentially, it measures the number of connecting flights that can be facilitated by the hub airport in question – taking into account a minimum and maximum connecting time, and weighing the quality of the connections by the detour involved and connecting times.



DIRECT CONNECTIVITY

1

WEAK DIRECT CONNECTIVITY GAINS IN 2019

Compared with previous years, direct connectivity from Europe's airports is rather weak in 2019 **(+1.2%)**. This is happening despite the fact that passenger traffic, while moderating this year compared to previous ones, is still expanding by +4.4% (Q1 2019).

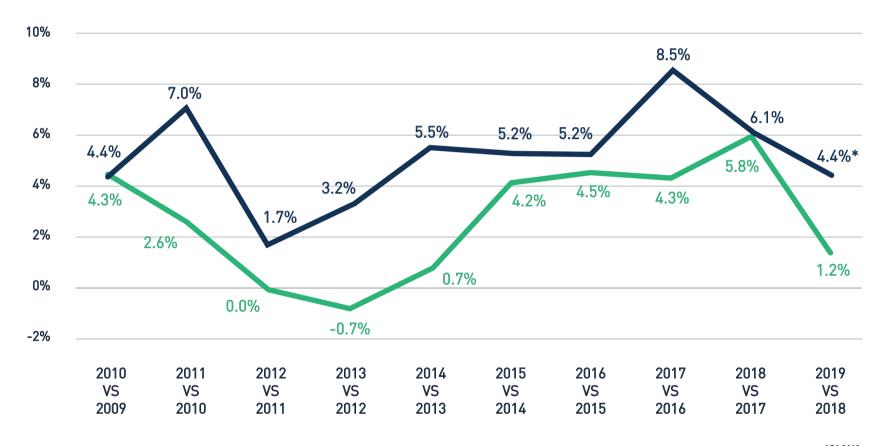
Passenger traffic and direct connectivity tend to be closely correlated, so this year's gap between the two indicators is a rather unusual pattern. This weak expansion in direct connectivity is the result of the following factors:

- Airline consolidation. Since June 2018, several European airlines have gone out of business including Azur Air Germany, VLM, Primera Air, Cobalt, Small Planet, BMI, Germania and WOW.
- Airlines becoming risk averse in their network development & capacity expansion.
 This reflects oil prices volatility, increased costs & missed opportunities associated with ATM disruptions (including the need to schedule buffer times to compensate for delays and allocate more aircraft in reserve) as well as a more uncertain economic outlook and continued geopolitical risks.
- Increasing capacity constraints at European airports especially at peak times. This
 is leading airlines to prioritise growth through larger aircraft & higher load factors on
 existing routes & frequencies rather than network expansion.

Geographically, a near stall in direct connectivity is affecting the biggest markets: **intra-Europe** (+0.7%) and **Europe-North America** (-0.8%), which are also those where the impact of airline consolidation are felt. Direct connectivity from Europe to the rest of the World keeps increasing with Europe-Africa (+11.1%) leading, followed by Europe-Middle East (+9.9%), Europe-Asia Pacific (+6.9%) and Europe-Latin America (+4.5%).

Amongst the different categories of airports, smaller regional airports (less than 5 million passengers per annum) are experiencing a significant drop in direct connectivity (-2.9%) this year. Indeed, route & network development is becoming harder to secure for these airports, as in addition to the above-mentioned factors (airline consolidation & risk aversity in capacity expansion), Low Cost Carriers (LCCs) moving up market into larger airports also impacts their direct connectivity. Conversely, larger airports (more than 25 million passengers) are performing the best (+2%).

This weakness in direct connectivity comes after 4 years of significant gains (+20.1% between 2014 and 2018). The last dip in direct connectivity levels coincided with the European sovereign debt crisis and much lower demand for air transport.

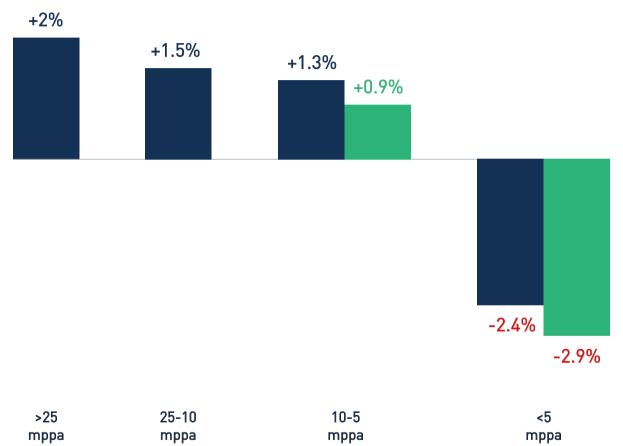


*Q1 2019.





*mppa: million passengers per annum



FRANKFURT STAYS ON TOP

PARIS-CDG SURPASSES LONDON-**HEATHROW**

Frankfurt remains the No.1 airport in Europe in terms of direct connectivity in 2019, a position it acquired last year on the back of significant network expansion of both Lufthansa and Low Cost Carriers. However, the airport is not seeing its direct connectivity increasing this year compared to 2018 – with Lufthansa's direct connectivity at its primary hub actually decreasing by -1.9%.

Likewise, Amsterdam-Schiphol also confirms its position as No.2 without seeing its direct connectivity increasing this year - due to the airport having reached its capacity limits. Over the past 10 years, Amsterdam-Schiphol has gone from the 6^{th} to the 2^{nd} position, growing its direct connectivity by +30%.

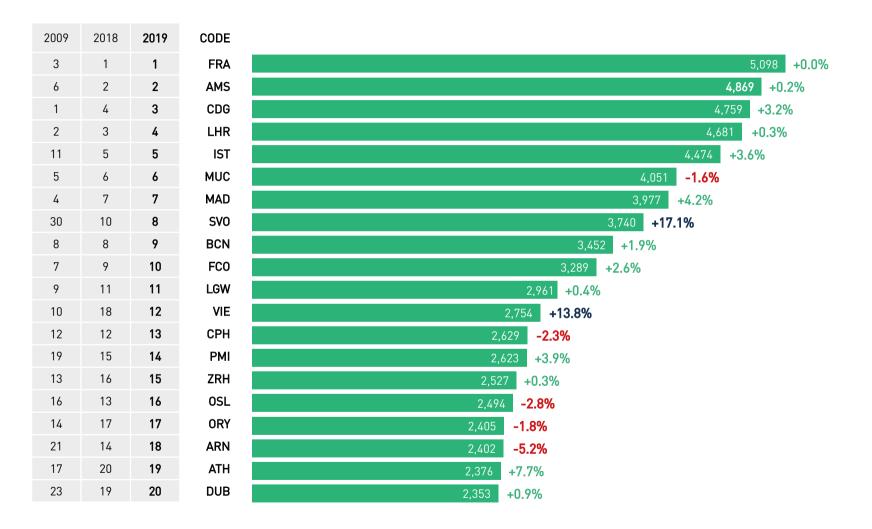
Direct connectivity gains at Paris-CDG (+3.2% – mainly driven by Low Cost Carriers as Air France's direct connectivity at the airport is almost flat) sees the airports taking over the 3rd position from London-Heathrow (+0.3%) – with the latter having thus retrenched from the 2nd to the 4th position since 2009 as a result of capacity limitations – followed by the **new Istanbul airport (+3.6%** compared to Istanbul-Ataturk – No.5).

Amongst the top 20 European airports for direct connectivity, the best performances in 2019 come from the following:

- Moscow Sheremetyevo: +17.1% on the back of the continued expansion of Aeroflot - jumping from the 10th to the 8th position and now surpassing Barcelona (No.9) and Rome-Fiumicino (No.10).
- Vienna: +13.8% fuelled by Low Cost Carriers entering the market and Austrian Airlines responding – jumping from the 18th to the 12th position.
- Athens: +7.7% jumping from the 20th to the 19th position and now surpassing Dublin.

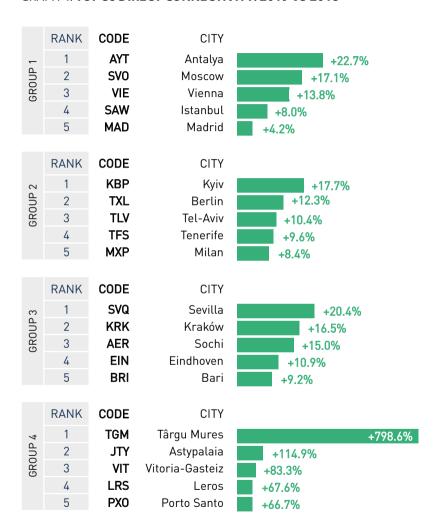
At the other end of the spectrum, **Stockholm-Arlanda** (-5.2%) is experiencing a significant drop in direct connectivity as a result of the combination of the bankruptcy of Nextjet, the national aviation tax introduced last year and changing public attitudes towards aviation. This decrease in direct connectivity is estimated to be associated with a 0.25% slower growth in GDP per capita, involving an estimated €1.2 billion of foregone economic output locally. Oslo (-2.8%), Copenhagen (-2.3%) and Munich (-1.6%, mainly due to the impact of the bankruptcy of BMI) are also seeing a decrease in direct connectivity this year.

GRAPH 3: DIRECT CONNECTIVITY - TOP 20 AIRPORTS IN EUROPE 2019 (% GROWTH OVER 2018 & RANKING IN 2018 & 2009)

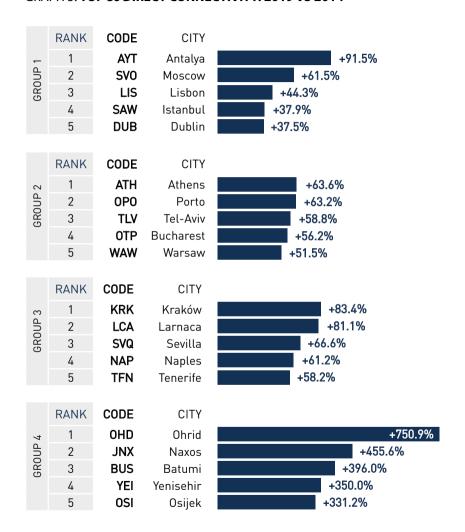


TOP PERFORMERS - BY AIRPORT **TRAFFIC CATEGORIES**

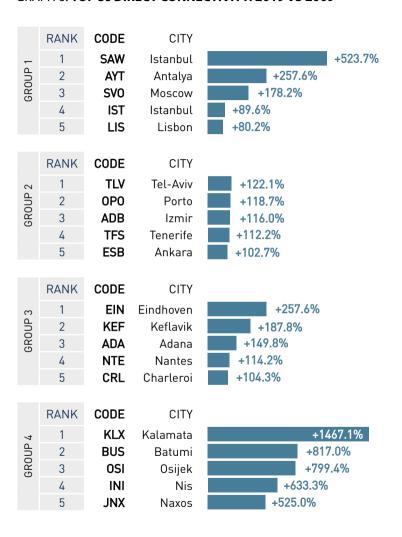
GRAPH 4: TOP 5s DIRECT CONNECTIVITY: 2019 VS 2018



GRAPH 5: TOP 5s DIRECT CONNECTIVITY: 2019 VS 2014



GRAPH 6: TOP 5s DIRECT CONNECTIVITY: 2019 VS 2009





HUB CONNECTIVITY

1.

FRA REMAINS ON TOP

DFW SURPASSES AMS

IST & SVO CLIMBING UP This year's findings reveal that **Europe continues to dominate the global league of hub airports** – with 9 airports coming from Europe amongst the top 20 Global league for hub connectivity.

In 2019, Frankfurt remains the airport offering the best hub connectivity worldwide – although not increasing compared to the preceding year (-0.2%). This reflects the decision of the Lufthansa Group to prioritise Munich Airport for its network development.

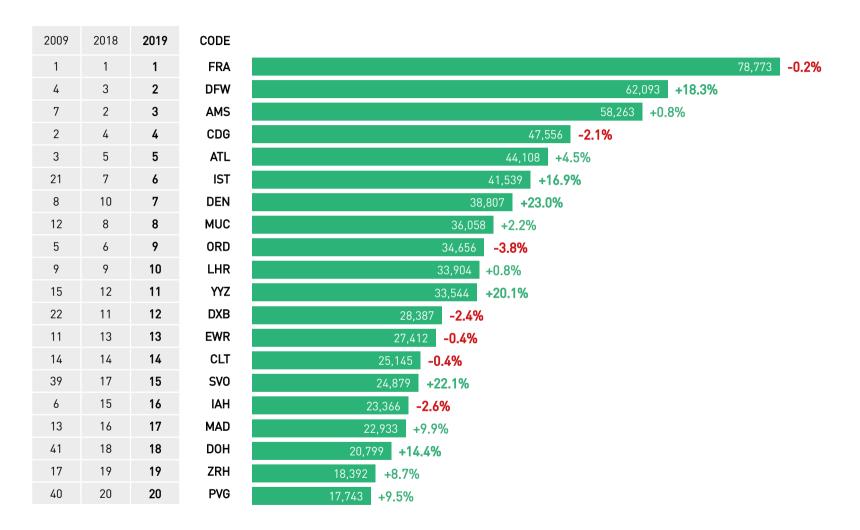
Amsterdam-Schiphol (+0.8%) cedes second place to Dallas-Fort Worth (+18.3%) as capacity constraints limit development of connectivity, while Paris-CDG remains No.4 (-2.1%) and Atlanta No.5 (+4.5%). Meanwhile, Munich (+2.2%) confirms its No. 8 position and London-Heathrow (+0.8%) further retrenches from No.9 to No.10.

Apart from Dallas-Fort Worth, the best performers amongst the top 20 Global Hub Connectivity league are:

- **Istanbul** (+16.9%) from the 7th to the 6th position, replacing **Chicago- O'Hare** (-3.8% now No.9).
- Denver (+23%), which is seeing the highest increase in hub connectivity and has now jumped to the 7th position from the 10th.
- **Toronto-Pearson (+20.1%)** improves its position from 12th to 11th. **Moscow-Sheremetyevo (+22.1%)** makes it to the 15th position from the 17th.
- **Doha (+14.4%)** bounces back after a sharp decrease last year (-20.5% in 2018) and remains in the 18th position.

Conversely, the performance of the **6 EU hubs (FRA, AMS, CDG, MUC, LHR & MAD –** *the Majors*) included in this top 20 league is more subdued. While their hub connectivity increased +8.9% in 2018, it is only growing by **+0.9%** this year – with **Madrid-Barajas (+9.9%)** achieving the best result, in large part driven by the expansion of Air Europa (the airline's direct connectivity at the airport increased by +20%).

GRAPH 7: HUB CONNECTIVITY - TOP 20 AIRPORTS WORLDWIDE 2019 (% GROWTH OVER 2018 & RANKING IN 2018 AND 2009)



2.

HUB DYNAMICS - GLOBAL COMPETITION

Looking at the performance of the top 20 Global hubs over the past 10 years, competitive dynamics are pretty obvious with the impressive rise in hub connectivity achieved by Doha (+501.0%), Moscow-Sheremetyevo (+446.3%), Istanbul (+353.3%), Shanghai (+340.2%) and Dubai (+250.8%) – and the retrenchment of Paris-CDG (-7.7%), Atlanta (-11.3%) and Houston (-31.2%).

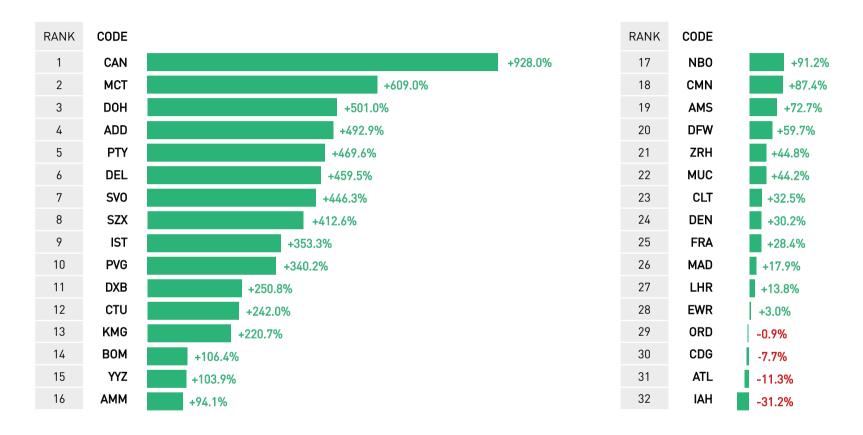
Amongst EU hubs, **Amsterdam-Schiphol** (+72.7%), **Zurich** (+44.8%) and **Munich** (+44.2%) still achieved significant gains in hub connectivity over the same period, followed by **Frankfurt** (+28.4%), **Madrid-Barajas** (+17.9%) and **London-Heathrow** (+13.8%).

Beyond the top 20 Global hubs and other well established hubs (Singapore, Hong Kong, Bangkok, Beijing, Kuala Lumpur and Abu Dhabi), **several airports in emerging markets** have also developed their hub connectivity aggressively since 2009 – positioning themselves as **new competitors & challengers for European hubs** on specific traffic flows. This is the case in particular of:

- Guangzhou (+928.0%), leading hub connectivity growth in China along with Shenzhen (+412.6%), Chengdu (+242.0%) and Kunming (+220.7%).
- Muscat (+609.0%) the hub newcomer in the Middle East serving demand between Europe and Asia, along with Amman (+94.1%).
- Addis Ababa (+492.9%) and Nairobi (+91.2%) increasingly capturing demand between North America/Europe and Africa.
- Casablanca (+87.4%) steadily reinforcing its niche on traffic flows between Europe and Western Africa.
- New Delhi (+459.5%) and Mumbai Chhatrapati Shivaji Maharaj
 (+106.4%) on traffic flows between Europe and India & Southeast Asia.
- **Panama City** (+469.9%) although not really a competitor for European hubs due to its geographical location and the fact that Copa its home based network carrier is not flying into Europe.

This shows that **the hub competition battleground is expanding globally** – and that it is no longer limited to airports in Europe, the Gulf and North America.

GRAPH 8: HUB CONNECTIVITY - TOP 20 AIRPORTS WORLDWIDE & EMERGING HUBS (% GROWTH 2019 OVER 2009)



3.

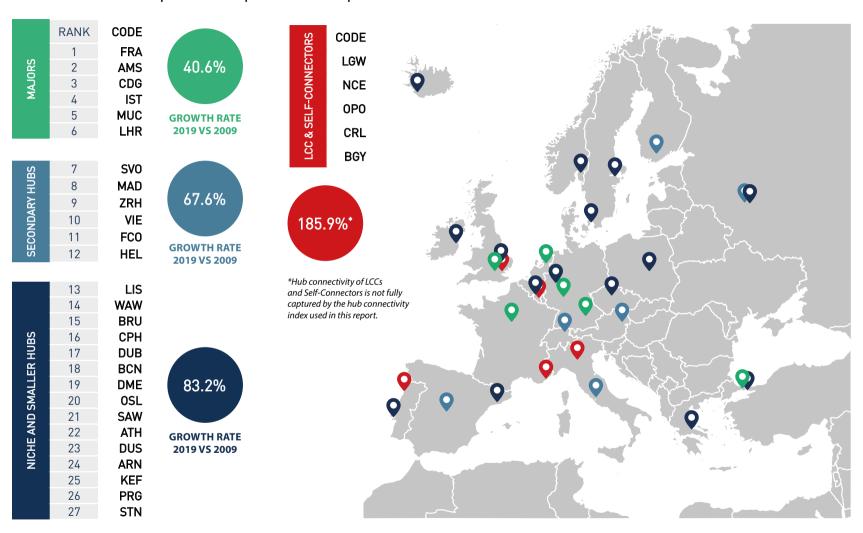
HUB DYNAMICS - EUROPEAN COMPETITION

Within the European market, **hub competition has also diversified and intensified over the past 10 years** with **the Majors** (+40.6% – but just +26.4% without Istanbul) facing increasing pressures not just from **Secondary Hubs** (+67.6%) but also from **Niche & Smaller Hubs** (+83.2%) – both having significantly increased their hub connectivity.

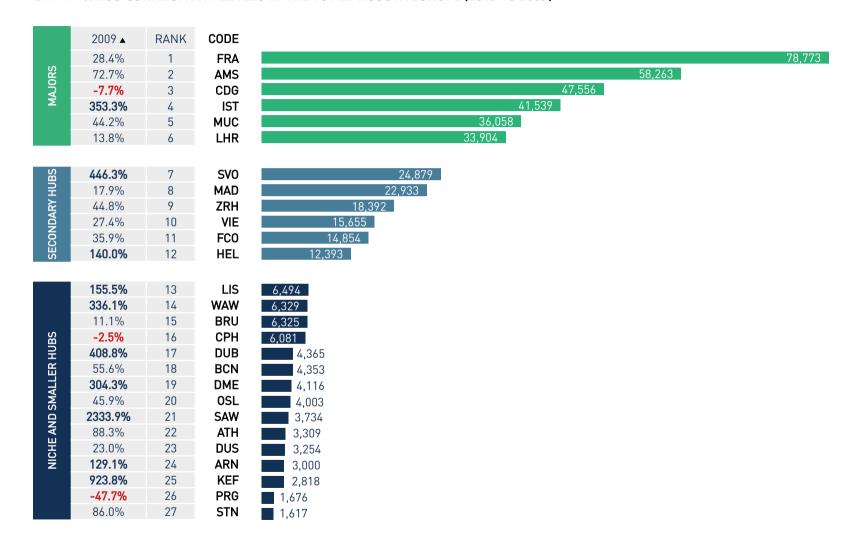
- Amongst <u>Secondary Hubs</u>, the performance of Moscow-Sheremetyevo (+446.3%), Helsinki (+140.0%) and Zurich (+44.8%) stands out.
- Amongst <u>Niche & Smaller Hubs</u>, Istanbul-Sabiha Gokcen (+2333.9%) and Keflavik (+923.8%) have now established themselves as fully fledged hubs, while Dublin (+408.8%), Warsaw (+336.1%), Moscow-Domodedovo (+304.3%), Lisbon (+155.5%) and Stockholm-Arlanda (+129.1%) have also taken a leading position in hub connectivity growth since 2009.
- LCCs & Self Connectors a new hub breed. Apart from the above airports, the recent development of connecting products by easyJet and Ryanair at London-Gatwick, Bergamo, Brussels-South (Charleroi) and Porto is also giving to these airports new hubbing capabilities, in addition to their initial point-to-point focus. Similarly, the initiative launched this June by Nice Côte d'Azur ('Nice Connect' 23.000 weekly connecting opportunities) to facilitate self-connections is also putting the airport on the hub map. The associated hub connectivity performance of these airports is however not fully captured by the hub connectivity index used for this report as it does not take into account connections between airlines without a codeshare agreement on the respective route. However, the hub connectivity index does take into account potential connections between two easyJet or Ryanair flights.

The above developments essentially reflect an **increasingly diversified market** where hub connectivity is no longer the preserve of the largest airports. Accordingly, the hub connectivity share of the Majors (top 6 airports by hub connectivity) has decreased since 2009 from 65.1% to 60.5%, while that of secondary and niche & smaller hubs has increased from 30.5% to 34.9%.

GRAPH 9: HUBS: MAJORS | SECONDARY | NICHE & SMALL | LCCS & SELF-CONNECTORS (RANKING IN 2019 & GROWTH BY GROUPS 2019 VS 2009)



GRAPH 10: HUB CONNECTIVITY LEVELS AT THE TOP 27 HUBS IN EUROPE (2019 VS 2009)



AIR CONNECTIVITY & AIRLINE BUSINESS MODELS

Over the past 10 years, Europe's direct connectivity gains (+29.7%) are almost entirely attributed to Low Cost Carriers (LCCs, +151.6%) as a result of their dynamic expansion and the near stagnation (+3.7%) of Full Service & Other Carriers (FSOCs).

GRAPH 11: EUROPE DIRECT CONNECTIVITY GROWTH (2019 VS 2009 - LCCs & FSOCs)



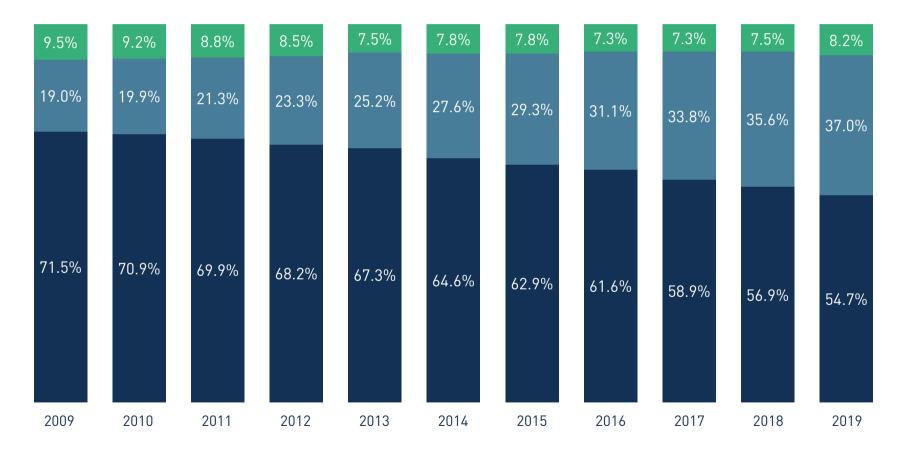
GRAPH 12: EU DIRECT CONNECTIVITY GROWTH (2019 VS 2009 - LCCs & FSOCs)



Delving deeper into the **EU market** and looking at the direct connectivity offered by **EU and non-EU airlines**, it is interesting to note that the increased liberalisation of traffic rights (pursued either bilaterally by EU States or through EU-negotiated aviation agreements) has not significantly altered market shares between EU and non-EU airlines over the past 10 years. In fact, the combined market share of EU LCCs & FSOCs is now slightly higher than what it was back in 2009.

■ EU FSOCs ■ EU LCCs ■ NON-EU (FSOCs & LCCs)

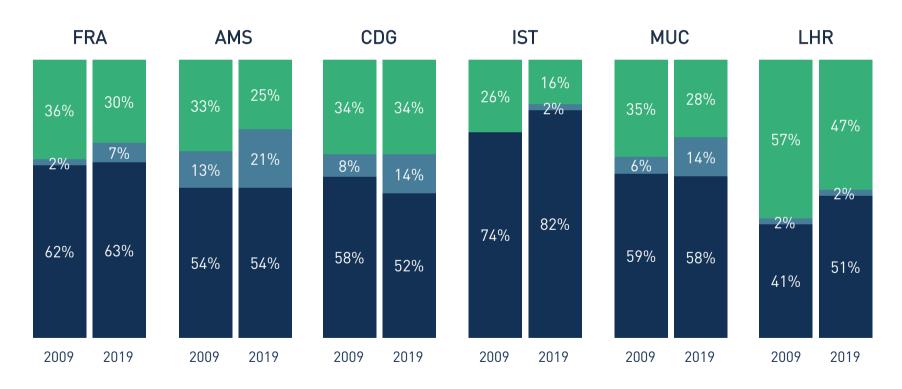
GRAPH 13: EU AIRPORTS - DIRECT CONNECTIVITY MARKET SHARE BY AIRLINE TYPES (EU FSOCs, EU LCCs, OTHERS (NON-EU AIRLINES)

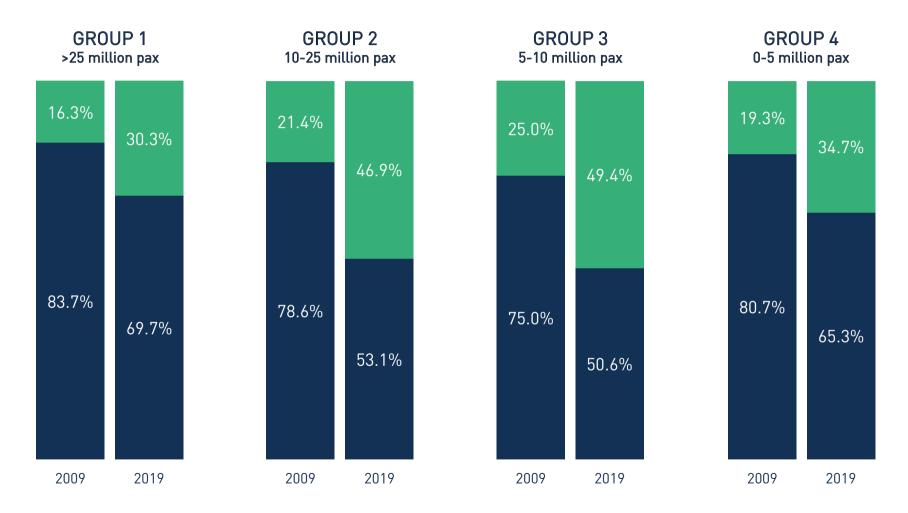


The share of direct connectivity offered by LCCs at the Major hubs (Frankfurt, Amsterdam-Schiphol, Paris-CDG, Istanbul, Munich and London-Heathrow) has increased from 5% to 10% over the past 10 years, reflecting their move upmarket. Their highest penetration has been achieved at Amsterdam-Schiphol (21%), Paris-CDG (14%) and Munich (14%). The increase in direct connectivity offered by LCCs at Major hubs has generally not been achieved at the expense of the share of direct connectivity offered by their home based hub carriers – the notable exception being Paris-CDG, where Air France's share of direct connectivity decreased from 58% in 2009 to 52% in 2019. However, where LCCs have been unable to increase significantly their share of direct connectivity (Istanbul and London-Heathrow), home based hub carriers have seen their own share of direct connectivity increasing very significantly.

BASED HUB CARRIER I CCs OTHERS

GRAPH 14: MAJOR HUBS: DIRECT CONNECTIVITY MARKET SHARE BY AIRLINE TYPES (BASED HUB CARRIER, LCCs & OTHERS)





GRAPH 16: EU COUNTRIES - DIRECT CONNECTIVITY: MARKET SHARE BY AIRLINE TYPES (BASED HUB CARRIERS, LCCs & OTHERS)

| | | | 2009 | | | 2019 | 2019 | | |
|----------------|-------------------------|-------|-------|--------|-------|-------|--------|--|--|
| Country | HB carrier ¹ | НВ | LCCs | Others | НВ | LCCs | Others | | |
| Austria | 0S | 50.6% | 13.8% | 35.6% | 50.6% | 25.8% | 23.6% | | |
| Belgium | SN | 32.2% | 14.1% | 53.7% | 32.3% | 37.2% | 30.5% | | |
| Bulgaria | FB | 32.1% | 17.3% | 50.6% | 19.8% | 36.2% | 44.0% | | |
| Croatia | OU | 53.8% | 20.5% | 25.7% | 30.6% | 37.1% | 32.3% | | |
| Cyprus | CY* | 37.2% | 20.0% | 42.8% | 5.0% | 46.8% | 48.2% | | |
| Czech Republic | OK | 59.2% | 14.2% | 26.6% | 39.3% | 23.6% | 37.1% | | |
| Denmark | SK | 40.3% | 10.4% | 49.3% | 37.5% | 29.4% | 33.1% | | |
| Estonia | 0V/L0* | 47.0% | 3.5% | 49.5% | 20.5% | 11.2% | 68.3% | | |
| Finland | AY | 45.3% | 2.1% | 52.6% | 71.0% | 10.8% | 18.2% | | |
| France | AF | 53.9% | 11.6% | 34.5% | 29.3% | 29.2% | 41.5% | | |
| Germany | LH | 44.2% | 12.9% | 42.9% | 34.2% | 36.5% | 29.3% | | |
| Greece | 0A/A3* | 60.0% | 11.7% | 28.3% | 30% | 32.1% | 37.9% | | |
| Hungary | MA/L0* | 53.1% | 15.5% | 31.4% | 6.0% | 55.9% | 38.1% | | |
| Ireland | El | 31.5% | 43.1% | 25.4% | 38.6% | 41.1% | 20.3% | | |
| Italy | AZ | 19.0% | 23.6% | 57.4% | 22.4% | 45.7% | 31.9% | | |
| Latvia | BT | 75.2% | 12.1% | 12.7% | 69.9% | 14.0% | 16.1% | | |
| Lithuania | BT | 38.3% | 12.7% | 49.0% | 15.1% | 38.4% | 46.5% | | |
| Luxembourg | LG | 75.9% | - | 24.1% | 57.4% | 13.8% | 28.8% | | |
| Malta | KM | 64.3% | 18.3% | 17.4% | 33.3% | 47.8% | 18.9% | | |
| Netherlands | KL | 50.5% | 16.5% | 33.0% | 47.4% | 29.2% | 23.4% | | |
| Poland | LO | 46.7% | 24.7% | 28.6% | 42.0% | 34.0% | 24.0% | | |
| Portugal | TP | 43.4% | 23.9% | 32.7% | 35.1% | 38.6% | 26.3% | | |
| Romania | R0 | 33.0% | 22.0% | 45.0% | 27.7% | 50.5% | 21.8% | | |
| Slovakia | QS&6D* | - | 70.9% | 29.1% | 33.9% | 40.0% | 26.1% | | |
| Slovenia | JP | 80.0% | 2.4% | 17.6% | 66.4% | 9.6% | 24.0% | | |
| Spain | IB | 28.9% | 29.3% | 41.8% | 15.5% | 54.1% | 30.4% | | |
| Sweden | SK | 28.7% | 8.4% | 62.9% | 33.7% | 22.5% | 43.8% | | |
| United Kingdom | BA | 18.4% | 28.9% | 52.6% | 18.9% | 46.6% | 34.5% | | |
| Total | | 36.0% | 19.6% | 44.4% | 28.8% | 40.5% | 30.7% | | |

1. IATA designator

HB = Based hub carrier or home carrier

LCC = Low Cost Carrier

Others = Regional carriers and others

^{*}CY - Charlie Airlines, operating as Cyprus Airways, founded in 2016. *OV - Estonian Air was the flag carrier in Estonia until 2015. Nordica (LO) was established immediately after. *Malév ceased operations in 2012. *Slovakia did not have a FSC home based carrier in 2009. By 2019, SmartwingsSlovakia (QS&6D) has taken the leading role.

GRAPH 17: NON-EU COUNTRIES - DIRECT CONNECTIVITY: MARKET SHARE BY AIRLINE TYPES (BASED HUB CARRIERS, LCCs & OTHERS)

| | | | 2009 | | 2019 | | | | | |
|----------------------|-------------------------|-------|-------|--------|-------|-------|--------|--|--|--|
| Country | HB carrier ¹ | НВ | LCCs | Others | НВ | LCCs | Others | | | |
| Iceland | FI | 67.5% | 2.1% | 30.4% | 71.7% | 10.7% | 17.6% | | | |
| Norway | SK | 35.2% | 15.8% | 49.0% | 30.5% | 23.5% | 46.0% | | | |
| Switzerland | LX | 37.3% | 12.9% | 49.8% | 34.8% | 31.3% | 33.9% | | | |
| Russian Federation | SU | 19.7% | 0.3% | 80.0% | 35.6% | 6.8% | 57.6% | | | |
| Turkey | TK | 60.7% | 6.2% | 33.1% | 55.2% | 32.2% | 12.6% | | | |
| Ukraine | PS | 14.6% | 0.8% | 84.6% | 51.5% | 8.1% | 40.4% | | | |
| Belarus | B2 | 65.4% | - | 34.6% | 72.0% | 0.2% | 27.8% | | | |
| Israel | LY | 32.7% | 2.1% | 65.3% | 22.6% | 16.6% | 60.8% | | | |
| Moldova | 9U | 47.9% | - | 52.1% | 44.8% | 21.2% | 34.0% | | | |
| Georgia | A9 | 27.8% | - | 72.2% | 18.4% | 21.8% | 59.8% | | | |
| Bosnia & Herzegovina | JA* | 21.8% | 6.3% | 71.9% | - | 34.1% | 65.9% | | | |
| Serbia | JU | 51.1% | 2.7% | 46.2% | 50.4% | 13.8% | 35.8% | | | |
| Montenegro | YM | 58.1% | - | 41.9% | 34.1% | 17.1% | 48.8% | | | |
| Albania | - | - | 8.8% | 91.2% | - | 34.9% | 65.1% | | | |
| North Macedonia | - | - | 1.0% | 99.0% | - | 51.2% | 48.8% | | | |
| Kosovo | - | - | - | - | - | 50.7% | 49.3% | | | |
| Total | | 36.9% | 8.3% | 54.8% | 43.4% | 22.4% | 34.2% | | | |

1. IATA designator

HB = Based hub carrier or home carrier

LCC = Low Cost Carrier

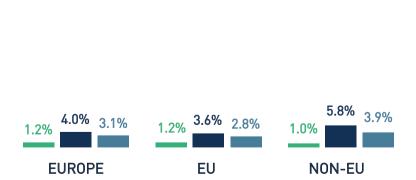
Others = Regional carriers and others

^{*}B&H Airlines (JA) was the flag carrier of Bosnia and Herzegovina until 2015. *Albania, North Macedonia and Kosovo do not have hub carrier.

EUROPEAN & EU MARKETS OVERVIEW

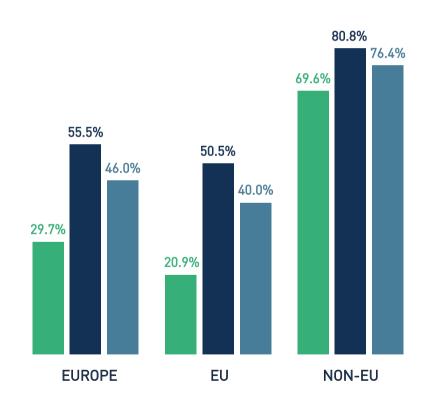
GRAPH 18: DIRECT, INDIRECT & AIRPORT CONNECTIVITY (2019 VS 2018)

DIRECT CONNECTIVITY INDIRECT CONNECTIVITY AIRPORT CONNECTIVITY

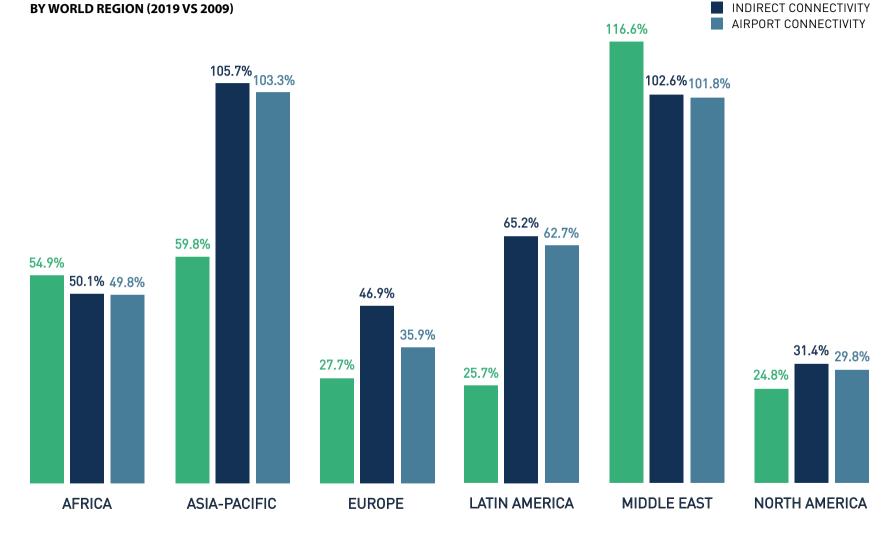


GRAPH 19: DIRECT, INDIRECT & AIRPORT CONNECTIVITY (2019 VS 2009)





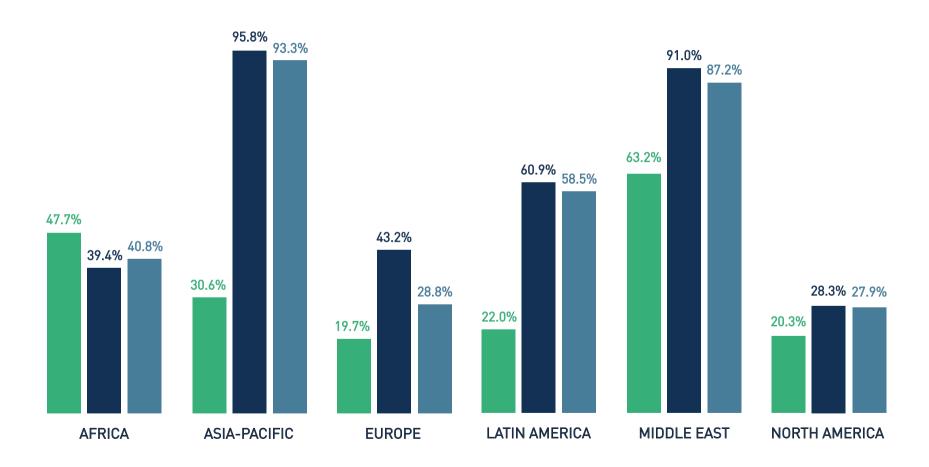
GRAPH 20: DIRECT, INDIRECT & AIRPORT CONNECTIVITY FROM EUROPEAN AIRPORTS **BY WORLD REGION (2019 VS 2009)**



DIRECT CONNECTIVITY

GRAPH 21: **DIRECT, INDIRECT AND AIRPORT CONNECTIVITY FROM <u>EU AIRPORTS</u> BY WORLD REGION (2019 VS 2009)**





APPENDIXES

APPENDIX 1: CONNECTIVITY BY COUNTRY

| | CC | ONNECT | IVITY TY | PE | GDP 2018 | GROWTH 2019 VS 2018 | | | GROWTH 2019 VS 2014 | | | | GROWTH 2019 VS 2009 | | | | |
|--------------------|--------|----------|----------|---------|-----------|---------------------|----------|---------|---------------------|--------|----------|---------|---------------------|--------|----------|---------|--------|
| Country | Direct | Indirect | Airport | Hub | (euros) | Direct | Indirect | Airport | Hub | Direct | Indirect | Airport | Hub | Direct | Indirect | Airport | Hub |
| Spain | 20,393 | 33,058 | 53,451 | 27,994 | 1,208,248 | 2.7% | 6.4% | 5.0% | 9.2% | 31.8% | 43.8% | 39.0% | 49.0% | 19.0% | 55.0% | 39.0% | 18.1% |
| Germany | 19,164 | 54,687 | 73,851 | 121,141 | 3,386,000 | 0.0% | 2.8% | 2.1% | 0.2% | 12.8% | 18.6% | 17.0% | 15.9% | 8.1% | 41.6% | 31.1% | 33.2% |
| United Kingdom | 18,151 | 39,680 | 57,832 | 39,652 | 2,393,693 | -0.8% | 0.4% | 0.0% | 0.9% | 9.6% | 19.3% | 16.1% | 7.6% | 11.0% | 42.4% | 30.7% | 21.2% |
| France | 14,604 | 31,531 | 46,135 | 49,972 | 2,348,991 | 0.7% | 4.6% | 3.3% | -1.5% | 9.0% | 18.2% | 15.1% | -4.2% | 8.9% | 34.2% | 25.0% | -8.0% |
| Turkey | 12,975 | 14,482 | 27,457 | 45,675 | 753,784 | 2.5% | 13.7% | 8.1% | 18.1% | 26.4% | 21.0% | 23.5% | 34.6% | 159.9% | 144.5% | 151.5% | 386.1% |
| Italy | 12,639 | 30,826 | 43,465 | 17,755 | 1,756,982 | 3.7% | 5.2% | 4.8% | 8.5% | 16.9% | 30.1% | 26.0% | 21.3% | 17.5% | 50.3% | 39.1% | 42.6% |
| Russian Federation | 10,230 | 12,974 | 23,204 | 30,043 | 1,397,200 | 7.7% | 3.2% | 5.2% | 18.8% | 48.7% | 30.8% | 38.2% | 76.9% | 103.8% | 92.1% | 97.1% | 393.2% |
| Norway | 7,007 | 8,350 | 15,357 | 4,395 | 368,389 | -6.7% | -0.4% | -3.4% | -3.1% | -7.8% | -5.5% | -6.5% | -2.3% | 0.3% | 30.9% | 14.9% | 45.2% |
| Greece | 6,588 | 8,910 | 15,498 | 3,404 | 184,714 | 5.3% | 8.1% | 6.9% | 3.1% | 61.7% | 71.5% | 67.2% | 65.4% | 49.8% | 83.8% | 67.6% | 89.6% |
| Netherlands | 5,517 | 12,085 | 17,603 | 58,354 | 773,373 | 1.0% | 4.7% | 3.5% | 0.9% | 19.2% | 18.1% | 18.4% | 18.0% | 38.1% | 35.1% | 36.0% | 73.0% |
| Switzerland | 4,632 | 15,249 | 19,881 | 19,920 | 597,314 | -0.6% | 1.9% | 1.3% | 8.5% | 5.2% | 16.0% | 13.3% | 28.6% | 21.0% | 47.3% | 40.2% | 48.5% |
| Portugal | 4,480 | 10,293 | 14,773 | 6,807 | 201,606 | 1.2% | 2.2% | 1.9% | -1.5% | 49.7% | 68.4% | 62.3% | 52.0% | 77.8% | 125.9% | 108.8% | 156.3% |
| Sweden | 4,206 | 9,267 | 13,473 | 3,458 | 467,012 | -7.5% | 0.7% | -2.0% | -13.8% | 2.4% | 23.9% | 16.3% | 13.3% | 38.1% | 56.1% | 50.0% | 130.3% |
| Poland | 3,238 | 7,542 | 10,780 | 6,426 | 496,461.8 | 3.9% | 5.3% | 4.9% | 19.7% | 66.5% | 47.0% | 52.4% | 177.0% | 74.2% | 84.5% | 81.3% | 337.1% |
| Austria | 3,178 | 9,074 | 12,252 | 15,698 | 386,094 | 10.7% | 4.7% | 6.2% | 2.9% | 10.2% | 22.7% | 19.2% | 20.1% | 4.5% | 45.4% | 32.0% | 27.5% |
| Denmark | 2,983 | 7,728 | 10,711 | 6,103 | 297,634 | -1.8% | -0.1% | -0.6% | 7.6% | 9.4% | 16.2% | 14.2% | -2.1% | 18.0% | 50.2% | 39.6% | -2.6% |
| Ireland | 2,832 | 7,579 | 10,411 | 4,416 | 318,460 | 0.3% | 4.3% | 3.2% | 4.4% | 27.8% | 36.0% | 33.7% | 121.0% | 35.2% | 75.9% | 62.5% | 400.7% |
| Belgium | 2,785 | 6,495 | 9,280 | 6,399 | 450,506 | -0.8% | 2.7% | 1.6% | -8.9% | 5.5% | 11.5% | 9.7% | -1.0% | 19.7% | 26.0% | 24.0% | 12.0% |
| Finland | 2,457 | 6,383 | 8,840 | 12,397 | 233,555 | -1.2% | 3.2% | 1.9% | 7.0% | 14.3% | 22.9% | 20.4% | 62.2% | 20.3% | 46.4% | 38.1% | 140.0% |
| Romania | 1,688 | 3,255 | 4,944 | 354 | 202,884 | -2.1% | -5.8% | -4.5% | 3.3% | 75.5% | 10.6% | 26.6% | 31.4% | 41.8% | 23.1% | 28.9% | 0.4% |

| | C | ONNECT | IVITY TY | PE | GDP 2018 | GR | OWTH 2 | 019 VS 2 | 2018 | GR | OWTH 2 | 019 VS 2 | 014 | GR | OWTH 2 | 019 VS : | 2009 |
|---------------------|--------|----------|----------|-------|----------|--------|----------|----------|--------|--------|----------|----------|---------|--------|----------|----------|----------|
| Country | Direct | Indirect | Airport | Hub | (euros) | Direct | Indirect | Airport | Hub | Direct | Indirect | Airport | Hub | Direct | Indirect | Airport | Hub |
| Czech Republic | 1,575 | 4,333 | 5,909 | 1,678 | 206,823 | -4.5% | 5.8% | 2.8% | -17.1% | 25.0% | 41.2% | 36.5% | 8.8% | 4.6% | 57.8% | 39.0% | -47.6% |
| Israel | 1,519 | 5,311 | 6,830 | 190 | 312,710 | 1.4% | 6.0% | 5.0% | 19.3% | 35.3% | 44.9% | 42.7% | 109.9% | 107.8% | 63.8% | 71.9% | 187.1% |
| Croatia | 1,401 | 3,915 | 5,316 | 114 | 51,468 | 7.3% | 9.5% | 8.9% | -8.6% | 61.1% | 82.2% | 76.1% | 1931.8% | 104.9% | 151.9% | 137.5% | 1518.6% |
| Ukraine | 1,095 | 2,346 | 3,441 | 1,088 | 99,278 | 16.4% | 14.5% | 15.1% | -9.0% | 19.4% | 5.3% | 9.4% | -16.9% | 30.9% | 28.7% | 29.4% | 354.2% |
| Hungary | 1,083 | 3,302 | 4,385 | 223 | 131,935 | 4.3% | 5.3% | 5.0% | 13.5% | 47.6% | 38.3% | 40.5% | 208.6% | 4.7% | 37.4% | 27.6% | -80.6% |
| Bulgaria | 979 | 2,067 | 3,045 | 48 | 55,182 | -0.3% | 11.4% | 7.4% | -2.0% | 76.3% | 46.2% | 54.7% | 28.7% | 84.7% | 57.5% | 65.4% | 32.8% |
| Latvia | 845 | 1,447 | 2,292 | 907 | 29,524 | 5.8% | 8.1% | 7.3% | 28.7% | 40.7% | 60.8% | 52.8% | 196.0% | 47.1% | 136.9% | 93.4% | 160.1% |
| Cyprus | 827 | 1,407 | 2,234 | 33 | 20,731 | -4.6% | -2.5% | -3.3% | -40.5% | 70.2% | 86.7% | 80.2% | 15.0% | 64.6% | 104.4% | 87.6% | -65.8% |
| Serbia | 632 | 1,758 | 2,390 | 263 | 42,780 | 9.0% | 9.0% | 9.0% | 4.9% | 13.9% | 31.9% | 26.6% | -4.0% | 74.1% | 79.0% | 77.7% | 611.0% |
| Luxembourg | 560 | 1,945 | 2,505 | 82 | 58,869.2 | 0.1% | -1.3% | -1.0% | 2.8% | 30.9% | 33.0% | 32.6% | 41.4% | 46.0% | 75.6% | 68.0% | 158.2% |
| Malta | 557 | 1,628 | 2,185 | 79 | 12,320 | 5.5% | 7.5% | 7.0% | 6.4% | 55.7% | 124.4% | 101.7% | 89.7% | 97.4% | 266.1% | 200.6% | 130.8% |
| Iceland | 552 | 1,336 | 1,888 | 2,818 | 21,918 | -24.2% | -4.3% | -11.1% | -38.9% | 48.4% | 361.7% | 185.4% | 100.5% | 187.8% | 2268.1% | 660.3% | 923.8% |
| Lithuania | 511 | 1,149 | 1,660 | 11 | 45,114 | -2.8% | 2.4% | 0.8% | 67.6% | 34.2% | 100.5% | 74.1% | -10.7% | 118.6% | 157.0% | 143.8% | 13218.89 |
| Belarus | 505 | 1,049 | 1,554 | 40 | 48,204 | 9.8% | 9.9% | 9.9% | 72.0% | 71.0% | 86.9% | 81.4% | 132.7% | 251.9% | 236.8% | 241.6% | 4164.3% |
| Georgia | 502 | 1,203 | 1,705 | 17 | 13,350 | 5.1% | 21.9% | 16.5% | 49.2% | 126.5% | 104.2% | 110.3% | 763.6% | 281.3% | 361.7% | 334.7% | 196.6% |
| Estonia | 383 | 1,368 | 1,751 | 6 | 25,657 | -5.3% | -4.1% | -4.3% | -70.6% | 35.3% | 28.9% | 30.3% | -27.6% | 69.6% | 195.6% | 154.3% | 28.1% |
| Montenegro | 295 | 648 | 943 | 10 | 4,288 | 5.2% | -0.6% | 1.2% | 177.3% | 73.3% | 125.4% | 106.0% | 152.3% | 96.0% | 734.4% | 313.1% | 161.8% |
| Moldova | 281 | 589 | 869 | 62 | 7,195 | -1.0% | 8.7% | 5.4% | -2.2% | 68.9% | 58.2% | 61.5% | 335.1% | 149.2% | 251.3% | 210.3% | 785.3% |
| Albania | 255 | 743 | 998 | 1 | 12,746 | 18.3% | 23.0% | 21.8% | 909.2% | -2.3% | 52.3% | 33.3% | -26.1% | 41.4% | 126.3% | 96.2% | -55.1% |
| Slovenia | 248 | 1,136 | 1,383 | 167 | 45,948 | -9.7% | 3.2% | 0.6% | -46.3% | 23.7% | 54.2% | 47.7% | 69.4% | -15.4% | 32.7% | 20.4% | -4.6% |
| North Macedonia | 186 | 401 | 587 | 0 | 10,735 | 6.4% | 1.3% | 2.9% | | 49.8% | 47.8% | 48.4% | | 97.3% | 137.4% | 123.0% | 417.3% |
| Slovak Republic | 168 | 41 | 209 | 9 | 90,202 | -7.3% | -26.3% | -11.7% | -15.1% | 95.2% | 65.3% | 88.5% | 1774.1% | 17.5% | -39.4% | -0.7% | -9.8% |
| osnia & Herzegovina | 115 | 618 | 732 | 1 | 16,759 | 15.2% | 18.7% | 18.2% | -80.7% | 12.5% | 60.0% | 50.1% | -19.4% | 22.9% | 140.7% | 109.3% | |

APPENDIX 2: GLOSSARY OF AIRPORT CODES

1.1 AIRPORTS WITHIN EUROPE

| CODE | AIRPORT NAME | COUNTRY |
|------|-------------------------|--------------------|
| AMS | Amsterdam Schiphol | Netherlands |
| ARN | Stockholm | Sweden |
| ATH | Athens | Greece |
| BCN | Barcelona | Spain |
| BGY | Milan Bergamo | Italy |
| BRU | Brussels | Belgium |
| CDG | Paris-Charles de Gaulle | France |
| CPH | Copenhagen | Denmark |
| CRL | Charleroi | Belgium |
| DME | Moscow Domodedovo | Russian Federation |
| DUB | Dublin | Ireland |
| DUS | Düsseldorf | Germany |
| FC0 | Rome Fiumicino | Italy |
| FRA | Frankfurt | Germany |
| HEL | Helsinki | Finland |
| IST | Istanbul | Turkey |
| KEF | Keflavik | Iceland |
| LGW | London Gatwick | United Kingdom |
| LHR | London Heathrow | United Kingdom |
| LIS | Lisbon | Portugal |
| MAD | Madrid | Spain |

| MAN | Manchester | United Kingdom |
|-----|------------------------|--------------------|
| MUC | Munich | Germany |
| MXP | Milan Malpensa | Italy |
| NCE | Nice | France |
| 0P0 | Porto | Portugal |
| ORY | Paris Orly | France |
| 0SL | Oslo | Norway |
| PMI | Palma De Mallorca | Spain |
| PRG | Prague | Czech Republic |
| SAW | Istanbul Sabiha Gokcen | Turkey |
| STN | London Stansted | United Kingdom |
| SV0 | Moscow Sheremetyevo | Russian Federation |
| VIE | Vienna | Austria |
| WAW | Warsaw | Poland |
| ZRH | Zurich | Switzerland |

APPENDIX 2: GLOSSARY OF AIRPORT CODES

1.2 AIRPORTS BEYOND EUROPE

| CODE | AIRPORT NAME | COUNTRY |
|------|------------------------------------|----------------------|
| ADD | Addis Ababa Bole | Ethiopia |
| AMM | Amman Queen Alia | Jordan |
| ATL | Hartsfield–Jackson Atlanta | United States |
| ВОМ | Mumbai Chhatrapati Shivaji Maharaj | India |
| CAN | Guangzhou Baiyun | China |
| CLT | Charlotte Douglas | United States |
| CMN | Casablanca Mohammed V | Morocco |
| CTU | Chengdu Shuangliu | China |
| DEL | New Delhi Indira Gandhi | India |
| DEN | Denver | United States |
| DFW | Dallas-Fort Worth | United States |
| DOH | Doha Hamad | Qatar |
| DXB | Dubai | United Arab Emirates |
| EWR | Newark Liberty | United States |
| IAH | Houston George Bush | United States |
| KMG | Kunming Wujiaba | China |
| MCT | Muscat | Oman |
| NB0 | Nairobi Jomo Kenyatta | Kenya |
| ORD | Chicago-O'Hare | United States |
| PTY | Panama Tocumen | Panama |
| PVG | Shanghai Pudong | China |
| SZX | Shenzhen Bao'an | China |
| YYZ | Toronto-Pearson | Canada |

APPENDIX 3: LIST OF SELECTED LOW COST CARRIERS (LCCs)

| CODE | AIRLINE NAME |
|----------|--------------------------------|
| G9 | Air Arabia |
| 30 | Air Arabia Maroc |
| ZM | Air Manas |
| 2B | Albawings |
| AD | Azul Airlines |
| OB | Blue Air |
| BV | Blue Panorama Airlines |
| SS | Corsair |
| U2 | Easyjet |
| WK | Edelweiss Air |
| EW | Eurowings |
| 5F | Fly One |
| FZ | Flydubai |
| XY | Flynas - National Air Services |
| BF | French Bee |
| 4U | germanwings |
| LS | Jet2.com |
| 0E | Laudamotion |
| VK/IB/LV | Level |
| ZB | Monarch Airlines |
| D8 | Norwegian |
| DY | Norwegian Air Shuttle |
| 8K | Onur Air Tasimacilik A.S. |

| PC | Pegasus Airlines |
|----|----------------------------------|
| DP | Pobeda |
| PF | Primera Air |
| FR | Ryanair |
| TR | Scoot |
| NE | SkyEurope |
| NB | Sterling Airlines |
| SQ | SunExpress |
| XG | SunExpress Deutschland GmbH |
| MT | Thomas Cook Airlines |
| HQ | Thomas Cook Airlines Belgium N.V |
| DK | Thomas Cook Scandinavia |
| BY | TUI Airways |
| HV | Transavia.com |
| TO | Transavia.com France |
| ТВ | TUI fly Belgium |
| OR | TUI fly Netherlands |
| Х3 | TUIfly |
| 6B | TUIfly Nordic AB |
| V7 | Volotea |
| VY | Vueling Airlines |
| WS | Westjet |
| W6 | Wizz Air |
| WW | WOW Air |
| SE | XL Airways France |

APPENDIX 4: LIST OF SELECTED BASED HUB CARRIERS

| CODE | AIRLINE NAME |
|------|---------------------------------|
| JP | Adria Airways |
| A3 | Aegean Airlines |
| El | Aer Lingus |
| SU | Aeroflot |
| BT | Air Baltic |
| AF | Air France |
| KM | Air Malta |
| 9U | Air Moldova |
| JU | Air Serbia |
| AZ | Alitalia |
| 0S | Austrian Airlines |
| JA | B&H Airlines |
| B2 | Belavia - Belarusian Airlines |
| ВА | British Airways |
| SN | Brussels Airlines |
| FB | Bulgaria Air |
| CY | Charlie Airlines/Cyprus Airways |
| 0U | Croatia Airlines |
| 0K | Czech Airlines |
| LY | El Al Israel Airlines |
| OV | Estonian Air |
| AY | Finnair |
| A9 | Georgian Airways |

| IB | Iberia |
|----|--------------------------------|
| Fl | Icelandair |
| KL | KLM |
| LO | LOT Polish Airlines |
| LH | Lufthansa |
| LG | Luxair |
| MA | MALÉV |
| YM | Montenegro Airlines |
| OA | Olympic Air |
| SK | Scandinavian Airlines System |
| QS | Smartwings |
| LX | SWISS |
| TP | TAP Portugal |
| R0 | TAROM |
| 6D | Travel Service |
| TK | Turkish Airlines |
| PS | Ukraine International Airlines |

APPENDIX 5: CONNECTIVITY BY INDIVIDUAL AIRPORTS

| | | ABSOLUTE 2019 | | | GROWTH 2019 VS 2018 | | | GROW | TH 2019 V | 'S 2014 | GROWTH 2019 VS 2009 | | |
|------|------------------------------------|---------------|----------|---------|---------------------|----------|---------|--------|-----------|---------|---------------------|----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| FRA | Frankfurt | 5,098 | 14,145 | 19,243 | 0.0% | 1.5% | 1.1% | 10.1% | 3.0% | 4.8% | 13.3% | 25.6% | 22.1% |
| AMS | Amsterdam | 4,870 | 11,962 | 16,832 | 0.2% | 5.1% | 3.7% | 16.8% | 19.6% | 18.8% | 30.3% | 33.9% | 32.8% |
| CDG | Paris Charles de Gaulle | 4,760 | 15,710 | 20,469 | 3.2% | 4.4% | 4.1% | 6.4% | 16.2% | 13.8% | -0.3% | 39.7% | 27.7% |
| LHR | London Heathrow | 4,682 | 21,244 | 25,925 | 0.3% | 2.7% | 2.3% | -0.7% | 21.0% | 16.4% | 0.8% | 49.8% | 37.7% |
| IST | Istanbul | 4,474 | 5,755 | 10,229 | 3.6% | 11.3% | 7.8% | 12.6% | 6.7% | 9.2% | 89.6% | 70.4% | 78.3% |
| MUC | Munich | 4,051 | 10,735 | 14,786 | -1.6% | 12.8% | 8.4% | 15.1% | 24.7% | 21.9% | 7.3% | 69.3% | 46.2% |
| MAD | Madrid-Barajas | 3,977 | 8,999 | 12,976 | 4.2% | 6.2% | 5.6% | 24.5% | 24.2% | 24.3% | -4.9% | 50.6% | 27.7% |
| SV0 | Sheremetyevo International Airport | 3,740 | 3,318 | 7,058 | 17.1% | -1.6% | 7.5% | 61.5% | 36.0% | 48.4% | 178.2% | 74.0% | 117.1% |
| BCN | Barcelona-El Prat | 3,453 | 7,768 | 11,221 | 1.9% | 5.5% | 4.4% | 21.2% | 35.5% | 30.7% | 24.5% | 52.8% | 42.8% |
| FC0 | Rome Fiumicino | 3,289 | 8,288 | 11,577 | 2.6% | 2.3% | 2.4% | 1.0% | 25.0% | 17.1% | 4.6% | 43.1% | 29.5% |
| LGW | London Gatwick | 2,961 | 1,721 | 4,683 | 0.4% | -1.1% | -0.1% | 10.1% | 60.7% | 24.5% | 23.6% | 37.1% | 28.2% |
| VIE | Vienna | 2,754 | 6,233 | 8,987 | 13.8% | 7.8% | 9.6% | 16.4% | 36.9% | 29.9% | 15.2% | 70.2% | 48.5% |
| CPH | Copenhagen | 2,630 | 6,179 | 8,809 | -2.3% | -1.0% | -1.4% | 8.4% | 12.0% | 10.9% | 16.2% | 40.7% | 32.4% |
| PMI | Palma de Mallorca | 2,624 | 2,058 | 4,682 | 3.9% | 12.2% | 7.4% | 33.6% | 94.7% | 55.0% | 45.5% | 218.1% | 91.1% |
| ZRH | Zürich | 2,528 | 8,030 | 10,557 | 0.3% | 0.8% | 0.7% | 9.3% | 14.3% | 13.1% | 16.2% | 47.1% | 38.3% |
| 0SL | Oslo | 2,494 | 3,938 | 6,432 | -2.8% | -1.6% | -2.1% | 4.8% | 4.7% | 4.7% | 23.1% | 29.1% | 26.7% |
| ORY | Paris-Orly | 2,406 | 1,131 | 3,537 | -1.8% | 7.8% | 1.1% | 1.1% | 4.5% | 2.2% | 10.8% | 80.6% | 26.4% |
| ARN | Stockholm-Arlanda | 2,402 | 5,792 | 8,194 | -5.2% | 1.1% | -0.8% | 2.5% | 22.8% | 16.0% | 45.2% | 43.0% | 43.6% |
| ATH | Athens | 2,377 | 4,770 | 7,147 | 7.7% | 11.7% | 10.3% | 63.6% | 55.8% | 58.4% | 18.4% | 52.3% | 39.1% |
| DUB | Dublin | 2,353 | 6,393 | 8,746 | 0.9% | 5.8% | 4.4% | 37.5% | 42.5% | 41.1% | 50.8% | 95.8% | 81.3% |

| | | | SOLUTE 2 | 019 | GROW | TH 2019 V | 'S 2018 | GROW | TH 2019 V | 'S 2014 | GROW | TH 2019 VS 2009 | | |
|------|-------------------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------------|---------|--|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | |
| SAW | Sabiha Gökçen International | 2,285 | 857 | 3,142 | 8.0% | 21.3% | 11.3% | 37.9% | 340.7% | 69.7% | 523.7% | 2296.1% | 681.3% | |
| DUS | Düsseldorf | 2,190 | 6,151 | 8,340 | 5.3% | 2.0% | 2.8% | 10.1% | 22.9% | 19.2% | 3.9% | 44.5% | 31.0% | |
| LIS | Lisbon | 2,185 | 6,442 | 8,628 | -0.8% | 1.4% | 0.8% | 44.3% | 51.3% | 49.4% | 80.2% | 103.7% | 97.2% | |
| BRU | Brussels | 2,155 | 6,395 | 8,551 | -1.3% | 2.6% | 1.6% | 0.0% | 11.3% | 8.2% | 8.1% | 24.7% | 20.0% | |
| MAN | Manchester | 2,146 | 5,185 | 7,331 | 0.8% | -0.2% | 0.1% | 23.2% | 12.6% | 15.5% | 41.8% | 35.4% | 37.2% | |
| DME | Moscow Domodedovo | 2,056 | 2,106 | 4,163 | -6.0% | -1.1% | -3.6% | 1.7% | -12.0% | -5.7% | 28.1% | 3.3% | 14.2% | |
| MXP | Milan Malpensa | 2,008 | 5,698 | 7,705 | 8.4% | 2.4% | 3.9% | 33.2% | 42.5% | 40.0% | 19.0% | 35.7% | 30.9% | |
| TXL | Berlin Tegel | 1,943 | 6,041 | 7,984 | 12.3% | 1.6% | 4.0% | 8.2% | 38.5% | 29.6% | 30.2% | 66.1% | 55.7% | |
| HEL | Helsinki | 1,894 | 3,778 | 5,672 | 0.0% | 3.5% | 2.3% | 21.7% | 22.9% | 22.5% | 30.6% | 35.3% | 33.7% | |
| STN | London Stansted | 1,846 | 394 | 2,239 | -0.6% | 7.2% | 0.7% | 31.2% | 81.4% | 37.9% | 24.4% | 100.3% | 33.2% | |
| WAW | Warsaw | 1,744 | 4,056 | 5,800 | 3.7% | 8.1% | 6.7% | 51.5% | 30.3% | 36.0% | 59.3% | 64.8% | 63.1% | |
| AYT | Fraport TAV Antalya | 1,722 | 1,083 | 2,805 | 22.7% | 37.0% | 27.8% | 91.5% | 30.8% | 62.4% | 257.6% | 271.8% | 262.9% | |
| NCE | Nice Côte d'Azur | 1,604 | 3,426 | 5,030 | 3.3% | 5.6% | 4.9% | 6.8% | 19.2% | 15.0% | 10.2% | 36.5% | 26.9% | |
| LED | St-Petersburg | 1,583 | 3,256 | 4,839 | 4.1% | 6.2% | 5.5% | 32.7% | 62.2% | 51.2% | 91.4% | 119.8% | 109.6% | |
| AGP | Malaga-Costa del Sol | 1,520 | 2,555 | 4,075 | 6.4% | 13.3% | 10.6% | 40.7% | 62.8% | 53.8% | 53.9% | 99.0% | 79.4% | |
| PRG | Prague | 1,469 | 4,322 | 5,791 | -3.3% | 7.7% | 4.7% | 26.1% | 44.2% | 39.1% | 4.2% | 68.8% | 45.9% | |
| VKO | Vnukovo International Airport | 1,438 | 286 | 1,724 | 0.5% | -18.7% | -3.3% | | | | | | | |
| TLV | Tel Aviv Ben Gurion | 1,433 | 5,311 | 6,745 | 10.4% | 6.0% | 6.9% | 58.8% | 45.0% | 47.7% | 122.1% | 63.9% | 73.6% | |
| GVA | Genève | 1,404 | 5,255 | 6,659 | -0.1% | 2.1% | 1.6% | 0.3% | 16.0% | 12.3% | 23.6% | 44.8% | 39.7% | |
| НАМ | Hamburg | 1,400 | 5,548 | 6,949 | -5.6% | -3.7% | -4.1% | 1.7% | 33.7% | 25.7% | 0.6% | 49.4% | 36.1% | |
| EDI | Edinburgh | 1,296 | 3,228 | 4,523 | 2.6% | 5.3% | 4.5% | 30.2% | 21.9% | 24.2% | 23.7% | 56.4% | 45.4% | |
| STR | Stuttgart | 1,258 | 3,203 | 4,461 | 6.3% | 3.0% | 3.9% | 29.5% | 18.6% | 21.5% | 6.7% | 20.4% | 16.2% | |
| LTN | London Luton | 1,159 | 73 | 1,232 | | | | | | | | | | |

| | | AB | SOLUTE 2 | 019 | GROW | TH 2019 V | /S 2018 | GROW | TH 2019 V | S 2014 | GROW' | TH 2019 \ | /S 2009 |
|------|----------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| LYS | Lyon-Saint Exupéry | 1,148 | 2,486 | 3,634 | 1.0% | 6.2% | 4.5% | 14.2% | 7.4% | 9.5% | -3.0% | 11.2% | 6.3% |
| OTP | Bucharest Otopeni | 1,112 | 2,436 | 3,549 | -0.5% | -5.8% | -4.2% | 56.2% | 2.8% | 15.1% | 66.5% | 17.6% | 29.6% |
| ВНХ | Birmingham | 1,108 | 2,624 | 3,732 | -0.8% | -3.5% | -2.7% | 12.6% | 11.4% | 11.7% | 15.7% | 21.1% | 19.5% |
| ALC | Alicante-Elche | 1,089 | 964 | 2,053 | 6.1% | 9.8% | 7.8% | 47.5% | 86.5% | 63.5% | 42.2% | 78.0% | 57.0% |
| BUD | Budapest | 1,083 | 3,302 | 4,385 | 4.3% | 5.3% | 5.0% | 47.6% | 38.3% | 40.5% | 4.7% | 37.4% | 27.6% |
| CGN | Köln-Bonn | 1,019 | 1,570 | 2,589 | -2.5% | 3.0% | 0.7% | 21.7% | 21.8% | 21.7% | 2.4% | 74.4% | 36.6% |
| LIN | Milan Linate | 996 | 2,307 | 3,303 | 4.1% | 1.6% | 2.4% | 8.3% | -3.7% | -0.4% | 19.7% | 25.1% | 23.4% |
| LPA | Gran Canaria | 974 | 796 | 1,770 | -6.1% | -4.7% | -5.4% | 44.5% | 62.6% | 52.1% | 28.8% | 40.9% | 33.9% |
| ESB | Ankara Esenboga | 946 | 1,160 | 2,106 | -18.4% | 2.1% | -8.2% | 6.9% | 10.3% | 8.7% | 102.7% | 84.8% | 92.4% |
| 0P0 | Porto | 939 | 2,319 | 3,257 | 2.8% | 3.3% | 3.1% | 63.2% | 127.8% | 104.4% | 118.7% | 185.2% | 162.2% |
| VCE | Venice | 938 | 3,811 | 4,749 | -2.3% | -1.1% | -1.3% | 17.6% | 31.5% | 28.5% | 28.1% | 69.8% | 59.5% |
| MRS | Marseille Provence | 932 | 2,150 | 3,081 | 2.3% | 3.3% | 3.0% | 10.9% | 14.7% | 13.5% | 11.2% | 45.6% | 33.2% |
| KBP | Kiev | 880 | 1,701 | 2,581 | 17.7% | 11.9% | 13.8% | 13.3% | -0.8% | 3.6% | 26.8% | 8.9% | 14.4% |
| IBZ | Ibiza | 872 | 763 | 1,634 | -0.2% | 19.1% | 7.9% | 33.9% | 110.6% | 61.3% | 61.5% | 273.5% | 119.7% |
| GLA | Glasgow | 858 | 1,566 | 2,424 | -7.4% | -11.6% | -10.2% | 11.7% | 6.7% | 8.4% | 14.3% | 26.9% | 22.1% |
| NAP | Naples | 857 | 1,653 | 2,510 | 5.7% | 29.8% | 20.4% | 61.2% | 114.8% | 92.9% | 44.9% | 270.2% | 141.8% |
| RIX | Riga | 845 | 1,447 | 2,292 | 5.8% | 8.1% | 7.3% | 40.7% | 60.8% | 52.8% | 47.1% | 136.9% | 93.4% |
| TLS | Toulouse-Blagnac | 841 | | 841 | -9.2% | | | 7.8% | | | 15.3% | | |
| LCY | London City | 821 | 1,208 | 2,029 | 1.4% | 9.3% | 6.0% | 26.0% | 42.6% | 35.4% | 25.2% | 13.4% | 17.9% |
| BGY | Bergamo | 820 | 99 | 919 | 3.0% | -25.2% | -1.1% | 38.5% | -28.5% | 25.8% | 61.8% | -24.6% | 44.0% |
| CTA | Catania | 809 | 1,164 | 1,973 | 5.4% | 5.7% | 5.6% | | | | | | |
| BG0 | Bergen | 762 | 1,033 | 1,795 | -1.8% | 4.3% | 1.7% | -3.6% | -5.3% | -4.6% | 4.0% | 32.9% | 18.9% |
| ADB | Izmir Adnan Menderes | 761 | 1,045 | 1,806 | -1.3% | 29.2% | 14.3% | 27.7% | 16.1% | 20.7% | 116.0% | 157.8% | 138.3% |

| | ABS | SOLUTE 2 | 019 | GROW' | TH 2019 V | /S 2018 | GROW | TH 2019 V | S 2014 | GROW | TH 2019 V | S 2009 | |
|------|---------------------|----------|----------|---------|-----------|----------|---------|-----------|----------|---------|-----------|----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| FA0 | Faro | 732 | 789 | 1,521 | 2.5% | -0.8% | 0.7% | 39.7% | 65.3% | 51.9% | 75.1% | 205.0% | 124.8% |
| SXF | Berlin Schönefeld | 721 | 466 | 1,187 | -17.0% | -5.3% | -12.8% | 37.2% | 50.0% | 42.0% | 34.0% | 204.9% | 71.9% |
| BLQ | Bologna | 717 | 2,479 | 3,196 | 7.4% | 12.2% | 11.1% | 26.0% | 25.0% | 25.2% | 36.8% | 59.9% | 54.1% |
| BOD | Bordeaux | 713 | 1,271 | 1,984 | 5.4% | 5.5% | 5.4% | 34.9% | 80.2% | 60.8% | 59.8% | 57.0% | 58.0% |
| NTE | Nantes | 703 | 1,023 | 1,727 | 7.1% | 21.5% | 15.2% | 50.6% | 71.9% | 62.5% | 114.2% | 77.0% | 90.5% |
| BSL | Basel-Mulhouse | 697 | 1,964 | 2,662 | 5.0% | 6.0% | 5.7% | 15.3% | 23.8% | 21.5% | 43.3% | 67.3% | 60.3% |
| BRS | Bristol | 685 | 533 | 1,218 | -8.1% | -41.4% | -26.4% | 19.0% | 6.9% | 13.4% | 30.4% | -18.1% | 3.6% |
| HER | Heraklion | 676 | 697 | 1,373 | -3.3% | 3.9% | 0.2% | 52.2% | 128.9% | 83.4% | 97.3% | 322.4% | 170.4% |
| VLC | Valencia | 657 | 1,719 | 2,377 | 7.3% | 7.4% | 7.4% | 55.1% | 69.4% | 65.2% | 7.5% | 79.3% | 51.4% |
| TFN | Tenerife Norte | 657 | 542 | 1,199 | 2.5% | 2.6% | 2.5% | 58.2% | 62.3% | 60.0% | 12.8% | 54.7% | 28.6% |
| GOT | Göteborg Landvetter | 655 | 2,561 | 3,216 | -6.8% | 4.8% | 2.2% | 16.9% | 23.6% | 22.2% | 33.5% | 60.9% | 54.5% |
| BEG | Belgrade | 632 | 1,758 | 2,390 | 9.0% | 9.0% | 9.0% | 13.9% | 31.9% | 26.6% | 74.1% | 79.0% | 77.7% |
| LCA | Larnaka | 621 | 1,302 | 1,923 | -7.8% | -2.4% | -4.2% | 81.1% | 86.0% | 84.4% | 54.9% | 106.4% | 86.4% |
| AER | Sochi | 599 | 540 | 1,139 | 15.0% | 12.0% | 13.5% | | | | | | |
| TRD | Trondheim | 591 | 705 | 1,296 | -4.9% | -0.8% | -2.7% | -9.9% | -7.1% | -8.4% | -5.4% | 47.9% | 17.7% |
| SKG | Thessaloniki | 590 | 913 | 1,502 | -1.0% | 17.1% | 9.3% | 37.3% | 74.0% | 57.5% | 19.2% | 61.2% | 41.6% |
| HAJ | Hannover | 587 | 2,396 | 2,983 | -0.6% | -8.2% | -6.8% | 20.5% | 11.0% | 12.8% | -4.0% | 16.4% | 11.7% |
| KRK | Krakow | 585 | 1,526 | 2,111 | 16.5% | 2.1% | 5.7% | 83.5% | 75.5% | 77.6% | 104.0% | 107.9% | 106.8% |
| PM0 | Palermo | 570 | 721 | 1,290 | 3.3% | 7.3% | 5.5% | 30.1% | 45.8% | 38.4% | 15.6% | 117.0% | 56.5% |
| LUX | Luxembourg | 560 | 1,945 | 2,505 | 0.1% | -1.3% | -1.0% | 30.9% | 33.0% | 32.6% | 46.0% | 75.6% | 68.0% |
| MLA | Malta | 557 | 1,628 | 2,185 | 5.5% | 7.5% | 7.0% | 55.7% | 124.4% | 101.7% | 97.4% | 266.1% | 200.6% |
| KEF | Keflavik | 552 | 1,336 | 1,888 | -24.2% | -4.3% | -11.1% | 48.4% | 361.7% | 185.4% | 187.8% | 2268.1% | 660.3% |
| SVQ | Sevilla | 532 | 852 | 1,385 | 20.4% | 29.2% | 25.7% | 66.6% | 106.1% | 88.9% | 37.7% | 128.6% | 82.3% |

| | | ABS | SOLUTE 2 | 019 | GROW' | TH 2019 V | /S 2018 | GROW | TH 2019 V | S 2014 | GROW | TH 2019 V | /S 2009 |
|------|------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| TFS | Tenerife Sur | 532 | 498 | 1,030 | 9.6% | 36.9% | 21.3% | 35.1% | 132.5% | 69.4% | 112.2% | 130.2% | 120.5% |
| CRL | Charleroi | 530 | 96 | 626 | 4.6% | 10.9% | 5.5% | 27.4% | 29.3% | 27.7% | 104.3% | 735.2% | 131.0% |
| BIO | Bilbao | 527 | 1,869 | 2,396 | 6.5% | -3.4% | -1.4% | 31.6% | 19.4% | 21.8% | 17.8% | 36.0% | 31.5% |
| SOF | Sofia | 525 | 1,764 | 2,289 | -0.8% | 9.8% | 7.1% | 41.1% | 44.2% | 43.4% | 41.0% | 51.2% | 48.7% |
| ACE | Lanzarote | 510 | 287 | 796 | -2.8% | 13.6% | 2.5% | 37.9% | 188.7% | 69.8% | 74.4% | 132.3% | 91.6% |
| MSQ | Minsk | 505 | 1,049 | 1,554 | 9.8% | 9.9% | 9.9% | 71.0% | 86.9% | 81.4% | 251.9% | 236.8% | 241.6% |
| ВМА | Stockholm-Bromma | 490 | 211 | 701 | -6.3% | -2.0% | -5.0% | 7.9% | 108.7% | 26.2% | 36.9% | 254.5% | 67.9% |
| RH0 | Rhodes | 474 | 396 | 870 | 4.3% | 21.5% | 11.5% | 43.9% | 75.1% | 56.7% | 63.1% | 180.6% | 101.5% |
| SVG | Stavanger | 466 | 844 | 1,310 | -7.1% | 2.1% | -1.4% | -26.6% | -39.7% | -35.6% | -17.2% | -9.3% | -12.3% |
| NCL | Newcastle | 454 | 1,023 | 1,477 | -9.1% | -8.9% | -9.0% | | | | | | |
| TOS | Tromsø | 452 | 292 | 744 | -11.3% | -1.2% | -7.6% | -2.2% | 10.7% | 2.5% | 9.6% | 74.9% | 28.5% |
| ZAG | Zagreb | 429 | 2,166 | 2,595 | 0.4% | 5.7% | 4.8% | 26.0% | 60.0% | 53.2% | 30.1% | 85.6% | 73.4% |
| EIN | Eindhoven | 419 | 62 | 481 | 10.9% | 49.6% | 14.7% | 57.8% | 101.5% | 62.3% | 257.6% | 1318.5% | 295.6% |
| CAG | Cagliari | 416 | 612 | 1,028 | 20.5% | 18.2% | 19.1% | 25.0% | 95.9% | 59.3% | 13.6% | 719.9% | 133.1% |
| B00 | Bodø | 412 | 163 | 575 | -10.7% | -10.9% | -10.8% | -9.2% | 19.3% | -2.6% | -16.0% | 36.0% | -5.8% |
| ABZ | Aberdeen | 409 | 1,178 | 1,587 | -7.6% | 1.8% | -0.8% | -29.9% | -27.0% | -27.8% | -26.7% | 10.1% | -2.5% |
| BRI | Bari | 407 | 593 | 1,000 | 9.2% | -0.9% | 3.0% | | | | | | |
| EMA | East Midlands | 405 | 17 | 423 | -5.6% | -64.2% | -11.6% | -9.5% | 15.9% | -8.7% | 6.2% | -75.7% | -6.8% |
| MAH | Menorca | 402 | 270 | 672 | 7.7% | -2.8% | 3.2% | 77.1% | 191.3% | 110.2% | 42.7% | 87.4% | 57.8% |
| NUE | Nürnberg | 401 | 1,791 | 2,193 | -10.3% | 2.5% | -0.1% | 8.5% | 4.9% | 5.5% | -12.7% | 17.8% | 10.7% |
| VNO | Vilnius | 400 | 1,044 | 1,444 | -3.2% | 4.0% | 1.9% | 29.7% | 107.6% | 78.0% | 138.6% | 172.8% | 162.3% |
| TLL | Tallinn | 383 | 1,368 | 1,751 | -5.3% | -4.1% | -4.3% | 35.3% | 28.9% | 30.3% | 69.6% | 195.6% | 154.3% |
| FUE | Fuerteventura | 379 | 204 | 583 | -12.1% | 11.9% | -5.0% | 41.0% | 111.7% | 59.6% | 47.7% | 75.5% | 56.4% |

| | | AB | SOLUTE 2 | 019 | GROW | TH 2019 \ | /S 2018 | GROW | TH 2019 V | /S 2014 | GROW | TH 2019 V | /S 2009 |
|------|----------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| SPU | Split | 376 | 642 | 1,018 | 9.5% | 10.6% | 10.2% | 88.6% | 99.1% | 95.1% | 179.2% | 246.9% | 218.4% |
| OLB | Olbia | 371 | 527 | 897 | 12.0% | 53.9% | 33.3% | 35.0% | 569.9% | 154.1% | 59.3% | 1680.0% | 242.3% |
| BJV | Mugla Milas - Bodrum | 365 | 433 | 798 | 16.2% | 55.8% | 34.8% | 53.3% | 58.0% | 55.8% | 138.0% | 253.1% | 189.1% |
| VRN | Verona | 358 | 741 | 1,098 | 6.2% | 6.0% | 6.1% | 32.8% | 3.9% | 11.9% | 28.6% | -9.3% | 0.3% |
| BLL | Billund | 354 | 1,549 | 1,903 | 1.9% | 3.7% | 3.4% | 17.1% | 36.6% | 32.5% | 33.0% | 105.1% | 86.3% |
| TBS | Tbilisi | 346 | 1,096 | 1,442 | -0.4% | 24.0% | 17.1% | 105.7% | 109.3% | 108.4% | 188.3% | 346.1% | 294.3% |
| CFU | Corfu | 342 | 229 | 571 | -3.7% | 2.1% | -1.4% | 62.1% | 121.1% | 81.6% | 138.6% | 307.0% | 186.2% |
| TRN | Turin | 332 | 1,346 | 1,677 | -14.0% | -4.7% | -6.7% | -2.1% | -1.1% | -1.3% | -24.9% | 9.6% | 0.5% |
| DBV | Dubrovnik | 329 | 845 | 1,174 | 6.1% | 16.7% | 13.5% | 85.4% | 138.5% | 120.8% | 169.9% | 344.1% | 276.0% |
| MCM | Monaco (Heliport) | 326 | | 326 | 0.0% | | | -2.4% | | | -14.0% | | |
| CIA | Rome Ciampino | 319 | 64 | 383 | -1.5% | -4.6% | -2.1% | 12.8% | 50.2% | 17.6% | 0.2% | 30.5% | 4.2% |
| FLR | Florence | 318 | 1,938 | 2,256 | 0.0% | 4.4% | 3.7% | -0.1% | 22.5% | 18.7% | 26.8% | 42.0% | 39.6% |
| SOU | Southampton | 315 | 246 | 561 | -13.9% | -44.3% | -30.5% | -18.2% | 44.2% | 0.9% | -32.4% | 3341.2% | 18.5% |
| JTR | Santorini | 308 | 304 | 612 | 12.8% | 0.0% | 6.1% | 168.6% | 74.2% | 111.7% | 239.1% | 222.4% | 230.6% |
| ADA | Adana | 306 | 395 | 702 | -9.2% | -2.6% | -5.6% | 10.8% | 10.7% | 10.7% | 149.8% | 167.3% | 159.4% |
| BOJ | Bourgas | 288 | 125 | 413 | 10.8% | 10.5% | 10.7% | 179.1% | 69.0% | 133.1% | 291.0% | 358.0% | 309.1% |
| KZN | Kazan | 282 | 379 | 661 | 8.0% | 1.1% | 4.0% | 186.7% | 77.7% | 112.1% | 221.3% | 575.3% | 359.4% |
| KIV | Chisinau | 281 | 589 | 869 | -1.0% | 8.7% | 5.4% | 68.9% | 58.2% | 61.5% | 149.2% | 251.3% | 210.3% |
| JER | Channel Islands | 276 | 87 | 363 | 5.9% | -8.2% | 2.2% | -16.5% | 41.6% | -7.4% | -39.9% | 131.8% | -26.9% |
| TZX | Trabzon | 269 | 383 | 651 | -5.3% | 17.7% | 7.0% | 59.6% | 88.4% | 75.3% | 269.9% | 328.6% | 302.3% |
| WRO | Wroclaw | 264 | 815 | 1,079 | 0.7% | 5.8% | 4.5% | 54.6% | 124.7% | 102.2% | 71.0% | 204.4% | 155.5% |
| PDL | Ponta Delgada | 263 | 179 | 442 | 3.8% | 3.8% | 3.8% | 96.2% | 191.7% | 126.2% | 90.9% | 157.2% | 113.2% |
| KGS | Kos | 260 | 199 | 459 | 5.0% | 13.8% | 8.7% | 53.7% | 98.7% | 70.4% | 150.9% | 134.1% | 143.3% |

| | | AB | SOLUTE 2 | 019 | GROW | TH 2019 \ | /S 2018 | GROW | TH 2019 V | /S 2014 | GROW | TH 2019 \ | /S 2009 |
|------|--------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| TIA | Tirana | 255 | 743 | 998 | 18.3% | 23.0% | 21.8% | -2.3% | 52.3% | 33.3% | 41.4% | 126.3% | 96.2% |
| LJU | Ljubljana | 248 | 1,136 | 1,383 | -9.7% | 3.2% | 0.6% | 23.7% | 54.2% | 47.7% | -15.4% | 32.7% | 20.4% |
| ORK | Cork | 240 | 549 | 789 | 5.1% | 3.5% | 4.0% | 12.4% | 32.0% | 25.4% | 1.3% | 43.7% | 27.4% |
| CHQ | Chania | 235 | 255 | 489 | 2.3% | 4.2% | 3.3% | 70.1% | 138.0% | 99.8% | 102.5% | 120.0% | 111.2% |
| LIL | Lille-Lesquin | 231 | 45 | 276 | -0.1% | -10.4% | -2.0% | 10.9% | 17.5% | 11.9% | 45.9% | -21.3% | 28.0% |
| FNC | Madeira | 230 | 499 | 730 | 1.9% | 14.8% | 10.4% | 35.0% | 90.0% | 68.4% | 17.8% | 127.1% | 75.6% |
| JMK | Mykonos | 222 | 325 | 547 | 11.6% | 4.6% | 7.3% | 121.2% | 144.5% | 134.5% | 168.6% | 429.0% | 279.6% |
| BRE | Bremen | 219 | 1,645 | 1,865 | -15.1% | 7.7% | 4.4% | -19.1% | 24.3% | 16.9% | -21.6% | 40.0% | 28.1% |
| CLJ | Cluj Avram lancu | 214 | 274 | 488 | -4.2% | -11.3% | -8.3% | 305.3% | 125.4% | 179.7% | 90.2% | 134.4% | 112.7% |
| TRF | Sandefjord | 212 | 244 | 456 | -6.2% | 12.4% | 2.9% | | | | | | |
| PF0 | Pafos | 206 | 105 | 311 | 6.2% | -4.3% | 2.4% | 44.0% | 95.9% | 58.2% | 102.9% | 82.1% | 95.3% |
| MMX | Malmö | 204 | 91 | 295 | -19.3% | -37.9% | -26.1% | -3.1% | -3.9% | -3.4% | 55.9% | 180.4% | 80.6% |
| BDS | Brindisi | 199 | 371 | 570 | 8.8% | 7.9% | 8.2% | | | | | | |
| RTM | Rotterdam | 198 | 60 | 258 | 8.4% | 33.5% | 13.4% | 8.2% | -71.0% | -33.8% | 53.6% | 2661.1% | 96.8% |
| SCQ | Santiago | 195 | 397 | 592 | 0.6% | 6.3% | 4.4% | 14.4% | 64.2% | 43.6% | 28.3% | 69.7% | 53.4% |
| SPC | La Palma | 191 | 64 | 255 | -2.7% | -24.9% | -9.4% | 89.0% | 71.4% | 84.3% | 29.7% | 66.2% | 37.3% |
| TSF | Treviso | 189 | 12 | 202 | -5.3% | -41.5% | -8.7% | 32.1% | -2.1% | 29.4% | 44.2% | -20.2% | 37.5% |
| ZTH | Zakynthos | 187 | 123 | 309 | -4.4% | -13.3% | -8.2% | 168.4% | 128.5% | 151.0% | 196.6% | 252.0% | 216.4% |
| SXB | Strasbourg | 181 | 305 | 486 | -10.8% | 3.7% | -2.2% | -11.9% | 4.9% | -2.1% | -33.1% | -50.3% | -45.1% |
| AJA | Ajaccio | 179 | 62 | 241 | -2.0% | 37.4% | 5.8% | 11.9% | 79.2% | 23.9% | 60.0% | -0.2% | 38.5% |
| BIA | Bastia | 177 | 95 | 272 | 4.5% | 28.9% | 11.9% | | | | | | |
| GR0 | Girona-Costa Brava | 175 | 33 | 208 | -3.3% | -12.1% | -4.8% | -12.7% | -50.1% | -22.0% | -54.9% | 1.7% | -50.5% |
| SKP | Skopje | 169 | 394 | 563 | 3.8% | 0.0% | 1.1% | 38.4% | 45.3% | 43.2% | 88.9% | 135.3% | 119.1% |

| | | ABS | SOLUTE 2 | 019 | GROW' | TH 2019 V | /S 2018 | GROW' | TH 2019 V | S 2014 | GROW | TH 2019 V | 'S 2009 |
|------|---------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| BTS | Bratislava | 168 | 41 | 209 | -7.3% | -26.3% | -11.7% | 95.2% | 65.3% | 88.5% | 17.5% | -39.4% | -0.7% |
| VAR | Varna | 163 | 177 | 340 | -12.2% | 31.8% | 6.3% | 119.7% | 57.5% | 82.2% | 94.0% | 50.5% | 68.6% |
| POZ | Poznan | 163 | 582 | 744 | -3.6% | -0.3% | -1.1% | 47.0% | 31.3% | 34.5% | 21.1% | 58.6% | 48.5% |
| GZT | Gaziantep | 162 | 292 | 454 | 0.8% | 11.9% | 7.7% | 22.2% | 63.1% | 45.7% | 230.2% | 184.1% | 199.0% |
| TIV | Tivat | 159 | 273 | 432 | 9.2% | 5.3% | 6.7% | 100.7% | 238.7% | 170.2% | 108.8% | 1318.4% | 352.7% |
| INV | Inverness | 151 | 349 | 500 | 10.4% | 124.6% | 71.1% | 44.7% | 447.4% | 197.5% | 13.0% | 905.9% | 197.2% |
| KRS | Kristiansand | 148 | 463 | 610 | 1.8% | 1.5% | 1.6% | -4.1% | 20.3% | 13.3% | 0.4% | 37.9% | 26.4% |
| ODS | Odessa | 147 | 437 | 584 | 11.8% | 25.0% | 21.4% | 49.4% | 26.0% | 31.1% | 34.1% | 129.5% | 94.7% |
| ASR | Kayseri | 142 | 380 | 522 | 5.4% | 43.8% | 30.8% | 20.5% | 30.3% | 27.4% | 177.9% | 270.7% | 239.8% |
| SZG | Salzburg | 139 | 693 | 832 | -0.7% | 2.3% | 1.8% | -15.6% | -3.6% | -5.9% | -3.4% | 15.8% | 12.0% |
| TGD | Podgorica | 136 | 375 | 511 | 0.9% | -4.5% | -3.1% | 49.4% | 81.3% | 71.5% | 82.9% | 542.2% | 284.8% |
| GRZ | Graz | 135 | 996 | 1,131 | -6.2% | 0.1% | -0.7% | -5.6% | 33.2% | 26.9% | -32.2% | 46.7% | 28.8% |
| SNN | Shannon | 134 | 540 | 674 | -13.7% | -11.1% | -11.6% | -25.9% | -10.9% | -14.4% | -30.6% | -4.4% | -11.1% |
| PRN | Prishtina | 133 | 556 | 689 | 0.6% | 3.9% | 3.2% | | | | | | |
| AES | Ålesund | 133 | 317 | 450 | -3.5% | -1.4% | -2.0% | 10.8% | -13.4% | -7.5% | 34.3% | 170.9% | 108.3% |
| IOM | Isle of Man | 129 | 94 | 224 | -9.0% | 23.6% | 2.4% | 12.5% | 52.2% | 26.4% | -57.8% | 2358.8% | -27.9% |
| RNS | Rennes | 128 | 408 | 536 | -3.9% | 0.4% | -0.7% | 36.4% | 16.4% | 20.6% | 19.1% | 42.9% | 36.4% |
| OVD | Asturias | 127 | 292 | 420 | 5.5% | -6.5% | -3.2% | 18.2% | 29.7% | 26.0% | -12.1% | -37.3% | -31.3% |
| BES | Brest | 126 | 261 | 387 | -6.7% | 8.2% | 2.9% | 1.6% | 32.1% | 20.3% | 8.2% | 9.7% | 9.2% |
| DSA | Doncaster Sheffield | 123 | 20 | 143 | | | | | | | | | |
| TSR | Timisoara | 116 | 186 | 302 | -3.3% | 1.4% | -0.5% | 103.1% | 1.6% | 25.8% | -47.9% | -23.5% | -35.2% |
| SJJ | Sarajevo | 115 | 618 | 732 | 15.2% | 18.7% | 18.2% | 12.5% | 60.0% | 50.1% | 22.9% | 140.7% | 109.3% |
| UME | Umeå | 114 | 184 | 298 | -22.2% | -10.6% | -15.4% | -21.1% | 37.2% | 7.0% | 15.3% | 348.9% | 113.1% |

| | | AB: | SOLUTE 2 | 019 | GR0W | TH 2019 V | /S 2018 | GR0W | TH 2019 V | S 2014 | GROW | TH 2019 V | S 2009 |
|------|---------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| REU | Reus | 113 | 18 | 131 | 4.3% | -11.5% | 1.8% | 30.9% | 127.8% | 39.0% | -14.1% | 66.5% | -8.0% |
| FMM | Memmingen | 112 | 9 | 120 | 21.9% | 15.5% | 21.4% | 82.4% | 85.2% | 82.6% | 28.2% | -25.0% | 22.1% |
| PUY | Pula | 111 | 136 | 247 | 12.6% | 18.1% | 15.6% | 76.0% | 144.1% | 108.0% | 179.7% | 4361.0% | 479.4% |
| NQY | Newquay | 110 | 95 | 205 | 13.9% | 21.7% | 17.4% | | | | | | |
| BIQ | Biarritz | 110 | 255 | 366 | -10.0% | 11.7% | 4.2% | 6.1% | 353.2% | 128.2% | 14.9% | 239.6% | 113.6% |
| HFT | Hammerfest | 109 | 7 | 116 | -9.2% | -30.0% | -10.7% | -22.2% | 11.5% | -20.8% | -6.6% | 101.3% | -3.6% |
| DIY | Diyarbakir | 108 | 191 | 299 | -18.3% | 0.3% | -7.4% | -4.9% | 9.0% | 3.5% | 147.2% | 397.2% | 264.0% |
| BUS | Batumi | 108 | 96 | 204 | 27.8% | 22.1% | 25.1% | 396.0% | 67.7% | 157.9% | 817.0% | 553.4% | 670.4% |
| IAS | lasi | 108 | 88 | 196 | 0.6% | -16.7% | -8.0% | 148.2% | 7.8% | 56.4% | 155.5% | 13.6% | 63.5% |
| FMO | Münster | 106 | 623 | 729 | -6.1% | -1.7% | -2.4% | 23.4% | 26.2% | 25.7% | -44.4% | -8.7% | -16.5% |
| ZAD | Zadar | 106 | 79 | 185 | 29.1% | 9.3% | 19.9% | 48.8% | 48.7% | 48.8% | 161.9% | 5706.5% | 341.2% |
| LEI | Almería | 106 | 128 | 234 | -8.0% | -33.6% | -24.0% | 19.1% | -19.7% | -5.8% | 11.6% | -43.1% | -26.9% |
| LCG | A Coruña | 103 | 381 | 484 | 5.1% | 5.8% | 5.7% | 5.3% | 62.6% | 45.7% | -6.4% | 26.1% | 17.4% |
| LLA | Luleå | 102 | 145 | 247 | -25.3% | -2.8% | -13.6% | -28.5% | 34.0% | -1.6% | -12.3% | 77.4% | 24.7% |
| VDS | Vadsø | 101 | 1 | 102 | -7.6% | -84.0% | -12.2% | -10.7% | -57.0% | -11.7% | -5.6% | | |
| VGO | Vigo | 101 | 342 | 442 | 1.4% | 13.3% | 10.4% | 34.6% | 39.1% | 38.1% | -20.0% | -29.4% | -27.5% |
| GRX | Granada-Jaén F.G.L. | 99 | 164 | 263 | 4.0% | -41.6% | -30.1% | 39.1% | -16.2% | -1.5% | 4.1% | -22.9% | -14.6% |
| EFL | Kefalonia | 97 | 45 | 141 | 7.8% | -15.1% | -0.7% | 93.8% | 77.8% | 88.5% | 115.7% | 75.8% | 101.3% |
| MLN | Melilla | 95 | 133 | 228 | 44.8% | 8.1% | 20.9% | 40.3% | 61.4% | 51.8% | 32.6% | 53.7% | 44.1% |
| PUF | Pau-Pyrénées | 95 | 200 | 295 | -6.1% | -21.2% | -16.9% | 8.9% | -26.4% | -17.9% | -0.4% | -50.7% | -41.1% |
| TRS | Trieste | 95 | 499 | 594 | 11.7% | 82.9% | 66.0% | 10.7% | 96.0% | 74.5% | -6.0% | 55.6% | 40.9% |
| VBY | Visby | 94 | 65 | 158 | -4.3% | -18.6% | -10.7% | 2.0% | 13.2% | 6.3% | -0.1% | 298.5% | 43.9% |
| XRY | Jerez | 93 | 234 | 327 | -3.1% | 0.3% | -0.7% | 17.0% | 14.3% | 15.0% | -1.8% | -17.9% | -13.9% |

| | | ABS | SOLUTE 2 | 019 | GROW ⁻ | TH 2019 V | /S 2018 | GROW | TH 2019 V | 'S 2014 | GROW' | TH 2019 V | /S 2009 |
|------|------------------------------|--------|----------|---------|-------------------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| SZF | Samsun Çarsamba | 93 | 132 | 225 | -11.6% | -1.9% | -6.1% | 1.9% | -34.0% | -22.8% | 100.9% | 50.5% | 67.8% |
| OUL | Oulu | 92 | 406 | 497 | -2.2% | 6.6% | 4.9% | -8.2% | 30.0% | 20.8% | -4.2% | 84.0% | 57.3% |
| TKU | Turku | 90 | 263 | 353 | 17.0% | 4.4% | 7.3% | 17.8% | 2.1% | 5.7% | 38.1% | 12.3% | 17.9% |
| EVE | Harstad/Narvik | 89 | 82 | 171 | -5.3% | -22.5% | -14.5% | 2.1% | -37.4% | -21.7% | 45.6% | -10.0% | 12.3% |
| RMU | Murcia International Airport | 88 | 23 | 111 | | | | | | | | | |
| HHN | Hahn | 86 | 1 | 87 | | | | | | | | | |
| SDV | Tel Aviv Dov Hoz | 86 | | 86 | 2.1% | | | -7.2% | | | 126.0% | | |
| SDR | Santander–Seve Ballesteros | 83 | 163 | 246 | -5.0% | -2.6% | -3.4% | -0.4% | 20.5% | 12.5% | -38.6% | -20.0% | -27.4% |
| VAN | Van Ferit Melen | 83 | 110 | 193 | -5.3% | -11.5% | -9.0% | 27.2% | 40.9% | 34.6% | 138.1% | 186.1% | 163.2% |
| ALF | Alta | 79 | 67 | 147 | -10.7% | 14.2% | -0.7% | -19.7% | -8.8% | -15.0% | -12.0% | 77.8% | 14.6% |
| KKN | Kirkenes | 79 | 51 | 130 | -9.9% | 14.1% | -1.8% | -15.7% | -11.5% | -14.1% | -30.4% | 29.5% | -15.0% |
| GZP | Alanya – Antalya Gazipasa | 79 | 209 | 287 | 16.4% | 35.9% | 30.0% | 92.1% | 189.8% | 154.5% | | | |
| OSD | Åre Östersund | 73 | 113 | 186 | -1.9% | -5.1% | -3.9% | -4.7% | 2.2% | -0.6% | 54.5% | 466.2% | 176.3% |
| AGH | Ängelholm-Helsingborg | 73 | 51 | 124 | 2.8% | -3.4% | 0.1% | | | | | | |
| HTY | Hatay | 72 | 131 | 202 | -12.2% | -2.4% | -6.1% | -9.2% | -25.2% | -20.2% | 170.2% | 375.6% | 274.5% |
| INN | Innsbruck | 71 | 599 | 670 | 0.0% | 1.2% | 1.1% | 1.2% | 9.5% | 8.5% | -34.8% | 36.8% | 22.5% |
| KUN | Kaunas | 71 | 37 | 108 | 6.6% | -8.7% | 0.8% | 38.2% | 100.0% | 54.7% | 87.0% | 140.7% | 102.6% |
| MJT | Mitilini | 69 | 28 | 97 | 27.4% | -50.2% | -12.6% | 25.4% | -47.7% | -11.1% | -28.2% | -45.5% | -34.3% |
| NOC | Knock | 69 | 44 | 112 | -2.9% | 12.4% | 2.5% | -8.9% | 25.8% | 2.0% | 17.5% | 16.4% | 17.1% |
| HRK | Kharkiv | 69 | 207 | 276 | 10.5% | 15.3% | 14.1% | 59.9% | 24.4% | 31.6% | 107.0% | 192.8% | 165.4% |
| KYA | Konya | 67 | 153 | 220 | -17.5% | 1.5% | -5.1% | -11.7% | -37.3% | -31.2% | 218.4% | 303.9% | 273.4% |
| SBZ | Sibiu | 67 | 192 | 258 | 4.4% | -10.4% | -7.0% | 96.0% | 35.9% | 47.5% | 11.2% | 83.9% | 57.4% |
| KSC | Košice | 66 | 170 | 236 | -6.8% | 6.7% | 2.5% | | | | | | |

| | | AB: | SOLUTE 2 | 019 | GROW | TH 2019 V | 'S 2018 | GROW | TH 2019 V | /S 2014 | GROW | TH 2019 V | /S 2009 |
|------|-------------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| CFE | Clermont-Ferrand | 65 | 416 | 481 | -8.2% | 38.5% | 29.6% | -19.4% | 27.3% | 18.1% | -54.2% | 27.7% | 3.0% |
| JCU | Ceuta (Heliport) | 64 | | 64 | 45.3% | | | | | | | | |
| SMI | Samos | 63 | 53 | 116 | 14.6% | -21.0% | -4.9% | 42.7% | 78.9% | 57.1% | -2.6% | -29.2% | -16.8% |
| HOR | Horta | 63 | 40 | 103 | 7.0% | 24.6% | 13.2% | 52.8% | 35.0% | 45.3% | 16.8% | 79.8% | 35.4% |
| BRQ | Brno | 61 | 7 | 68 | -7.6% | -89.0% | -46.7% | 60.0% | 12.2% | 53.5% | 47.4% | -90.8% | -41.0% |
| PAS | Paros | 61 | 82 | 143 | 17.3% | -6.5% | 2.4% | 125.9% | 458.6% | 243.1% | 221.1% | 224.1% | 222.8% |
| PVK | Aktion | 61 | 64 | 124 | 26.8% | 28.5% | 27.7% | 147.0% | 472.1% | 247.8% | 149.6% | 2255.9% | 358.9% |
| TLN | Toulon-Hyères | 61 | 55 | 116 | -15.5% | -64.8% | -49.4% | 10.2% | 112.4% | 43.1% | 12.5% | 104.8% | 43.3% |
| JSI | Skiathos | 60 | 43 | 104 | 13.2% | -18.6% | -2.6% | 180.9% | 82.1% | 129.1% | 336.8% | 1181.6% | 502.2% |
| EZS | Elazig | 59 | 90 | 149 | -6.1% | 24.1% | 10.0% | -1.0% | 52.2% | 25.4% | 229.9% | 195.3% | 208.1% |
| JKH | Chios | 59 | 53 | 112 | 7.2% | -13.4% | -3.6% | 72.8% | 9.6% | 35.9% | 13.6% | 40.0% | 24.6% |
| ERZ | Erzurum | 58 | 72 | 130 | -30.6% | -25.1% | -27.7% | -7.2% | -13.4% | -10.8% | 192.5% | 213.1% | 203.5% |
| SOG | Sogndal | 57 | 3 | 61 | -6.8% | 41.1% | -5.2% | 3.9% | 156.6% | 7.1% | -7.3% | 36.8% | -5.8% |
| MOL | Molde | 57 | 77 | 134 | 3.6% | 13.3% | 9.0% | -25.8% | -9.4% | -17.2% | -6.6% | 133.5% | 42.6% |
| FDH | Friedrichshafen | 56 | 365 | 421 | -8.1% | 6.3% | 4.1% | -21.0% | 43.8% | 29.7% | -56.0% | 52.1% | 14.7% |
| VAA | Vaasa | 56 | 240 | 295 | 3.2% | 4.8% | 4.5% | -13.1% | 22.7% | 13.9% | -13.1% | 47.6% | 30.5% |
| HAU | Haugesund | 55 | 81 | 136 | -0.2% | 0.9% | 0.5% | -22.7% | -29.5% | -26.9% | -11.7% | 11.2% | 0.7% |
| TMP | Tampere-Pirkkala | 54 | 270 | 324 | -10.0% | 6.6% | 3.4% | -28.2% | 38.3% | 19.9% | -45.7% | 55.8% | 18.9% |
| FRO | Florø | 53 | 12 | 65 | -10.4% | 2082.3% | 9.7% | -27.2% | 845.8% | -11.6% | -0.9% | | |
| KSU | Kristiansund | 51 | 42 | 93 | -27.8% | -28.2% | -28.0% | -32.4% | -28.9% | -30.8% | -13.8% | -18.6% | -16.1% |
| CLY | Calvi Sainte-Catherine | 51 | 26 | 77 | 6.2% | 10.5% | 7.6% | | | | | | |
| JNX | Naxos | 50 | 43 | 93 | 31.6% | -28.0% | -4.8% | 455.6% | 1232.3% | 660.3% | 525.0% | 714.2% | 600.1% |
| LRH | La Rochelle – Ile de Ré | 50 | 14 | 64 | -4.7% | -1.3% | -4.0% | -1.2% | 42.0% | 6.0% | 14.0% | 162.8% | 30.4% |

| | | ABS | SOLUTE 2 | 019 | GROW' | TH 2019 V | /S 2018 | GROW | TH 2019 V | /S 2014 | GROW | TH 2019 V | 'S 2009 |
|------|-----------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|---------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| SDL | Sundsvall-Timrå | 49 | 80 | 129 | -34.7% | -10.7% | -21.7% | | | | | | |
| HOV | Ørsta-Volda | 49 | 7 | 56 | -15.4% | 736.1% | -4.9% | 0.8% | 281.5% | 10.9% | 3.2% | 477.3% | 14.8% |
| KUT | Kutaisi | 49 | 10 | 59 | 5.4% | -56.5% | -15.4% | 52.6% | 30.7% | 48.3% | | | |
| LKN | Leknes | 48 | 7 | 54 | -32.4% | 76.3% | -26.8% | -6.1% | 111.7% | 0.8% | -14.8% | 289.1% | -5.8% |
| MEH | Mehamn | 47 | | 47 | -9.7% | | | -11.4% | | | -16.6% | | |
| KLR | Kalmar | 47 | 39 | 86 | -7.8% | -20.6% | -14.2% | | | | | | |
| EAS | San Sebastian | 47 | 143 | 189 | -3.6% | -21.4% | -17.7% | 10.8% | 8.2% | 8.8% | -32.0% | -22.3% | -25.0% |
| MLX | Malatya | 46 | 80 | 126 | -17.9% | -6.1% | -10.8% | -0.8% | -22.9% | -16.1% | 78.4% | 329.1% | 183.2% |
| RNB | Ronneby | 46 | 44 | 90 | -8.0% | -23.2% | -16.1% | 0.0% | 9.3% | 4.4% | 36.8% | 218.3% | 90.0% |
| CFR | Caen-Carpiquet | 46 | 12 | 58 | -16.2% | -22.3% | -17.5% | 99.8% | -38.3% | 37.3% | 26.7% | -56.9% | -9.2% |
| KVA | Kavala | 46 | 42 | 87 | -0.1% | -32.3% | -18.6% | 55.6% | 50.0% | 52.9% | -0.2% | -8.8% | -4.5% |
| PGF | Perpignan | 45 | 37 | 83 | -4.3% | 62.7% | 17.5% | 6.9% | 97.4% | 34.7% | -2.1% | 103.9% | 27.8% |
| BJF | Båtsfjord | 45 | | 45 | -6.9% | | | -10.2% | | | -10.5% | | |
| LNZ | Linz | 45 | 329 | 373 | -22.5% | -16.2% | -17.0% | -54.1% | -45.4% | -46.6% | -62.8% | -41.3% | -45.1% |
| GNY | Sanliurfa Gap | 44 | 134 | 179 | -17.0% | -9.8% | -11.7% | -13.2% | 98.1% | 50.5% | 216.7% | 318.1% | 287.5% |
| KU0 | Kuopio | 44 | 273 | 317 | 4.8% | 11.4% | 10.5% | -8.3% | 12.3% | 8.9% | -10.8% | 59.1% | 43.5% |
| SKN | Stokmarknes | 44 | 13 | 57 | -27.3% | 155.2% | -13.3% | -25.8% | 146.2% | -11.9% | -28.2% | 728.8% | -9.6% |
| KLX | Kalamata | 44 | 67 | 111 | 16.1% | 17.0% | 16.6% | 58.1% | 94.6% | 78.3% | 1467.1% | 14011.9% | 3291.3% |
| MQN | Mo i Rana | 44 | 4 | 48 | -8.4% | 282.7% | -1.9% | -40.2% | 741.3% | -34.9% | -43.3% | 537.5% | -38.4% |
| 0ST | Ostend-Bruges | 43 | 2 | 45 | 8.4% | 92.5% | 10.4% | 176.8% | 45.2% | 166.6% | 387.1% | 219.2% | 376.6% |
| SVJ | Svolvær | 43 | 3 | 46 | -36.4% | -9.2% | -35.3% | 11.7% | -56.8% | 2.1% | -7.5% | 156.0% | -3.9% |
| OSR | Ostrava | 43 | 1 | 44 | -29.5% | -92.5% | -42.9% | -12.4% | -92.7% | -32.9% | -6.6% | -98.4% | -63.9% |
| MLO | Milos | 42 | 44 | 86 | 10.5% | 11.0% | 10.8% | 250.0% | 323.9% | 284.4% | 200.0% | 526.7% | 309.6% |

| | | AB | SOLUTE 2 | 019 | GROW | TH 2019 V | S 2018 | GROW | TH 2019 V | S 2014 | GROW | TH 2019 V | /S 2009 |
|------|----------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| VDE | El Hierro | 42 | 4 | 46 | 0.0% | -31.6% | -4.0% | 44.8% | 50023.9% | 59.3% | 13.5% | | |
| TPS | Trapani Birgi | 42 | 33 | 75 | -17.0% | 6.1% | -8.2% | -67.9% | 80.2% | -49.6% | -59.5% | 110.0% | -37.0% |
| GIB | Gibraltar | 42 | 113 | 155 | 16.8% | 46.3% | 37.0% | | | | | | |
| LIG | Limoges | 41 | 10 | 51 | -12.0% | -2.4% | -10.3% | -19.5% | -12.2% | -18.2% | -38.7% | -65.6% | -46.7% |
| HVG | Honningsvåg | 41 | 0 | 41 | -8.3% | | | -19.4% | -88.0% | -22.0% | -17.0% | -62.8% | -17.6% |
| FDE | Førde | 40 | 2 | 42 | -2.4% | 1296.7% | 1.4% | 0.1% | 224.6% | 2.9% | 0.1% | 68.7% | 1.7% |
| AOK | Karpathos | 40 | 17 | 57 | -10.7% | -53.5% | -30.2% | -6.7% | -40.0% | -20.2% | -4.9% | 48.6% | 6.8% |
| PLQ | Palanga | 40 | 68 | 108 | -12.4% | -12.4% | -12.4% | 90.1% | 31.8% | 48.7% | 42.1% | 38.8% | 40.0% |
| VXO | Växjö | 39 | 89 | 128 | -9.2% | 12.7% | 5.0% | | | | | | |
| ANR | Antwerp-Deurne | 38 | 1 | 39 | -41.3% | | | 48.6% | 55.4% | 48.7% | -21.8% | -96.3% | -38.7% |
| VAW | Vardø | 38 | | 38 | -9.0% | | | -10.0% | | | -8.5% | | |
| LDE | Tarbes | 37 | 18 | 55 | 12.1% | 15.5% | 13.2% | 41.5% | 70.4% | 50.0% | 75.0% | 66.9% | 72.2% |
| BNN | Brønnøysund | 37 | 0 | 37 | -18.0% | -99.8% | -24.6% | -57.3% | -98.6% | -57.6% | -55.0% | -97.1% | -55.2% |
| ED0 | Balikesir Koca Seyit | 36 | 70 | 106 | -37.6% | 28.5% | -5.5% | 158.1% | 707.2% | 368.8% | | | |
| KIR | Kerry | 36 | 54 | 90 | 0.0% | 15.9% | 9.0% | 5.5% | 88.3% | 43.4% | -22.1% | -11.5% | -16.1% |
| SSJ | Sandnessjøen | 35 | 3 | 38 | -16.4% | -49.6% | -20.5% | -52.9% | 507.1% | -49.2% | -58.5% | | |
| DNZ | Denizli Çardak | 35 | 127 | 162 | -8.1% | 33.2% | 21.5% | 0.4% | -7.3% | -5.7% | 152.1% | 1188.0% | 584.8% |
| MHQ | Mariehamn | 34 | 28 | 61 | 0.0% | -34.8% | -19.4% | 24.5% | 130.7% | 57.2% | 29.3% | | |
| RJK | Rijeka | 34 | 42 | 75 | 18.7% | 42.3% | 30.7% | 126.4% | 421.6% | 230.0% | 110.1% | 499.3% | 228.4% |
| KLU | Klagenfurt | 33 | 225 | 258 | -8.3% | -2.2% | -3.0% | -21.4% | -0.7% | -3.9% | -55.9% | -25.9% | -31.8% |
| RVN | Rovaniemi | 33 | 256 | 289 | 3.5% | 11.0% | 10.1% | 3.3% | 38.6% | 33.4% | 37.5% | 76.4% | 70.9% |
| MQM | Mardin | 33 | 99 | 132 | -29.9% | -1.8% | -10.7% | -6.9% | 243.8% | 106.4% | 93.3% | 241.9% | 187.3% |
| ВСМ | Bacau | 32 | 27 | 60 | -2.9% | 11.3% | 3.1% | -2.5% | | | -1.6% | 166.3% | 38.2% |

| | | AB | SOLUTE 2 | 019 | GR0W | TH 2019 V | /S 2018 | GR0W | TH 2019 V | S 2014 | GROW | TH 2019 V | /S 2009 |
|------|----------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| PNA | Pamplona | 32 | 255 | 287 | -1.6% | 58.0% | 47.9% | 30.9% | 211.1% | 169.3% | -56.6% | 26.7% | 4.2% |
| AEI | Algeciras (Heliport) | 32 | | 32 | 14.3% | | | | | | | | |
| SFT | Skellefteå | 32 | 69 | 101 | -33.3% | -15.5% | -22.1% | | | | | | |
| JOE | Joensuu | 32 | 105 | 137 | 3.2% | -10.0% | -7.2% | 6.7% | 15.0% | 12.9% | 23.1% | 79.8% | 62.3% |
| ZAZ | Zaragoza | 32 | 9 | 41 | -15.8% | 11.4% | -10.9% | 46.3% | 112.5% | 57.3% | -40.8% | -84.3% | -63.5% |
| FLW | Flores | 32 | 1 | 32 | 4.7% | -2.4% | 4.6% | 114.1% | 417.1% | 117.1% | 56.7% | 477.7% | 59.4% |
| HAA | Hasvik | 32 | 5 | 36 | -5.0% | 6.3% | -3.7% | 86.0% | 714.3% | 107.1% | 70.3% | | |
| VAS | Sivas Nuri Demirag | 32 | 50 | 82 | -16.0% | -25.4% | -22.1% | -1.3% | -36.9% | -26.8% | 351.0% | 43.4% | 94.5% |
| CRA | Craiova | 31 | | 31 | 6.2% | | | | | | 424.1% | | |
| ANX | Andøya | 31 | 15 | 46 | -39.7% | 99.8% | -22.5% | -6.2% | -14.1% | -8.9% | -20.0% | 356.9% | 8.4% |
| NAV | Nevsehir Kapadokya | 31 | 113 | 144 | 34.9% | 24.2% | 26.3% | 2.8% | -12.0% | -9.2% | 340.3% | 398.3% | 384.7% |
| SDN | Sandane | 30 | | 30 | -19.1% | | | -12.1% | | | -18.8% | | |
| GRQ | Groningen | 30 | 1 | 32 | -32.0% | -98.4% | -74.0% | 160.4% | 101.5% | 157.4% | 164.5% | | |
| BAL | Batman | 29 | 79 | 108 | -25.1% | -28.0% | -27.3% | -23.9% | 0.5% | -7.6% | 112.7% | 343.7% | 242.5% |
| KSY | Kars | 29 | 51 | 80 | -14.9% | -12.5% | -13.4% | 10.3% | 123.5% | 62.4% | 84.8% | 236.2% | 158.6% |
| BVG | Berlevåg | 29 | | 29 | -13.4% | | | -9.8% | | | -26.5% | | |
| AXD | Alexandroupoli | 28 | 17 | 45 | -24.1% | -18.4% | -22.1% | 35.1% | 26.8% | 31.8% | -37.7% | -30.3% | -35.1% |
| PIS | Poitiers-Biard | 28 | 5 | 33 | -0.5% | -36.6% | -8.6% | -0.7% | -31.2% | -7.1% | -9.1% | 44.7% | -3.5% |
| LXS | Limnos | 27 | 7 | 34 | 49.1% | -40.1% | 13.6% | -9.4% | -65.2% | -32.3% | -25.9% | -65.6% | -40.3% |
| KAJ | Kajaani | 27 | 150 | 177 | 0.0% | -3.9% | -3.4% | 18.1% | 45.0% | 40.1% | 53.8% | 63.1% | 61.7% |
| MJF | Mosjøen | 27 | 0 | 27 | -15.4% | -98.6% | -29.5% | -62.4% | -61.2% | -62.4% | -63.5% | -90.2% | -63.8% |
| RVK | Rørvik | 27 | | 27 | -17.1% | | | -28.6% | | | -5.3% | | |
| VBS | Brescia | 26 | | 26 | | | | | | | -38.3% | | |

| | | AB: | SOLUTE 2 | 019 | GROW' | TH 2019 V | 'S 2018 | GROW | TH 2019 V | 'S 2014 | GROW | TH 2019 V | /S 2009 |
|------|---------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| ERC | Erzincan | 26 | 60 | 86 | -21.8% | -11.8% | -15.1% | 21.9% | -3.3% | 3.0% | 135.9% | 186.2% | 169.1% |
| OSY | Namsos | 25 | | 25 | -16.6% | | | -34.4% | | | -36.0% | | |
| LUZ | Lublin | 25 | 38 | 62 | -36.4% | -25.9% | -30.5% | 279.2% | 896.5% | 505.4% | | | |
| KRN | Kiruna | 24 | 61 | 86 | -3.9% | -1.3% | -2.0% | -31.2% | 34.9% | 5.9% | 19.6% | 116.6% | 76.0% |
| SOJ | Sørkjosen | 24 | | 24 | -11.2% | | | -21.0% | | | -16.0% | | |
| KEM | Kemi-Tornio | 23 | 100 | 124 | -16.9% | -26.6% | -25.0% | 19.2% | 20.1% | 19.9% | -21.2% | 19974.9% | 310.8% |
| HAD | Halmstad | 23 | 19 | 42 | -18.3% | -21.3% | -19.7% | | | | | | |
| AJI | Agri | 23 | 32 | 55 | 28.1% | 14.9% | 20.0% | 62.8% | 12.0% | 28.6% | | | |
| MSR | Mus | 23 | 18 | 41 | -17.3% | -11.7% | -14.9% | 9.4% | -28.0% | -11.3% | 190.0% | 211.5% | 199.3% |
| KOK | Kokkola-Pietarsaari | 22 | 139 | 161 | -53.4% | -14.2% | -23.1% | -50.7% | 12.7% | -4.3% | -10.1% | 34.6% | 25.9% |
| AJR | Arvidsjaur | 22 | 36 | 58 | 10.6% | 154.8% | 71.0% | | | | | | |
| INI | Niš | 22 | 23 | 45 | 5.0% | 214.5% | 58.6% | | | | 633.3% | 3565.1% | 1134.2% |
| KCM | Kahramanmaras | 22 | 87 | 109 | -14.7% | 10.3% | 4.2% | 29.6% | 172.4% | 123.4% | 120.3% | 211.1% | 187.5% |
| NKT | Sirnak | 22 | 31 | 53 | -15.8% | -32.8% | -26.7% | | | | | | |
| OER | Örnsköldsvik | 22 | 36 | 57 | -55.5% | -7.6% | -34.3% | | | | | | |
| LYC | Lycksele | 22 | | 22 | -1.4% | | | | | | | | |
| UIP | Quimper | 21 | 17 | 38 | 0.0% | 57.3% | 19.0% | -11.1% | 13.6% | -1.8% | -14.7% | 5.3% | -6.9% |
| GEV | Gällivare | 21 | 28 | 50 | 3.4% | | | | | | | | |
| CIY | Comiso | 21 | 4 | 25 | | | | | | | | | |
| JYV | Jyväskylä | 21 | 173 | 193 | 0.0% | 3.8% | 3.4% | 21.4% | 44.0% | 41.2% | -37.5% | 66.0% | 41.1% |
| LYR | Svalbard | 20 | 85 | 105 | 5.1% | 3.5% | 3.8% | 32.8% | 78.0% | 67.0% | 13.1% | 90.5% | 68.1% |
| LRS | Leros | 20 | 27 | 47 | 67.6% | 39.9% | 50.6% | -5.4% | 342.7% | 71.2% | 25.4% | 260.0% | 99.3% |
| HFS | Hagfors | 20 | | 20 | 0.0% | | | | | | | | |

| | | ABS | SOLUTE 2 | 019 | GR0W | TH 2019 V | S 2018 | GROW | TH 2019 V | S 2014 | GROW | TH 2019 V | /S 2009 |
|------|-----------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| IOA | Ioannina | 20 | 18 | 38 | 25.0% | -8.5% | 6.3% | 66.7% | 88.4% | 76.4% | -13.0% | 36.3% | 5.2% |
| PX0 | Porto Santo | 20 | 19 | 39 | 66.7% | -43.0% | -13.9% | 233.3% | 2140.3% | 469.0% | -48.2% | 228.3% | -12.2% |
| THN | Trollhättan | 20 | 3 | 23 | -4.8% | -51.0% | -16.3% | | | | | | |
| VHM | Vilhelmina | 19 | | 19 | 9.6% | | | | | | | | |
| JIK | Ikaria | 19 | 11 | 30 | 0.0% | 116.0% | 23.5% | 3.8% | 2.8% | 3.4% | 218.5% | 362.5% | 258.1% |
| BDU | Bardufoss | 19 | 29 | 48 | -13.6% | -2.0% | -7.0% | -5.0% | -36.7% | -27.0% | 72.7% | 133.1% | 104.6% |
| LKL | Lakselv | 19 | 1 | 20 | -24.0% | -93.1% | -39.8% | -17.4% | -82.0% | -24.5% | -24.0% | -80.2% | -29.3% |
| LPI | Linköping | 19 | 221 | 240 | 0.0% | 1.3% | 1.2% | | | | | | |
| TYF | Torsby | 18 | | 18 | 0.0% | | | | | | | | |
| LGG | Liège | 18 | 2 | 20 | 27.1% | 26.4% | 27.0% | -27.5% | -53.0% | -30.6% | 11.3% | 79.2% | 14.9% |
| FOG | Foggia | 18 | | 18 | 5.9% | | | | | | | | |
| YEI | Bursa Yenisehir | 18 | | 18 | 20.0% | | | 350.0% | | | | | |
| KRF | Höga Kusten | 18 | | 18 | 62.0% | | | | | | | | |
| FNI | Nîmes | 18 | 6 | 24 | 12.4% | 94.7% | 25.5% | 12.3% | 468.9% | 40.2% | 19.0% | 255.5% | 42.5% |
| OSI | Osijek | 17 | 5 | 22 | -0.1% | 4.5% | 0.9% | 331.2% | 138.0% | 265.2% | 799.4% | 1929.1% | 926.7% |
| SMA | Santa Maria | 17 | 4 | 21 | 6.3% | -45.6% | -9.7% | 44.0% | 100.4% | 51.9% | 14.7% | 36.8% | 18.3% |
| OHD | Ohrid | 17 | 7 | 24 | 42.0% | 438.7% | 79.5% | 750.9% | | | 256.2% | 406.9% | 289.0% |
| ADF | Adiyaman | 17 | 31 | 48 | -19.4% | 16.5% | 1.0% | 20.7% | 8.6% | 12.5% | 112.0% | 53.0% | 69.3% |
| IGD | l dir | 17 | 81 | 98 | -6.4% | 10.8% | 7.5% | 18.7% | 112.4% | 87.3% | | | |
| KID | Kristianstad | 16 | 3 | 18 | 32.5% | | | | | | | | |
| KIT | Kythira | 16 | 9 | 25 | -6.0% | 34.7% | 6.0% | 0.8% | 37.1% | 11.8% | 125.7% | 77.4% | 104.9% |
| JKL | Kalimnos | 16 | 0 | 16 | | | | -24.2% | -97.8% | -39.9% | 94.9% | -96.7% | 33.3% |
| GPA | Araxos | 16 | 16 | 32 | 22.3% | 24.4% | 23.4% | 74.0% | 146.0% | 104.6% | 29.4% | 202.4% | 82.8% |

| | | AB | SOLUTE 2 | 019 | GROW' | TH 2019 V | /S 2018 | GROW | TH 2019 V | S 2014 | GROW' | TH 2019 V | /S 2009 |
|------|-------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| BJZ | Badajoz | 15 | 95 | 110 | 50.0% | 154.1% | 132.2% | 31.9% | 687.6% | 369.5% | -33.6% | 42.6% | 23.3% |
| KSD | Karlstad | 15 | | 15 | -64.2% | | | | | | | | |
| LCJ | Lodz | 15 | 47 | 62 | -6.1% | -12.9% | -11.3% | -20.7% | 114.9% | 51.8% | -51.1% | 706.6% | 69.2% |
| RET | Røst | 15 | | 15 | -6.3% | | | -4.7% | | | -14.6% | | |
| GMZ | La Gomera | 14 | 2 | 16 | 0.0% | -12.9% | -1.6% | 0.0% | | | 0.0% | | |
| KLF | Kaluga | 14 | 2 | 16 | -12.9% | -48.2% | -19.6% | | | | | | |
| VLL | Valladolid | 14 | 10 | 24 | 7.7% | -13.0% | -2.0% | -6.7% | -28.4% | -17.1% | -71.4% | -71.2% | -71.3% |
| BGG | Bingöl | 14 | 48 | 62 | -5.9% | 295.9% | 131.2% | | | | | | |
| YKO | Hakkari Yüksekova | 14 | 44 | 58 | -0.8% | -6.4% | -5.1% | | | | | | |
| JTY | Astypalaia | 13 | 0 | 13 | 114.9% | | | 12.5% | -91.2% | -12.1% | 19.7% | -91.6% | -9.2% |
| TUF | Tours | 13 | 4 | 17 | 0.0% | 5.2% | 1.2% | 0.0% | 20.2% | 4.3% | 42.4% | 25.8% | 37.9% |
| HMV | Hemavan | 12 | | 12 | -1.9% | | | | | | | | |
| JKG | Jönköping | 12 | 1 | 13 | -75.0% | -99.5% | -93.7% | | | | | | |
| EVG | Sveg | 12 | | 12 | 0.0% | | | | | | | | |
| JSH | Sitia | 12 | 7 | 19 | -20.4% | 25.5% | -7.2% | -56.0% | 8966.9% | -28.4% | -57.8% | 63.5% | -40.7% |
| NOP | Sinop | 11 | 57 | 68 | -27.9% | -16.3% | -18.5% | 61.9% | 18.7% | 24.2% | | | |
| IVL | Ivalo | 11 | 43 | 55 | -14.9% | 2.4% | -1.7% | -13.6% | -22.2% | -20.6% | 29.7% | 40.0% | 37.7% |
| PJA | Pajala | 11 | | 11 | 0.0% | | | | | | | | |
| RRS | Røros | 11 | | 11 | -8.3% | | | -8.3% | | | 0.0% | | |
| VIT | Vitoria | 11 | 2 | 13 | 83.3% | 9.3% | 66.1% | | | | -4.8% | -94.3% | -71.9% |
| SUJ | Satu Mare | 11 | 0 | 11 | -7.9% | -48.4% | -10.8% | 85.7% | -77.2% | 42.8% | 169.7% | -78.8% | 80.7% |
| OMR | Oradea | 10 | | 10 | -63.2% | | | -15.4% | | | -47.0% | | |
| KSJ | Kasos | 10 | | 10 | 0.0% | | | -47.2% | | | -58.1% | | |

| | | AB | SOLUTE 2 | 019 | GROW | TH 2019 V | /S 2018 | GROW | TH 2019 V | S 2014 | GROW | TH 2019 V | /S 2009 |
|------|--------------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| SVL | Savonlinna | 10 | | 10 | -50.0% | | | 0.0% | | | -12.7% | | |
| MZH | Amasya Merzifon | 10 | 16 | 26 | -9.1% | -7.8% | -8.3% | 1.9% | -71.7% | -60.7% | 243.4% | 154.9% | 183.1% |
| CKZ | Çanakkale | 10 | 27 | 36 | -29.2% | 3472.4% | 147.5% | 98.2% | | | 230.4% | 142.2% | 161.1% |
| DNR | Dinard | 9 | 13 | 22 | -10.0% | 101.5% | 33.6% | -34.9% | 166.9% | 17.6% | -50.0% | 124.1% | -7.7% |
| TGM | Vidrasau – Mures | 9 | 0 | 9 | 798.6% | | | 50.4% | -90.4% | 3.4% | -30.9% | -77.7% | -35.1% |
| CDT | Castellón | 9 | 3 | 12 | 13.6% | 84.2% | 26.4% | | | | | | |
| CND | Constanta | 9 | 50 | 59 | -49.8% | 82.4% | 30.7% | 77.7% | 61.0% | 63.3% | -40.5% | 382.1% | 133.3% |
| KAO | Kuusamo | 9 | 98 | 106 | 50.0% | 50.3% | 50.3% | 50.0% | 81.0% | 78.0% | 0.5% | 104.7% | 88.8% |
| SKU | Skyros | 8 | 3 | 11 | 0.0% | -8.9% | -2.7% | 33.3% | 7.4% | 24.7% | 33.3% | -67.9% | -29.7% |
| VST | Stockholm-Västerås | 8 | 9 | 17 | 0.0% | -33.4% | -20.9% | | | | | | |
| SNR | Saint-Nazaire | 7 | | 7 | -22.2% | | | 0.0% | | | -23.4% | | |
| VOL | Nea Anchialos | 7 | 2 | 9 | 5.7% | 126.2% | 21.4% | -24.4% | -69.6% | -44.5% | 236.6% | 47.0% | 156.4% |
| ISE | Isparta Süleyman Demirel | 6 | 54 | 60 | -17.7% | -1.2% | -3.2% | -11.6% | 26.5% | 21.2% | | | |
| JSY | Syros | 6 | | 6 | 0.0% | | | 0.0% | | | 200.0% | | |
| KTT | Kittilä | 6 | 62 | 68 | -14.3% | 9.2% | 6.6% | -14.3% | -14.7% | -14.7% | -28.6% | 143.2% | 100.8% |
| KZS | Kastelorizo | 6 | | 6 | 0.0% | | | -14.3% | | | 0.0% | | |
| PED | Pardubice | 6 | 2 | 8 | -33.3% | 23.1% | -24.9% | | | | | | |
| RJL | Logroño-Agoncillo | 6 | 41 | 47 | 0.0% | 20.0% | 17.0% | 0.0% | 17.0% | 14.5% | -65.9% | -42.0% | -46.8% |
| KFS | Kastamonu | 6 | 23 | 29 | -36.4% | -51.7% | -49.2% | | | | | | |
| DLE | Dole Jura | 6 | | 6 | 0.8% | | | -25.2% | | | | | |
| KZI | Kozani | 6 | 0 | 6 | 36.9% | | | | | | -29.6% | -95.4% | -34.2% |
| BAY | Baia Mare | 6 | 3 | 9 | | | | 20.0% | -36.7% | -8.0% | -51.7% | -58.9% | -54.4% |
| BWK | Brac | 5 | 0 | 5 | -43.5% | -86.7% | -52.4% | | | | | | |

| | | AB: | SOLUTE 2 | 019 | GR0W | TH 2019 V | /S 2018 | GR0W | TH 2019 V | 'S 2014 | GROW [*] | TH 2019 V | /S 2009 |
|------|----------------------|--------|----------|---------|--------|-----------|---------|--------|-----------|---------|-------------------|-----------|---------|
| Code | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport | Direct | Indirect | Airport |
| LEN | Léon | 5 | 8 | 13 | 0.0% | -45.4% | -33.6% | 0.0% | 57.5% | 28.6% | -86.8% | -85.9% | -86.3% |
| PMF | Parma | 5 | | 5 | -16.7% | | | -72.1% | | | -73.5% | | |
| 0M0 | Mostar | 5 | 4 | 9 | -7.5% | 132.0% | 29.1% | | | | 391.4% | | |
| KS0 | Kastoria | 5 | | 5 | 27.0% | | | -21.6% | | | -22.5% | | |
| TEQ | Tekirdag Çorlu | 4 | | 4 | -42.9% | | | -71.4% | | | 0.0% | | |
| KCO | Kocaeli Cengiz Topel | 3 | | 3 | -24.5% | | | 0.0% | | | | | |
| RGS | Burgos | 3 | 6 | 9 | 0.0% | 41.9% | 24.1% | -40.0% | 292.3% | 35.6% | -70.0% | 436.1% | -20.7% |
| PDV | Plovdiv | 3 | | 3 | -57.1% | | | -49.3% | | | | | |
| SXZ | Siirt | 3 | 11 | 14 | | | | | | | | | |
| KLV | Karlovy Vary | 2 | 3 | 5 | -50.0% | -43.7% | -46.2% | -75.0% | -92.9% | -90.3% | -75.0% | -90.6% | -87.8% |
| ILD | Lleida | 2 | 0 | 2 | 0.0% | -61.4% | -18.9% | -2.6% | 130.3% | 6.3% | | | |
| AVN | Avignon | 2 | | 2 | -1.1% | | | 1.0% | | | -75.9% | | |
| SLM | Salamanca | 1 | | 1 | | | | -75.0% | | | -94.4% | | |

APPENDIX 6: HUB CONNECTIVITY

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|------------------------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| FRA | Frankfurt | 78,773 | -0.2% | 10.6% | 28.4% |
| AMS | Amsterdam | 58,263 | 0.8% | 18.0% | 72.7% |
| CDG | Paris Charles de Gaulle | 47,556 | -2.1% | -5.2% | -7.7% |
| IST | Istanbul | 41,539 | 16.9% | 31.7% | 353.3% |
| MUC | Munich | 36,058 | 2.2% | 37.8% | 44.2% |
| LHR | London Heathrow | 33,904 | 0.8% | 2.7% | 13.8% |
| SV0 | Sheremetyevo International Airport | 24,879 | 22.1% | 80.8% | 446.3% |
| MAD | Madrid-Barajas | 22,933 | 9.9% | 53.4% | 17.9% |
| ZRH | Zürich | 18,392 | 8.7% | 30.9% | 44.8% |
| VIE | Vienna | 15,655 | 2.9% | 20.1% | 27.4% |
| FC0 | Rome Fiumicino | 14,854 | 7.4% | 17.1% | 35.9% |
| HEL | Helsinki | 12,393 | 7.0% | 62.2% | 140.0% |
| LIS | Lisbon | 6,494 | -2.0% | 49.4% | 155.5% |
| WAW | Warsaw | 6,329 | 19.8% | 174.4% | 336.1% |
| BRU | Brussels | 6,325 | -9.0% | -1.4% | 11.1% |
| СРН | Copenhagen | 6,081 | 7.8% | -2.2% | -2.5% |
| DUB | Dublin | 4,365 | 4.3% | 124.8% | 408.8% |
| BCN | Barcelona-El Prat | 4,353 | 6.1% | 57.6% | 55.6% |
| DME | Moscow Domodedovo | 4,116 | 6.5% | 80.1% | 304.3% |
| 0SL | Oslo | 4,003 | -4.0% | -2.3% | 45.9% |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|-------------------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| SAW | Sabiha Gökçen International | 3,734 | 32.0% | 58.7% | 2333.9% |
| ATH | Athens | 3,309 | 3.6% | 66.4% | 88.3% |
| DUS | Düsseldorf | 3,254 | 8.8% | 10.5% | 23.0% |
| ARN | Stockholm-Arlanda | 3,000 | -13.2% | 12.1% | 129.1% |
| KEF | Keflavik | 2,818 | -38.9% | 100.5% | 923.8% |
| PRG | Prague | 1,676 | -17.1% | 8.9% | -47.7% |
| STN | London Stansted | 1,617 | 2.6% | 80.3% | 86.0% |
| LGW | London Gatwick | 1,492 | -4.1% | 51.1% | 57.2% |
| MAN | Manchester | 1,370 | 13.2% | 41.2% | 189.7% |
| ORY | Paris-Orly | 1,289 | 12.7% | 11.5% | 20.3% |
| MXP | Milan Malpensa | 1,267 | 24.2% | 62.4% | 44.6% |
| GVA | Genève | 1,207 | 2.9% | -2.4% | 83.2% |
| KBP | Kiev | 1,085 | -9.1% | -16.8% | 354.0% |
| STR | Stuttgart | 908 | -3.4% | 96.5% | 109.5% |
| RIX | Riga | 907 | 28.7% | 196.0% | 160.1% |
| LED | St-Petersburg | 886 | 1.1% | -1.7% | 111.6% |
| TXL | Berlin Tegel | 776 | 20.1% | -70.7% | 61.0% |
| LIN | Milan Linate | 596 | 15.1% | 25.2% | 130.3% |
| CGN | Köln-Bonn | 592 | -44.0% | 55.6% | 73.3% |
| НАМ | Hamburg | 563 | -29.2% | 16.0% | 20.5% |
| VKO | Vnukovo International Airport | 491 | -7.5% | | |
| LYS | Lyon-Saint Exupéry | 489 | 9.2% | 28.8% | -55.7% |
| LCY | London City | 449 | 5.8% | 7.4% | 456.1% |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|---------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| VCE | Venice | 354 | -4.0% | 21.2% | 83.0% |
| 0TP | Bucharest Otopeni | 347 | 4.5% | 28.6% | 29.6% |
| ВМА | Stockholm-Bromma | 341 | -21.6% | 22.8% | 445.6% |
| BSL | Basel-Mulhouse | 321 | 29.2% | 65.3% | 455.4% |
| BGY | Bergamo | 302 | 11.3% | 102.6% | 278.1% |
| BRS | Bristol | 301 | 6.8% | 50.4% | 140.5% |
| BEG | Belgrade | 263 | 4.9% | -4.0% | 611.0% |
| 0P0 | Porto | 241 | 11.8% | 150.9% | 202.2% |
| BUD | Budapest | 223 | 13.5% | 208.6% | -80.6% |
| BG0 | Bergen | 205 | 49.3% | 36.9% | 76.2% |
| AYT | Fraport TAV Antalya | 204 | 43.0% | 2760.7% | 980.0% |
| PMI | Palma de Mallorca | 201 | 16.1% | -73.7% | -81.7% |
| ВНХ | Birmingham | 194 | -4.4% | 64.6% | 131.5% |
| TLV | Tel Aviv Ben Gurion | 190 | 19.3% | 109.9% | 187.1% |
| MRS | Marseille Provence | 190 | 22.0% | 24.5% | -36.5% |
| LTN | London Luton | 173 | | | |
| NCE | Nice Côte d'Azur | 168 | 5.1% | 34.1% | 67.9% |
| LJU | Ljubljana | 167 | -46.3% | 69.4% | -4.6% |
| EDI | Edinburgh | 151 | -7.3% | 188.6% | 141.4% |
| BLQ | Bologna | 150 | 17.7% | 66.4% | 379.9% |
| ADB | zmir Adnan Menderes | 148 | 13.4% | 732.9% | 219.9% |
| BOD | Bordeaux | 120 | 40.6% | 153.1% | -1.7% |
| GOT | Göteborg Landvetter | 115 | 0.3% | 34.7% | -10.4% |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|----------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| AGP | Malaga-Costa del Sol | 102 | 11.9% | 25.6% | 137.3% |
| ZAG | Zagreb | 97 | -10.0% | | |
| TOS | Tromsø | 97 | 21.1% | 46.3% | 262.8% |
| HAJ | Hannover | 91 | -18.9% | 117.5% | 31.2% |
| NAP | Naples | 90 | 51.0% | 188.4% | 270.1% |
| EIN | Eindhoven | 86 | 17.4% | 43.7% | 1783.5% |
| LUX | Luxembourg | 82 | 2.8% | 41.4% | 158.2% |
| MLA | Malta | 79 | 6.4% | 89.7% | 130.8% |
| NTE | Nantes | 78 | 12.4% | 378.6% | 383.3% |
| SKG | Thessaloniki | 77 | -0.1% | 50.0% | 143.2% |
| CRL | Charleroi | 73 | 2.5% | 65.1% | 383.0% |
| KLU | Klagenfurt | 68 | -16.4% | 325.8% | 1505.8% |
| LPA | Gran Canaria | 68 | -16.4% | 325.8% | 1505.8% |
| SVQ | Sevilla | 67 | 50.8% | 141.8% | 146.1% |
| GLA | Glasgow | 66 | -35.6% | 65.3% | 4.6% |
| TLS | Toulouse-Blagnac | 62 | -8.5% | 21.0% | 40.8% |
| KIV | Chisinau | 62 | -2.2% | 335.1% | 785.3% |
| VLC | Valencia | 61 | 10.4% | 103.5% | 18.4% |
| SOU | Southampton | 58 | -31.3% | -35.6% | -49.5% |
| SXF | Berlin Schönefeld | 57 | -22.1% | 132.1% | 80.5% |
| SVG | Stavanger | 54 | -31.1% | -59.7% | -49.1% |
| BIO | Bilbao | 52 | 4.0% | 18.8% | 7.4% |
| PDL | Ponta Delgada | 52 | 11.8% | 83.3% | 323.0% |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|-----------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| NUE | Nürnberg | 47 | -22.2% | 10.1% | -62.0% |
| TFN | Tenerife Norte | 46 | -8.9% | 9277.3% | 3193.5% |
| SOF | Sofia | 44 | -6.3% | 17.8% | 24.9% |
| EMA | East Midlands | 43 | -13.8% | -18.9% | -44.5% |
| NCL | Newcastle | 43 | -2.9% | | |
| IBZ | lbiza | 41 | -4.2% | 7.5% | 772.0% |
| SNN | Shannon | 41 | 12.9% | -13.2% | 85.6% |
| MSQ | Minsk | 40 | 72.0% | 132.7% | 4164.3% |
| CIA | Rome Ciampino | 37 | -4.4% | -49.0% | 563.7% |
| ALC | Alicante-Elche | 37 | -4.6% | 46.1% | 94.3% |
| ESB | Ankara Esenbo a | 34 | -12.8% | 134.3% | 399.9% |
| LCA | Larnaka | 28 | -48.9% | -1.0% | -70.8% |
| TSF | Treviso | 28 | -3.7% | 189.8% | 868.8% |
| CTA | Catania | 27 | 35.7% | | |
| SZG | Salzburg | 26 | 1.2% | 40.1% | 170.7% |
| FLR | Florence | 25 | -32.9% | -4.7% | 20.0% |
| BLL | Billund | 22 | -18.5% | 32.9% | -31.9% |
| WRO | Wroclaw | 22 | -1.9% | 276.5% | 838.7% |
| B00 | Bodø | 19 | -63.9% | -41.1% | 60.1% |
| TRN | Turin | 18 | -52.2% | 25.7% | 433.1% |
| FA0 | Faro | 17 | 9.4% | 270.8% | 623.0% |
| AER | Sochi | 17 | 10.8% | | |
| TBS | Tbilisi | 17 | 46.2% | 779.0% | 188.4% |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|--------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| TRD | Trondheim | 16 | -11.1% | -20.0% | -22.5% |
| BRE | Bremen | 15 | -41.9% | -48.2% | -49.9% |
| KRK | Krakow | 14 | 59.2% | 1306.2% | 42.3% |
| PM0 | Palermo | 14 | 43.2% | 92.8% | 12.4% |
| GRZ | Graz | 12 | -0.5% | 10.2% | 139.1% |
| SCQ | Santiago | 11 | 84.6% | 25.2% | 333.9% |
| SPU | Split | 10 | -2.1% | 104.3% | 124.9% |
| VRN | Verona | 10 | 47.0% | 12535.8% | 95.5% |
| SXB | Strasbourg | 10 | -40.9% | -61.1% | -63.2% |
| VNO | Vilnius | 9 | 55.2% | 45.6% | 11764.6% |
| BTS | Bratislava | 9 | -15.1% | 1774.1% | -9.8% |
| TRF | Sandefjord | 9 | -22.3% | | |
| ORK | Cork | 9 | 80.6% | -6.3% | 313.4% |
| TIV | Tivat | 8 | 365.2% | 202.8% | 151.1% |
| CAG | Cagliari | 8 | 58.9% | 47.9% | 33.8% |
| KZN | Kazan | 8 | 317.8% | | 220.4% |
| GRO | Girona-Costa Brava | 7 | -19.3% | -66.4% | -94.0% |
| DBV | Dubrovnik | 7 | 13.4% | 1300.2% | 10039.0% |
| HER | Heraklion | 7 | -46.1% | 59.9% | |
| TLL | Tallinn | 6 | -70.6% | -27.6% | 28.1% |
| BRI | Bari | 6 | 220.1% | | |
| POZ | Poznan | 6 | -11.7% | 754.1% | 505.2% |
| LIL | Lille-Lesquin | 5 | -56.7% | -55.5% | 0.7% |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|----------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| ABZ | Aberdeen | 5 | -51.0% | -69.7% | -71.6% |
| PF0 | Pafos | 5 | 414.7% | 769.8% | 300.2% |
| TZX | Trabzon | 5 | -10.8% | | |
| ADA | Adana | 5 | 218.7% | 666.0% | 3713.3% |
| CLJ | Cluj Avram Iancu | 5 | -34.6% | 3730.3% | 560.9% |
| RTM | Rotterdam | 4 | -14.6% | | |
| HHN | Hahn | 4 | | | |
| MHQ | Mariehamn | 4 | -4.8% | 4.9% | |
| FMM | Memmingen | 4 | 47.0% | 510.6% | -32.2% |
| ВОЈ | Bourgas | 4 | | | 482.0% |
| JSI | Skiathos | 4 | -10.3% | | |
| TFS | Tenerife Sur | 4 | 3.2% | -36.6% | -64.2% |
| LNZ | Linz | 3 | -45.4% | -61.1% | -59.5% |
| ODS | Odessa | 3 | 140.6% | -52.9% | 437.6% |
| CFU | Corfu | 2 | 73.0% | 46.5% | -51.3% |
| PRN | Prishtina | 2 | 55.2% | | |
| ACE | Lanzarote | 2 | -78.2% | 54.5% | -8.5% |
| MAH | Menorca | 2 | 17.8% | 269.6% | |
| BJV | Mu la Milas - Bodrum | 2 | 228.4% | | 28.2% |
| FUE | Fuerteventura | 2 | -37.1% | -28.2% | -64.9% |
| FNC | Madeira | 2 | -70.5% | -51.0% | -89.9% |
| NOC | Knock | 2 | 82.8% | 52.0% | 739.8% |
| INN | Innsbruck | 2 | -62.1% | 73.6% | 9438.1% |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|----------------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| KYA | Konya | 2 | 1609.6% | 1770.4% | |
| FM0 | Münster | 2 | -69.9% | 2060.9% | -70.5% |
| CRA | Craiova | 2 | 29.5% | | |
| RHO | Rhodes | 2 | -57.7% | -76.3% | 323.2% |
| DSA | Doncaster Sheffield | 2 | | | |
| JMK | Mykonos | 2 | -18.0% | 69.2% | 657.0% |
| MMX | Malmö | 1 | -60.4% | 883.5% | |
| TIA | Tirana | 1 | 909.2% | -26.1% | -55.1% |
| TGD | Podgorica | 1 | -21.5% | 23.5% | 256.6% |
| FDH | Friedrichshafen | 1 | 32.1% | | 691.6% |
| RNS | Rennes | 1 | 115.3% | 566.0% | |
| GZT | Gaziantep | 1 | 193.6% | | |
| SBZ | Sibiu | 1 | | | 41.6% |
| OVD | Asturias | 1 | 5.1% | | |
| KUN | Kaunas | 1 | 383.9% | -78.5% | |
| OSR | Ostrava | 1 | -18.3% | -46.7% | |
| CHQ | Chania | 1 | -68.4% | -55.6% | |
| BRQ | Brno | 1 | 32.4% | 10.5% | |
| SDR | Santander–Seve Ballesteros | 1 | 69.3% | | |
| TSR | Timisoara | 1 | -14.0% | | -98.8% |
| KRS | Kristiansand | 1 | | 501.5% | |
| OST | Ostend-Bruges | 1 | 22.9% | 261.3% | |
| OLB | Olbia | 1 | -71.8% | -75.4% | -46.3% |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|---------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| PGF | Perpignan | 1 | 0.0% | | |
| JTR | Santorini | 1 | -24.5% | 36.7% | 447.3% |
| IAS | lasi | 1 | -72.1% | 9855.8% | |
| GRX | Granada-Jaén F.G.L. | 1 | -60.9% | | |
| SJJ | Sarajevo | 1 | -80.7% | -19.4% | |
| HAU | Haugesund | 1 | | | 13.5% |
| OSD | Åre Östersund | 1 | | | -58.2% |
| FNI | Nîmes | 1 | -35.3% | | |
| VGO | Vigo | 1 | | | |
| KUT | Kutaisi | 0 | 415.8% | | |
| ASR | Kayseri | 0 | | | |
| SKP | Skopje | 0 | | | 417.3% |
| LCG | A Coruña | 0 | -48.7% | -8.3% | |
| HOR | Horta | 0 | 74.4% | | 493.1% |
| JER | Channel Islands | 0 | 1456.4% | 96.2% | -93.0% |
| HTY | Hatay | 0 | 71.6% | | |
| TUF | Tours | 0 | | | |
| SPC | La Palma | 0 | | | -44.8% |
| KVA | Kavala | 0 | -75.5% | | |
| UME | Umeå | 0 | -16.4% | -95.8% | |
| LCJ | Lodz | 0 | -55.3% | | |
| BDS | Brindisi | 0 | 362.1% | | |
| VAR | Varna | 0 | -90.6% | | -33.7% |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|-------------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| LRH | La Rochelle – Ile de Ré | 0 | | | |
| SZF | Samsun Çarsamba | 0 | -33.9% | | |
| LGG | Liège | 0 | | -94.4% | -90.3% |
| KLX | Kalamata | 0 | | | |
| BIA | Bastia | 0 | -64.9% | | |
| VXO | Växjö | 0 | -89.4% | | |
| AJA | Ajaccio | 0 | | 211.0% | |
| CLY | Calvi Sainte-Catherine | 0 | | | |
| KIR | Kerry | 0 | 0.0% | | |
| SMA | Santa Maria | 0 | | | |
| CFE | Clermont-Ferrand | 0 | | -92.1% | -99.4% |
| ZAD | Zadar | 0 | -97.3% | | |
| ADF | Adiyaman | | | | |
| AEI | Algeciras (Heliport) | | | | |
| AES | Ålesund | | | | |
| AGH | Ängelholm-Helsingborg | | | | |
| AJI | Agri | | | | |
| AJR | Arvidsjaur | | | | |
| ALF | Alta | | | | |
| ANR | Antwerp-Deurne | | | | |
| ANX | Andøya | | | | |
| AOK | Karpathos | | | | |
| AVN | Avignon | | | | |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|----------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| AXD | Alexandroupoli | | | | |
| BAL | Batman | | | | |
| BAY | Baia Mare | | | | |
| ВСМ | Bacau | | | | |
| BDU | Bardufoss | | | | |
| BES | Brest | | | | |
| BGG | Bingöl | | | | |
| BIQ | Biarritz | | | | |
| BJF | Båtsfjord | | | | |
| BJZ | Badajoz | | | | |
| BNN | Brønnøysund | | | | |
| BUS | Batumi | | | | |
| BVG | Berlevåg | | | | |
| BWK | Brac | | | | |
| CDT | Castellón | | | | |
| CFR | Caen-Carpiquet | | | | |
| CIY | Comiso | | | | |
| CKZ | Çanakkale | | | | |
| CND | Constanta | | | | |
| DIY | Diyarbakir | | | | |
| DLE | Dole Jura | | | | |
| DNR | Dinard | | | | |
| DNZ | Denizli Çardak | | | | |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|---------------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| EAS | San Sebastian | | | | |
| ED0 | Balikesir Koca Seyit | | | | |
| EFL | Kefalonia | | | | |
| ERC | Erzincan | | | | |
| ERZ | Erzurum | | | | |
| EVE | Harstad/Narvik | | | | |
| EVG | Sveg | | | | |
| EZS | Elazig | | | | |
| FDE | Førde | | | | |
| FLW | Flores | | | | |
| FOG | Foggia | | | | |
| FR0 | Florø | | | | |
| GEV | Gällivare | | | | |
| GIB | Gibraltar | | | | |
| GMZ | La Gomera | | | | |
| GNY | anliurfa Gap | | | | |
| GPA | Araxos | | | | |
| GRQ | Groningen | | | | |
| GZP | Alanya – Antalya Gazipasa | | | | |
| HAA | Hasvik | | | | |
| HAD | Halmstad | | | | |
| HFS | Hagfors | | | | |
| HFT | Hammerfest | | | | |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|--------------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| HMV | Hemavan | | | | |
| HOV | Ørsta-Volda | | | | |
| HRK | Kharkiv | | | | |
| HVG | Honningsvåg | | | | |
| IGD | l dir | | | | |
| ILD | Lleida | | | | |
| INI | Niš | | | | |
| INV | Inverness | | | | |
| IOA | Ioannina | | | | |
| IOM | Isle of Man | | | | |
| ISE | Isparta Süleyman Demirel | | | | |
| IVL | Ivalo | | | | |
| JCU | Ceuta (Heliport) | | | | |
| JIK | Ikaria | | | | |
| JKG | Jönköping | | | | |
| JKH | Chios | | | | |
| JKL | Kalimnos | | | | |
| JNX | Naxos | | | | |
| JOE | Joensuu | | | | |
| JSH | Sitia | | | | |
| JSY | Syros | | | | |
| JTY | Astypalaia | | | | |
| JYV | Jyväskylä | | | | |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|----------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| KAJ | Kajaani | | | | |
| KA0 | Kuusamo | | | | |
| KCM | Kahramanmara | | | | |
| KC0 | Kocaeli Cengiz Topel | | | | |
| KEM | Kemi-Tornio | | | | |
| KFS | Kastamonu | | | | |
| KGS | Kos | | | | |
| KID | Kristianstad | | | | |
| KIT | Kythira | | | | |
| KKN | Kirkenes | | | | |
| KLF | Kaluga | | | | |
| KLR | Kalmar | | | | |
| KLV | Karlovy Vary | | | | |
| KOK | Kokkola-Pietarsaari | | | | |
| KRF | Höga Kusten | | | | |
| KRN | Kiruna | | | | |
| KSC | Košice | | | | |
| KSD | Karlstad | | | | |
| KSJ | Kasos | | | | |
| KS0 | Kastoria | | | | |
| KSU | Kristiansund | | | | |
| KSY | Kars | | | | |
| KTT | Kittilä | | | | |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|-------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| KUO | Kuopio | | | | |
| KZI | Kozani | | | | |
| KZS | Kastelorizo | | | | |
| LDE | Tarbes | | | | |
| LEI | Almería | | | | |
| LEN | Léon | | | | |
| LIG | Limoges | | | | |
| LKL | Lakselv | | | | |
| LKN | Leknes | | | | |
| LLA | Luleå | | | | |
| LPI | Linköping | | | | |
| LRS | Leros | | | | |
| LUZ | Lublin | | | | |
| LXS | Limnos | | | | |
| LYC | Lycksele | | | | |
| LYR | Svalbard | | | | |
| MCM | Monaco (Heliport) | | | | |
| MEH | Mehamn | | | | |
| MJF | Mosjøen | | | | |
| MJT | Mitilini | | | | |
| MLN | Melilla | | | | |
| MLO | Milos | | | | |
| MLX | Malatya | | | | |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|--------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| MOL | Molde | | | | |
| MQM | Mardin | | | | |
| MQN | Mo i Rana | | | | |
| MSR | Mus | | | | |
| MZH | Amasya Merzifon | | | | |
| NAV | Nev ehir Kapadokya | | | | |
| NKT | Sirnak | | | | |
| NOP | Sinop | | | | |
| NQY | Newquay | | | | |
| OER | Örnsköldsvik | | | | |
| OHD | Ohrid | | | | |
| 0M0 | Mostar | | | | |
| OMR | Oradea | | | | |
| OSI | Osijek | | | | |
| OSY | Namsos | | | | |
| OUL | Oulu | | | | |
| PAS | Paros | | | | |
| PDV | Plovdiv | | | | |
| PED | Pardubice | | | | |
| PIS | Poitiers-Biard | | | | |
| PJA | Pajala | | | | |
| PLQ | Palanga | | | | |
| PMF | Parma | | | | |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|------------------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| PNA | Pamplona | | | | |
| PUF | Pau-Pyrénées | | | | |
| PUY | Pula | | | | |
| PVK | Aktion | | | | |
| PX0 | Porto Santo | | | | |
| RET | Røst | | | | |
| REU | Reus | | | | |
| RGS | Burgos | | | | |
| RJK | Rijeka | | | | |
| RJL | Logroño-Agoncillo | | | | |
| RMU | Murcia International Airport | | | | |
| RNB | Ronneby | | | | |
| RRS | Røros | | | | |
| RVK | Rørvik | | | | |
| RVN | Rovaniemi | | | | |
| SDL | Sundsvall-Timrå | | | | |
| SDN | Sandane | | | | |
| SDV | Tel Aviv Dov Hoz | | | | |
| SFT | Skellefteå | | | | |
| SKN | Stokmarknes | | | | |
| SKU | Skyros | | | | |
| SLM | Salamanca | | | | |
| SMI | Samos | | | | |

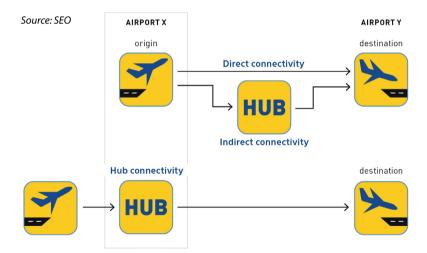
| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|--------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| SNR | Saint-Nazaire | | | | |
| SOG | Sogndal | | | | |
| SOJ | Sørkjosen | | | | |
| SSJ | Sandnessjøen | | | | |
| SUJ | Satu Mare | | | | |
| SVJ | Svolvær | | | | ** |
| SVL | Savonlinna | | | | |
| SXZ | Siirt | | | | |
| TEQ | Tekirdag Çorlu | | | | |
| TGM | Vidrasau – Mures | | | | |
| THN | Trollhättan | | | | |
| TKU | Turku | | | | ** |
| TLN | Toulon-Hyères | | | | |
| TMP | Tampere-Pirkkala | | | | *** |
| TPS | Trapani Birgi | | | | *** |
| TRS | Trieste | | | | *** |
| TYF | Torsby | | | | *** |
| UIP | Quimper | | | | *** |
| VAA | Vaasa | | | | |
| VAN | Van Ferit Melen | | | | |
| VAS | Sivas Nuri Demirag | | | | |
| VAW | Vardø | | | | |
| VBS | Brescia | | | | |

| | | ABSOLUTE 2019 | GROWTH 2019 VS 2018 | GROWTH 2019 VS 2014 | GROWTH 2019 VS 2009 |
|------|--------------------|---------------|---------------------|---------------------|---------------------|
| Code | Airport | Hub | Hub | Hub | Hub |
| VBY | Visby | | | | |
| VDE | El Hierro | | | | |
| VDS | Vadsø | | | | |
| VHM | Vilhelmina | | | | |
| VIT | Vitoria | | | | |
| VLL | Valladolid | | | | |
| VOL | Nea Anchialos | | | | |
| VST | Stockholm-Västerås | | | | |
| XRY | Jerez | | | | |
| YEI | Bursa Yenisehir | | | | |
| YK0 | Hakkari Yüksekova | | | | |
| ZAZ | Zaragoza | | | | |
| ZTH | Zakynthos | | | | |

APPENDIX 7: NETSCAN METHODOLOGY

The connectivity performance offered from an airport (airport connectivity) is made up of all connections offered from the airport either direct or indirect via an intermediate hub. Hub connectivity represents the connectivity offered via (with a transfer at) the airport.

FIGURE 1: DIFFERENT TYPES OF CONNECTIVITY



Traditionally, connectivity is represented by the number of destinations or the number of direct flights offered from an airport. Although valuable in itself, this does not provide insight into the indirect and hub connectivity provided by the airports. The SEO NetScan connectivity model follows a more comprehensive approach and takes all three types of connectivity into account.

The NetScan model first identifies all direct and indirect (one-stop) connections available on an airport-pair. The model uses OAG passenger flight schedule data on direct flights as input. The flight schedules for the third week of June are used. Indirect connections are created within the model by connecting two direct flights taking into account minimum and maximum connecting times. Indirect connections are possible at any given airport between:

- flights of the same airline;
- flights of airlines working together in an alliance or through a codeshare agreement. The alliance and codeshare compositions are specified for the specific year of analysis.

As indirect connections are less attractive to the passenger than direct connections, due to the transfer and circuity time involved, each connection is weighted for its quality. The quality of a connection ranges between zero and one. A direct, non-stop flight operated by a jet aircraft is given the maximum quality of one. The quality of an indirect connection will always be lower than one since travel time is added due to transfer time and circuity time. The same holds true for a direct multi-stop connection or a direct connection operated by a turboprop: passengers face a lower network quality because of a longer travel time. Connections with a too long travel time relative to the theoretical direct flight time will be assigned a quality of 0. As such, these connections are considered to be unrealistic travel options for the passenger. Box 1 shows how the quality of individual connections is determined.

BOX 1: DETERMINING THE QUALITY OF INDIVIDUAL CONNECTIONS

The quality of each connection is calculated as follows:

1. First the maximum allowable perceived travel time is calculated. The maximum allowable perceived travel time $t_{x(h)y}^{perceived, \max}$ between airports X and Y depends upon the non-stop flight time between both airports $t_{xy}^{flight, non-stop}$ and a factor which decreases with distance. The non-stop flight time is determined by the geographical coordinates of origin and destination airport and the flight speed of an average jet aircraft taking into account the time needed for take-off and landing. Over longer distances passengers are willing to accept longer transfer and circuity times. Therefore the maximum allowable travel time also depends on a factor which decreases with distance: the further apart two airports are, the longer the maximum perceived travel time will be. For example, when the direct flight time between two airports is one hour, the maximum allowable perceived travel time will be about three hours, whereas this will be 24 hours for airports which are 12 hours apart by direct flight.

$$t_{xy}^{perceived,\,\mathrm{max}} = t_{xy}^{flight,\,non-stop} + 5*\log(t_{xy}^{flight,\,non-stop} + 0.5)$$

2. Second the actual perceived travel time is determined. For direct connections, the actual perceived travel time between airports X and Y $t_{x(h)y}^{perceived, actual}$ equals the actual flight time $t_{xy}^{flight, actual}$. For indirect flights the perceived travel time equals the flight times on both flight legs and the transfer time at hub H $t_h^{transfer}$. As transfer time is considered more uncomfortable than flight time, the transfer time is penalized by a factor which decreases with distance p_{xy} :

$$t_{x(h)y}^{perceived, actual} = \begin{cases} t_{xy}^{flight, actual} & for \ direct \ flights \\ \\ (t_{xh}^{flight, actual} + t_{hy}^{flight, actual}) + p_{xy} * t_{h}^{transfer} & for \ indirect \ flights \end{cases}$$
(2)

3. If the actual flight time is smaller than or equal to the average non-stop flight time, then the weight of the connection $q_{x(h),ya}$ equals one. In practice, this is only the case on direct flights operated by aircraft that are at least equally fast as the average jet aircraft on which the non-stop flight time is based. When the perceived travel time becomes larger than the maximum allowable perceived travel time, then the weight of the connection is zero and the connection will be considered unviable. In any other case, the perceived travel time lies between the non-stop flight time and the maximum allowable perceived flight time. In these cases, the weight of the connection depends on the relative difference between the perceived and maximum allowable travel time.

$$q_{x(h)y} = \begin{cases} 1 & \text{if } t_{x(h)y}^{perceived, actual} < t_{xy}^{flight, non-step} \\ 1 - \frac{t_{x(h)y}^{perceived, actual} - t_{xy}^{flight, non-step}}{t_{xy}^{perceived, max} - t_{xy}^{flight, non-step}} & \text{if } t_{xy}^{flight, non-step} < t_{x(h)y}^{perceived, actual} < t_{xy}^{perceived, max} < t_{xy}^{perceived, actual} < t_{xy}^{perceived, max} \end{cases}$$

When the perceived travel time is relatively small compared to the maximum allowable travel time, then the weight of the connection will be high and vice versa. The connectivity $CNU_{x(h)ya} \ \ \text{of an individual direct or indirect connection}$ equals its quality $\ q_{x(h)ya}$.

$$CNU_{x(h)ya} = q_{x(h)ya}$$

(4)

The CNU is calculated for each individual direct and indirect connection. This means that when a flight is offered with a daily frequency, the CNU's for each of these seven flights as well as for each possible connection have been calculated. The reason for distinguishing between individual flights is twofold. First, the flights might be carried out by different airplane types during the week leading to different flight times and therefore differing CNU's. Second, the same flight might connect to different flights on for example a Monday than on a Friday.

Summing the quality adjusted connectivity values offered by an airport on a certain airport-pair gives the total connectivity on the airport-pair. Summing direct and indirect connectivity offered from an airport yields the airport connectivity, which measures the connectivity available to passengers departing from the airport. Adding up hub connectivity by transfer (hub) airport yields the connectivity offered via the airport, which gives an indication of the performance of an airport as a transfer point.

Since 1997, NetScan has been applied in many consultancy studies for different stakeholders and has been widely published in the international peer-reviewed academic journals:

- Lieshout, R. & G. Burghouwt (2012). Airline competition in connecting markets. In: Niemeier et al. (eds), Liberalization in aviation. Aldershot: Ashgate.
- Burghouwt, G. and R. Redondi. Connectivity in air transport networks: an assessment of models and applications. Journal of Transport Economics and Policy 47(1), 35-53.
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- Burghouwt, G. and J. Veldhuis (2006). "The competitive position of hub airports in the Transatlantic market." Journal of Air Transportation, vol. 11, no. 1, pp. 106-130.
- Veldhuis, J. (1997). The competitive position of airline networks. Journal of Air Transport Management, 3(4), 181-188.

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For the 6th year running, ACI EUROPE releases its annual Airport Industry Connectivity Report – a comprehensive industry-wide snapshot of air connectivity. This Report lays out the evolution of direct, indirect and total airport connectivity as well as hub connectivity between 2009 and 2019, enriched by analysis based on SEO's NetScan connectivity methodology.

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