Supporting European Aviation

EUROCONTROL

Network Manager Operations Centre

Welcome!

10th March 2025

CONSORTIUM COORDINATOR sesar DEPLOYMENT MANAGER

FOUNDING MEMBER sesar JOINT UNDERTAKING

NETWORK MANAGER

Connecting the NETWORK to deliver improved performance

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SAFETY
Safety alerts, Operational Safety Hazards

AIRSPACE DESIGN & CAPACITY PLANNING
European Route Network

NM OPERATIONS CENTRE
ATFCM, Airspace data, Flight planning, post-ops

INFRASTRUCTURE MONITORING
Communications, Navigation and Surveillance

INFRASTRUCTURE MANAGEMENT
Evolution of the terrestrial CNS network

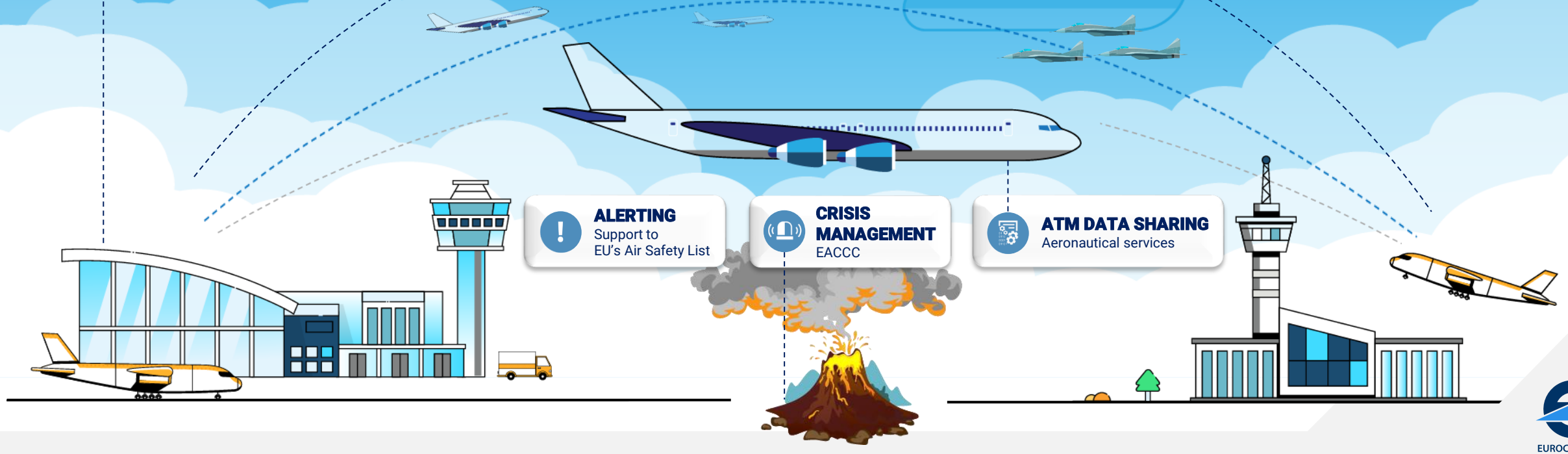
AIRPORTS IN THE NETWORK
Full integration

SDM
Supporting deployment of new services, infrastructure and avionics

SCARCE RESOURCES
Radio Frequencies
Radar transponder codes

CIVIL MILITARY COORDINATION
Flexible Use of Airspace

NETWORK PLANNING
NSP – NPP – NOP



ALERTING
Support to EU's Air Safety List

CRISIS MANAGEMENT
EACCC

ATM DATA SHARING
Aeronautical services

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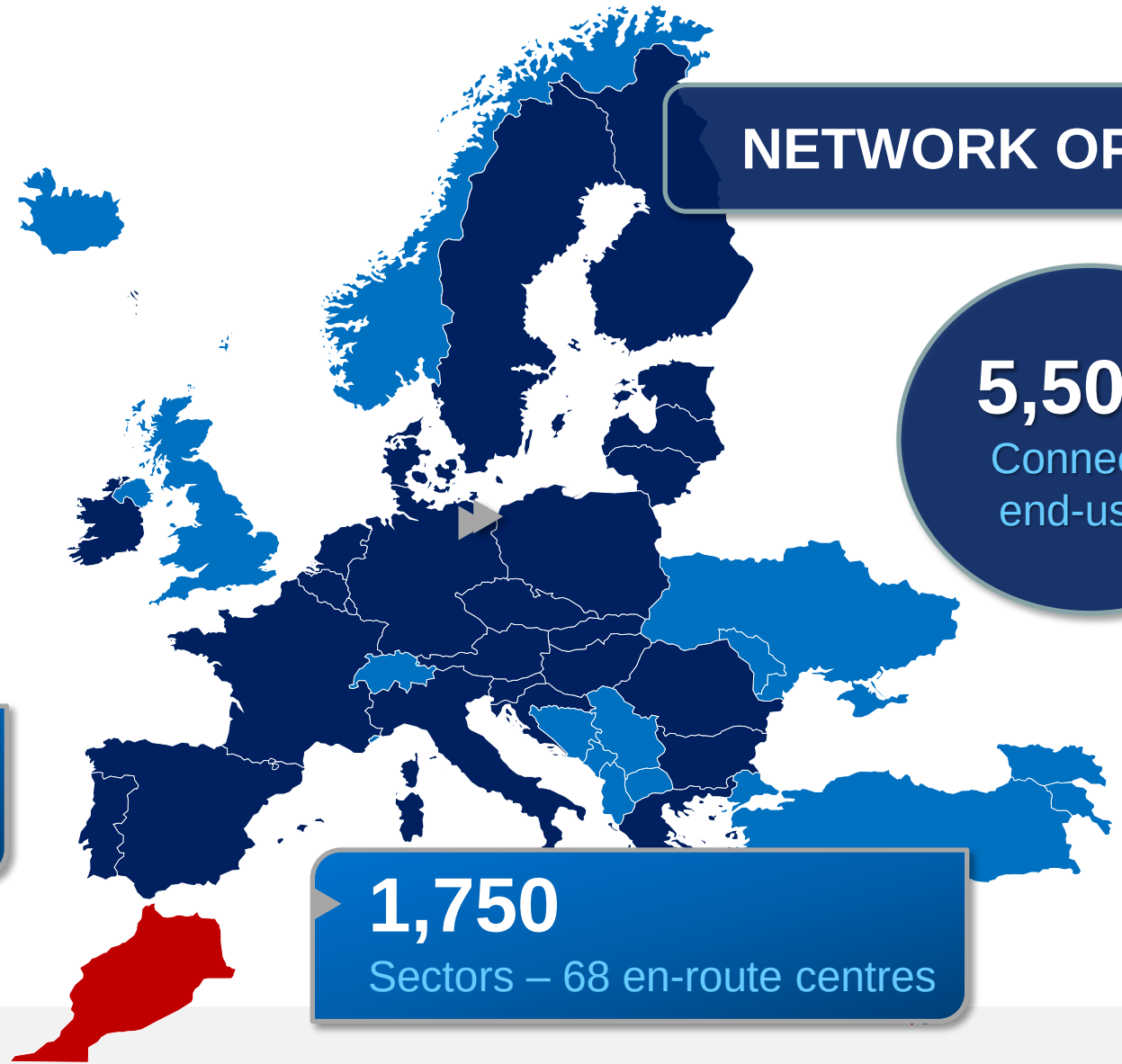
Managing **ONE SINGLE** Aviation Network over Europe

10.2 million
Flights per year (2023)



NETWORK OPERATIONS

10.2 million
Flights per year (2023)

5,500+
Connected end-users

Peak 2024
35,710
Flights per day

6,664
Airspace users

60
FMPs

44
States

1,750
Sectors – 68 en-route centres

525
Airports

THE EUROPEAN AIR TRAFFIC MANAGEMENT SYSTEM

11.5
Geographic area (million km2)

37
Number of civil ANSPs

17,794
Number of air traffic controllers

55,130
Total staff

15.3
Flight hours controlled (million)

68
Number of en-route facilities

280
Number of terminal facilities/approach control

525
Airports with (normally) >10 flights a day

Pre-pandemic figures

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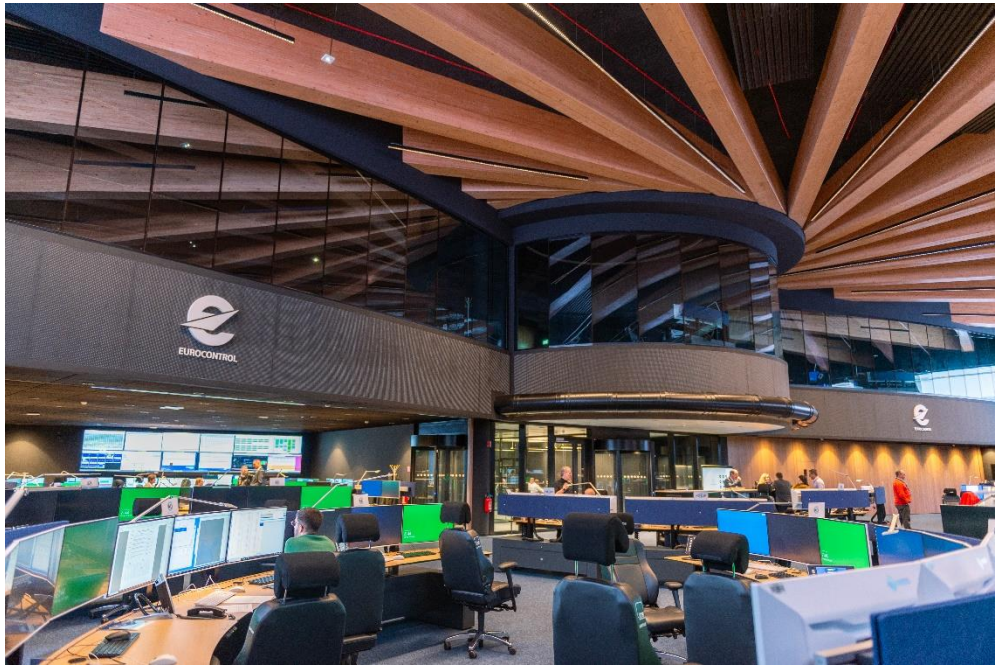
Europe – a complex Aviation Network, 44+

- Methodologies to assess sector and airport capacities in ACCs
- Unit rates (route charges)
- MET services providers
- Military State authorities
- Technological innovation must be coordinated with stakeholders
- System/procedures implementation: long process (Free Route Airspace, Airport CDM)

What does the Network Manager Operations Centre do?

- Passengers travel without delay
- Pilots plan & operate the shortest, most optimal route, avoiding or using Military areas
- Air traffic controllers get amounts of traffic they can handle safely



- Manage any disruption or crisis impacting aviation in Europe
- 147 staff, 27 nationalities

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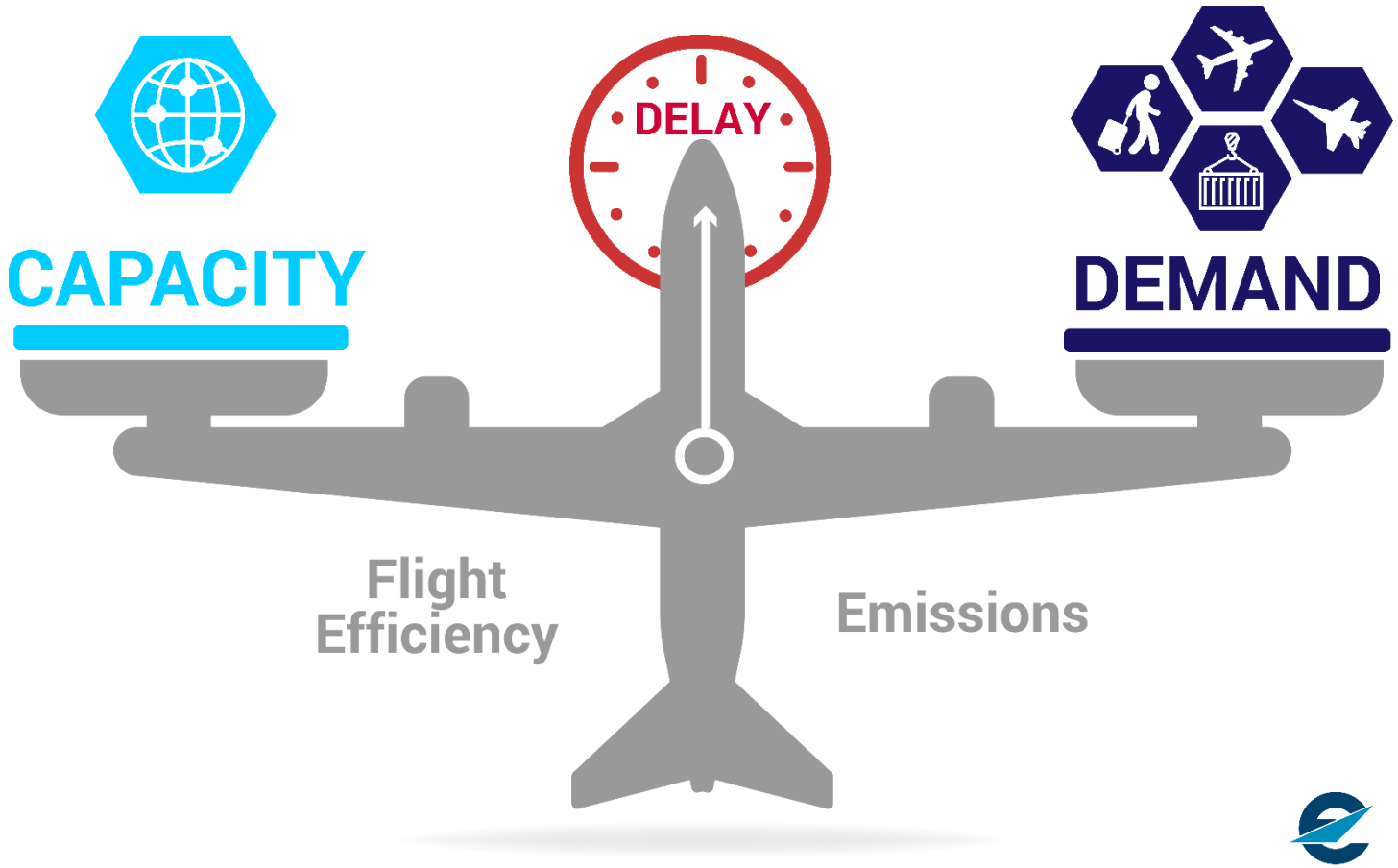
Supporting European Aviation

NETWORK OPERATIONS



Network Manager

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Organisation of the OPS room

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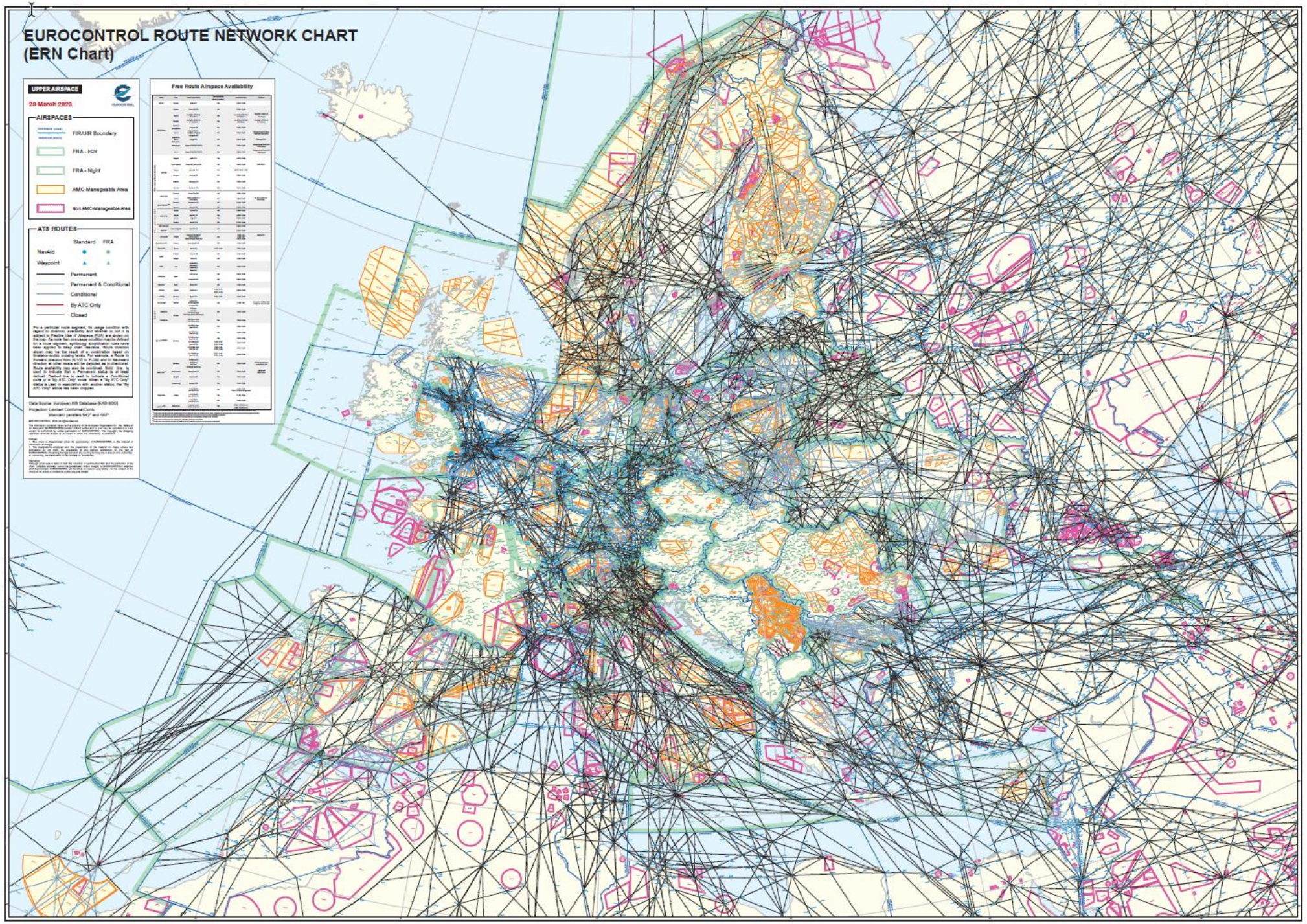
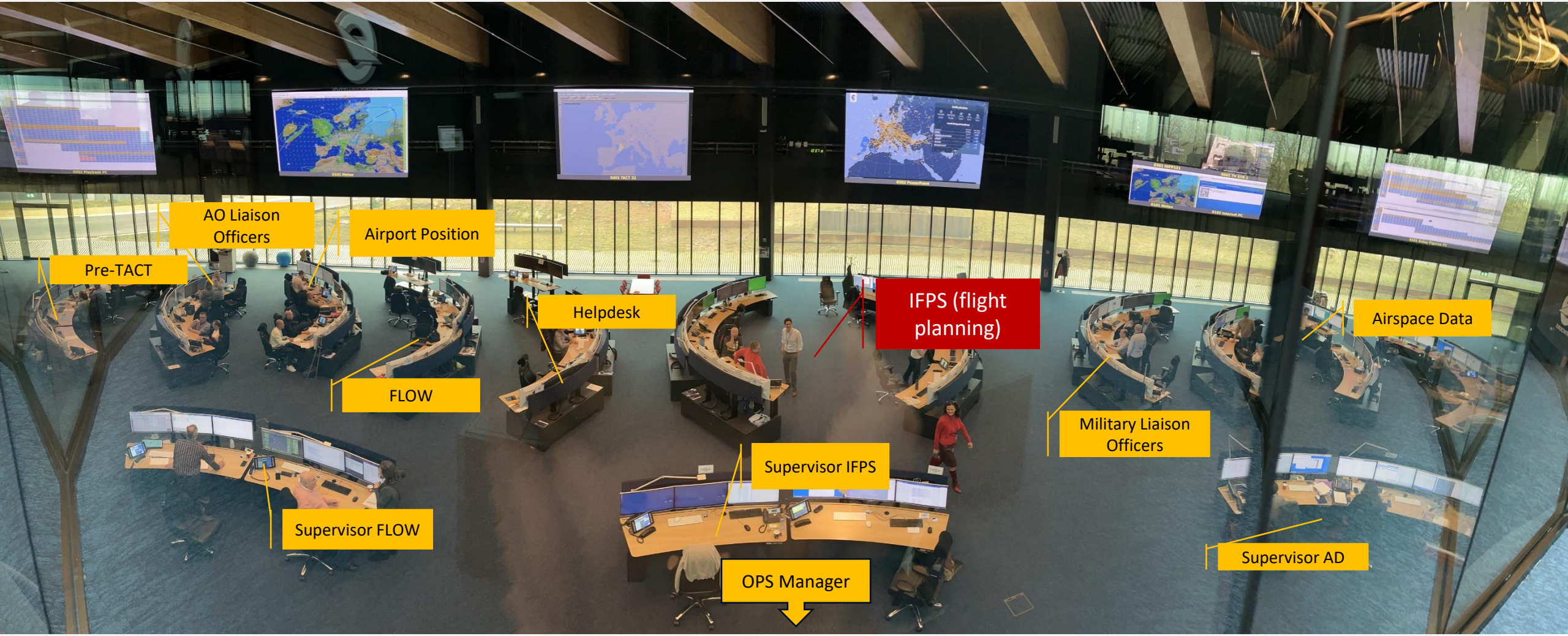


AIPs
NOTAMs

Capacity
levels

Organisation of the OPS room



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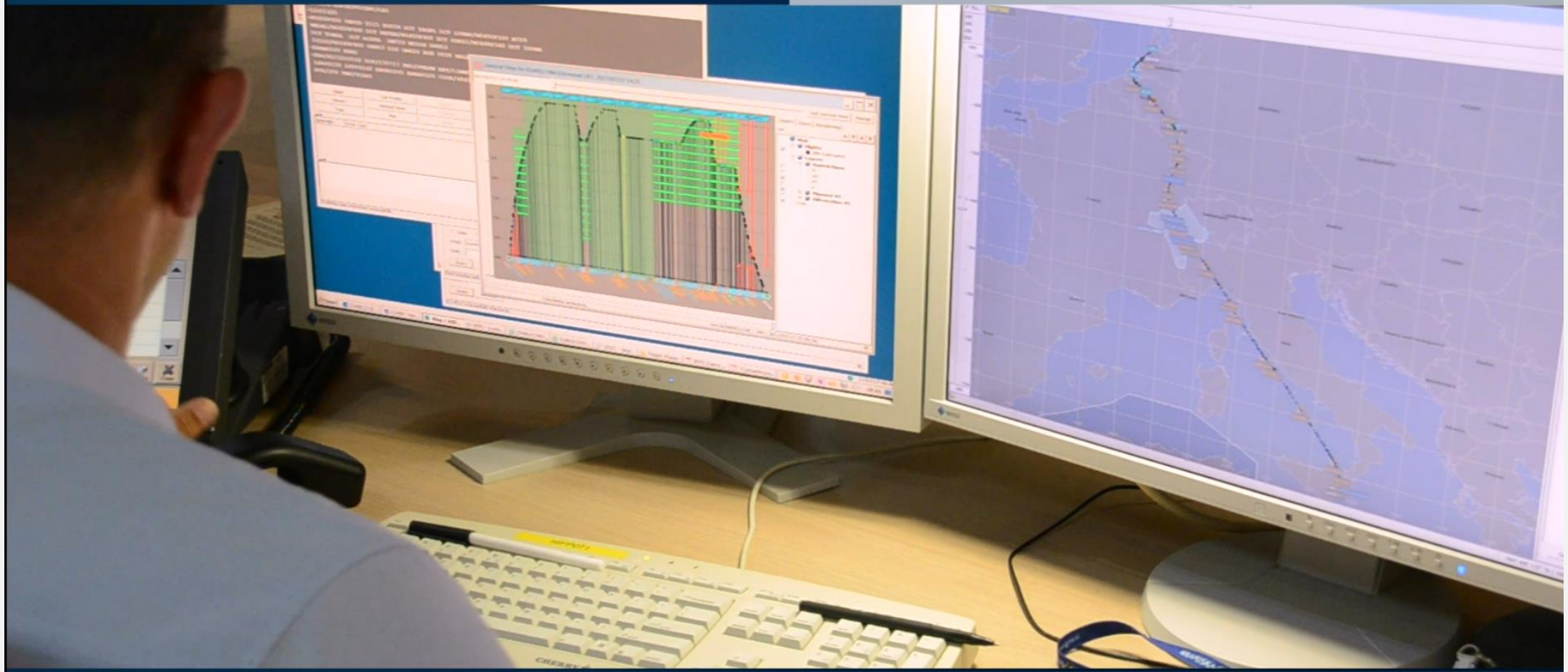
NETWORK MANAGER OPERATIONS CENTRE

FLIGHT PLANNING SERVICES



providing flight plan data to ATC units until **20 minutes** before take-off

NMOC Flight Planning Domain

NMOC Flight Planning Domain receive, check, acknowledge and distribute every day up to +37,000 FPLs in 2019.

Organisation of the OPS room

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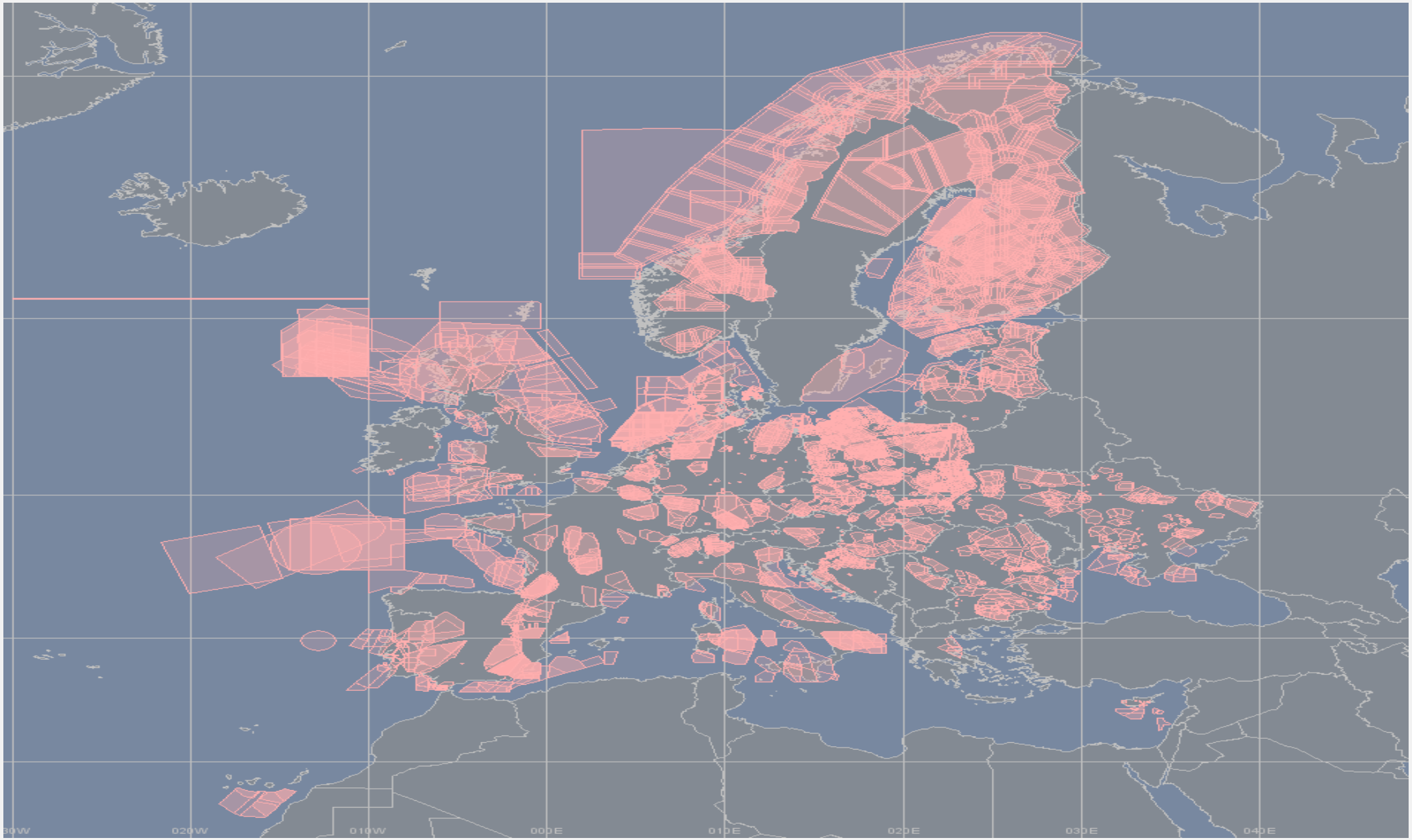
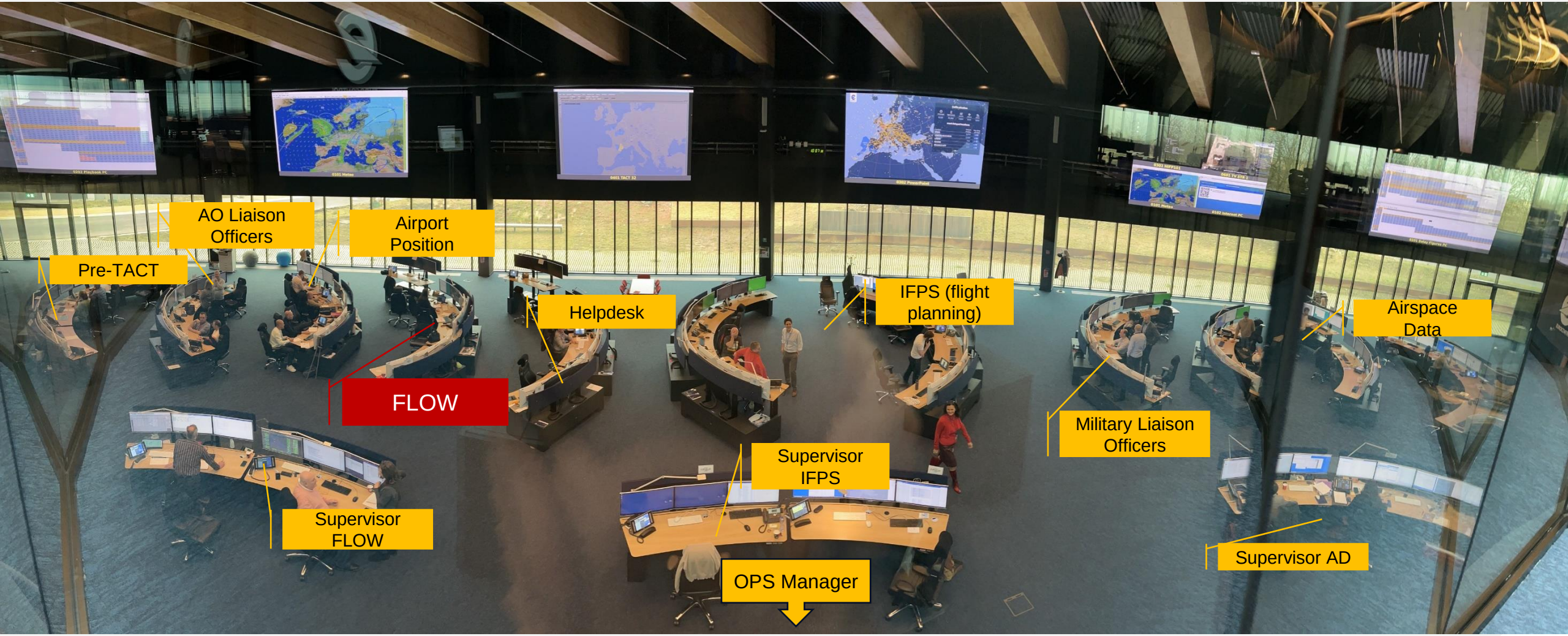

020W
010W
000E
010E
020E
030E
040E

Organisation of the OPS room



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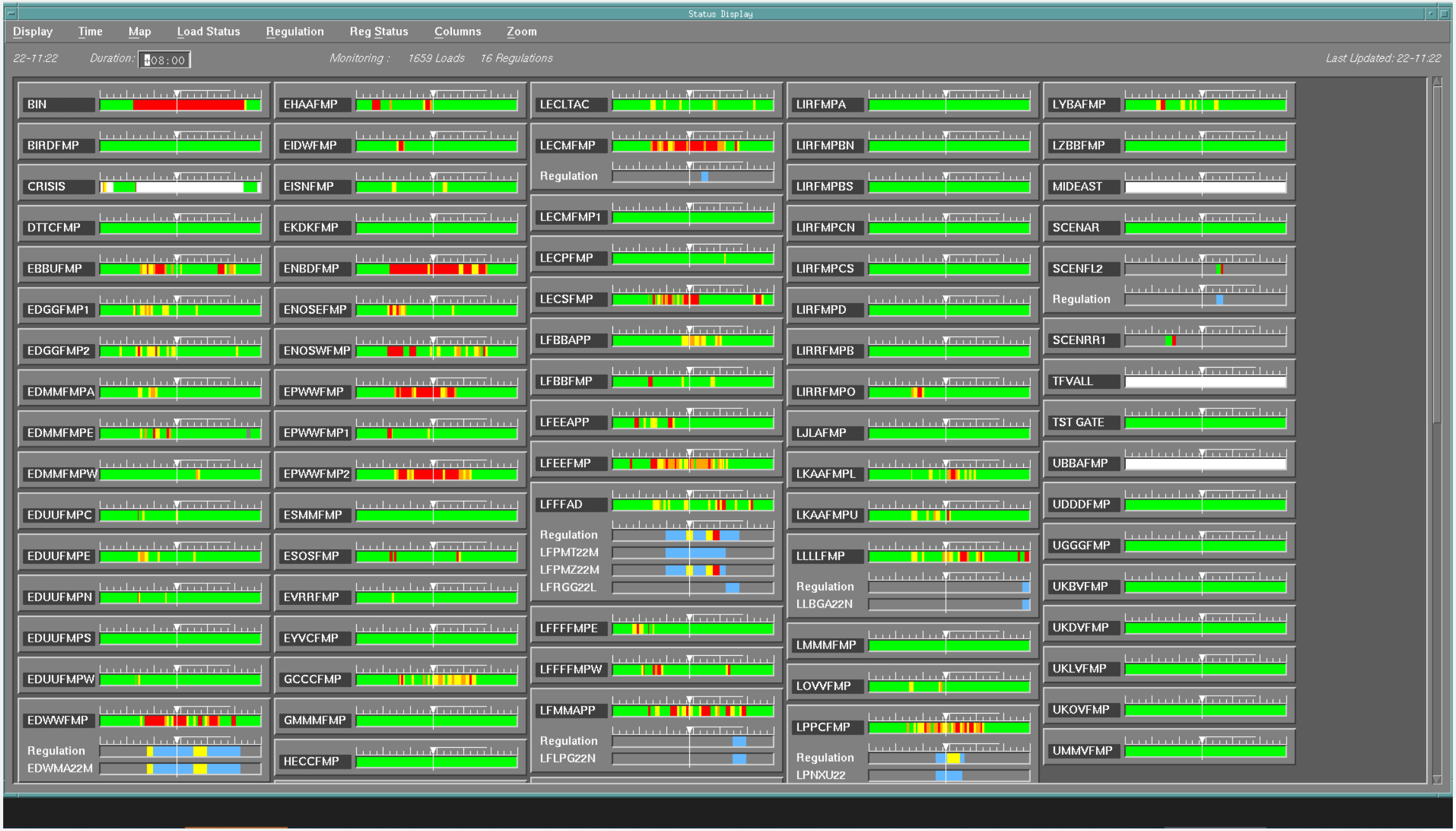
NETWORK MANAGER OPERATIONS CENTRE

PRE-TACTICAL FLOW MANAGEMENT OPERATIONS

special events World Cup Olympic Games ski axis


Status Display
Display
Time
Map
Load Status
Regulation
Reg Status
Columns
Zoom
22-11:22
Duration:
08:00
Monitoring :
1659 Loads
16 Regulations
Last Updated: 22-11:22
BIN
BIRDFMP
CRISIS
DTTCFMP
EBBUFMP
EDGGFMP1
EDGGFMP2
EDMMFMPA
EDMMFMPE
EDMMFMPW
EDUUFMPC
EDUUFMPE
EDUUFMPN
EDUUFMPS
EDUUFMPW
EDWWFMP
Regulation
EDWMA22M
EHAAFMP
EIDWFMP
EISNFMP
EKDKFMP
ENBDFMP
ENOSEFMP
ENOSWFMP
EPWWFMP
EPWWFMP1
EPWWFMP2
ESMMFMP
ESOSFMP
EVRRFMP
EYVCFMP
GCCCFMP
GMMMFMP
HECCFMP
LECLTAC
LECMFMP
Regulation
LECMFMP1
LECPFMP
LECSFMP
LFBBAPP
LFBBFMP
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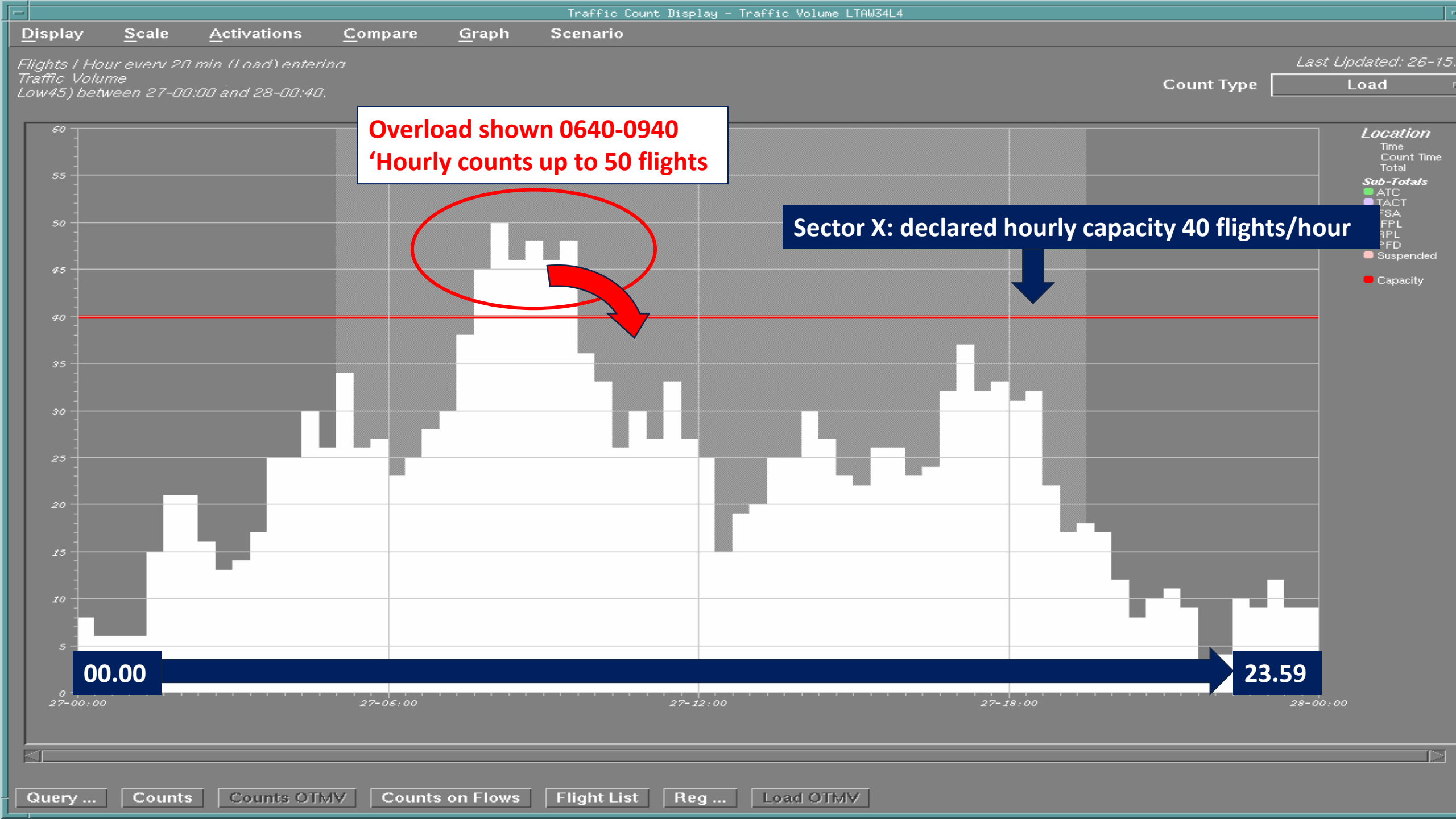
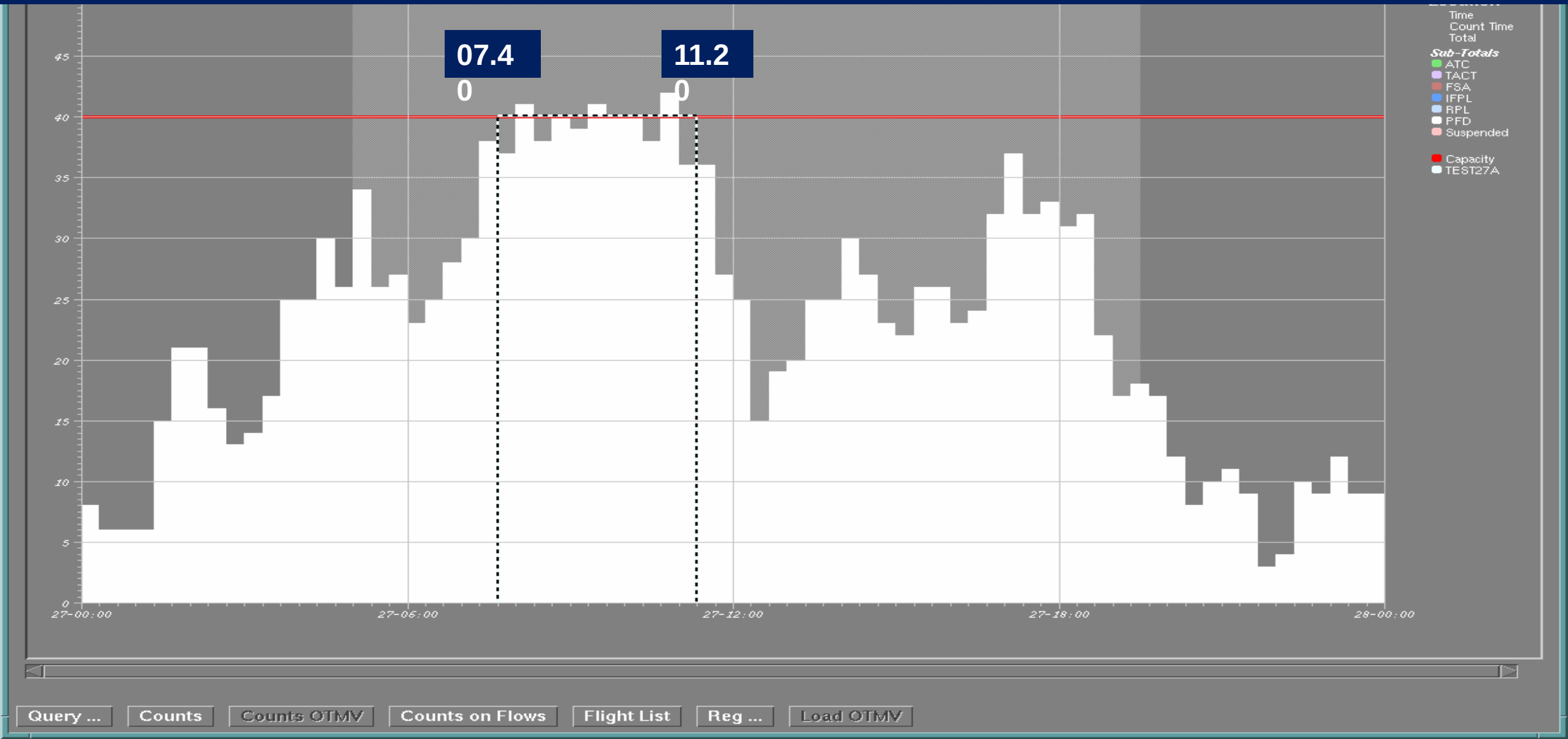
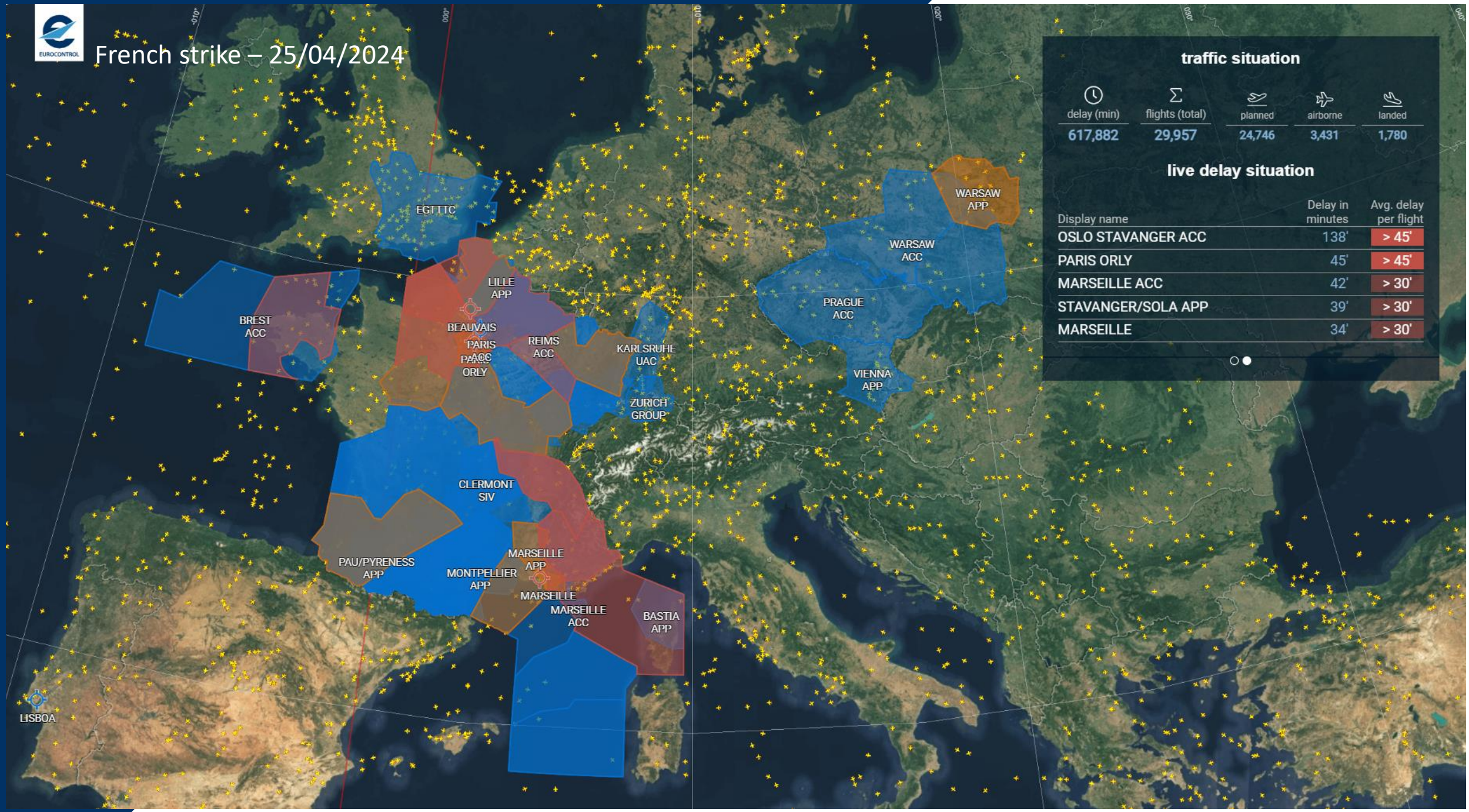
LFPMZ22M
LFRGG22L
LFFFFMPE
LFFFFMPW
LFMMAPP
Regulation
LFLPG22N
LIRFMPA
LIRFMPBN
LIRFMPBS
LIRFMPCN
LIRFMPCS
LIRFMPD
LIRRFMPB
LIRRFMPO
LJLAFMP
LKAAFMPL
LKAAFMPU
LLLLFMP
Regulation
LLBGA22N
LMMMFMP
LOVVFMP
LPPCFMP
Regulation
LPNXU22
LYBAFMP
LZBBFMP
MIDEAST
SCENAR
SCENFL2
Regulation
SCENRR1
TFVALL
TST GATE
UBBAFMP
UDDDFMP
UGGGFMP
UKBVFMP
UKDVFMP
UKLVFMP
UKOVFMP
UMMVFMP


Traffic Count Display - Traffic Volume LTAW34L4
Display
Scale
Activations
Compare
Graph
Scenario
Flights / Hour every 20 min (Load) entering
Traffic Volume
Low45) between 27-00:00 and 28-00:40.
Last Updated: 26-15.
Count Type
Load
Overload shown 0640-0940
'Hourly counts up to 50 flights
Sector X: declared hourly capacity 40 flights/hour
Location
Time
Count Time
Total
Sub-Totals
ATC
TACT
FSA
FPL
RPL
PFD
Suspended
Capacity
60
55
50
45
40
35
30
25
20
15
10
5
0
00.00
23.59
27-00:00
27-06:00
27-12:00
27-18:00
28-00:00
Query ...
Counts
Counts OTMV
Counts on Flows
Flight List
Reg ...
Load OTMV

ATFM regulation applied from 0740-1120
1,794 min of ATFM delay, Peak delay 48 min



French strike – 25/04/2024



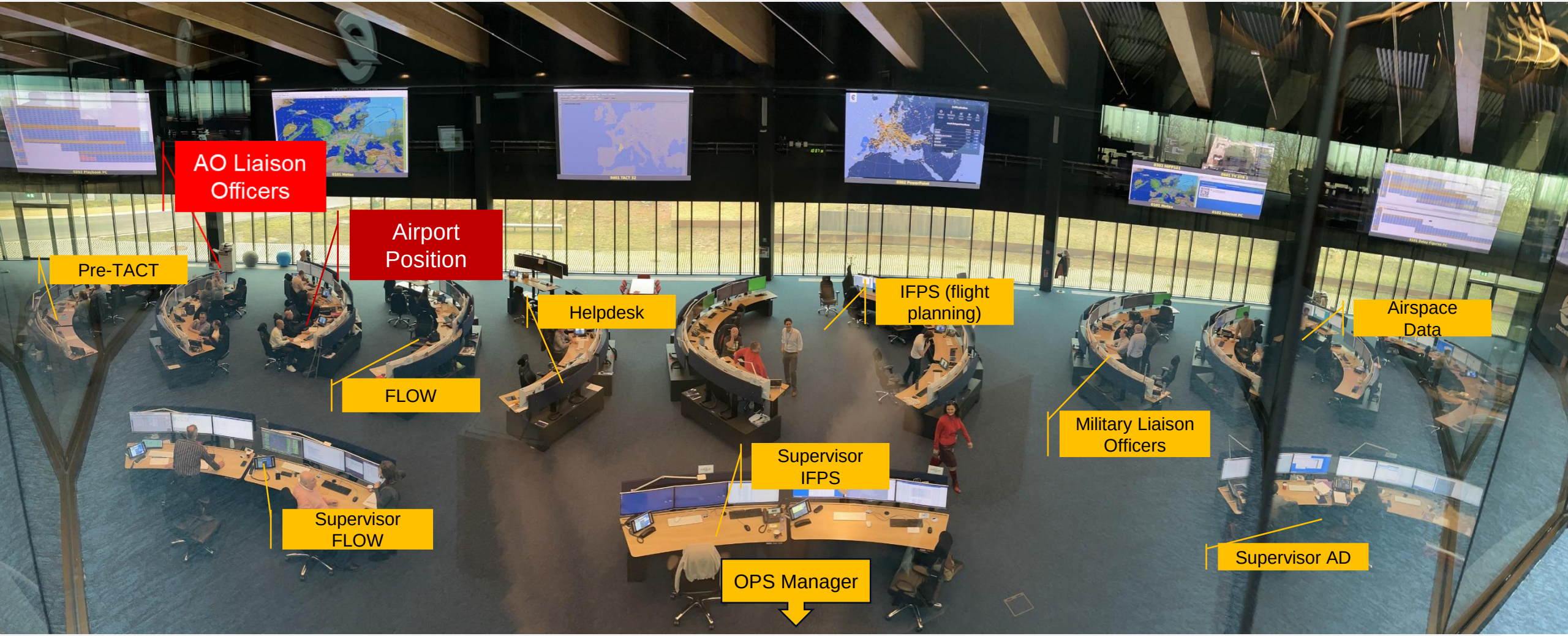
traffic situation

delay (min)	flights (total)	planned	airborne	landed
617,882	29,957	24,746	3,431	1,780

live delay situation

Display name	Delay in minutes	Avg. delay per flight
OSLO STAVANGER ACC	138'	> 45'
PARIS ORLY	45'	> 45'
MARSEILLE ACC	42'	> 30'
STAVANGER/SOLA APP	39'	> 30'
MARSEILLE	34'	> 30'

Organisation of the OPS room



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Airport Function

Recovery phases following diversions

First rotation flights