

# **EUROCONTROL**

## EUROCONTROL Forecast Update 2022-2028

**European Flight Movements and Service Units** After COVID-19, Russian invasion of Ukraine and Europe's energy crisis 01/20



04/20

03/20

02/20



EUROCONTROL

STANDS WITH

STATFOR – October 2022

## THIS 7-YEAR FORECAST COVERS 2022-2028 PERIOD



### The October 2022 forecast takes into account the following updated inputs:



### **Traffic trends up to August 2022:**

Airlines, airports and States are recovering from the COVID-19 pandemic. Strong summer in most of the European States but the network is still impacted by the Russian invasion of Ukraine.



### **Economic growth:**

Latest revision of the economic forecast (Oxford Economics, August 2022 release).



### **Routings:**

No return to "normal" routing (prior closure of Ukrainian and Russian airspaces) by the end of the seven-year horizon.



### Scenarios:

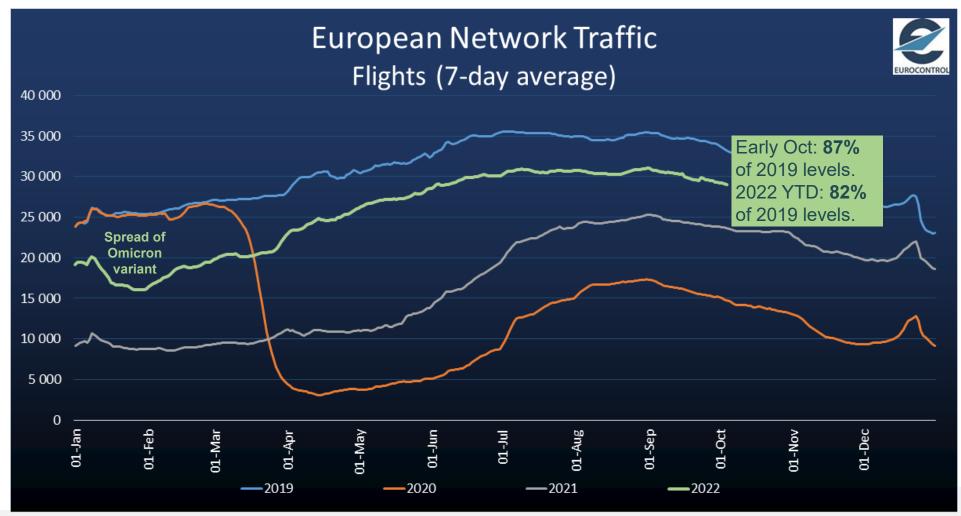
Three scenarios accounting for the impact of the war in Ukraine, the pressure on energy prices and the COVID-19 recovery.

### This forecast replaces the June 2022 forecast and now covers 7 years.



## **TRAFFIC TRENDS**

## Since the beginning of 2022 (YTD), flights are 82% of 2019 traffic levels.



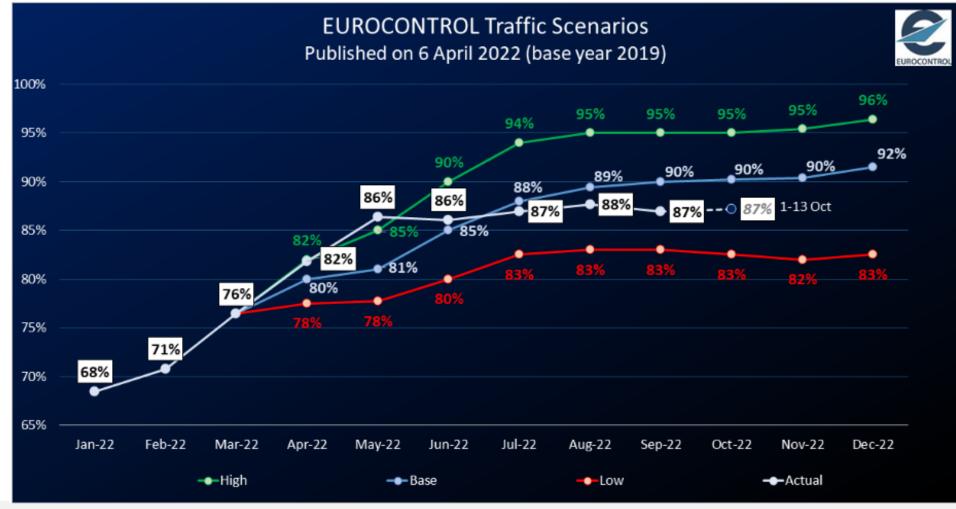
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## **TRAFFIC TRENDS**

Actual flights are slightly below the base scenario of the June 2022 forecast.



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Source: Oxford Economics (OE) Ltd



The GDP baseline forecast has been revised downward in 2023 with a positive carry-over effect over the rest of the horizon.

### GDP Growth (%) Zone = Euro Area 50 5.0 -25 2.5 -0.0 -0.0 -2.5 --2.5 -5.0 --5.0 ----- OE Forecast May22 ----- OE Forecast Aug22 Actual

**MACRO-ECONOMIC IMPACT** 

Downward revision in 2023 of the baseline projections of Oxford Economics explained by rising inflation, dwindling growth and growing geopolitical and natural disruptions to business.

Uncertainty remains very high, with risks skewed to the downside.





## **TICKET PRICES**

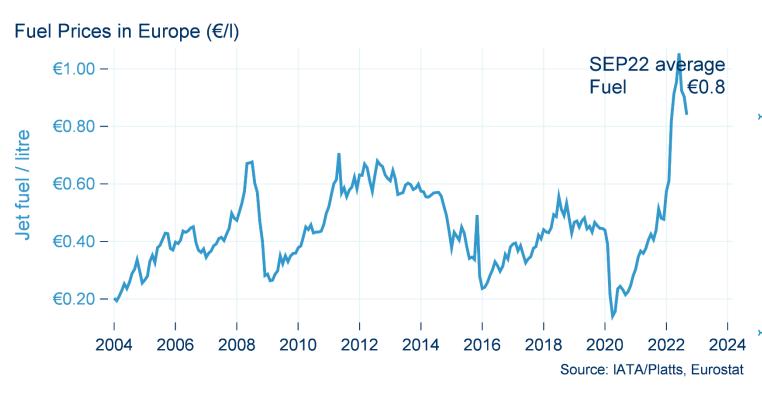
# From January to August 2022, ticket prices increased by 5% (vs January to August 2019).



- Air ticket prices started to increase since May 2022 (compared to May 2019).
- July 2022 recorded a 15%
   increase, above inflation, on July 2019.
- Since the beginning of the year: ticket prices increased by 5% on average, above inflation (vs same period in 2019).



### **FUEL PRICES** Since the beginning of 2022, fuel prices have increased by 47%.

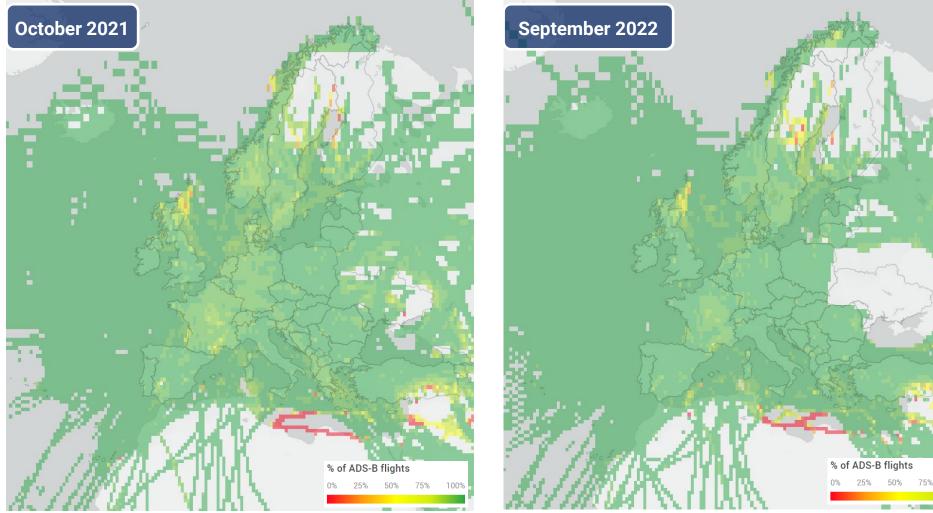


- → Jet fuel prices plunged at the beginning of the COVID-19 outbreak from ~0.5 €/I to less than 0.15 €/I in April 2020.
- Also, production capacity was shifted away from jet fuel.
   With the restart of demand, prices recorded a rapid surge up to a record price of ~1 €/I in June 2022.
- More recently, prices started to decrease but still represent a predominant share in airlines' costs.



## **UKRAINE INVASION**

The closure of the airspaces has notably changed the trajectories.



Proportion of flights equipped with ADS-B v2 with respect to the total number of flights derived from EUROCONTROL Network Manager. Regions outside of the NM area do not include local traffic.

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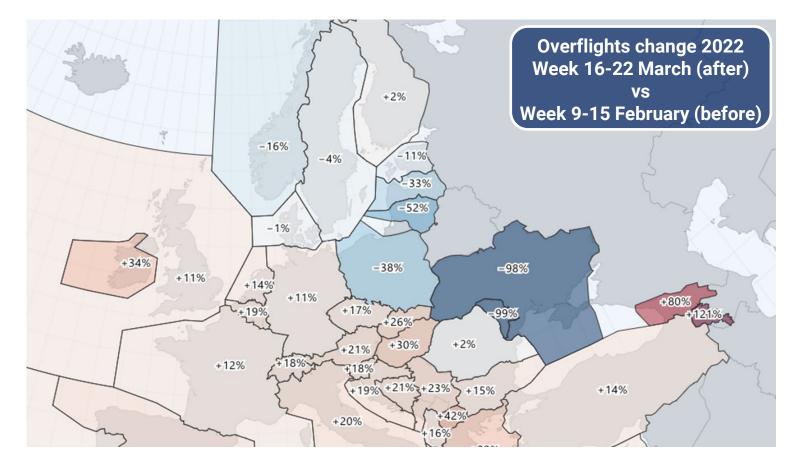
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**Source:** Aireon position reports



## 

The invasion of Ukraine is affecting overflights in several countries.



Since end February 2022, the closure of Russian and Ukrainian airspaces for European airlines has shifted some traffic to the South-East axis.

- Fewer overflights: mainly Baltic States, Scandinavian States and Poland.
- More overflights: mainly States in South-East Europe.

# **SCENARIO UPDATE (OCTOBER 2022)** Impact of war in Ukraine and Post-pandemic recovery

	Building the scenarios
	Common Assumptions
Impact of war in Ukraine	<ul> <li>Restrictions on Ukrainian, Russian, Belarusian and Moldovan airspaces to remain until the end of the horizon (2028).</li> <li>Overall decrease of the economic situation. Downward revision of the GDP forecast for 2023 due to rising inflation, dwindling growth and growing geopolitical and natural disruptions to business.</li> <li>Increasing energy prices and the knock-on effect on the purchasing power of consumers to affect travel demand.</li> <li>Cargo segment strongly impacted due to constrained operations of key cargo carriers.</li> </ul>
Post-pandemic recovery	<ul> <li>COVID-19 moving towards endemic phase: focus on prevention with very limited travel restrictions.</li> <li>Long-haul flows recovering well in 2022, apart from the China (Asia/Pacific region) and South Atlantic flows. Full restoration is expected to occur in 2023.</li> <li>Business aviation: after the strong uplift, the segment is levelling off with the return of some passengers to scheduled services.</li> <li>Some of the staff shortages experienced in summer 2022 might occur again in 2023, affecting the capacity or airlines and airports.</li> <li>Staffing issues also impacting the global logistics supply chain with repercussions on cargo flights.</li> </ul>

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# **SCENARIO UPDATE (OCTOBER 2022)** Impact of war in Ukraine and Post-pandemic recovery

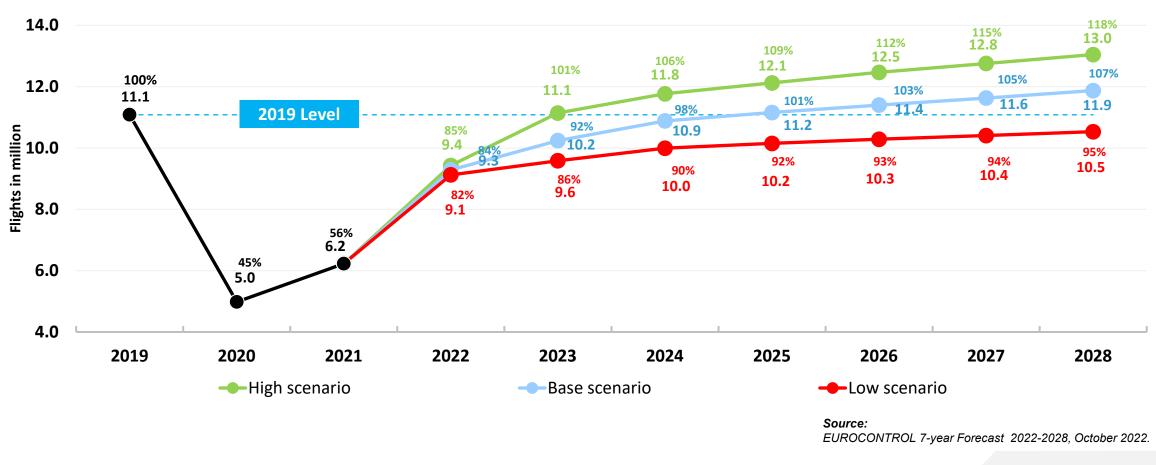
	HIGH scenario	BASELINE scenario	LOW scenario
Impact of war in Ukraine	<ul> <li>Most of the European states with moderate GDP growth in 2023 and beyond</li> <li>Limited impact on demand from inflation (including jet fuel price)</li> </ul>	<ul> <li>Weak GDP in 2023 for most European states</li> <li>High inflation impacts demand</li> </ul>	<ul> <li>A significant number of European states in recession in 2023</li> <li>Demand for travel strongly reduced by effects of inflation</li> </ul>
Post- pandemic	<ul> <li>Good passenger confidence</li> <li>Dynamic tourism flows above 2019 levels</li> <li>Fast bounce-back of business travel</li> </ul>	<ul> <li>Relatively good passenger confidence</li> <li>Business travel partly replaced by digital alternatives</li> <li>Growing environmental concerns in some European states</li> </ul>	<ul> <li>Occasional resurgence of COVID- 19 variants: possible travel restrictions at local level</li> <li>Substantial replacement of business travel (digital alternatives)</li> <li>Environmental concerns strongly affecting travel choices</li> </ul>
recovery	<ul> <li>Airports and airlines mostly able to bring back capacity in 2023</li> <li>Cargo: limited staffing issues on the whole sector and increase on global cargo output</li> </ul>	<ul> <li>Some airlines/airports experience staffing/capacity issues in 2023 (but much less than in 2022)</li> <li>Cargo: slight increase on global cargo output in 2023</li> </ul>	<ul> <li>More extensive staffing/capacity issues at airlines/airports in 2023</li> <li>Cargo: deterioration of staffing issues on the whole logistic sector in 2023</li> </ul>

## EUROCONTROL STATFOR 7-YEAR FORECAST for \*Europe 2022-2028 (October 2022)



\* Europe = ECAC 44 Member States

Actual and future **IFR movements**, % traffic compared to 2019



## **FLIGHT FORECAST (OCTOBER 2022)**



Summary of flight forecast for Europe (ECAC)

ECAC*		2015	2016**	2017	2018	2019	2020**	2021	2022	2023	2024**	2025	2026	2027	2028**
IFR Flight	High								9,431	11,142	11,768	12,124	12,467	12,755	13,045
Movements	Base	9,923	10,197	10,604	11,002	11,085	4,979	6,231	9,287	10,243	10,883	11,157	11,399	11,629	11,873
(Thousands)	Low								9,126	9,583	9,994	10,150	10,285	10,405	10,530
Annual Growth	High								51%	18%	5.6%	3.0%	2.8%	2.3%	2.3%
(compared to previous year unless	Base	1.6%	2.8%	4.0%	3.8%	0.8%	-55%	25%	49%	10%	6.3%	2.5%	2.2%	2.0%	2.1%
otherwise mentioned	) Low								46%	5.0%	4.3%	1.6%	1.3%	1.2%	1.2%
	High								85%	101%	106%	109%	112%	115%	118%
Fraction of 2019 (compared to2019 level)	Base					100%	45%	56%	84%	92%	98%	101%	103%	105%	107%
	Low								82%	86%	90%	92%	93%	94%	95%

\* ECAC is the European Civil Aviation Conference

Source: EUROCONTROL 7-year Forecast 2022-2028, October 2022.

\*\* leap year

## EUROCONTROL STATFOR 7-YEAR FORECAST for \*Europe 2022-2028 (October 2022)

Actual and future **En Route Service Units**, % TSU compared to 2019

\* CRCO corresponds to 39 Member states of the CRCO (without Ukraine)

128%

213.6

124%

207.6

120%

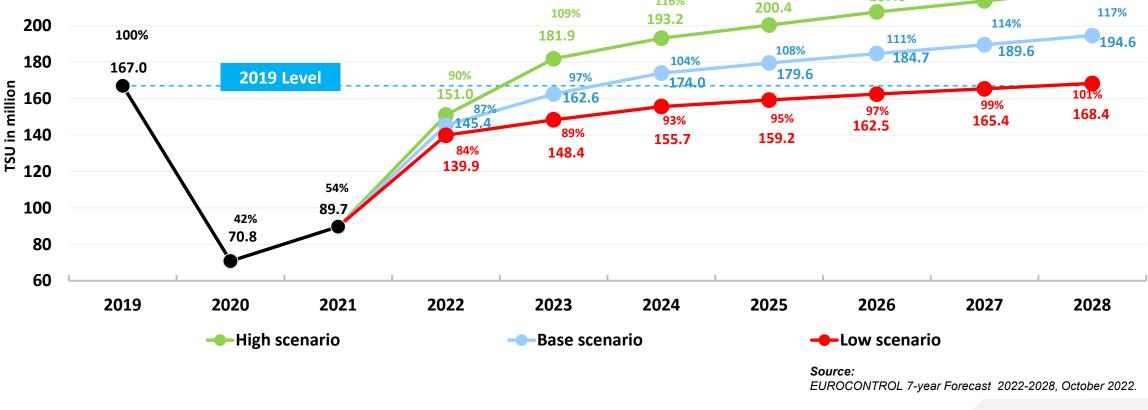
116%

220

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14





132%

219.9



### **EN ROUTE SERVICE UNITS FORECAST (OCTOBER 2022)**

### Summary of TSU forecast

CRCO*		2015	2016**	2017	2018	2019	2020**	2021	2022	2023	2024**	2025	2026	2027	2028**
Total En-route Service Units (Thousands)	High								151,011	181,890	193,190	200,391	207,556	213,647	219,857
	Base	138,505	144,274	153,194	162,512	167,000	70,828	89,680	145,442	162,590	174,013	179,583	184,746	189,552	194,627
	Low								139,923	148,375	155,698	159,220	162,500	165,370	168,375
Annual Growth	High								68%	20%	6.2%	3.7%	3.6%	2.9%	2.9%
(compared to previous year	Base	4.2%	4.2%	6.2%	6.1%	2.8%	-58%	27%	62%	12%	7.0%	3.2%	2.9%	2.6%	2.7%
unless otherwise mentioned)	Low								56%	6.0%	4.9%	2.3%	2.1%	1.8%	1.8%
RP3 Region°		2015	2016**	2017	2018	2019	2020**	2021	2022	2023	2024**	2026	2026	2027	2028**
	High	2015	2016**	2017	2018	2019	2020**	2021	<b>2022</b> 112,270	<b>2023</b> 135,039	<b>2024**</b> 143,385	<b>2026</b> 148,686	<b>2026</b> 153,944	<b>2027</b> 158,232	<b>2028**</b> 162,552
Total En-route Service Units	High Base	<b>2015</b> 104,909	<b>2016**</b> 109,333	<b>2017</b> 115,160	<b>2018</b> 121,822	<b>2019</b> 125,206	<b>2020**</b> 52,595	<b>2021</b> 66,991							
Total En-route									112,270	135,039	143,385	148,686	153,944	158,232	162,552
Total En-route Service Units (Thousands) Annual Growth	Base								112,270 108,125	135,039 120,401	143,385 128,777	148,686 132,851	153,944 136,603	158,232 139,977	162,552 143,541
Total En-route Service Units (Thousands)	Base Low								112,270 108,125 104,128	135,039 120,401 109,773	143,385 128,777 115,005	148,686 132,851 117,522	153,944 136,603 119,862	158,232 139,977 121,802	162,552 143,541 123,819

\* CRCO corresponds to 39 Member states of the CRCO (without Ukraine)

 RP3Region corresponds 29 States that are involved in the EU-wide performance target setting for the third period

\*\* leap year

EUROCONTROL Seven-Year Forecast Update 2022-2028

Source: EUROCONTROL 7-year Forecast 2022-2028, October 2022.

## **ADDITIONAL RISKS**



**Higher inflation** and **greater uncertainty** triggered by Russia's invasion of Ukraine have emerged as key risks. A longer period of conflict with bigger disruptions to energy markets would translate into a bigger hit to the **global economic expansion**. Current forecast includes different economic forecasts but a further deterioration of the economic situation is a downside risk.



The **volatility in oil and fuel prices**: It is uncertain how the airlines will be able to pass the fuel price spikes to travellers in a market recovering from the numerous COVID-19 lockdowns. This is a downside risk for the airline industry.



Future **airspace and network changes** (e.g. unexpected closures, new routes) and **airlines' changing choice of routes** are not modelled by the forecast. We currently assume that the Ukrainian and Russian airspaces remain closed till the end of the horizon (2028)\*.



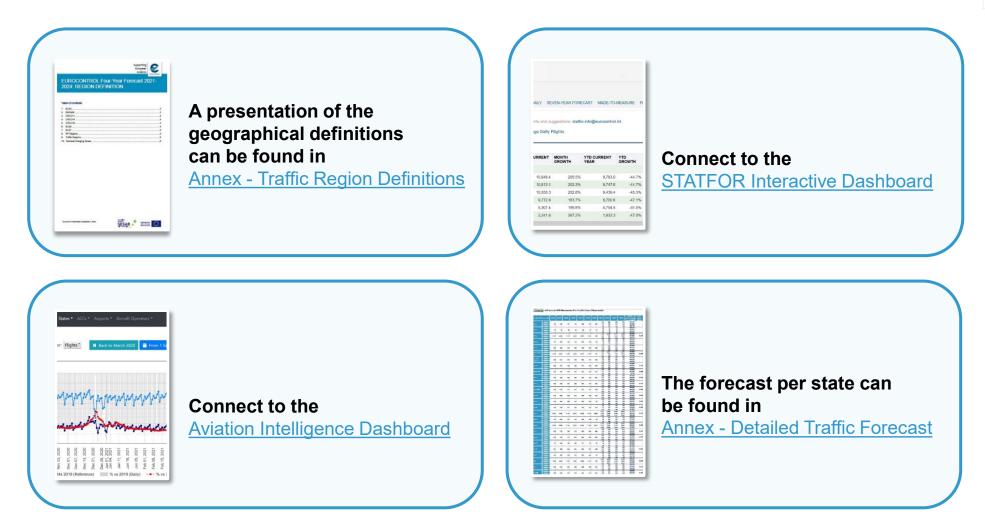
**Terrorist attacks**, **bans of one country on another one**, **wars and natural disasters**. These are impossible to predict. Their impact on air traffic could however be temporary, or more long term.

\* The routes used in the forecast are those flown in the period Mar22-Sep22. When not available, the 2019 routes are used instead. Routes for the flows impacted by restrictions on the airspaces of Ukraine, Russia, Belarus and Moldova and which are not yet back in 2022 were re-calculated based on alternative routings.

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### **USEFUL LINKS**





For further info, please contact the forecasting team: <u>statfor.info@eurocontrol.int</u>



To further assist you in your analysis, EUROCONTROL provides the following additional information:

### 1. EUROCONTROL STATFOR Interactive Dashboard

www.eurocontrol.int/dashboard/statfor-interactive-dashboard

 The STATFOR interactive dashboard (SID) is a unique source of statistics on flights in Europe. Thanks to the segmented approach of the SID, users benefit from a customisable and flexible interface; early access to statistics – updated and made available in the first week of each month; a wide coverage of the statistics, synchronisation with the other STATFOR products.

### 2. EUROCONTROL Daily Traffic Variation dashboard:

<u>www.eurocontrol.int/Economics/DailyTrafficVariation</u> (or via the COVID-19 button on the top of our homepage <u>www.eurocontrol.int</u>)

• 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.

### 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.

For more information please contact statfor.info@eurocontrol.int



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