

Comprehensive Assessment EUROPEAN AVIATION

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SUPPORTING EUROPEAN AVIATION

Headlines (Week of 18 – 24 November 2022)

- The network recorded 22,653 daily flights on average over the past week (-2% on previous week), 86% of 2019 levels.
- Network traffic (flights) is below the base EUROCONTROL Traffic Scenario: 87% for November so far (vs 2019) On a year-to-date basis, 2022 has reached 83% of 2019 levels.
- With the change of season at the end of October, the network has recorded fewer flights. Overall, traffic levels have slightly decreased, if not stabilised compared to the previous week.
- Ryanair was the busiest aircraft operator with 2,172 flights per day on average (+11% vs 2019) over the last week, followed by Turkish Airlines (1,194; -3%), Lufthansa (1,106; -23%), Air France (927; -15%), easyJet (919; -27%), British Airways (703; -16%) and Wizz Air (633; +18%)
- Intra-European traffic is **-14% below** 2019 levels. Flows with China are at -69%, and the Middle East -5%.
- iGA Istanbul remains the busiest airport within the network (1,220 flights) and is ranked 12th globally.
- Arrival punctuality (within 15 min.) is ~77% while departure punctuality is ~72%, both below 2019 levels.
- The average share of non-operated schedules (~cancellations) for all European operators is 7% (YTD 2022).
- With the season change, ATFM delays have drastically reduced, but were slightly above 2019 levels last week.
- Jet fuel prices increased to 319 cts/gallon on 18 November (+5% over two weeks, +37% since early January).



Traffic Situation

Average daily flights (including overflights)

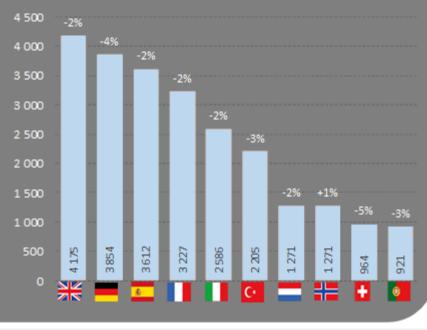
On week 18 - 24 Nov 2022

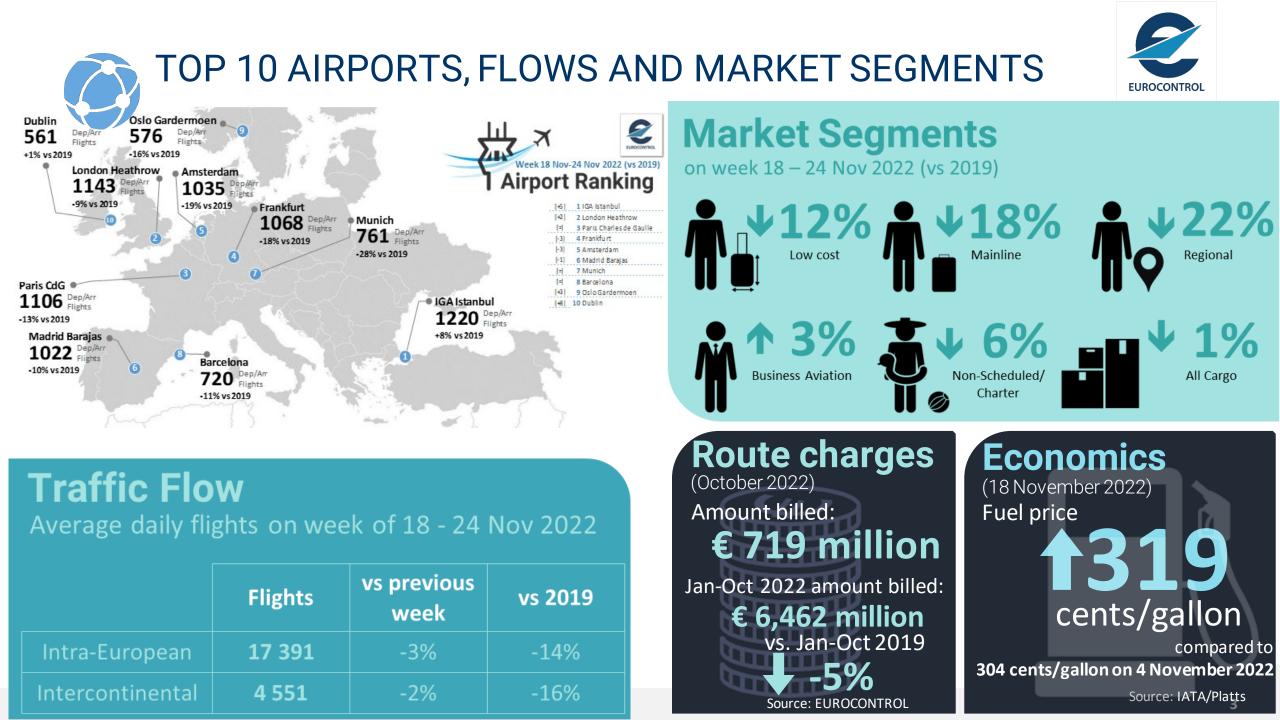


of equivalent week in 2019

Top 10 Busiest States

on week 18 - 24 Nov 2022 (avg daily flights) (Dep/Arr flights and comparison with previous week)

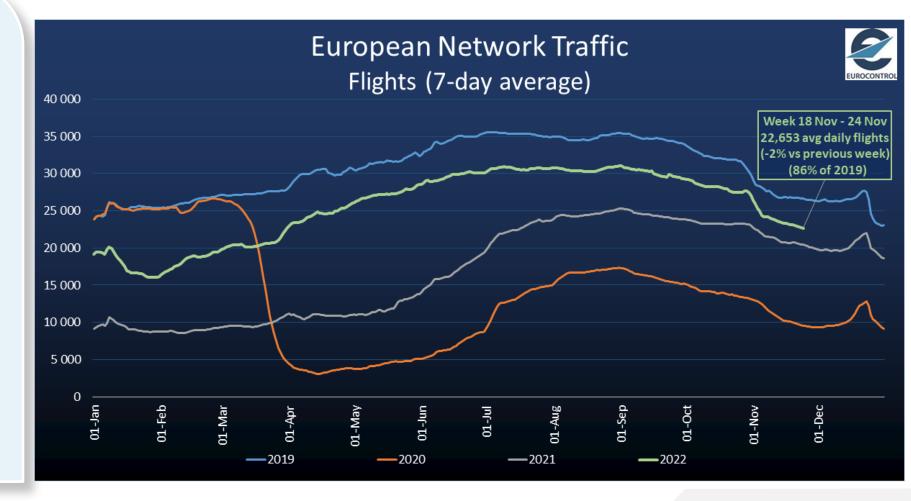








- **22,653** average daily flights.
- *** -2%** on previous week.
- **★ 86%** of 2019 traffic levels.
- Since the change in schedules, traffic volumes (flights) are much lower (~22,000) than during summer (~ 30,000).

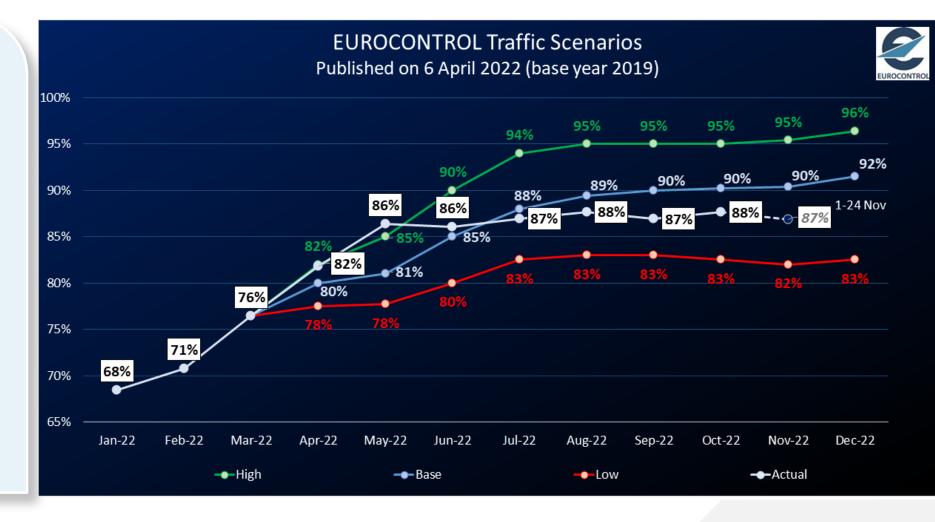






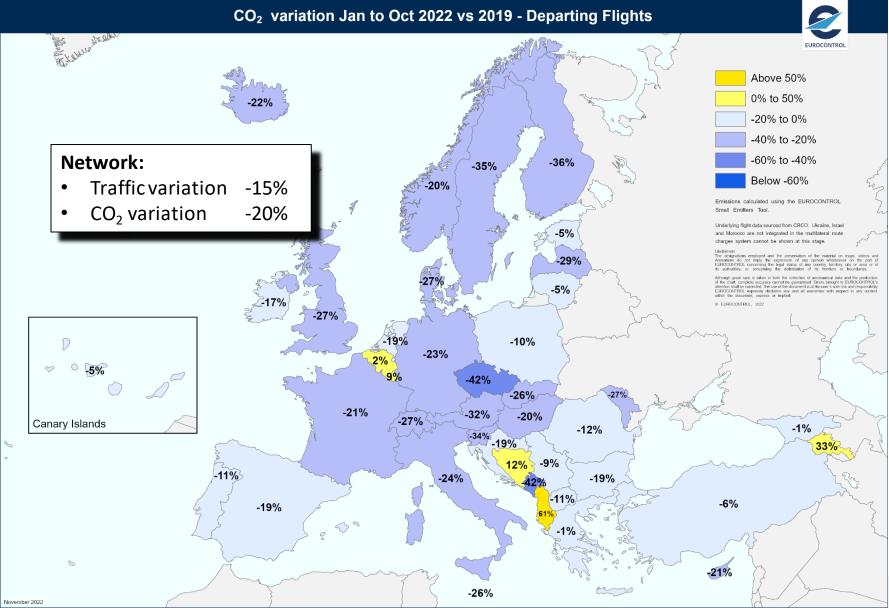


- The last EUROCONTROL Traffic Scenarios were published on 6 April 2022.
- Since the beginning of
 November, network traffic
 (flights) is 87% of 2019
 levels, below the base
 scenario.
- On a year-to-date basis, network traffic in 2022 stands at 83% of 2019.





AVIATION SUSTAINABILITY





D MARKET SEGMENTS

100%

80%

40%

20%

-209

-40%

-60% -80%

-100%

-120%

Market segments in EUROCONTROL Network (compared with equivalent days in 2019) 7-day moving average (Flights)



2022

Until 24 November2022, compared to 2019:

- *** Business Aviation** (+3%) is above 2019 levels.
- ✗ All-cargo (-1%) is starting to level off in line with 2019 levels.
- ★ Low-Cost (-12% vs 2019) remains below 2019 levels (after a blip due to the shift to winter schedules).
- Mainline (-18%) and Regional (-22%) have been recovering since the beginning of 2022 and have been stable since July (vs 2019).

Note: the "peaks" observed late October are mainly an artefact related to the start of the IATA Winter Season Schedules (30 October 2022), slightly later than in 2019 (when the winter schedule started on 27 October 2019).



AIRCRAFT OPERATORS (AVERAGE DAILY FLIGHTS FOR THE LAST WEEK)

Top 10 Aircraft	Week (18 - 24 Nov 2022)						
Operators	Average flights per day	% vs 2019	% over previous week				
RYANAIR	2 172	+11%	-0%				
	1 194	-3%	-2%				
😪 Lufthansa	1 106	-23%	-1%				
AIRFRANCE	927	-15%	-4%				
easyJet	919	-27%	-3%				
BRITISH AIRWAYS	703	-16%	+2%				
WIJZ	633	+18%	-0%				
KLM Royal Dutch Attines	601	-20%	-1%				
Scandinavian Airlines	581	-30%	-2%				
vueling	465	-3%	-1%				

- Ryanair is the busiest aircraft operator with 2,172 flights per day on average (+11% vs 2019) over last week, followed by Turkish Airlines (1,194; -3%), Lufthansa (1,106; -23%), Air France (927; -15%), easyJet (919; -27%), British Airways (703; -16%) and Wizz Air (633; +18%).
- *** easyJet** has moved down to 5th and **Air France** moved up to 4th compared to two weeks ago.

Within the top 10, all but one airline posted decreases over the previous week:

- Air France (-35 flights; -4%) mainly due to flows between France and Portugal, Morocco, Tunisia and Spain.
- easyJet (-31 flights; -3%) mainly due to flows between Spain and the UK, France and Portugal, France and Morocco and France and the UK.
- ✗ Turkish Airlines (-20 flights; -2%) mainly due to decreases in flows between Russia and Türkiye.

Only one increase for:

 British Airways (+13 flights; +2%) mainly due to domestic flows in the UK as well as flows between the UK and Germany, Qatar, France and the Netherlands.



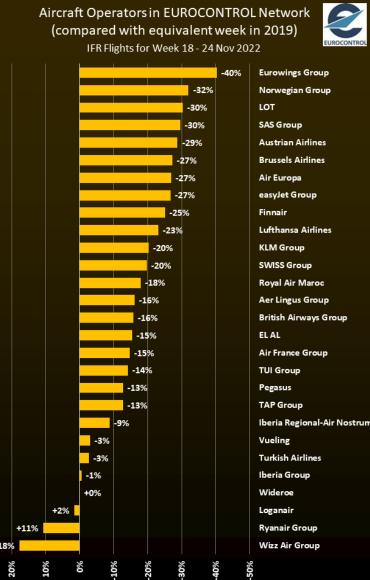
AIRCRAFT OPERATORS (AVERAGE DAILY FLIGHTS FOR THE LAST WEEK) TOP 40

Rank evolution	Top 10 Aircraft Operators - Week 18 - 24 Nov 2022							
over 1 week	Aircraft Operator	Average daily flights		∆ over 1 week		% over 1 week	% vs 2019	
→	Ryanair Group	2 172		<u> </u>	-7	-0%	7	+11%
→	Turkish Airlines	1 194		3	-20	-2%	<u>></u>	-3%
→	Lufthansa Airlines	1 106		<u> </u>	-9	-1%	<u>></u>	-23%
→	Air France Group	927		<u>></u>	-35	-4%	3	-15%
→	easyJet Group	919		2	-31	-3%	<u>></u>	-27%
→	British Airways Group	703		7	+13	+2%	<u>></u>	-16%
→	Wizz Air Group	633		→	-1	-0%	7	+18%
→	KLM Group	601		<u> </u>	-8	-1%	3	-20%
→	SAS Group	581		2	-11	-2%	2	-30%
→	Vueling	465		2	-2	-1%	2	-3%

* Largest decreases in flights compared to the previous week for Air France (-4%), easyJet (-3%), Turkish Airlines (-2%), SAS (-2%), Lufthansa (-1%) and KLM (-1%).

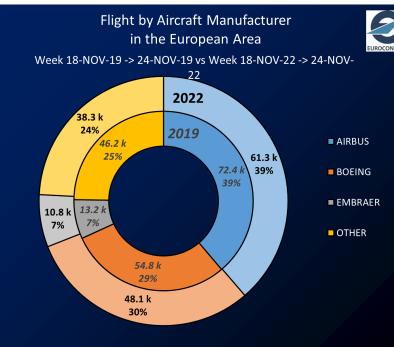
★ Highest increase for **British Airways** (+2%).

★ Traffic levels range from -40% (Eurowings) to +18% (Wizz Air) vs 2019.





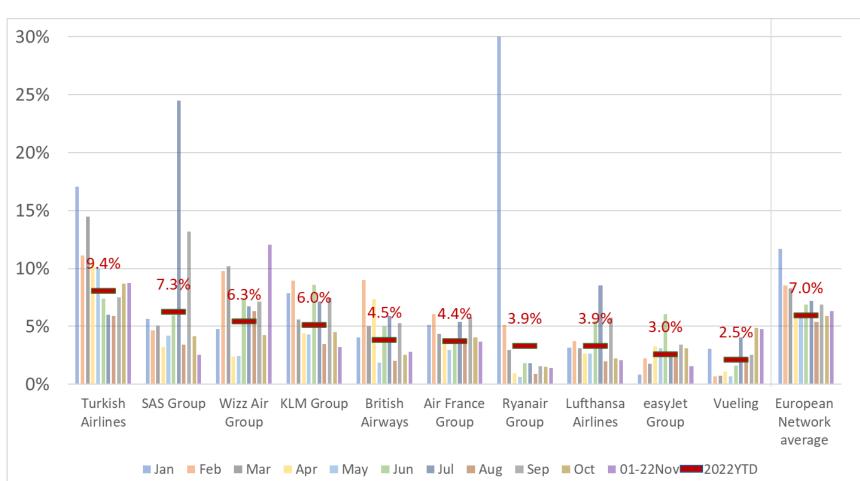




* At European level, 39% of all flights last week were operated by Airbus aircraft vs 30% by Boeing aircraft.

★ The situation varies for the top 20 aircraft operators. For these, Airbus' share was 53% while Boeing's share was 33%.

AIRCRAFT OPERATORS: NON-OPERATED SCHEDULES PER MONTH (01 JAN - 22 NOV 2022)



Operational impact of <u>non-</u> <u>operated schedules</u> since the beginning of 2022:

EUROCONTROL

- In 2022, the highest proportion of non-operated schedules was during Q1 on average (due to Omicron). High values were recorded during summer too owing to specific airlines (SAS, KLM, easyJet, Lufthansa).
- The average of non-operated schedules at European level is 7% on a year-to-date basis.

<u>Non-operated schedules</u> is the percentage of airline schedules for which **no ATC flight plan** was **matched** compared to the total number of expected flights.

AIRCRAFT OPERATORS (AVERAGE DAILY FLIGHTS FOR THE LAST WEEK) Cargo, Legacy, Low Cost and Regional Carriers





for the week 18 - 24 November 2022





OPERATED 67 flights/day -11% compared to the equivalent week in 2019



PERFORMANCE OF MAJOR LOW-COST CARRIERS

for the week 18 - 24 November 2022



operated 465 flights/day -3% compared to the equivalent week in 2019



Eurowings OPERATED 317 flights/day -40% compared to the equivalent week in 2019



Lufthansa
 OPERATED 1106 flights/day
 -23% compared to the equivalent week in 2019
 Compared to the equivalent week in 2019
 Compared to the equivalent week in 2019





PERFORMANCE OF MAJOR REGIONAL CARRIERS*

for the week 18 - 24 November 2022









STATES (AVERAGE DAILY DEPARTURE/ARRIVAL FLIGHTS FOR THE LAST WEEK)

Top 10 States

on week 18 - 24 Nov 2022 (avg daily dep/arr)



- ✗ UK is the State with the highest number of dep/arr flights on average over the last week (4,175; -15% vs 2019), followed by Germany (3,854; -24%), Spain (3,612; -2%), France (3,227; -12%), Italy (2,586; -12%) and Türkiye (2,205; -1%).
- ✗ In this top 10, Portugal (+3%) is the only State exceeding its 2019 traffic volumes.

★ The rankings remain unchanged compared to 2 weeks ago.

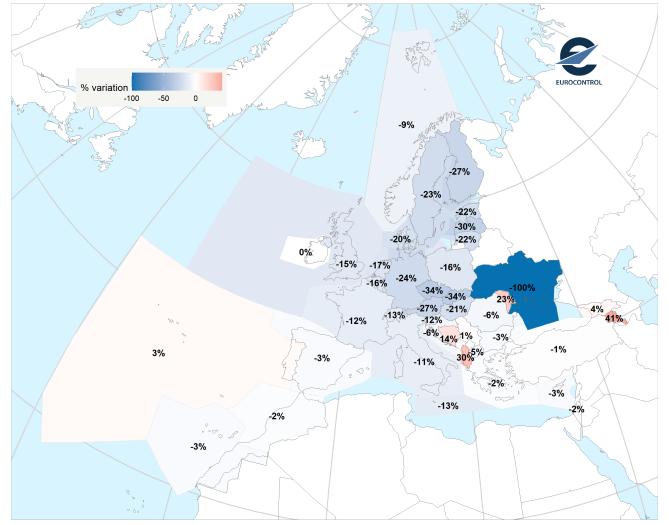
Within the top 10, **all** States posted flight decreases over the previous week owing to the change in the schedule season between the two weeks :

- **WK** (-587 flights; -12%) mainly due to lowcost airlines (easyJet, Jet2, TUI, Ryanair).
 Mainly domestic flows and flows with Spain, Greece, Türkiye, Italy and France.
- Spain (-557 flights; -13%) mainly due to low-cost airlines (Ryanair, Vueling, easyJet).
 Flows with the UK, Germany, France and Italy as well as domestic flows.
- ✗ Italy (-349 flights; -11%) mainly due to lowcost airlines. Domestic flows and flows with the UK, France, Germany and Spain.
- ✗ Greece (-342 flights; -33%) mainly due to low-cost airlines. Domestic flows and flows with the UK, Germany and France.



STATES (AVERAGE DAILY DEPARTURE/ARRIVAL FLIGHTS FOR THE LAST WEEK)

State FIR daily % arrivals/departures variation vs 2019 on 2022-11-23 7-day average - FIRs at altitude FL200



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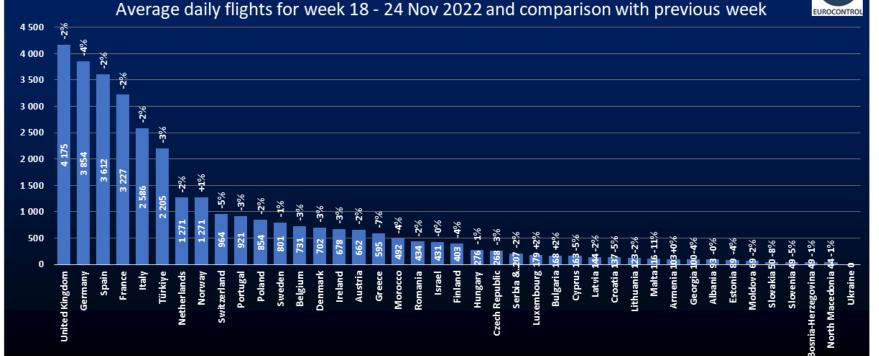
States (Dep/Arr flights)



States in EUROCONTROL Network (compared with equivalent week in 2019) IFR Dep/Arr Flights for Week 18 - 24 Nov 2022

					-100%	Ukraine
			-3	3%		Czech Republic
			-31	.%		Slovakia
			-31	%		Latvia
			-27%			Finland
			-26%			Austria
			-24%			Germany
			-23%			Lithuania
			-22%			Sweden
			-21%			Hungary
			-20%			Estonia
			-20%			Denmark
			-18%			Poland
			-16%			Netherlands
			-16%			Malta
			-16%			Belgium
			-15%			United Kingdom
			-14%			Luxembourg
			-14%			Switzerland
			-12%			France
			-12%			Italy
			-11%			Slovenia
			-9%			Norway
			-7%			, North Macedonia
			-7%			Romania
			-6%			Croatia
			-5%			Greece
			-4%			Bulgaria
			-4%			Cyprus
			-4%			Morocco
		5	-2%			Spain
		5	-1%			Israel
			-1%			Türkive
		+0%	-270			Serbia & Montenegro
		+1%				Ireland
		+2%				Georgia
		+3%				Portugal
	+149					Bosnia-Herzegovina
	+25%					Moldova
	+30%					Albania
45%	130/0					Armenia
-12/20						
	40% 20%	%0	-20%	%0 9	- 80%	
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STATES (AVERAGE DAILY DEPARTURE/ARRIVAL FLIGHTS FOR THE LAST WEEK)



* Largest decreases in flights vs the previous week for Germany (-4%), the UK (-2%), Türkiye (-3%), France (-2%), Italy (-2%) and Spain (-2%).

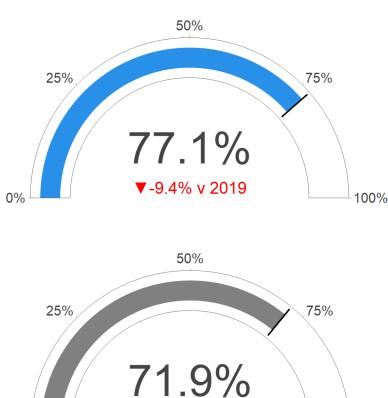
***** Highest (small) increases for **Norway** (+1%), **Luxembourg** (+2%) and **Bulgaria** (+2%).

X Traffic levels range from -100% (**Ukraine**) to +43% (**Armenia**) compared to 2019.



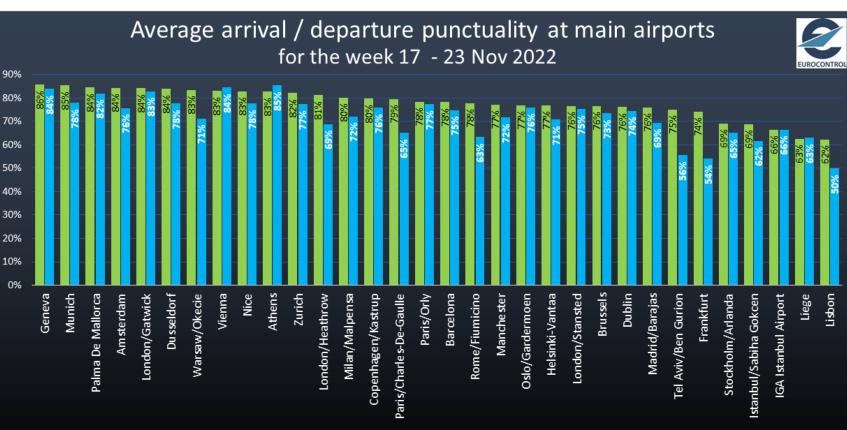
ARRIVAL & DEPARTURE PUNCTUALITY (AT TOP AIRPORTS FOR THE LAST WEEK)

Arrival punctuality (18 to 24/11)



▼-10.6% v 2019

100%



Average of departure Punctuality %

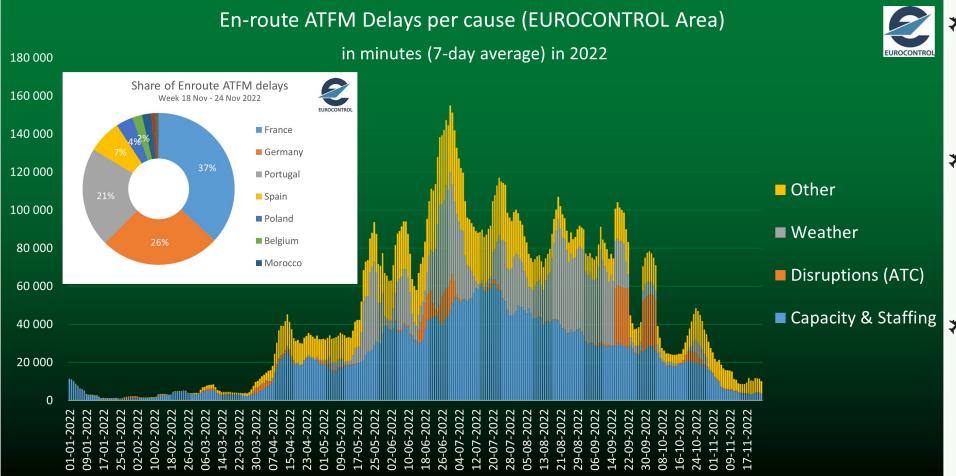
* Arrival and departure punctuality have improved slightly since the summer, but are still lagging behind 2019 levels.

Average of Arrival Punctuality %

* More detailed information be found on our new daily punctuality dashboards: main link, States link and Airports link.







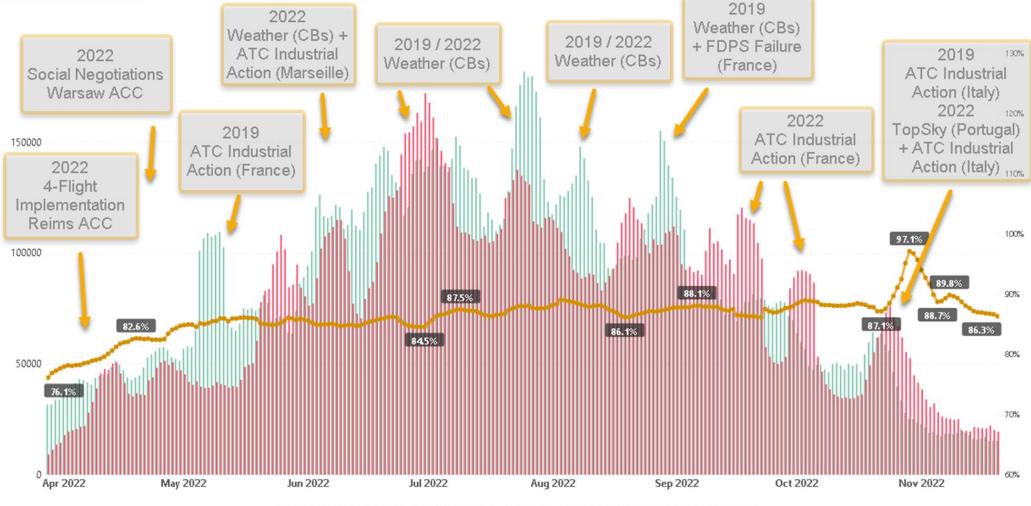
✗ With the start of the Winter schedule, we have observed a large reduction in ATFM delays at the Network level.

* Average en-route ATFM delays over the last week (18-24 Nov) have been slightly above 2019 levels (see next slide).

 Major contributors over the last 7 days: France (37% of all en-route ATFM delays), Germany (26%), Portugal (21%) Spain (7%) and Poland (4%).



TOTAL ATFM DELAYS (ALL CAUSES, AIRPORTS AND EN-ROUTE) 2019 and 2022 (7-day average)

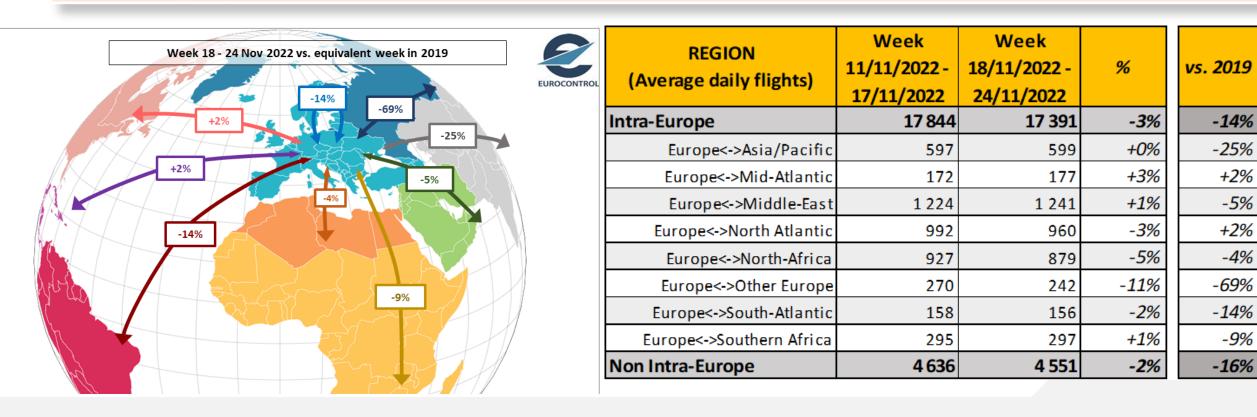


• 2019 [7 Days Delay Avg.] • 2022 [7 Days Delay Avg.] - % of 2019 Flights [7 Days Avg.]





- The main traffic flow is intra-European with 17,391 flights on average over the most recent week, -3% over the previous week.
 Flows between Europe and Other Europe (incl. Russia) are at -69% compared to 2019.
- ✗ Flows between Europe and Asia/Pacific are at -25% compared to 2019. Flows from, to and within China are still severely depressed (see next slide).
- **X** Intra-Europe flights are -14% below 2019 levels while intercontinental flows are at -16%.





OUTSIDE EUROPE: SITUATION IN CHINA OVER THE 2019-2022 PERIOD EUROCONTROL

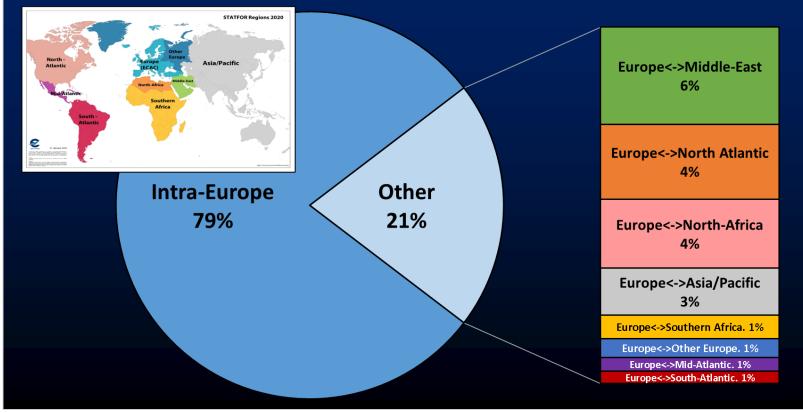
- ✗ Owing to the strict implementation of a zero COVID19 policy, China has recorded a series of peaks and troughs visà-vis its number of flights since 2020. On 17 November 2022, there were less than 4,000 daily domestic flights, a 66% decline vs 1 Jan 2020.
- ✗ International flights have stagnated for nearly three years, with just 1,141 daily flights in mid-November (-72% compared to 1 Jan 2020). Overflights remain low too on 765 daily flights (-52% vs 1 Jan 2020).

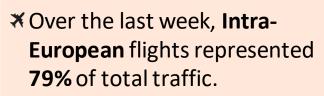






Share of worldwide flows to/from Europe for week 18 Nov - 24 Nov 2022

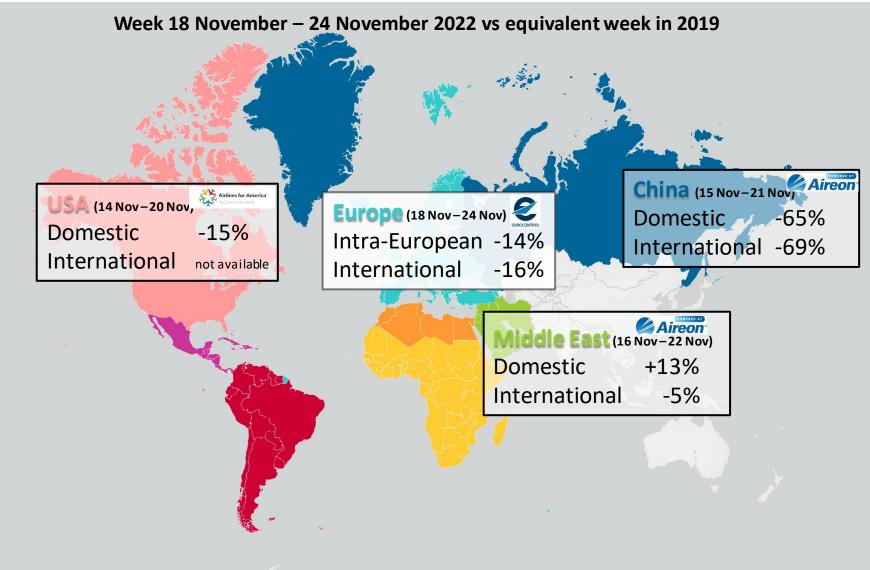




- ✗ In terms of intercontinental flows, the busiest partner with Europe is the Middle East (accounting for 6%) followed by North Africa and North Atlantic (4% each).
- ★ Asia/Pacific is the 4th busiest partner with 3%.









COUNTRY PAIRS (AVERAGE DAILY FLIGHTS FOR THE LAST WEEK)

-13

-7

-4%

-2%

-5%

-23%



Rank volution	Top 10 Country-Pair on week 18 - 24 Nov 2022							
ver prev. week	Country-Pair	Avg daily flights			s prev. reek	% vs prev. week	% v	s 2019
→	Spain <-> Spain	1 088		<u>></u>	-14	-1%	2	-3%
→	France <-> France	843		7	+8	+1%	8	-22%
→	Norway <-> Norway	793		7	+11	+1%	2	-3%
→	United Kingdom <-> United Kingdo	742		2	-12	-2%	2	-25%
→	Türkiye <-> Türkiye	742		→	+1	+0%	3	-15%
→	Italy <-> Italy	653		2	-13	-2%	2	-10%
→	Germany <-> Germany	602		<u>9</u>	-25	-4%	2	-37%
→	Spain <-> United Kingdom	491		<u> 1</u>	-10	-2%	7	+3%

Seven of the top 10 flows are domestic.

Germany <-> Spain

Germany <-> United Kingdom

➔

Spain-Spain is the country-pair with the highest number of dep/arr flights (1,088) followed by France-France (843), Norway-Norway (793), UK-UK (742), Türkiye-Türkiye (742), Italy-Italy (653) and Germany-Germany (602).

347

299

Within the top 10, seven flows posted a decrease over the previous week:

- **Germany-Türkiye** (-27 flights; -13%) mainly due to SunExpress, Turkish Airlines, Corendon and Pegasus.
- **Contract Sermany Germany** (-25 flights; -4%) mainly due to light AOs, Lufthansa and Starwings Dortmund.
- *** Russia-Türkiye** (-23 flights; -15%) mainly due to Turkish Airlines, Azur Air and Southwind Airlines.

Some increases for:

- **X Norway-Norway** (+11 flights; +1%) mainly due to Bristow Norway.
- **France-France** (+8 flights; +1%) mainly due to school flights, Air France, light AOs and Twin let.

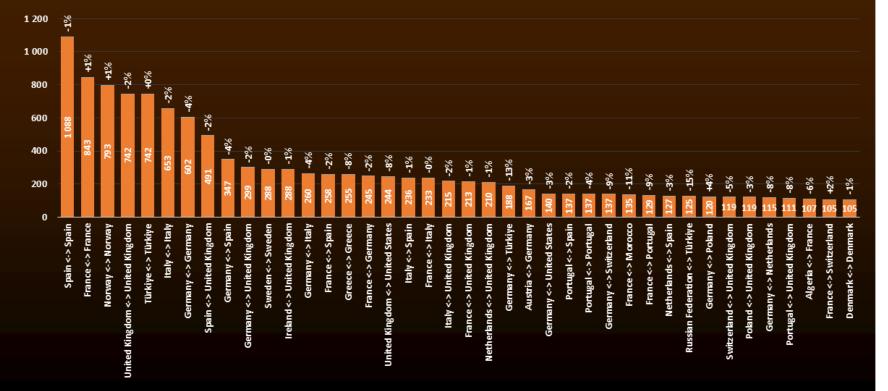


COUNTRY PAIRS (AVERAGE DAILY FLIGHTS FOR THE LAST WEEK)



Top 40 Country-Pairs (flights)

Average daily flights on week 18 - 24 Nov 2022 and comparison with previous week



Largest decreases in flights vs the previous week for Germany-Türkiye (-13%), Germany-Germany (-4%), Russia-Türkiye (-15%), Greece-Greece (-8%), UK-US (-8%) and France-Morocco (-11%).

★ Highest increases in flights vs the previous week for Norway-Norway (+1%), France-France (+1%), Germany-Poland (+4%) and France-Switzerland (+2%).



AIRPORTS (AVERAGE DAILY DEPARTURE/ARRIVAL FLIGHTS FOR THE LAST WEEK)

	10010						
Rank evolution	Top 10 Airports on week 18 Nov - 24 Nov 2022						
ver prev. Week	Airport	Average Daily Dep/Arr Flights	Δ over prev. week	% over prev. week	% vs 2019		
→	IGA Istanbul Airport	1 220	1 -9	-1%	7 +8%		
→	London/Heathrow	1 143	\ -7	-1%	9%		
→	Paris/Charles-De-Gaulle	1 106	-13	-1%	-13%		
→	Frankfurt	1 068	-22	-2%	-18%		
→	Amsterdam	1 035	-20	-2%	-19%		
→	Madrid/Barajas	1 022	71 +4	+0%	-10%		
→	Munich	761	-31	-4%	-28%		
→	Barcelona	720	-10	-1%	-11%		
7	Oslo/Gardermoen	576	→ +0	+0%	-16%		
7	Dublin	561	\ -7	-1%	7 +1%		

★ iGA Istanbul is the airport with the highest number of dep/arr flights (1,220), followed by London Heathrow (1,143), Paris CDG (1,106), Frankfurt (1,068) and Amsterdam (1,035).

*** iGA Istanbul** and **Dublin** are the only two airports in the top 10 above their 2019 levels (+8% and +7% respectively).

Within the top 10, **eight** airports posted **decreases** over the previous week, notably owing to the change in schedules, the highest being:

- Munich (-31 flights; -4%) mainly due to light AOs and Lufthansa. Domestic flows and flows with Italy, US and UK.
- Frankfurt (-22 flights; -2%) due to light AOs, Lufthansa and TUI. On domestic flows and flows with Italy and the US.
- Amsterdam (-20 flights; -2%) mainly due to KLM and light AOs. On flows with Germany, Spain and France.

Increase for

Madrid (+4 flights; +0%) mainly due to Iberia and Air France. On domestic flows, as well as flows with the Netherlands, Portugal and the US.



Top 40 Airports (Dep/Arr flights) Average daily flights for week 18 - 24 Nov 2022 and comparison with previous week 1 400 1 200 1 000 800 600 400 200

 Largest decreases in flights vs the previous week for Antalya (-17%), Paris Orly (-7%), Munich (-4%), Zurich (-5%), Geneva (-8%), Frankfurt (-2%) and Amsterdam (-2%).

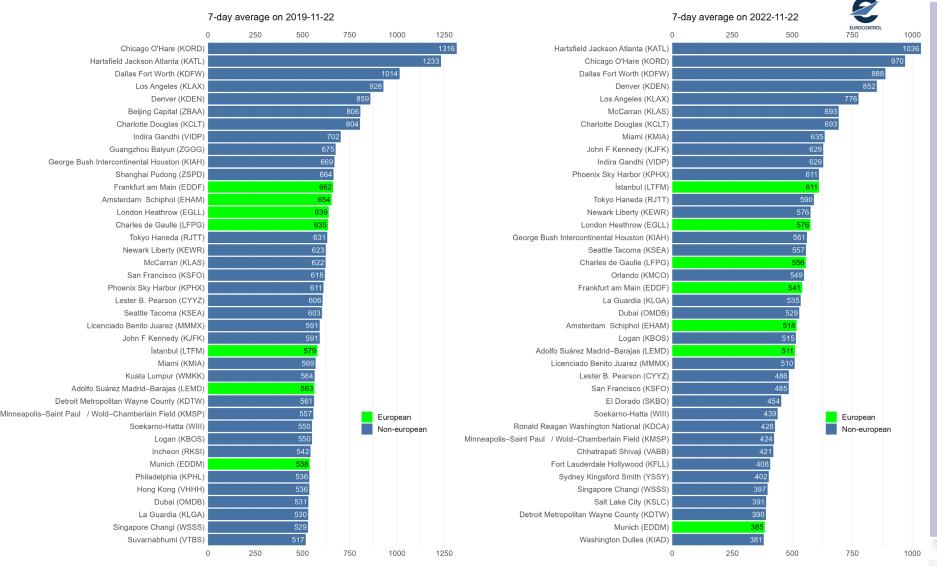
★ Stable traffic (flights) for **Madrid** (0%), **Bergen** (+1%) and **Vienna** (0%).

★ Traffic levels ranging from -38% (Düsseldorf) to +8% (iGA Istanbul) compared to 2019.





TOP 40 GLOBAL AIRPORTS (AVERAGE DAILY DEPARTURE FLIGHTS)



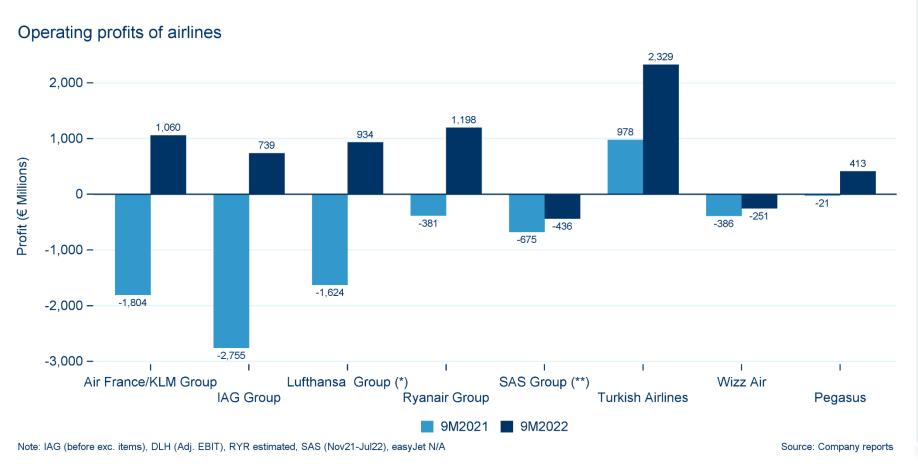
Comparing the week ending 22 November (right) with the same week in 2019 (left):

- ★7 European airports are ranked in the Top 40 global airports (vs 7 in 2019)
- ★ The first European airport (rank 12) is Istanbul iGA.
- One additional airport in theTop 15 in London Heathrow.
- ★ 11 of the Top 15 global airports are currently located in the US.
- ★ The highest Asian airport currently is New Delhi (10th).

Source: Flightradar24 Historical Global Utilisation data

AIRCRAFT OPERATORS: FINANCIAL RESULTS FOR THE FIRST NINE MONTHS (JAN-SEP)





- During the first 9 months of 2022, and compared to 2021:
- ★ Turkish Airlines has recorded the highest operating profits for the first 9 months of 2022 (+2,329 M€).
- Other flag carrier groups (Air France/KLM, IAG and Lufthansa) also posted positive operating profits.
- Ryanair has posted strongly positive results.

U.S passenger airlines recorded \$303 million pre-tax losses for the first 9 months of 2022 (source: A4A)





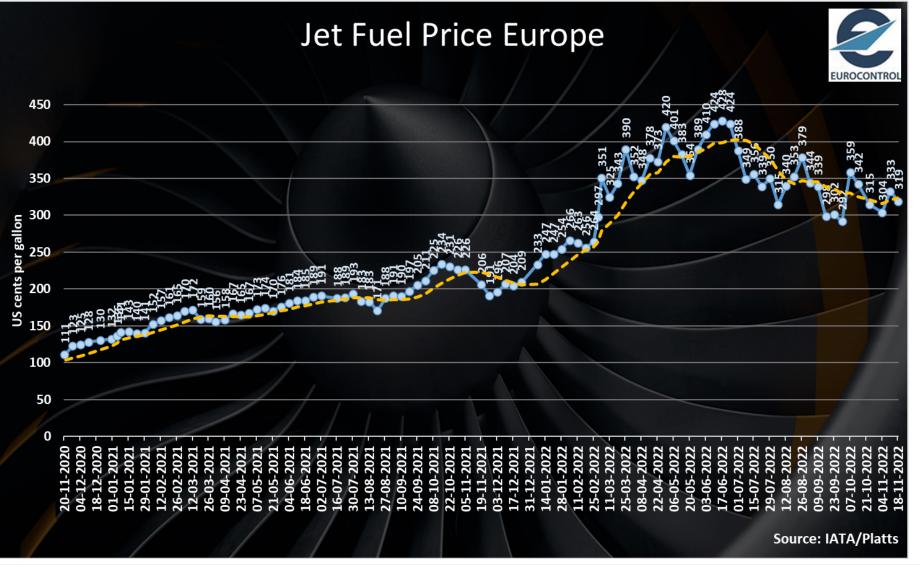
En-route air navigation charges for the EUROCONTROL Area (2022) Year-to-date amount billed: 6,462 M€ (-5% vs 2019)



- 800 M€ 805 M€ 746 M€ 731 M€ 719 M€ 694 M€ 613 M€ 511 M€ +1% -2% 434 M€ 408 M€ -5% -5% -6% -8% -9% -11% -14% -17% bruary March October November December ,JH , embe En-route charges billed in 2022 --- Monthly variation vs. 2019 Year-to-date variation vs 2019
- ★ EUROCONTROL has billed
 719M€ of en-route charges
 for October flights.
- ✗ This is 3% above the amount billed for October 2019 flights.
- X On a year-to-date basis,
 EUROCONTROL has billed
 6,462M€ which is -5% vs
 2019







- Jet fuel prices increased to 319 cts/gallon on 18 November and remain volatile.
 - +5% over two weeks;
 - +37% vs early January.



To further assist you in your analysis, EUROCONTROL provides the following additional information on a daily basis (daily updates at 7:30 CET for the first item and 12:00 CET for the second) and every Friday for the last item:

- 1. EUROCONTROL Daily Traffic Variation dashboard: www.eurocontrol.int/Economics/DailyTrafficVariation (or via the COVID-19 button on the top of our homepage www.eurocontrol.int)
 - This dashboard provides traffic for Day+1 for all European States; for the largest airports; for each Area Control Centre (ACC) and for the largest airline operators.
- 2. COVID Related-NOTAMS with Network Impact (i.e. summary of airspace restrictions): https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html
 - The Network Operations Portal (NOP) under "Latest News" is updated daily with a summary table of the most significant COVID-19 NOTAMs applicable at 12.00 UTC.
- 3. NOP Recovery Plan.

https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html

 This report, updated every Friday, is a special version of the Network operation Plan supporting aviation response to the COVID-19 Crisis. It is developed in cooperation with the operational stakeholders ensuring a rolling outlook.

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