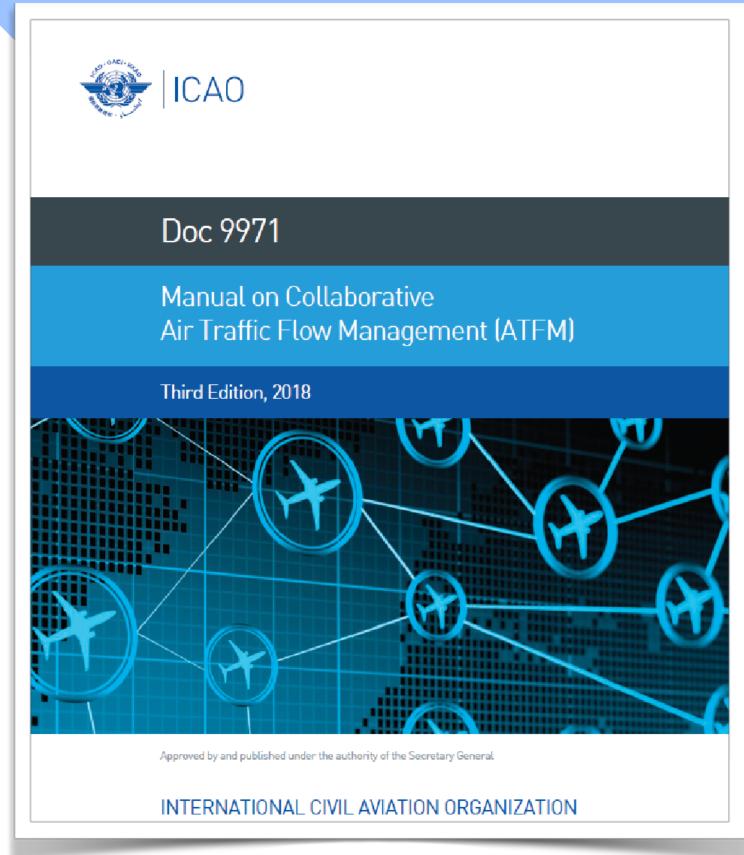
CDM: a New Way of Working for ATFCM and Airport Operations



- CDM procedures and rules to ensure that collaborative decisions are made rapidly and equitably
- DM ensures decisions are taken transparently based on the best information available as provided by the participants
- CDM can be applied from strategic planning to real-time operations



ICAO Manual (January 2018)

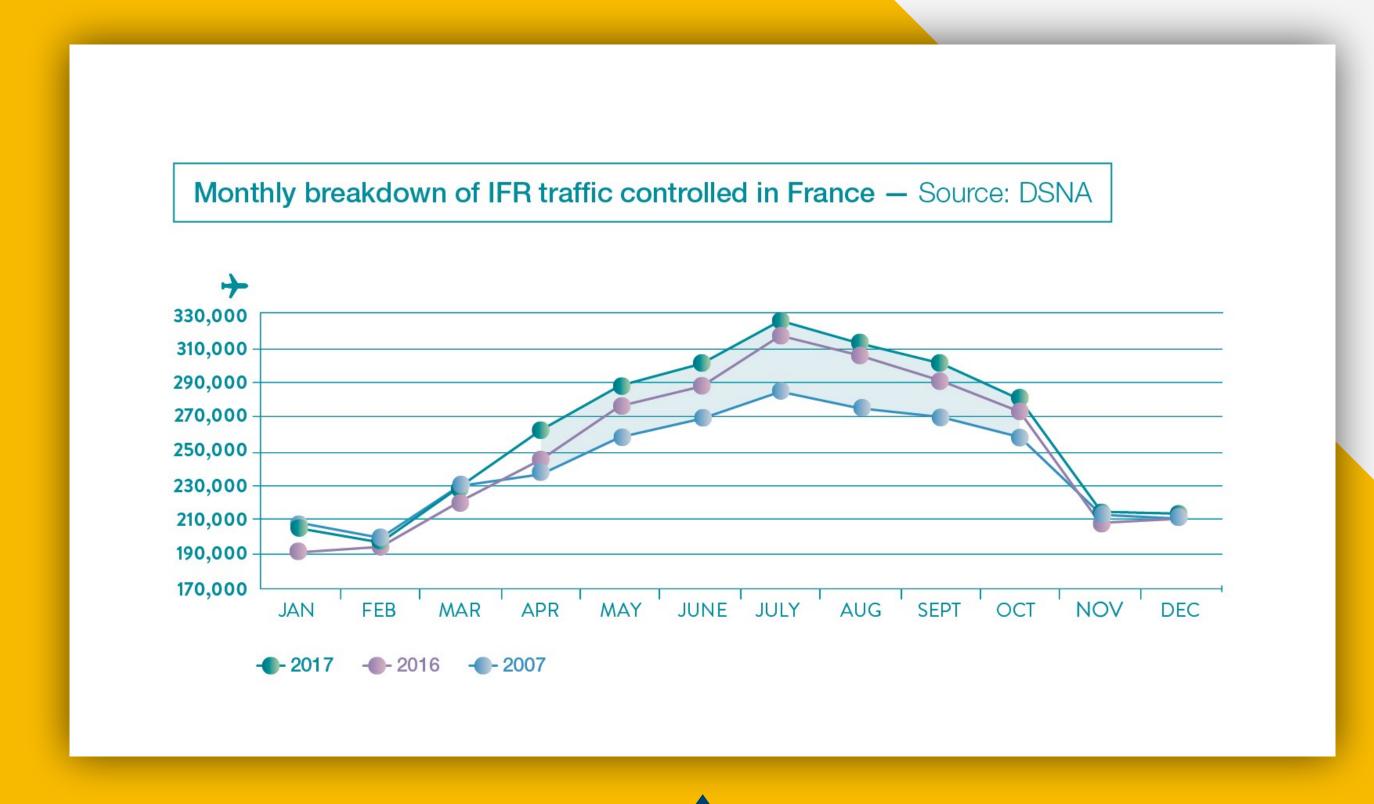
Extended CDM:

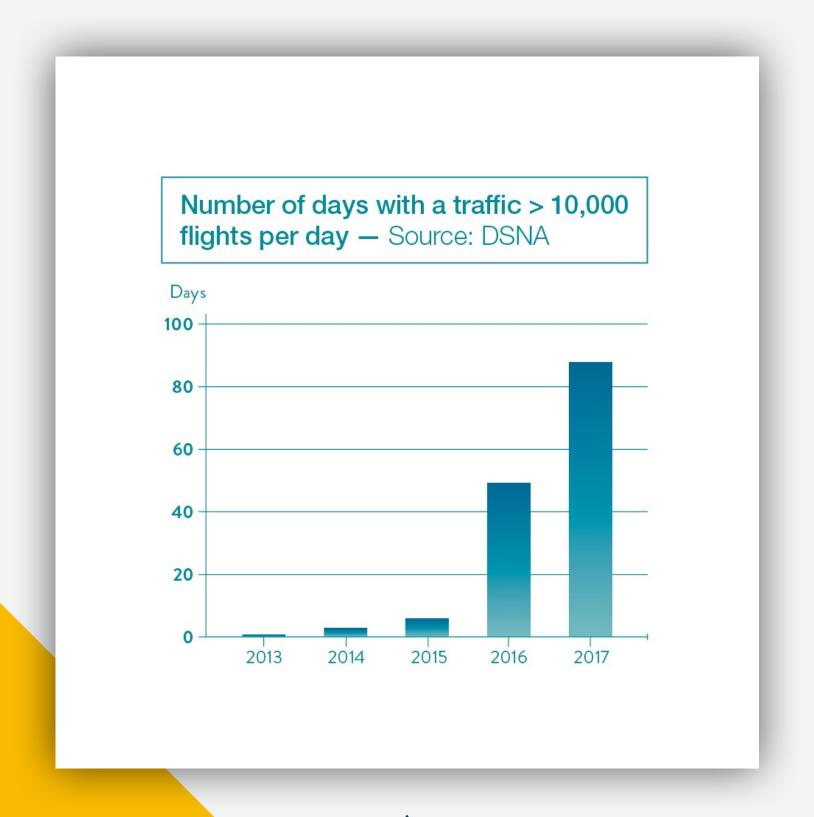
short term solutions to capacity challenge

Erwan PAGEExtended CDM Programme Manager



Demand and Capacity Challenge



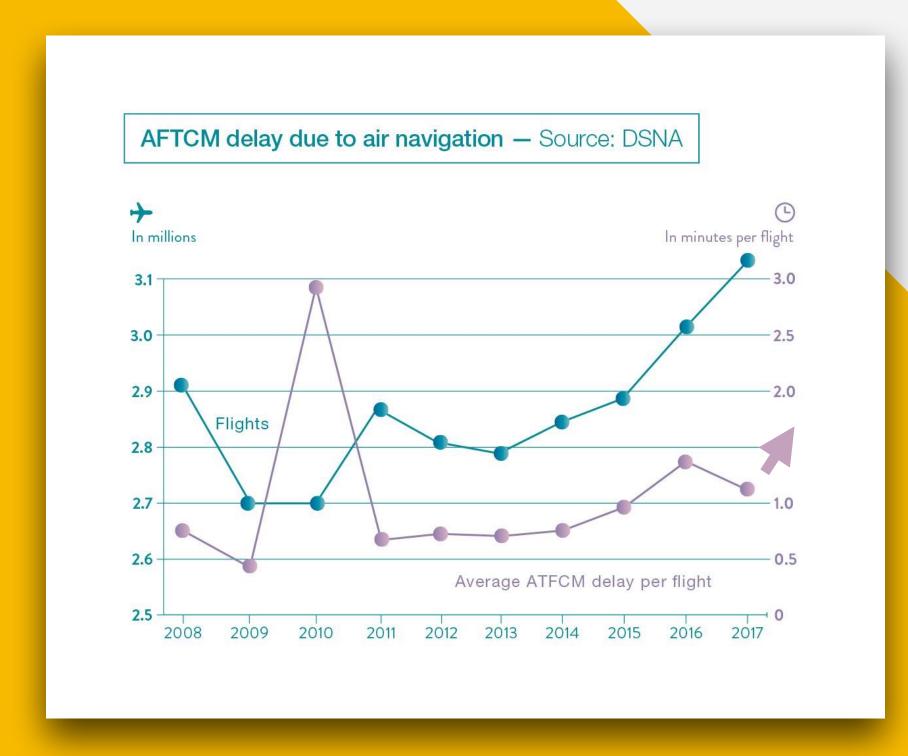


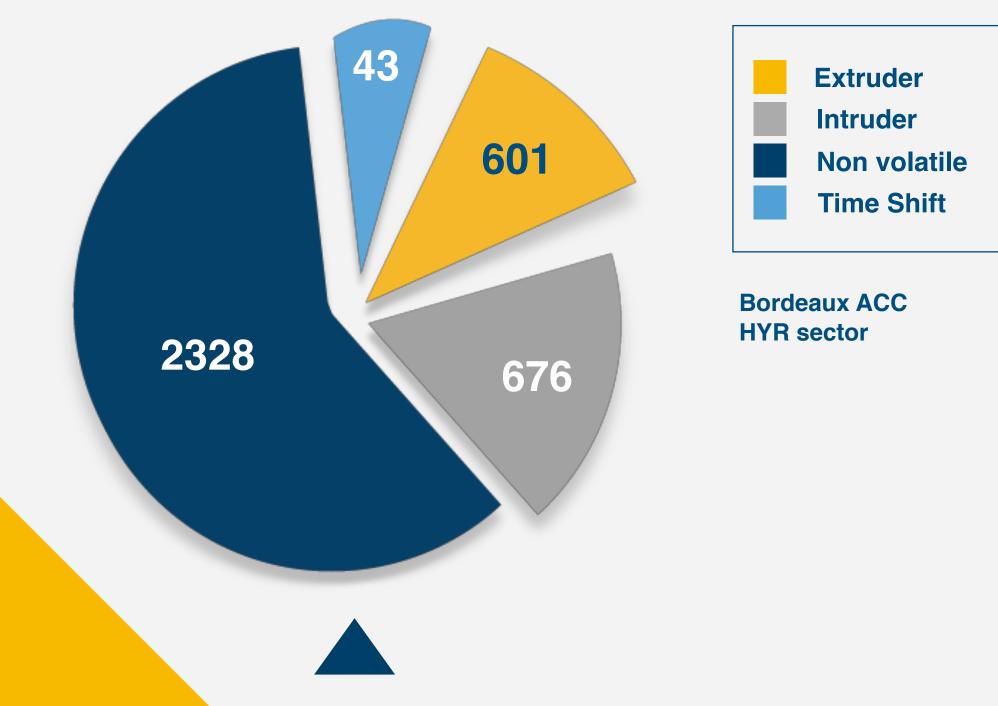
Traffic seasonality:
+6% per year

Traffic peak days > 10 000:

1 to 100 in just 6 years

Demand and Capacity Challenge







Side concern: +40% traffic volatility

> Poor predictability, wasted capacity

Optimising the use of existing capacity is a must to minimise costs



CDM can deliver some short term solutions to improve flow management









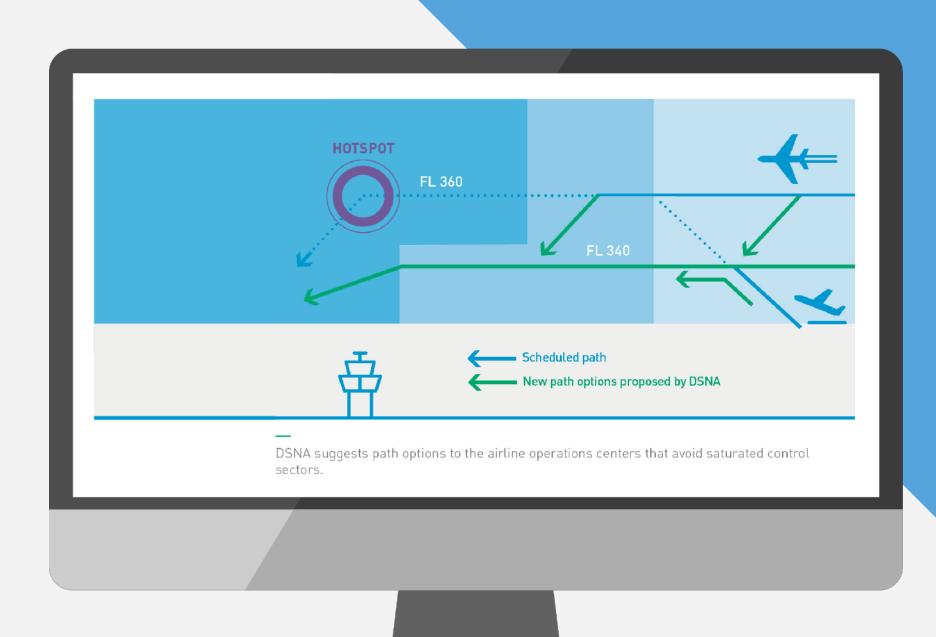
Increasing number of airports connected to the Network

CDM can improve traffic predictability and optimise local operation

CDM@DSNA: En Route



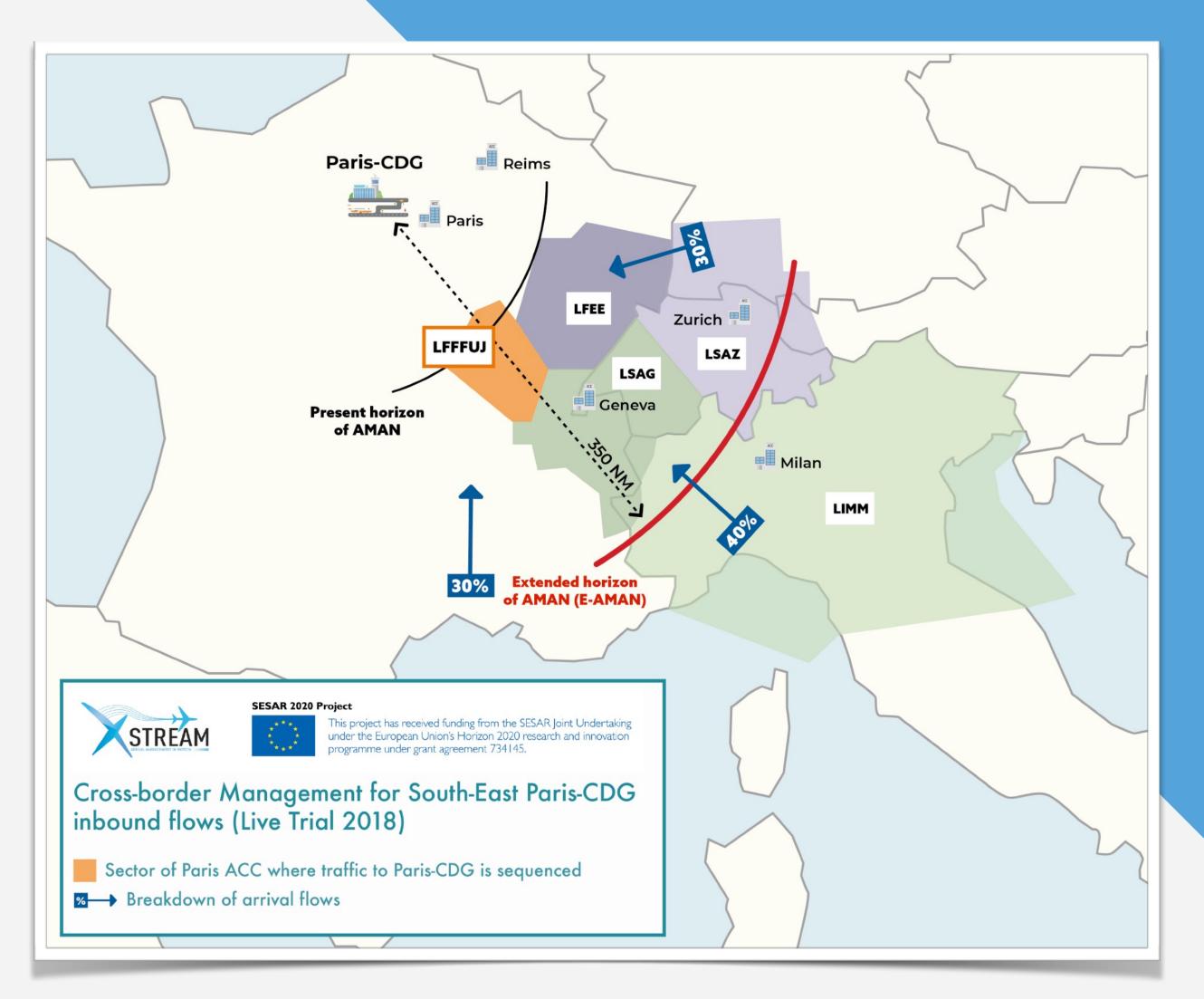
CAP: Collaborative Advanced Planning collaborative process and tool to balance traffic demand and reduce the need for regulations in overloaded sectors



CDM@DSNA: En Route



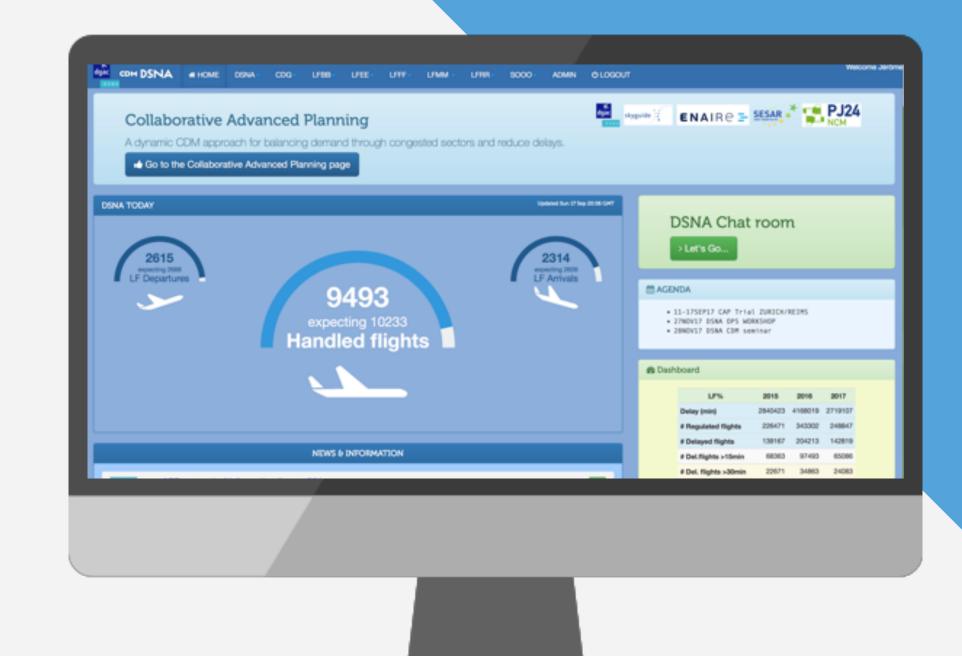
- CAP: Collaborative Advanced Planning collaborative process and tool to balance traffic demand and reduce the need for regulations in overloaded sectors
- Extended Arrival Management (xStream):
 acting on a small number of aircraft to optimise
 arrival management for Paris airports and
 taking into account users' needs



CDM@DSNA: En Route



- CAP: Collaborative Advanced Planning collaborative process and tool to balance traffic demand and reduce the need for regulations in overloaded sectors
- Extended Arrival Management (xStream):
 acting on a small number of aircraft to optimise
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 taking into account users' needs
- for sharing information and supporting early mitigation action: Orly curfew monitoring, dashboards...



Sharing information and decisions with neighbouring ACCs, airports and airlines about En Route hotspots and arrival flow management for Paris



CDM@DSNA: Strategic Level



Strategic investments level of CDM

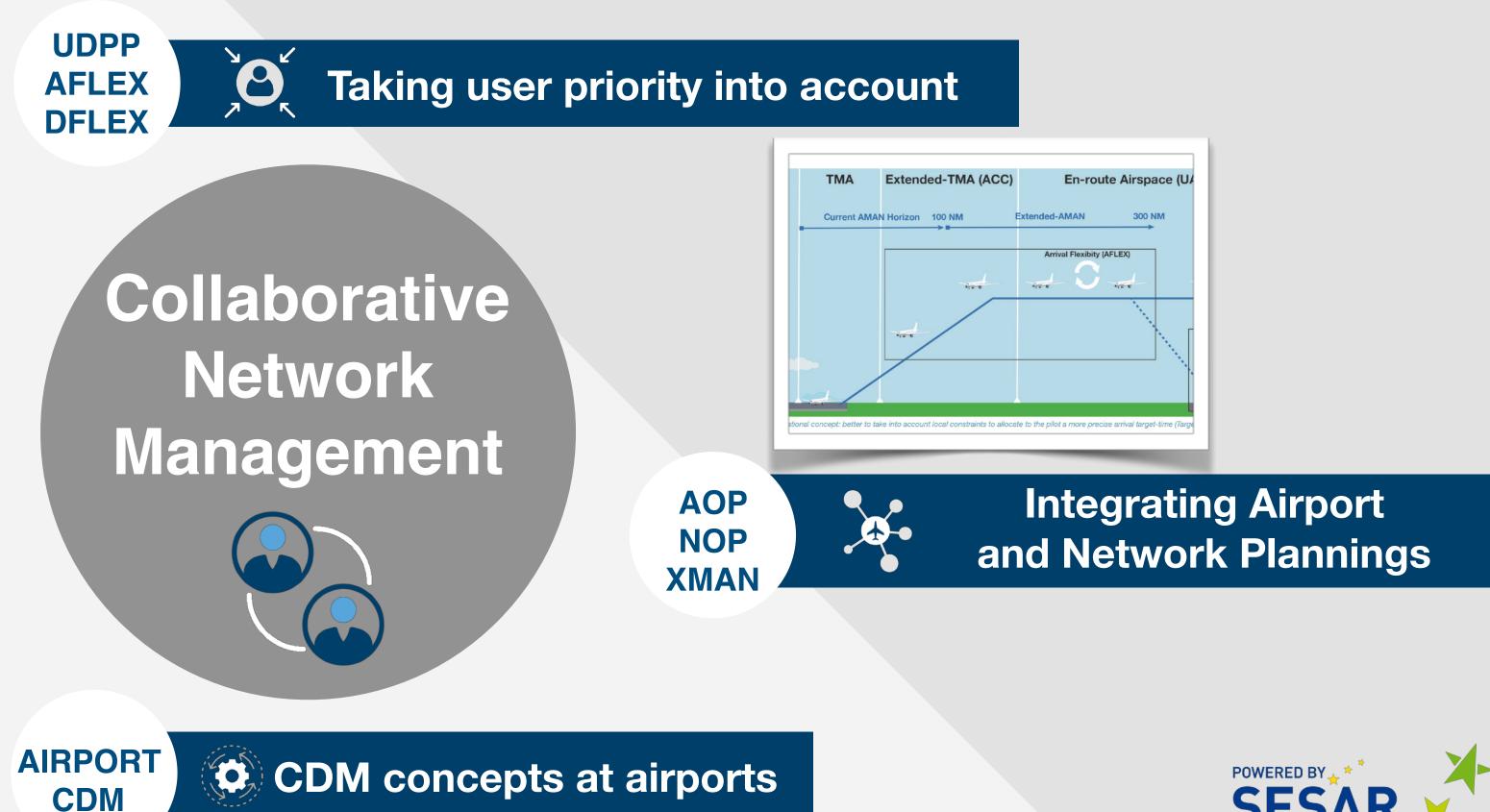
- Airport-CDM Roadmaps
- The French ATM Strategy
- Operational Working Sessions, ATFCM Collaborative Measures
- Seminars CDM@DSNA

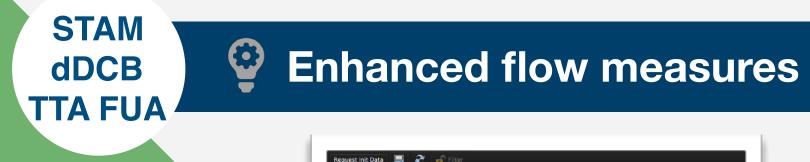
A roadmap of projects to enhance infrastructure, tools and processes

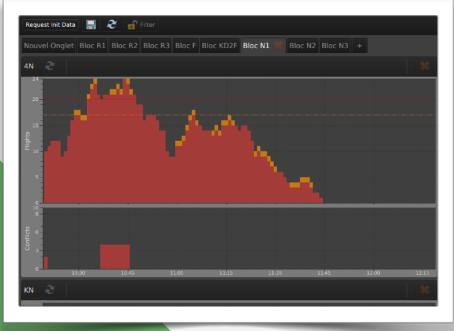
CDM can define frameworks to share strategic targets in order to improve performance and capacity in the medium and long term

Europe: Emerging Concept of Collaborative Network Management

Objectives: more reactivity, more coordination







Europe: Way Forward



+ How to reach these objectives?

- Through technical infrastructure of data sharing: SWIM as a main enabler
- Through operational consistency, transparency and equity: Network Manager as a central coordinator
- Through synchronised deployment ATM roadmap and CEF fundings as facilitating frameworks





Shared objectives + common co-financed projects

More CDM projects can be deployed in the near future





Areas for CDM Improvements



- Collaborative Processes with different actors that have sometimes conflicting needs
- CDM Improvements targets
 Operational issues,
 tools and processes to improve

Conclusion



Our ambition: to extend further CDM within a shared strategy with all concerned partners

How to enhance CDM@DSNA?



Let's identify possible ways forward and opportunities to collaborate on CDM toolbox enhancement for a more efficient service

Debate

How aligned are our views?

What are the airspace users' needs and expectations?





Workshops: some items for discussion

- 1. UDPP to minimise cost impact
- 2. Improved predictability with airlines' support
- 3. Collaborative flight planning with airlines and CFSP
- 4. Enhanced MET support for ATM
- 5. AOP/NOP integration and APOC concept
- 6. Crisis management tools
- 7. Collaborative ASM with Air Defence
- 8. Sub regional collaboration of dDCB measures / global optimum vs local optimum
- 9. Post-Operations services
 - What else would you like to address?