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AATIP
ASEAN Air Transport Integration Project

in partnership with EUROCONTROL, UKCAA and DGAC France







Regional ATFM in Europe

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Anders Hallgren
ATM Expert
EU-AATIP Project
Presentation prepared in conjunction with EUROCONTROL

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Regional ATFM in Europe

- Local to regional collaboration
- ➤ The Network Operations Concept
- From regional to global



A Historical perspective

Based on the ICAO Centralised Traffic Management Organisation (CTMO) concept

From
Local to
Regional
ATFM

Initial database of schedules and other pre-flight information

PRETACT: 6 days before real time ops

Centralised flight planning service – IFPS

STRATEGIC, PRETACT, TACTICAL ATFM operations



A Historical perspective

Airspace management – FUA, CDR

From
CFMU to
Network
Manager

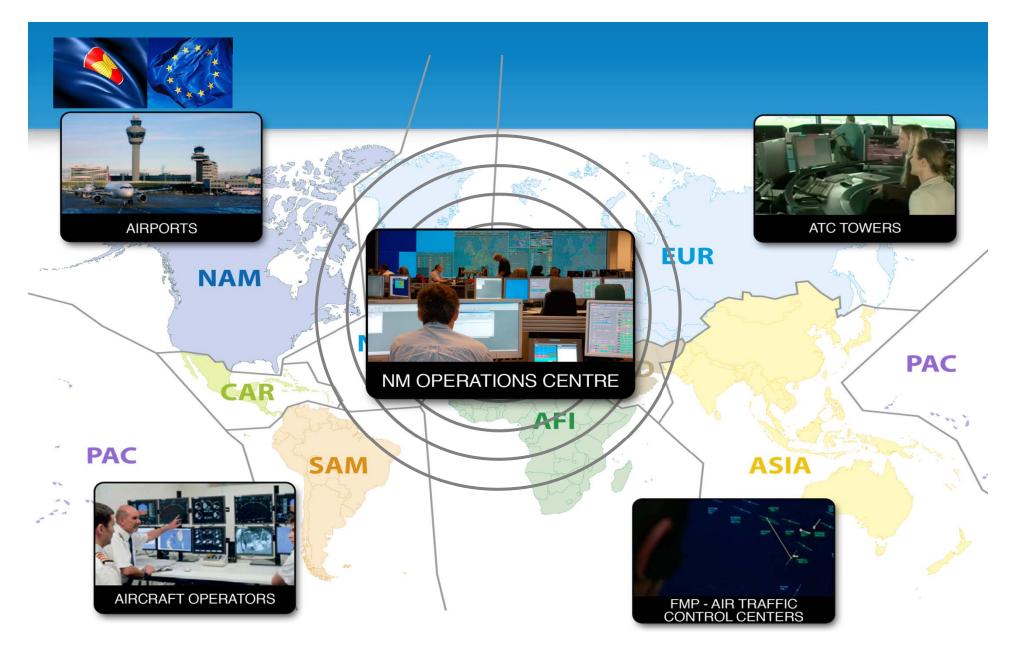
ATFM to ATFCM

Receipt and distribution of real-time surveillance information



Integrating airports and network

Network Operations



Unique collaboration of all ATM stakeholders

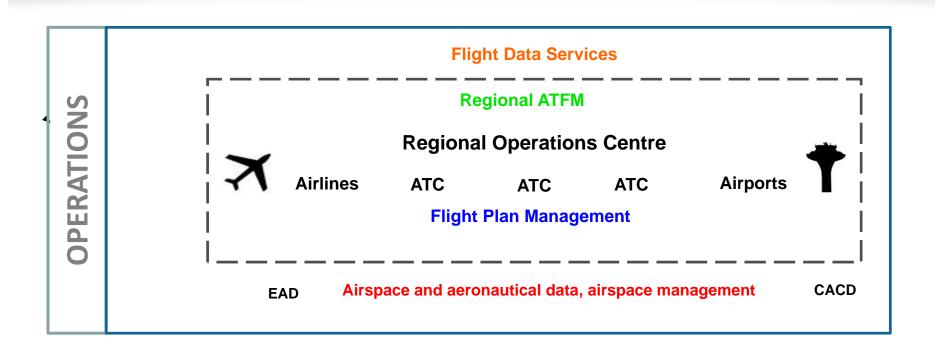


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The Network Operations Concept



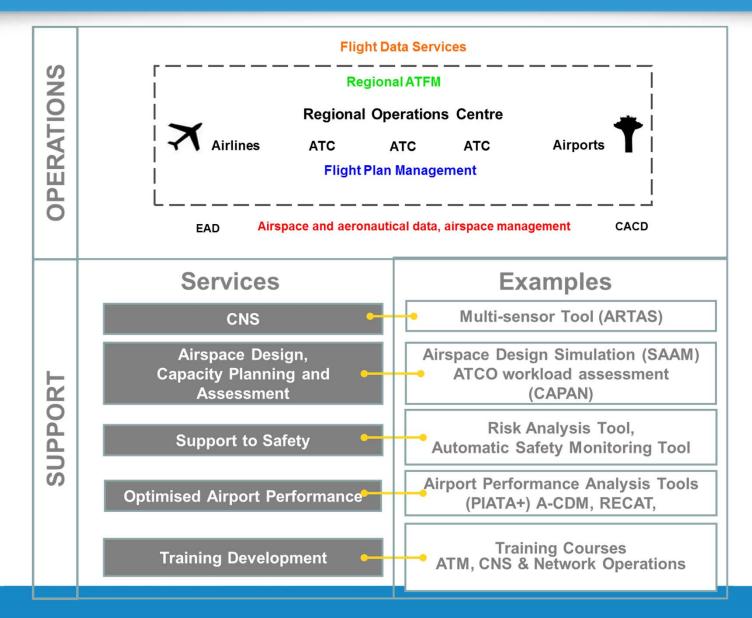
In addition to regional ATFM functions



 Achieve safe, efficient and environmentally friendly air traffic operations



The Network Operations Concept

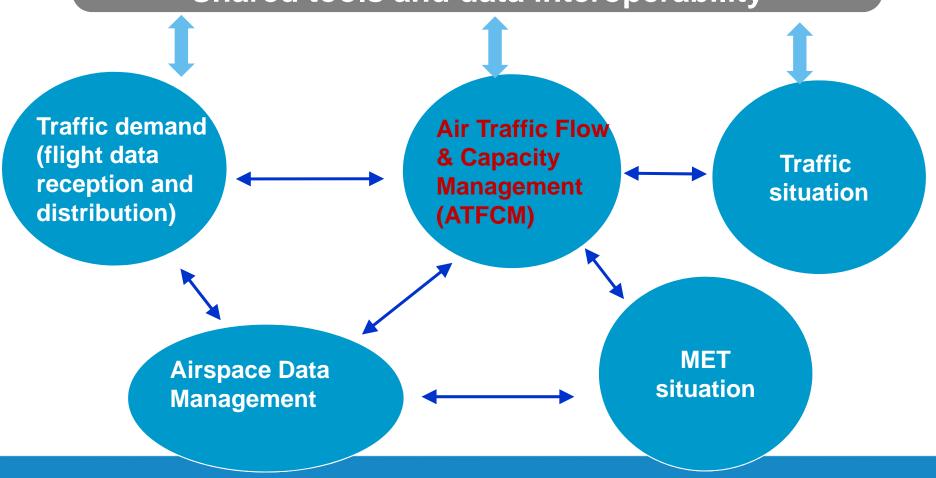


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Network Operations Services

Partners: ANSP, Airport, AO, MIL, CFSP Institutional arrangements
Shared tools and data interoperability





ATFM Structure in Europe

42 States

60 En-route centres = 1750 Sectors

One single
Flow Management
System over
Europe

1400 Aircraft Operators

450 Airports

60 FMPs



4000+ connected end-users

Peaks 34 400+ flights a day

10 000 000 flights a year



The partnership

- ➤ Legal basis ICAO Doc 7030
- **➤ EUROCONTROL Convention**
- Common Operations Manual (central unit, local units, AOs)
- ➤ Clear governance
- ➤ Contacts at all levels, strategic management, ops management, OPS



BENEFITS OF ATFM

- ➤ Joint Network Management adds value to Europe's ATM system by:
 - helping partners enhance the Europe-wide network performance;
 - jointly drawing up strategy, plans and priorities;
 - helping to make routes more efficient;
 - balancing demand and capacity;
 - consolidating information into centralised ATM databases;
 - forecasting, monitoring and analysing network performance;
 - dealing with network challenges centrally weather, major events, hotspots, crises.

Much more than an ATFM system

- ➤ OPTICON: optimum sector configuration application
- **▶ PATHFINDER** : easy to find alternative route using the Map
- NIA: Network Impact assessment analyses the potential impact of any ATFM measure.
- ➤ FE GRRT: group rerouting tool offering latest available more efficient routes
- ➤ E-Helpdesk: pc to pc help desk allowing much better and faster management of the queries from customers.
- SIMEX: Stand alone simulation tool.
- ➤ ATFCM situation display: shows at any moment ATFM situation in Europe.
- **GLANCE**: enables users to see different profiles of a flight
- **▶ METEO updates**: 4 times in 24 hrs
- NOP portal: interactive information tool
- Flight List: all partners can retrieve and display detailed information on any flight



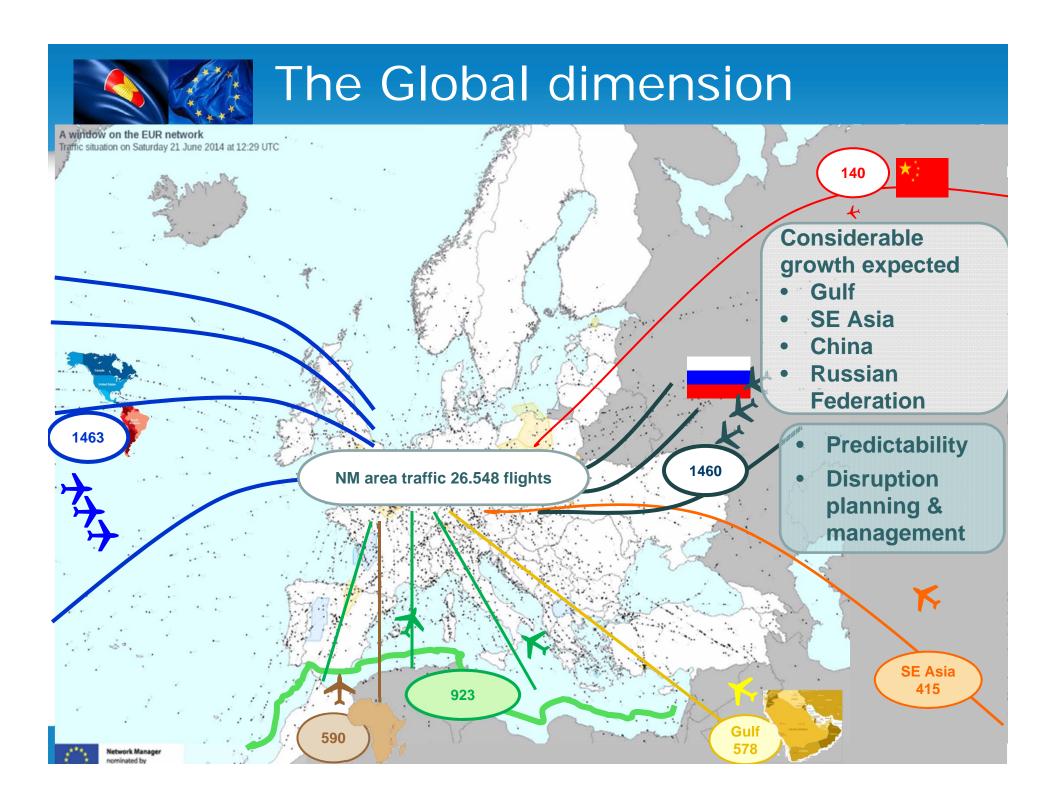
Short term developments

- Performance targets
 - ➤ European SES targets, Safety, Capacity, Flight Efficiency, Cost efficiency
- ➤ Weather / risk assessment tools
- Disruption and crisis management
- > STAM
- Inter regional Flight Data Updates



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The vision for Global ATFM

A set of interlinked operational ATFM regions



The key to predictability Cocal to Regional to Global – Interoperable - Sharing





ICAO Global Air Navigation Plan

➤ Goals of a global system:

To create, to the maximum extent possible, a single continuum of airspace where boundaries are transparent to users.

➤ The main enabler:

The full exchange and interoperability of all relevant information, from planning to tactical phase.



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Thank you.

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