



Keeping Commercial Air Travel and Airspace Safe

European problems are global issues

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November 2018

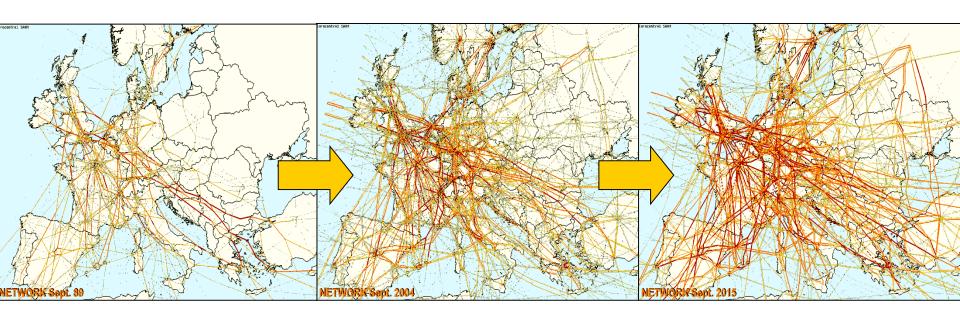




Future: Capacity remains a challenge



2000: 8 million 2007: 10 million 2030: 17 million



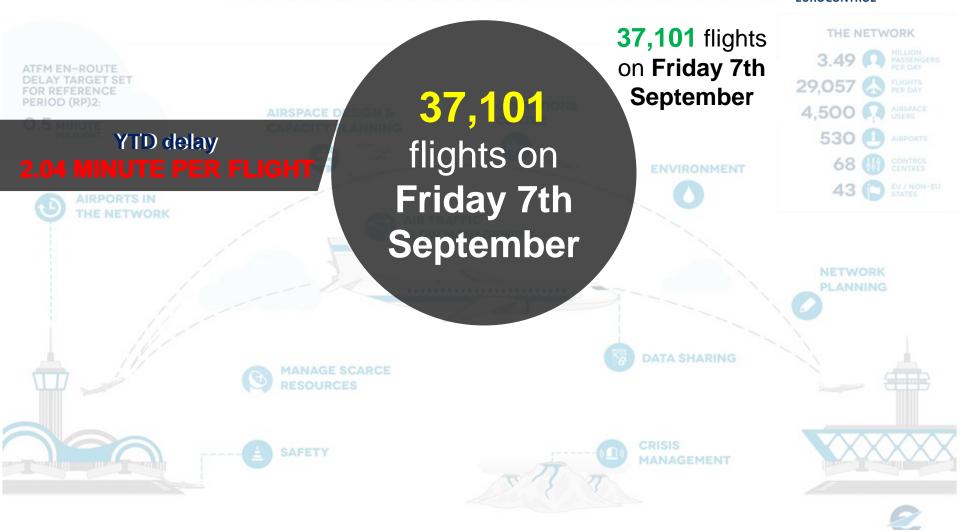


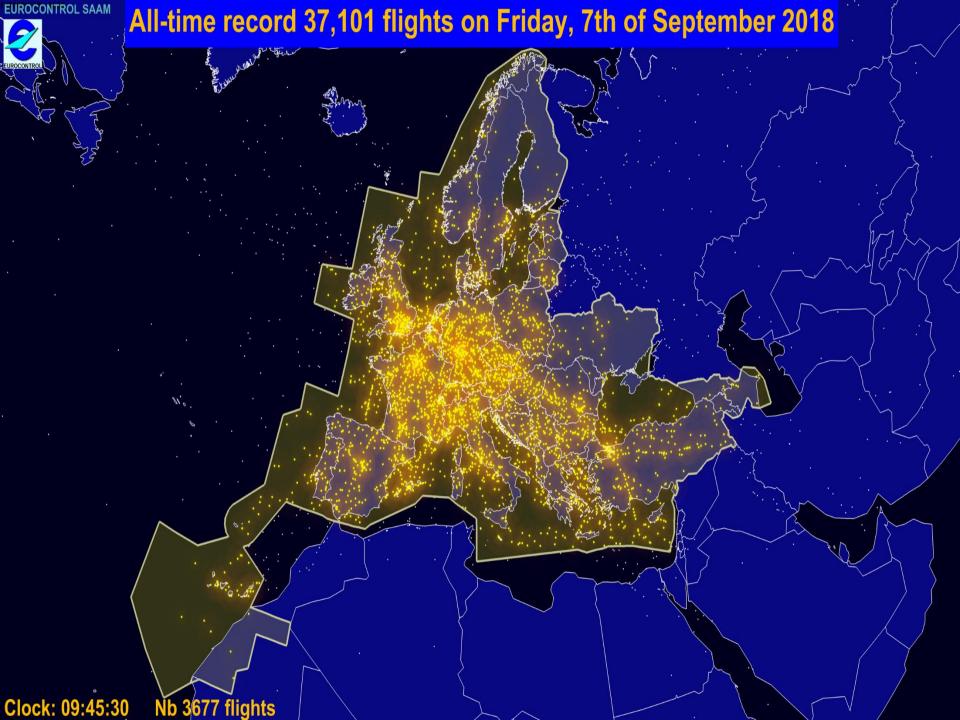


THE EU NETWORK MANAGER IN 2018



CONNECTING THE NETWORK TO DELIVER IMPROVED PERFORMANCE EUROCONTROL





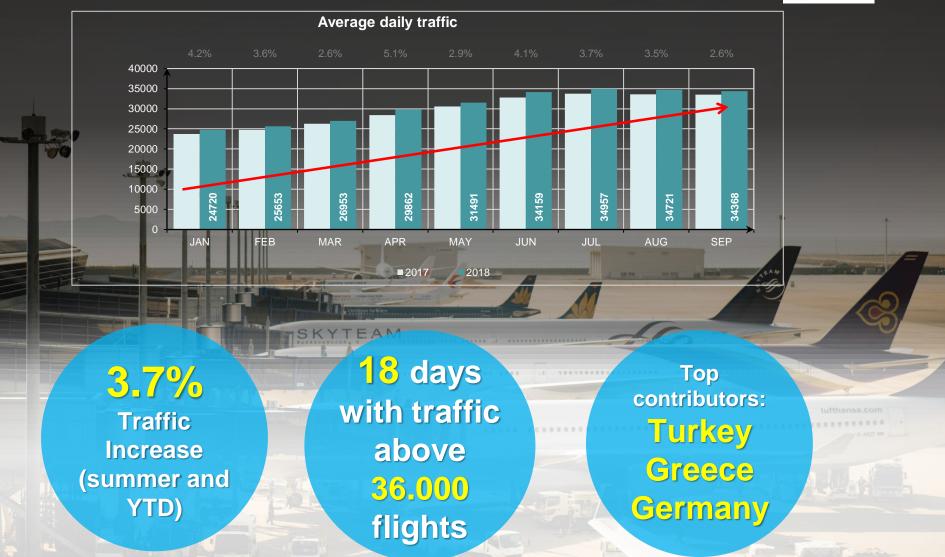


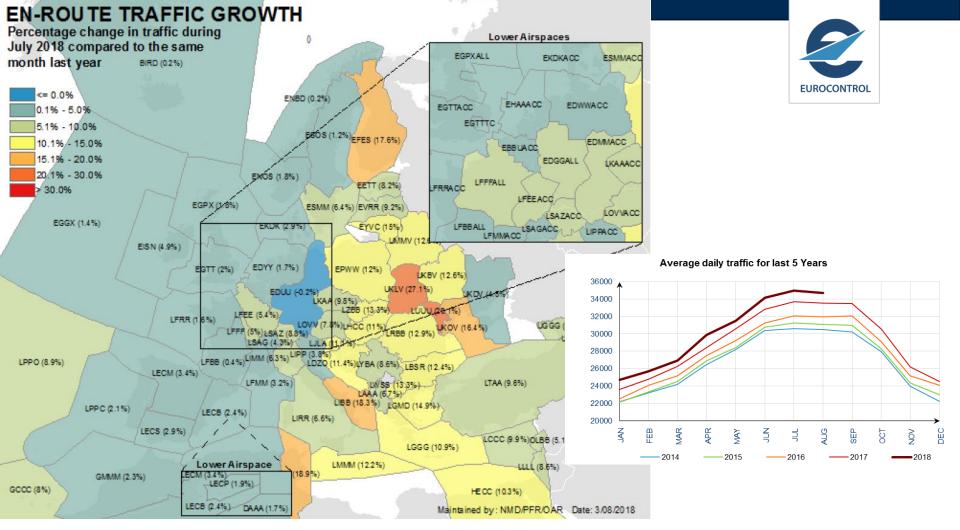




TRAFFIC

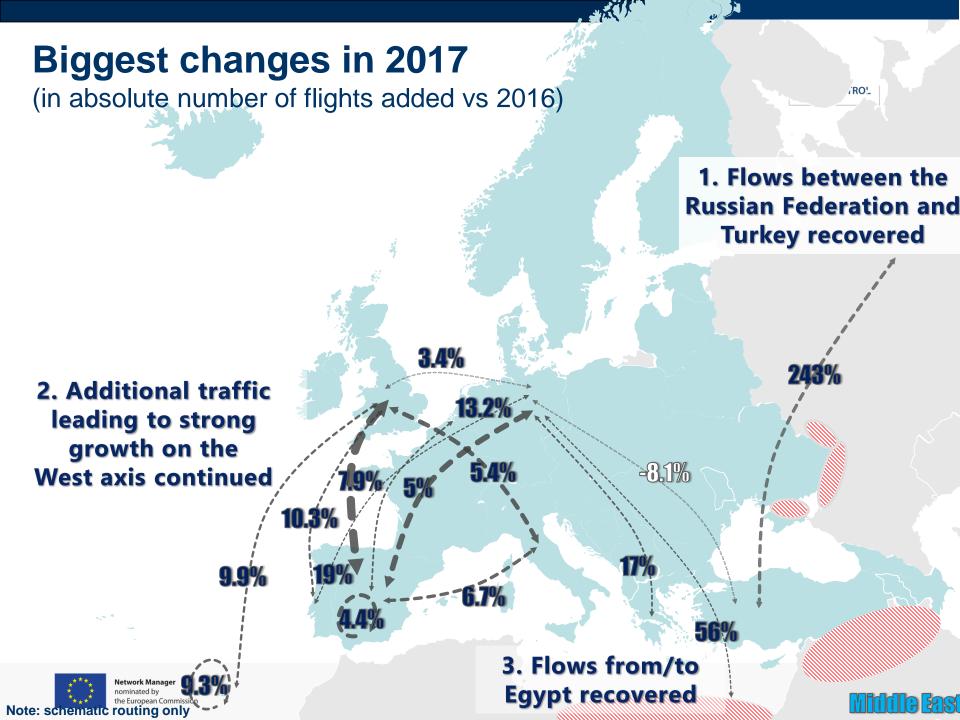






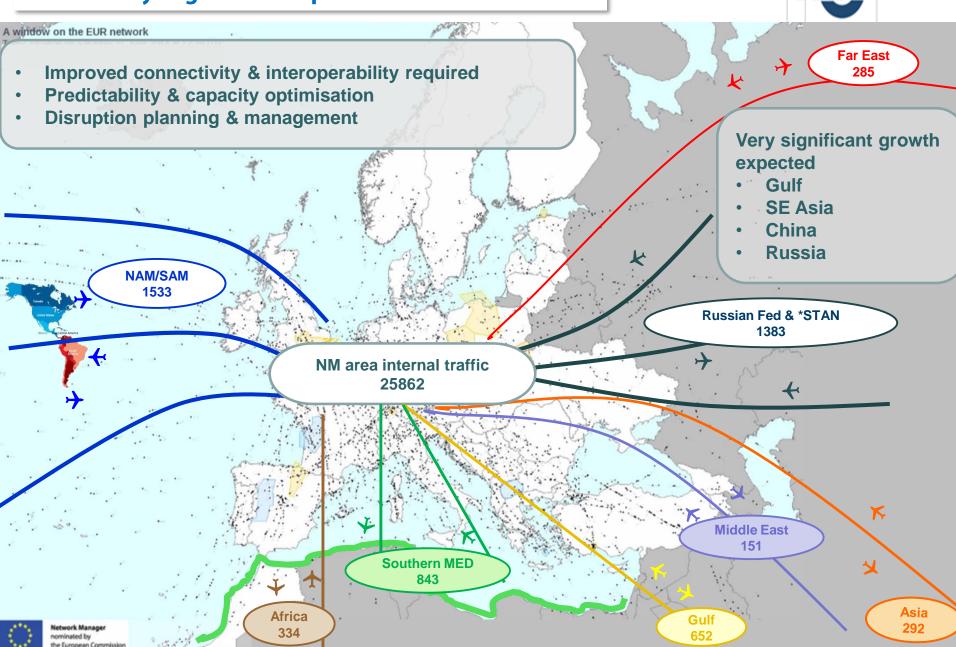
- Traffic: + 3.7% (summer and YTD).
- Close to 11 million flights at the end of the year 8% more than 2008
- Strong growth in Central and Eastern European states
- Moderate growth in SW axis. Decrease in traffic from UK and Sweden
- Russian and Middle-east recovery





Increasing importance of external traffic flows 2015 - Daily Flights in European NM Area





Airspace Management

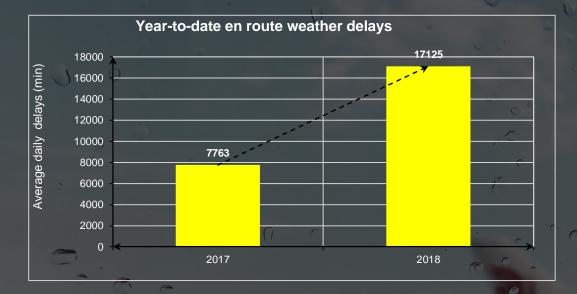


SOMETHING IS ALWAY HAPPENING SOMEWHERE

- Meteo problems
- Human resources problems
- Technical problems
- Airport problems



WEATHER





28.5% of ATFM delay in AUGUST





CLIMATE CHANGE HAS BEEN HAPPENING!

Maastricht
Karlsruhe
Vienna
the most
affected
areas

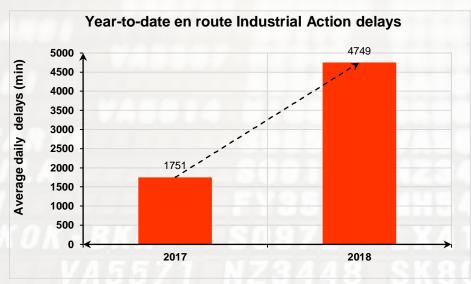








INDUSTRIAL ACTIONS



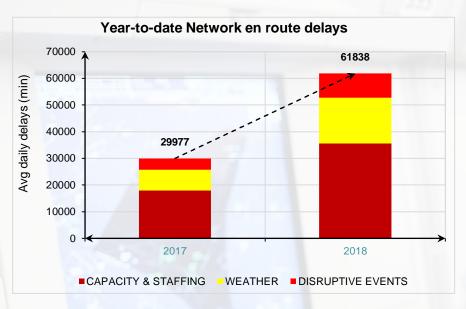
19
strikes days
with severe
ATFM impact
during the
Summer

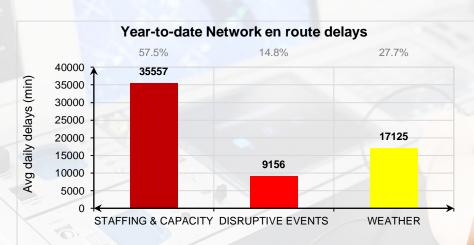
The most impacted-Marseille ACC





STAFFING AND CAPACITY

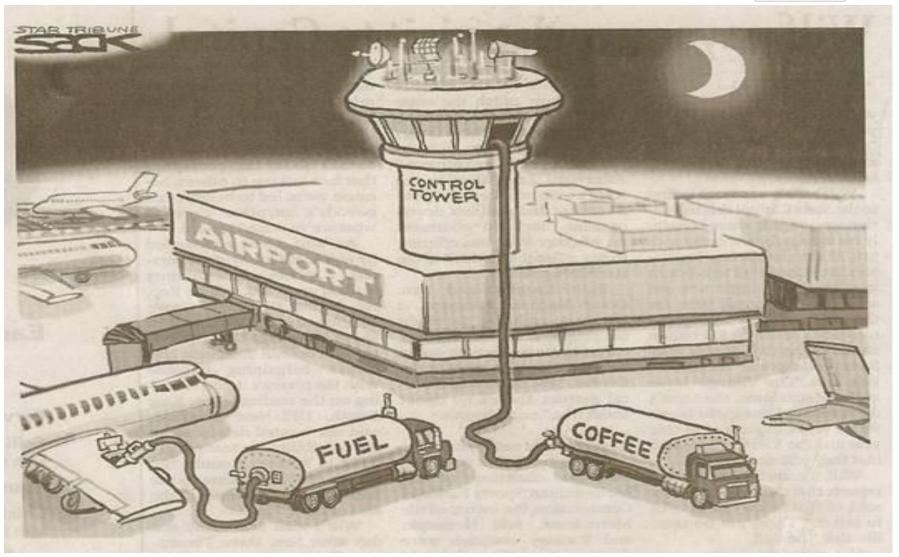














AIRPORTS

AD WEATHER

AD DISRUPTIONS

AD DISRUPTIONS (ATC)

AD STAFFING (ATC)

AD CAPACITY (ATC)

Same Period 2017

AD CAPACITY

AD EVENTS

511

230

421

Year-to-date airport regulation Jan - end August

1969

4000

2000

5066

6000



10000

EUROCONTROL

0.58 min/flt
ATFM
airport
delay

Weather delay: 50% of total delay

27%
decrease
of
Airport
Capacity

8000

Amsterdam/ Schipol AD Barcelona AD Lisbon AD

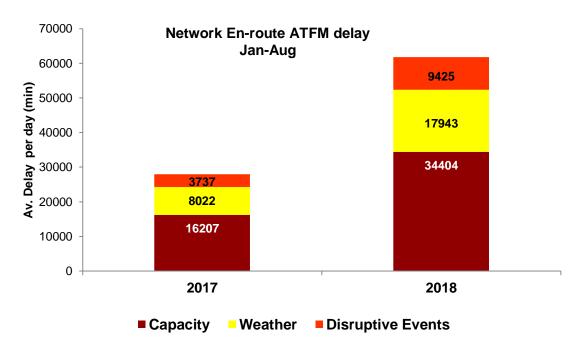






EUROCONTROL

En-route



- Weather: More than double of last year, 30 % of en-route delays
- Capacity and Staffing: 112% more than 2017
- Disruptions and Events: Highest increase, 150% more than 2017



ATM Structure in Europe



43 States

68 En-route centres = 1750 Sectors

One single
Flow Management
System over
Europe

1940 Aircraft Operators

500 Airports

60 FMPs

Network Operations

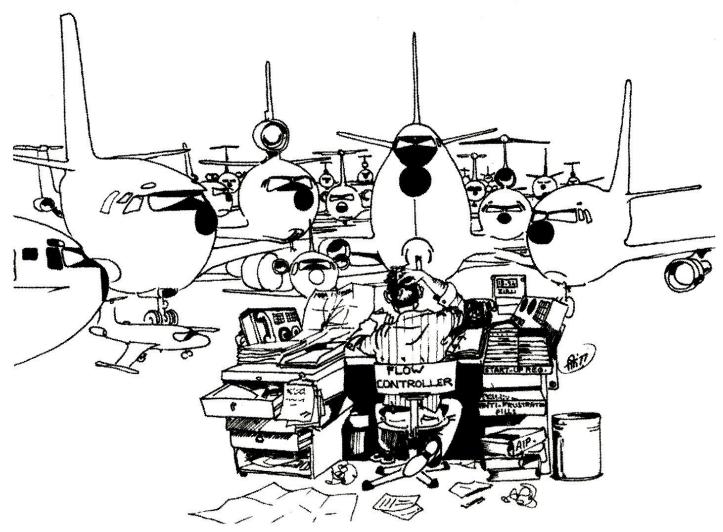
4500 airspace users

Peaks 36 825 flights a day

~11 000 000 flights a year









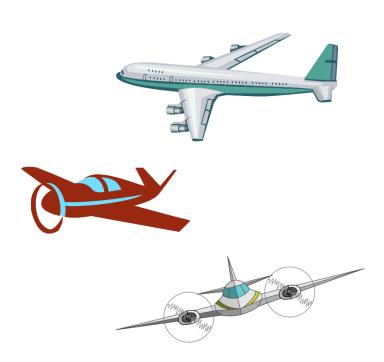
Capacity



Supply



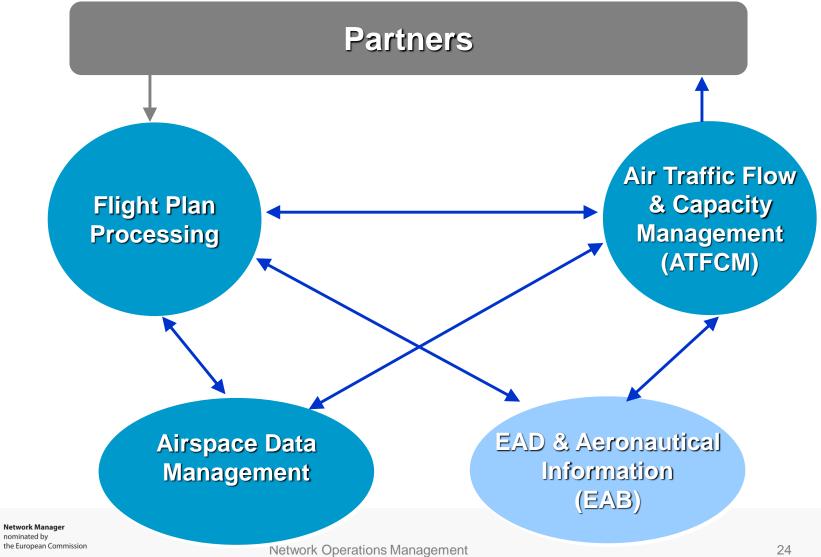
Demand







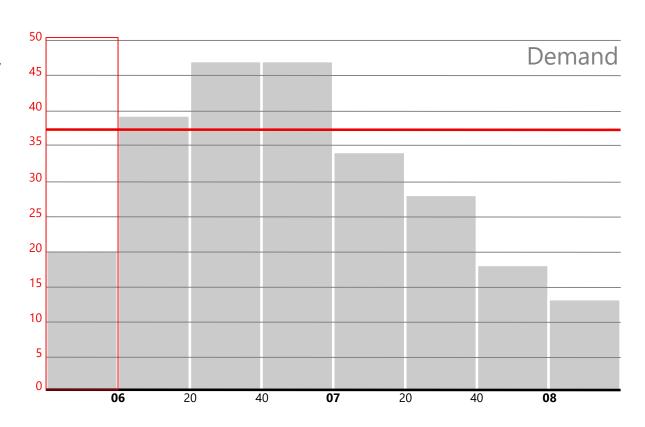
Network Operations Services



Imbalance



Supply/ Capacity



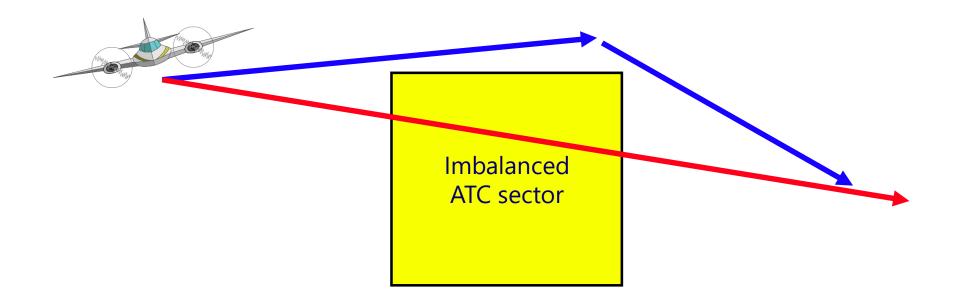






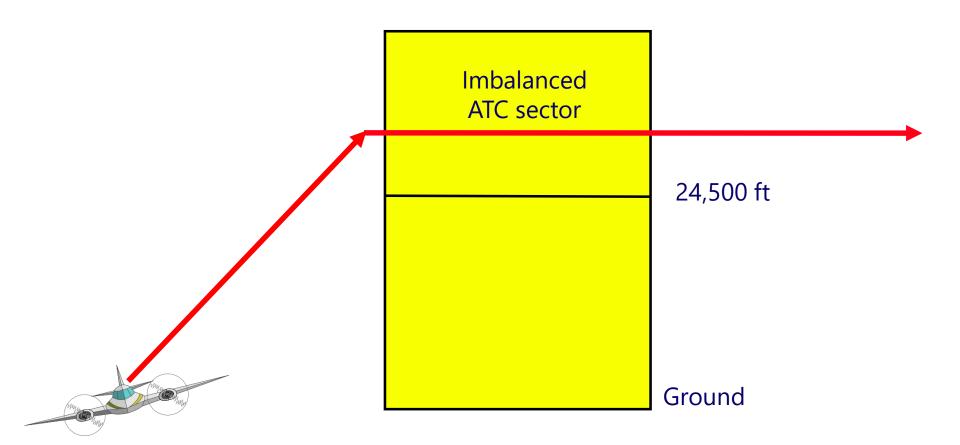
Rerouting





Level Capping

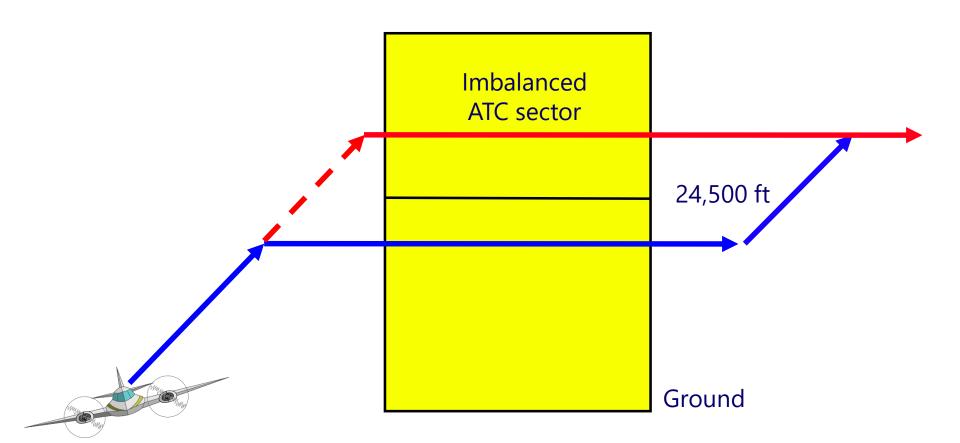






Level Capping





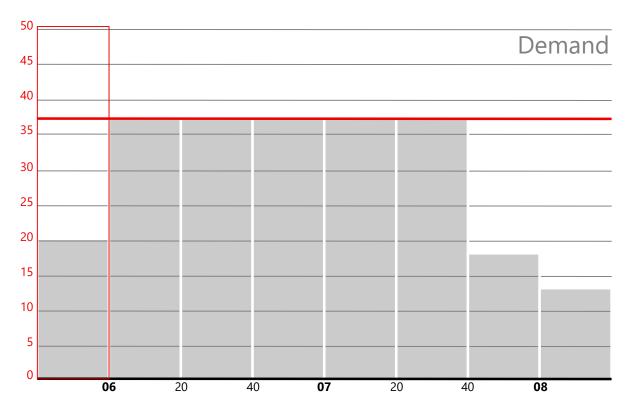


"Regulation"



RE-BALANCE between capacity and demand

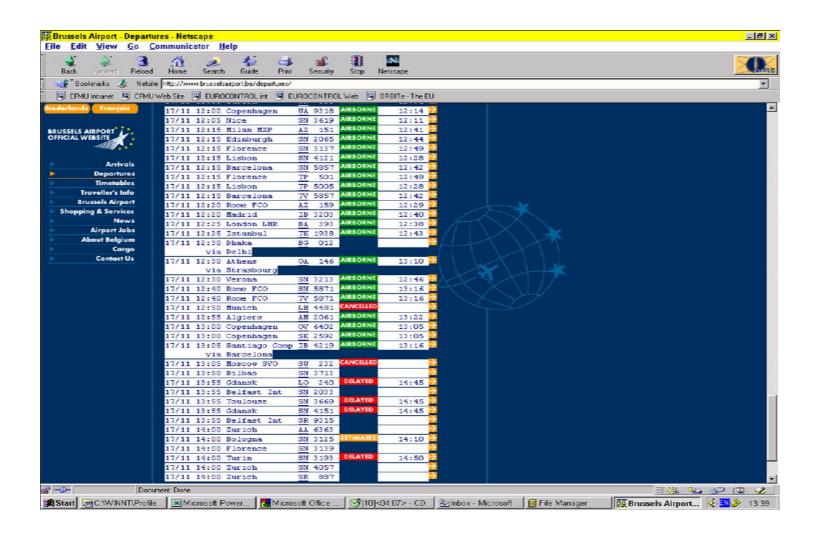
Supply/ Capacity





Delays

















Challenges for the future

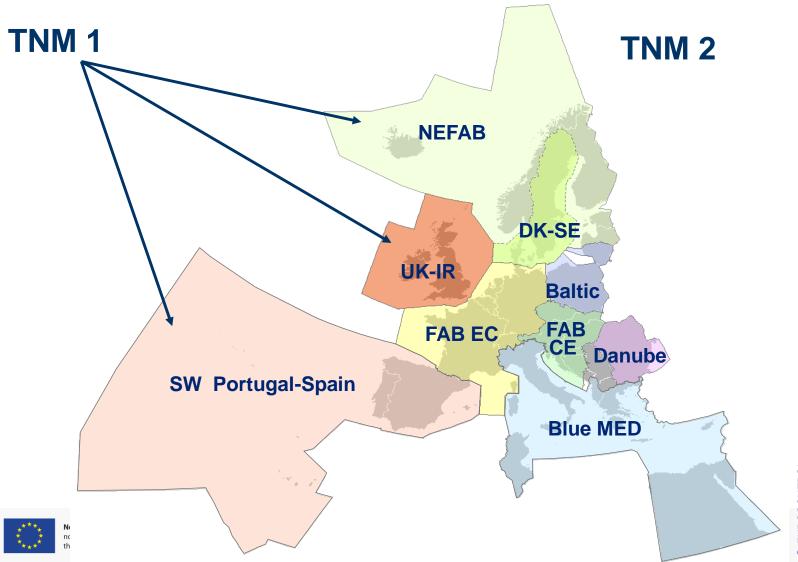
The vision for Global ATFM – A set of interlinked operational ATFM regions



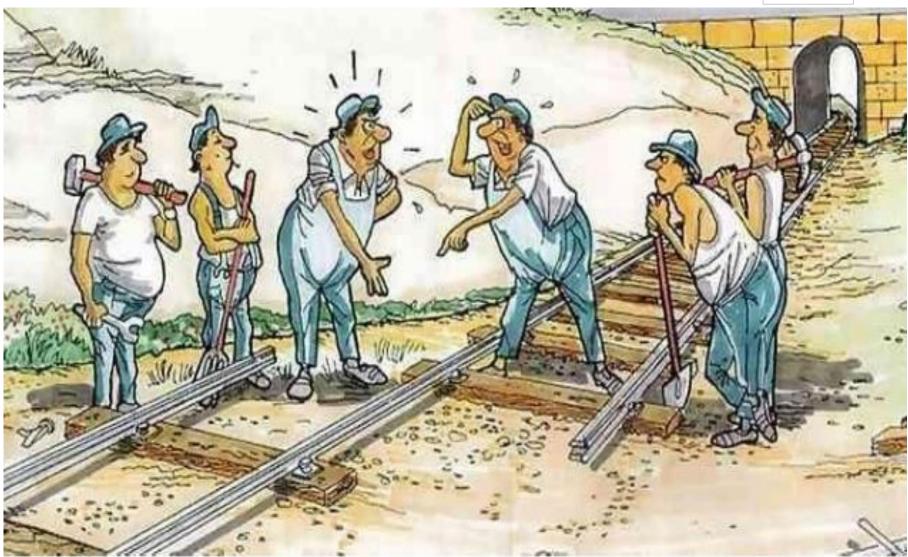


NTROL

European Coordination based on FABs

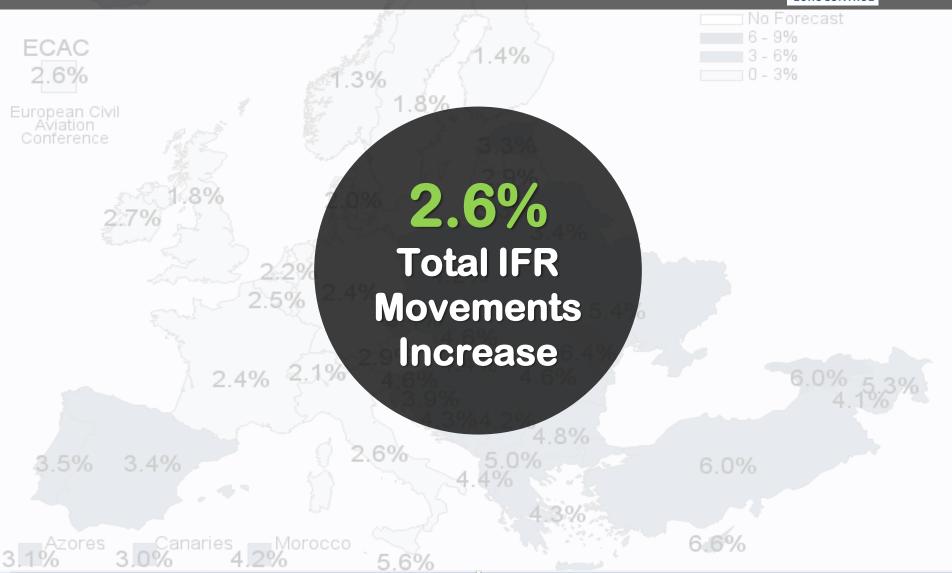






2019 EU FORECAST





Issues to be addressed



- Staffing situation and opening schemes
- Weather impact in areas with limited capacity delivery
- Airspace saturation in some parts of the core area
- High number of un-necessary "regulations"
 - A new network-orientated approach required
- Commitment to deliver the Network Operational Plans
- More commitment to the Single European Sky (SES) Network targets: we will not be below 1 min/flight delay in next 5 years!



EU Network Manager - SES Orchestra



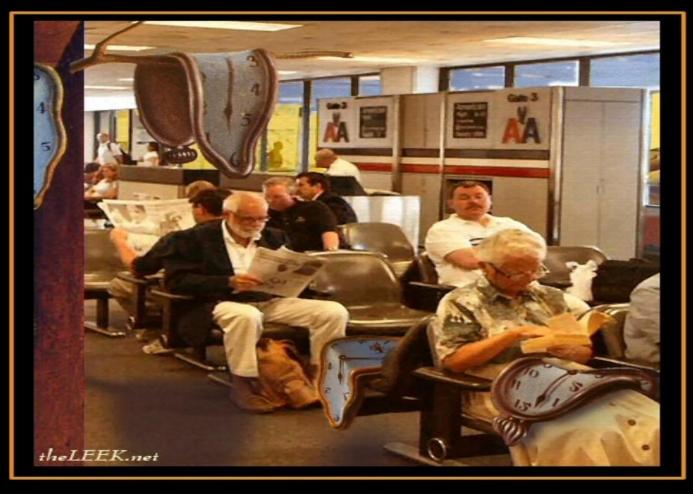


- No commitment as to how many/enough orchestra members turn up on the day
- Each member has own ideas as to what to play, how loud, what tempo
- Conductor still has to guarantee performance is delivered each and every day

2018 : audience has started to complain!







PATIENCE

Will Get You Nowhere

FreakingNews.com

