

EUROCONTROL as **Network Manager**

Role of Collaborative Decision Making (CDM)

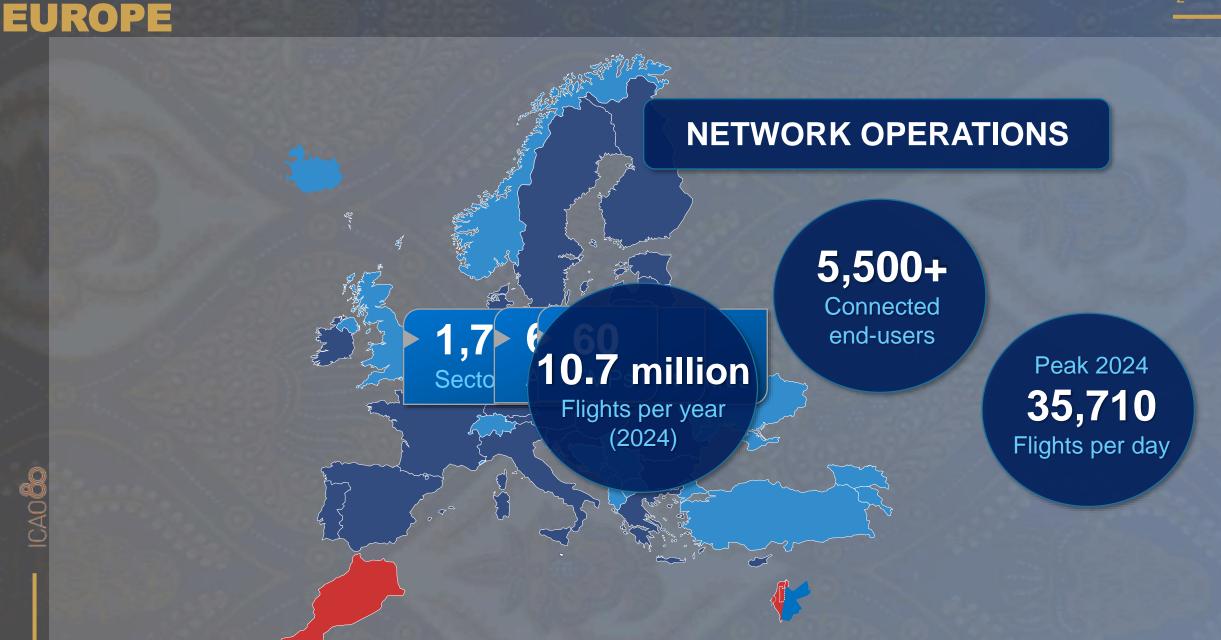
Valerio Cappellazzo EUROCONTROL Network Manager



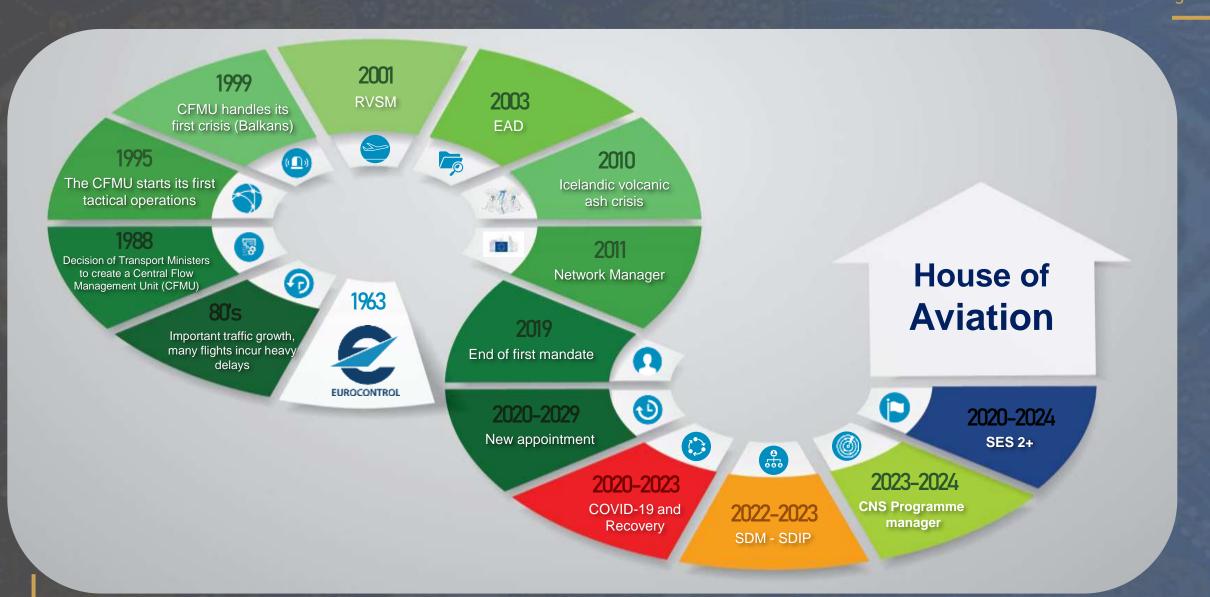








THE EUROCONTROL NETWORK MANAGER STORY,



CONNECTING THE NETWORK TO DELIVER IMPROVED PERFORMANCE







SES2+

Relation with 3rd Countries and ICAO

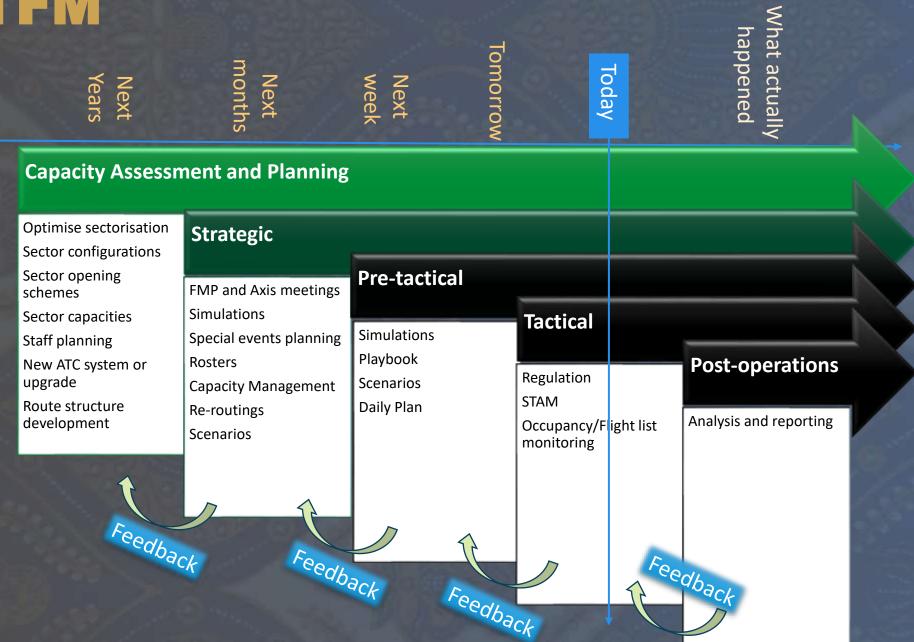
EU and Member States shall aim and support the extension of the SES to non-EU members

EU and MS shall endeavor to cooperate with 3rd countries via:

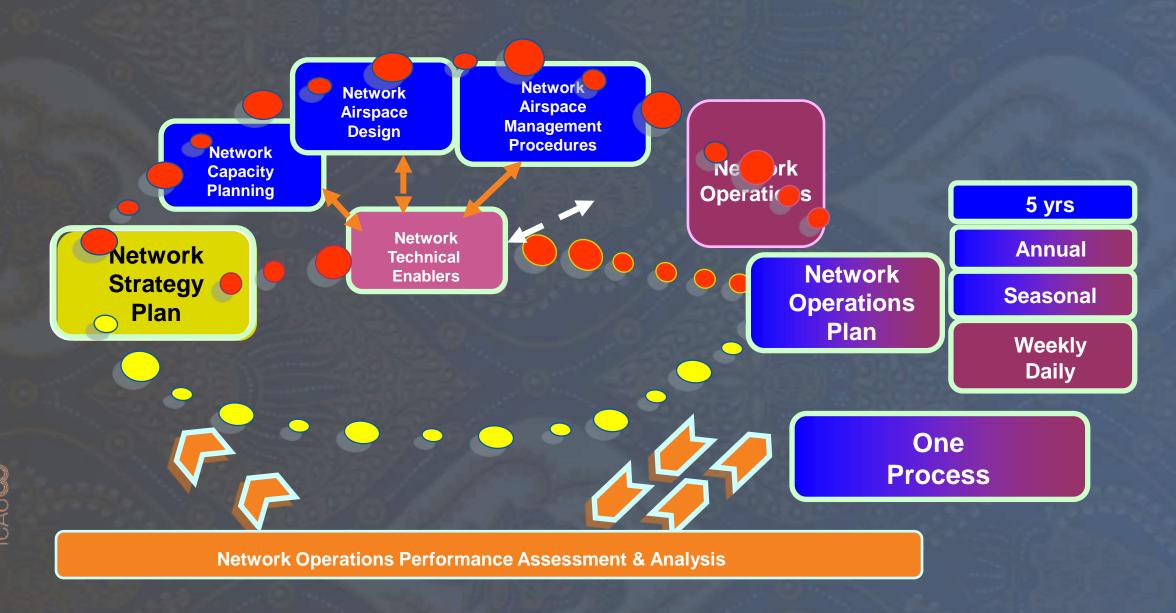
- Cross-border ATS agreements
- ATM modernisation
- Network Functions
- Union and EUROCONTROL agreement - providing a general framework for enhanced cooperation, reinforcing the pan-European dimension of ATM

ICAO - elevated relation from "support when requested" to coordination with ICAO and ICAO regions in relation to the network functions

ATFM

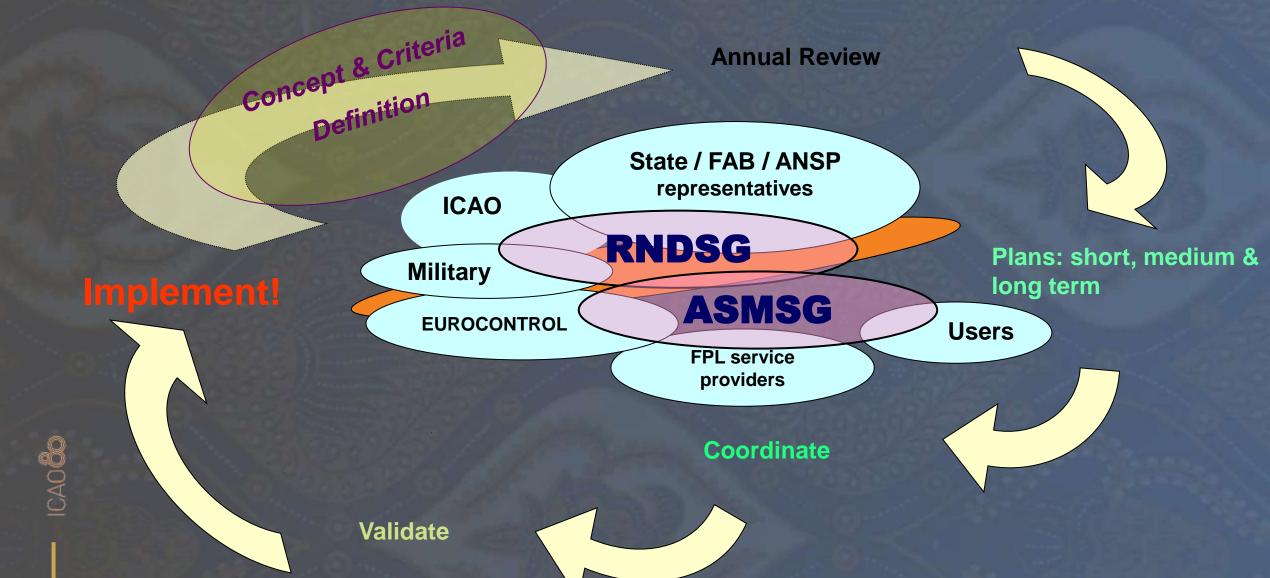


INTEGRATED NETWORK PLANNING AND MANAGEMENT



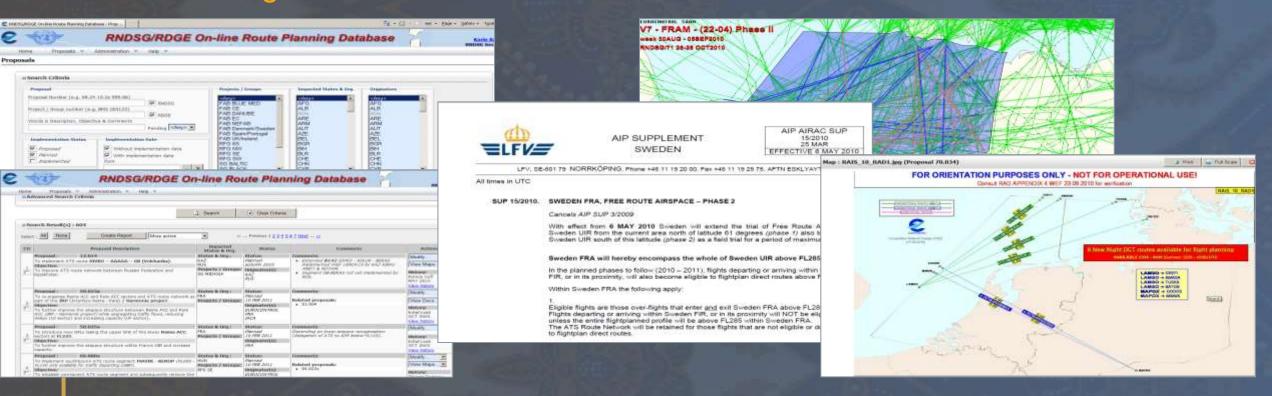
Network Manager Working Arrangements NMD Working Arrangements & Consultation Update Date: 13-11-2019 15:03 NMB **ASMSG** EACCC Research CNS Infra AIM/SWIM JC TF **CAPLANSG** A-CDM DPIWG SAF REP TF ACCCT TF AI OPS SG APDSG WAKE VORTEX TF FEAST UG SHP-SG OPADD FG ELPAC UG **ODSG** TOD WG SPIN SG RST UG IM TF SMTUG RNDSG EAD SSG FMG NMD is participation of NMD Observer only

Network Manager Working Arrangements CDM Example: RNDSG & ASMSG



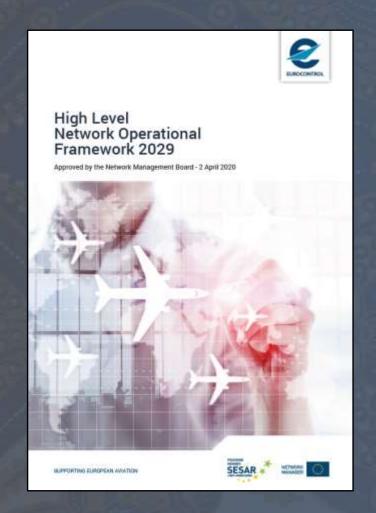
European Route Network Improvement Plan Database (ERNIP Database)

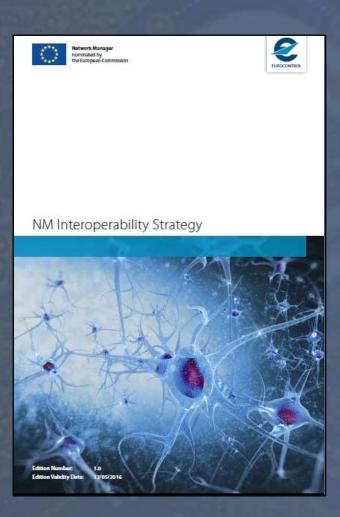
- > A web-based interactive database
 - Covering improvement projects related to ATS route network, airspace design and its utilisation – at local and network level.



SOLID STRATEGIC CONTEXT







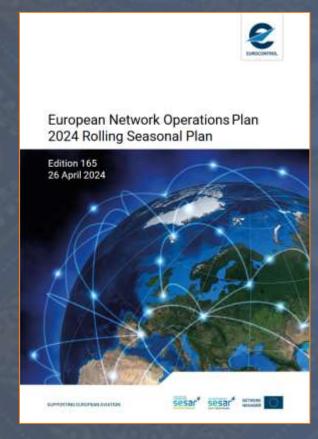


Network Operations Plan



5 years horizon2 updates per year

Rolling Seasonal NOP



8-week traffic & 6-week capacity outlook Weekly updates



European Route Network Improvement Plan

ERNIP Part 4

ERNIP Part 3 Airspace Manage RAD Users Manual

ERNIP Part 2

ERNIP Part 1 ERNIP Part 2 - ARN Versio

Airspace Managem Application of the Co of Airspace

European Airs Guidelines - Ger Specifications f



SUPPORTING EUROPEAN AVIATION









SESAR * NETWORK



Transition Plan



European Network Operations Plan 2023-2027



SUPPORTING EUROPEAN AVIATION



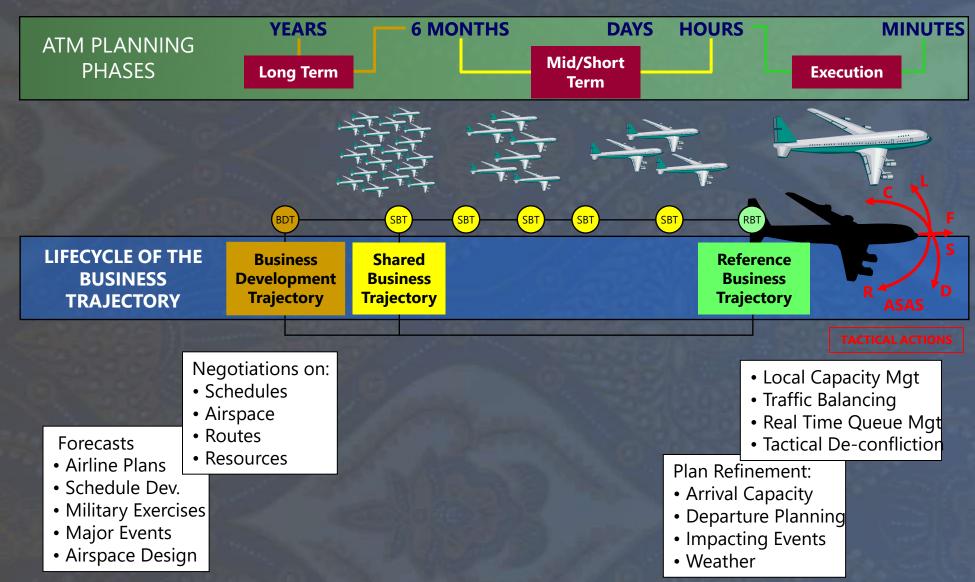




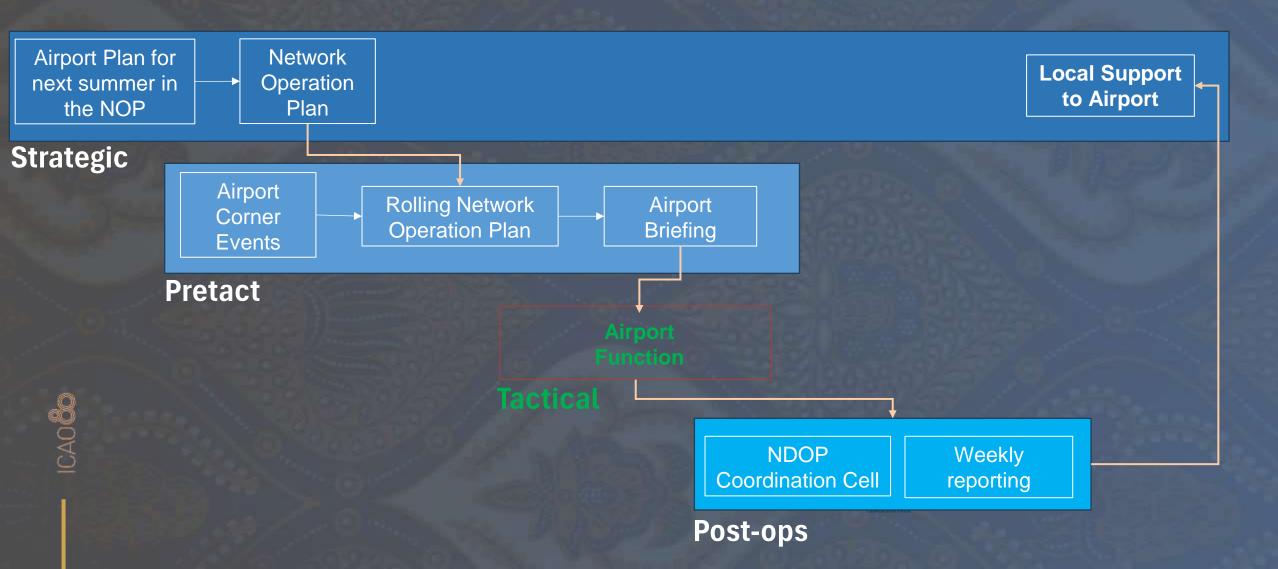


SUPPORTING EUROPEAN AVIATION

From Network planning... (in a nutshell)



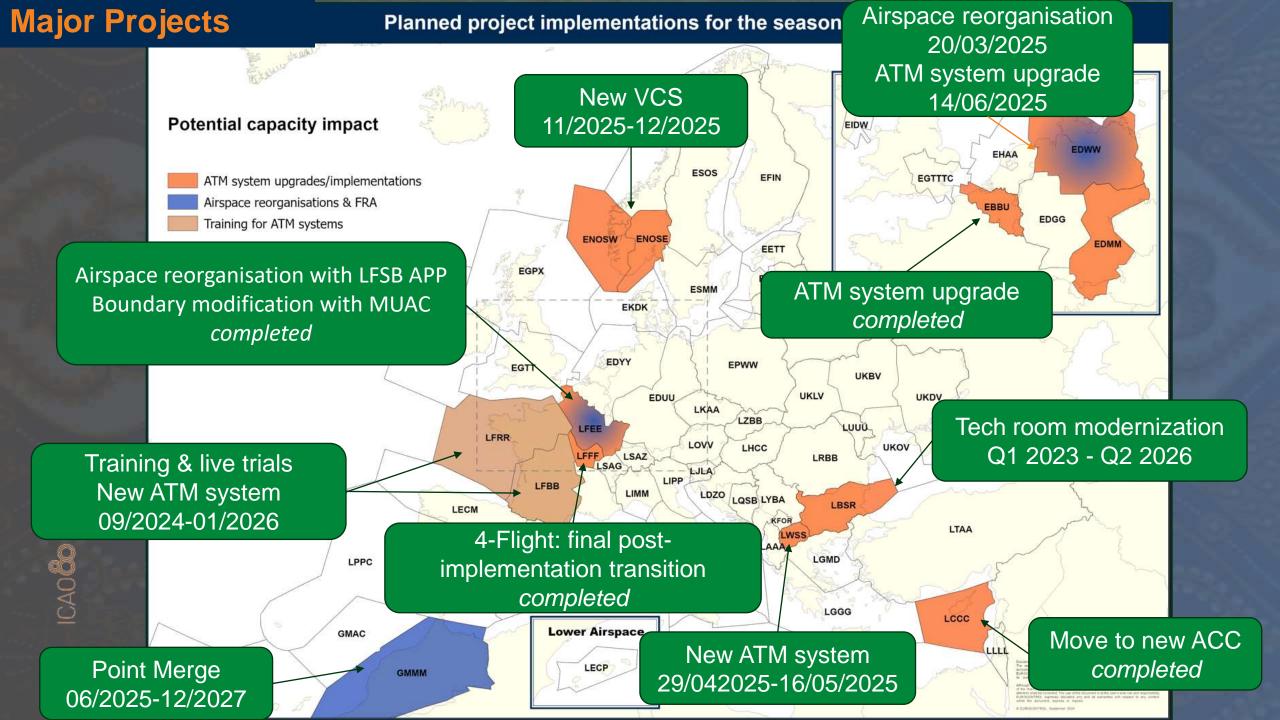
... to Network plan execution. (in a nutshell)



Events preparation

E.g.: Upcoming events – 19 JUNE - 15 JULY 2025

| Start date | | ✓ Location (ACC/AD) | ☐ Title | ⊘ Category | |
|---------------------|------------|---------------------|--|---------------------|------------|
| | 27/06/2025 | EHAA EHAM | NATO Summit 2025 | Event | |
| | 03/07/2025 | LFBB LFRR EGGX | OCEANIS | Military event | Low impact |
| ■ 23/06/2025 | 29/06/2025 | LFEE | EXTEL 25-03 | Military event | Low impact |
| ■ 30/06/2025 | 04/07/2025 | ED | Weapon Instructor Course (WIC25) | Military event | No impact |
| ■ 30/06/2025 | 03/07/2025 | (LEZL) (LECS) | United Nations International Conference on Financing for Development Category | Event | Low impact |
| ⊞ Q3/2025 | Q3/2025 | (LECM) (GMMM) | ATS Route Improvement | ENV implementation | No impact |
| ₪ 07/2025 | | (EPWW) | Lower airspace re-organisation | ENV implementation | |
| | Q4/2025 | LIME | Holding points reconfiguration - taxiways A and AB | Airport | |
| ⊞ Q3/2025 | Q3/2029 | EVRA | Passenger Terminal Expansion | Airport | No impact |
| ⊞ 10/07/2025 | | GMMM | Free Route Airspace MORFRA- Casablanca FRA area, step 1a | Free route airspace | No impact |
| ⊞ 12/07/2025 | 27/08/2025 | EBBR | Renovation works runway 25L/07R | Airport | No impact |
| ⊞ 12/07/2025 | 17/07/2025 | EKCH | RWY 04R/22L Closed for maintenance | Airport | No impact |
| ⊞ 14/07/2025 | 27/07/2025 | LFBB | HARPOCRATE | Military event | Low impact |
| ⊞ 15/07/2025 | 08/12/2025 | LFPG | Closure of RWY 09R/27L | Airport | |



Rolling Seasonal Plan



European Network Operations Plan 2024 Rolling Seasonal Plan



8 Weeks
Traffic outlook

6 Weeks
Airport and ACC
Capacity Plans
(capacities and sector openings)

6 Weeks Capacity assessment

1-year rolling Events

Overview of the process

MONDAY

Traffic Outlook - 8-weeks outlook - Data processing

- raw flight intentions and calculated demand per airline
- route assignement

Data processing

- preparation of the input files for Strategic NM capacity assessment
- Events list update → Events preparation procces
- sending requests to ANSPs

WEDNESDAY

Strategic NM Capacity Assessment

- 6-weeks of ACCs data import
- 91 ACCs simulated
- NEST regulation and delay simulation
- Use of a dashboard with historical data, post-ops analysis, "Assessment tips"
- Assessment of each regulation in NEST















Traffic Outlook

- ACC traffic demand
- GO/NO GO
- Final Traffic Outlook NEST file

Input collection

- Airports plan for the outlook period
- Traffic expectations at network, ACC and airport level for the outlook period, in NEST and Excel format
- NM Assessment of ACC plans
- NM Assessment of airport plans

TUESDAY

THURSDAY





Seasonal Rolling NOP Traffic Demand ECAC Area

4.1%

4.0%

4.4%



35731

35889

35968

ECAC Area



25000 SumDailyTraffic 00000 15000 Year Month Day Weekly average Difference vs Y-1 2025 May 19 33505 5.7% 2025 May 26 33326 2.4% 2025 June 34693 4.9% 2025 June 35193 3.8% 10000 2025 June 16 35478 4.0%

23

30

2025 June

2025 June

2025 July

5000



Received through INNOVATA/CIRIUM or directly from airlines



Received through EUACA for all the coordinated airports in ECAC



Used for complimenting the flight intentions when necessary and serving as route





Derived from historical flights





historical flights



Helicopter flights in Norway, North Atlantic traffic, etc.

Apr 2025 May 2025 Jun 2025 Jul 2025

ACC CAPACITY PLANS

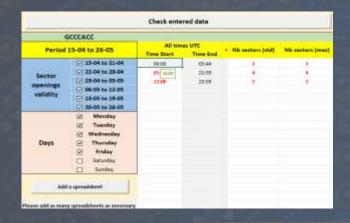
Increased network awareness

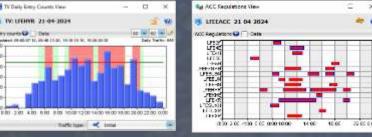
Up-to-date / correct assumptions

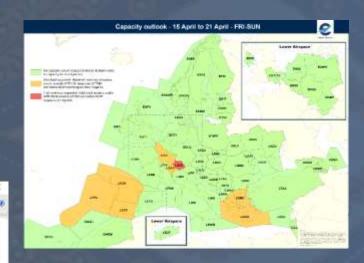
Better planning

Timely solutions

Improved impact assessment





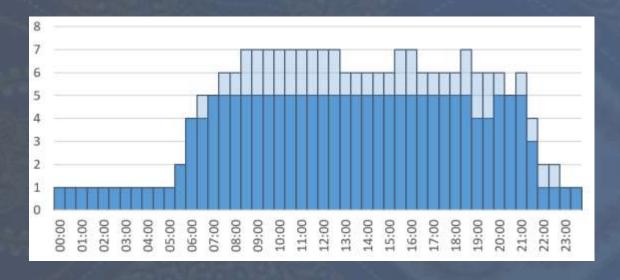


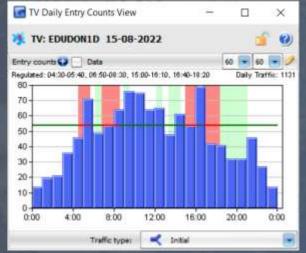
| Mt 22/94/7024 | 07/05/2024 | (IHE) | 0-Flight-Toming |
|---------------|------------|---------------|---|
| ED 22/04/2004 | 03/05/2024 | (E) | MEES |
| EE 22/04/2024 | 26/04/3004 | LHEP | NWV_190/31L Course due to nobbe removal |
| (0.24/04/2024 | 24/04/2024 | (IFF) | n-Eight invested |
| E 20/04/2024 | 19/05/2024 | (ESMM) (ESOS) | Shirter 24 |
| ED 25/04/2028 | 25/04/2024 | (LFBB) | (ALL) |
| m 76/94/2024 | Z7/94/2024 | (EPGD) | Ranning 11/29 closed |
| ED 29/04/2024 | 05/05/2024 | (1542) | New food Hending (MHH) Zunch – FIR System Upgrade (Philee v2.5) |

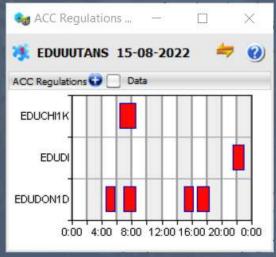
CAPACITY ASSESSMENT

Based on traffic outlook and capacity inputs from ANSPs

- Simulation in NEST for 88
 ACCs/sector groups
- Not a delay forecast!
 Simulation results are
 reviewed, "fake" regulations
 discarded, past performance
 taken into account

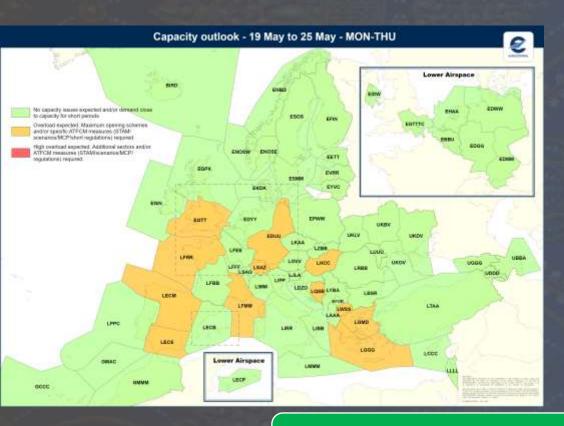


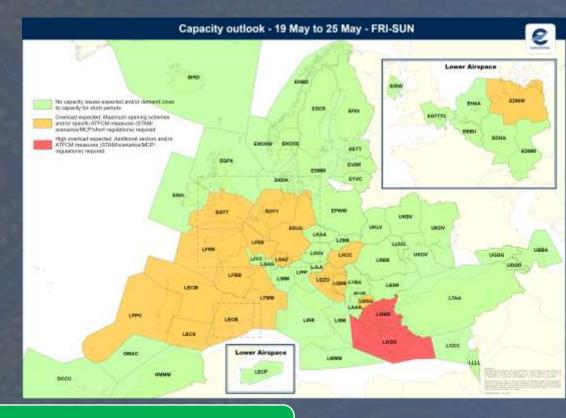






CAPACITY ASSESSMENT OUTCOME





Green: No capacity issues expected and/or demand close to capacity for short periods

Orange: Overload expected. Maximum opening schemes and/or specific ATFCM measures (STAM/scenarios/MCP/short regulations) required

Red: High overload expected. Additional sectors and/or ATFCM measures (STAM/scenarios/MCP/regulations) required



Actions after assessment

For ACCs in GREEN

No specific action

For ACCs in ORANGE and RED

- Actions at Monday's ad-hoc Network Director of Operations conferences
- Check Sector openings vs. NOP2025/2026-2029 commitment
- ANSPs to try to mitigate the impact



ASSESSMENT SHARED WITH NM PRETACTAL AND TACTICAL TEAMS



Planned sector openings



Planned/ongoing sector capacity reductions



Detailed capacity assessment for the next 6 weeks



Traffic outlook



Shared at the Friday OPS Briefing



