



# AIRPORTS IN SESAR: Efficient Nodes in the Future Aviation System

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# AIRPORTS & SES

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- **What is an airport in the SES ATM jargon?**
  - > Airports
  - > Airport Operators
  - > Airport Operations
  - > Operations at Airports
  - > Operations at and around Airports

**An airport is a node in the ATM network where different actors/partners conduct operations that contribute to the performance of the network**

# OPERATIONAL IMPLICATIONS

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- **Integrate airports into the aviation system**

- > Processes & procedures
- > Technology
- > Regulation & Governance



**CHANGE OF CULTURE!**

- **Risks & Opportunities**

- > Local v. **Network**
- > From first come/first served to best equipped/best served?
- > Shift in « Ground governance »



# AIRPORTS & SESAR

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- **Traffic set to double by 2030**

- > Need for additional Capacity
  - License to Grow
- > Need to make most efficient use of existing capacity
  - License to Operate
  - Through operational improvements
  - SESAR: key enabler

- **Airports & SESAR are joining forces**

- > SESAR European Airports Consortium (SEAC)
- > AENA
- > NORACON
- > SESAR JU & ACI EUROPE Cooperation Contract

## AIRPORTS & SESAR (II)

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- **Airports = Essential Network Nodes**

- > Keep them involved in the SESAR process

- **Airports = Business Transformation**

- > Airports are businesses in their **OWN** right
- > Focused on shareholder value



Operational & Cost Efficiency



Growing interest for SESAR

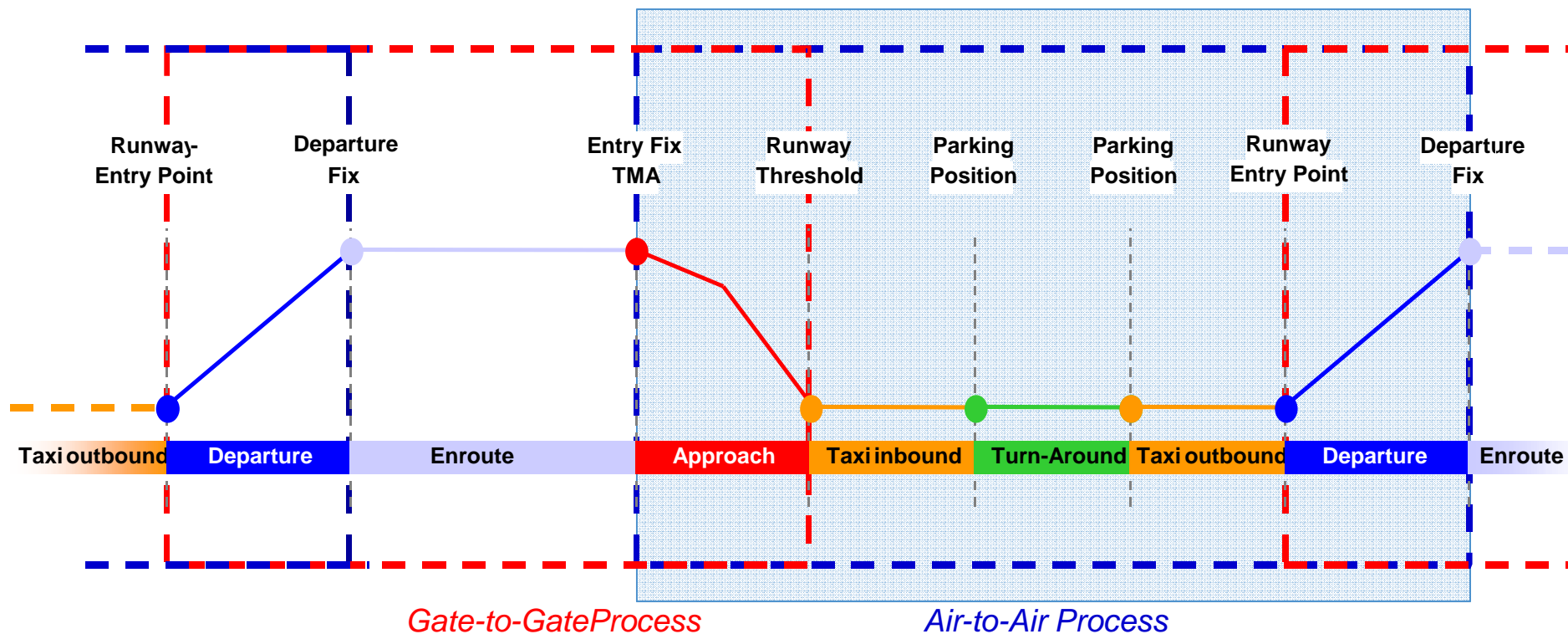
- **SESAR Benefits**

- > Effects of SESAR: most visible on the Ground
- > Airlines & passengers



# TOWARDS INTEGRATED MANAGEMENT Aviation System Capacity

## Ground & Airborne Sectors Fully Integrated



## → Airports as *Ground Coordinators* - Scope

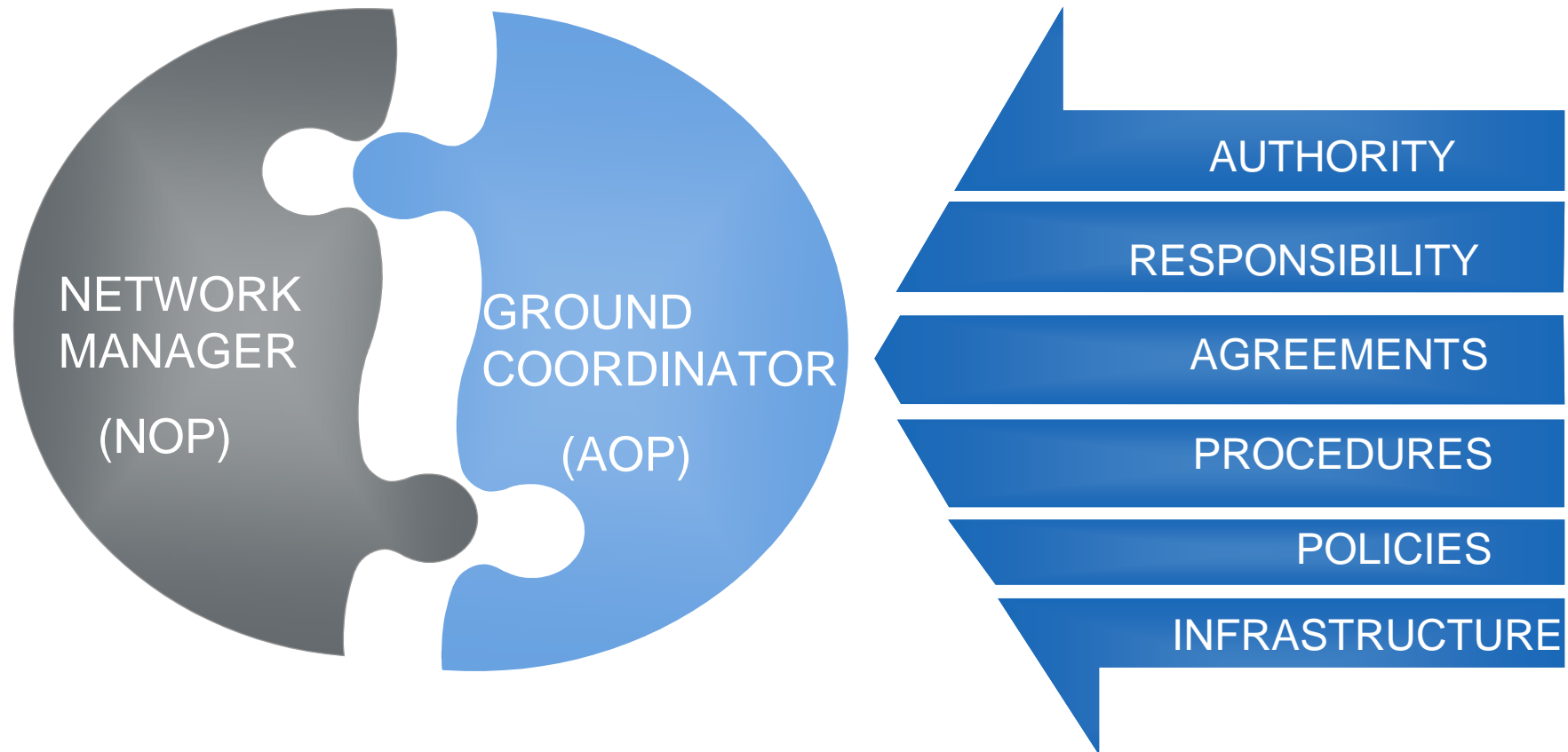
- **SESAR = Enabler**
  
- **Operations at/around Airports**
  - > Ground operations
  - > ATC operations

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**NOT limited to big hubs**
  
- **Contact Point for Network Manager**



# → Integrate Airports into the network





# **SESAR Operational Benefits**

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- **Airport-Related Activities = 30% of SESAR**
- **Dedicated Work Packages**
  - > WP6 Airport Operations
  - > WP12 Airport Systems
- **Increasing Runway Throughput**
  - > Runway occupancy times reduction
  - > Separation
  - > Wake Vortex
- **A-SMGCS**
  - > Routing and guidance
  - > Airports and on-board systems



## **A-CDM = Starting Point**

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### ▪ **Action Plan - ACI EUROPE/ ECTRL/ CANSO**

- > 4 airports fully implemented – another 8 expected in 2012
- > +14 airports engaged

### ▪ **Who needs to share information?**

- > Pilots
- > Airport Operations Centres
- > Airline Operations Centres
- > Air Navigation Service Providers
- > Meteorology Service Providers
- > Military Operations Centres



### ▪ **What kind of information needs to be shared?**

- > Aeronautical
- > Flight trajectory
- > Aerodrome operations
- > Meteorological
- > Air traffic flow
- > Surveillance
- > Capacity and demand

# SESAR Benefits & technologies for Airports

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## ▪ Top 5 Airport Benefits

1. Better plan current air traffic to improve overall airport ops performance
2. Increase airport capacity utilisation at the airport
3. Maintain and improve high safety standards while traffic increases
4. Increased predictability
5. Greener operations, positive impact on noise, air & ground.

## ▪ Top 5 New Technologies

1. New airport operations plan (AOP) and Airport Operations Centre (APOC)
2. SWIM – be connected to the full ATM network
3. Safety nets, new technologies and procedures to improve safety
4. New operational procedures for example for the separation between traffic
5. Remote towers



# THANK YOU

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