



CDM@DSNA NM Performance Review

Iacopo Prissinotti

Director Network Management

EUROCONTROL

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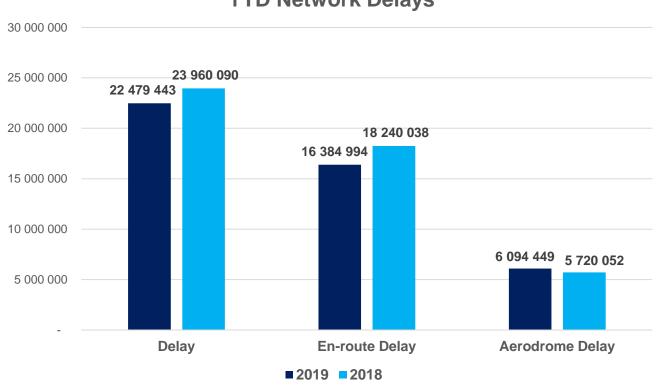


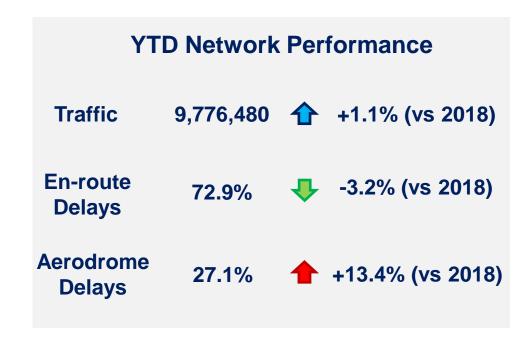


YTD Network Performance

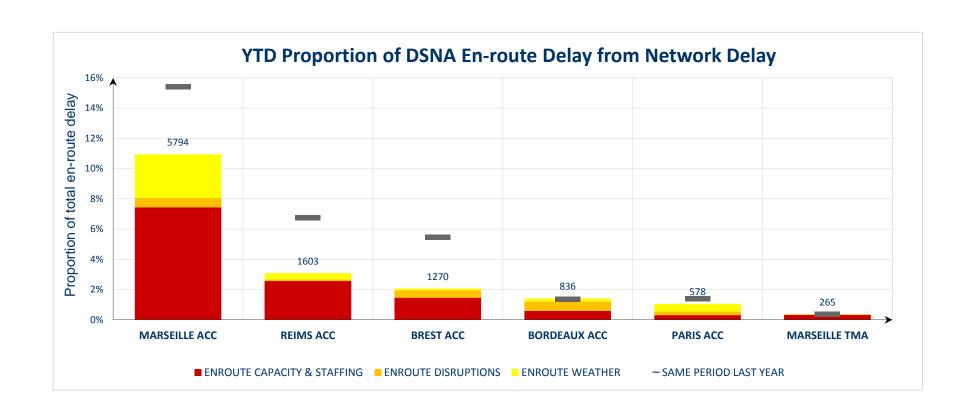


YTD Network Delays









Traffic

- > Growth above average in Marseille and Brest
- > Fewer flights in Reims eNM/S19 objective
- > Stable in other ACCs

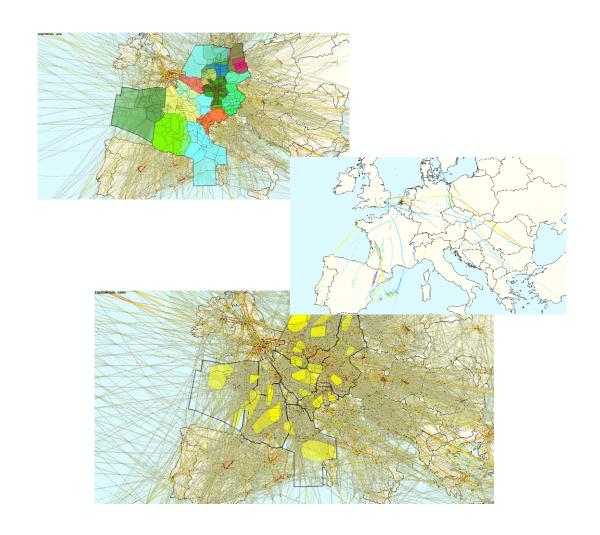
Delays

- > DSNA delays reduced
- Delay reduction of a third in Marseille fewer strikes and thunderstorms.
- > Reduction of over half the delays in Reims and Brest.

DSNA Strategic Contributions to the Network

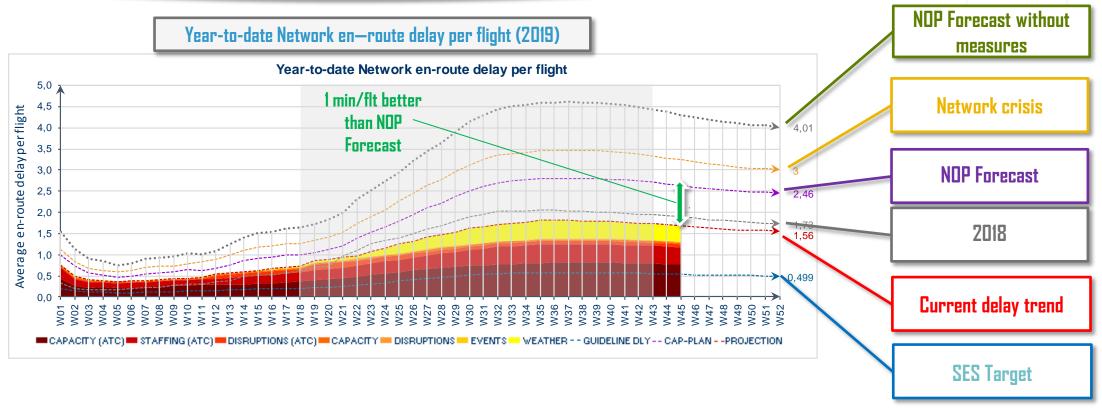


- Active participation in the FABEC Airspace Re-configuration Project
 - Further adaptations of existing projects required
 - Full exploitation of the FRA potential strongly recommended
- Beneficiary of the eNM/Summer 2019 measures
 - Further measures required in 2020 for Reims and Marseille ACCs
- Higher delivery in 201 than original planned
 - Further efforts required in the coming years
- Good cooperation with NM on airspace design matters
- Good cooperation with NM on Flexible Use of Airspace
- Close cooperation expected on Operational Excellence
- Active DSNA participation in all NM Working arrangements



2019 performance to date - Network Capacity





- En-route delays to-date 1.71 min/flight
- En-route delays to-date (per flight) 36% lower than the NOP forecast for 2019
- En-route delays to-date (per flight) 12% lower than in 2018
- 1.2% traffic growth since the beginning of the year

Summer 2019 main takeaways



Summer 2019 operations are proceeding better than expected, thanks to several factors, among which:



Implementation of measures stemming from the NM seven initiatives campaign



Enhanced coordination with operational Stakeholders



Fewer industrial actions



Better procedures for network management and weather conditions



Measures should be maintained also in Summer 2020 in order to continue to improve operations performance. This will generate benefits for the whole Network guaranteeing economic benefits for Airlines in the short term.

NM measures will facilitate the transition towards a structured approach to reach an agile and scalable ATM Network.

Better summer season

- less delay for a vast majority of ANSPs
- stable situation
- less volatility and increased predictability
- sufficient time available to react to unforeseen situations

- Measures proved to be efficient and most of them will be re-conducted
- Unexpected high delays in Hungary and Austria
- Delay reattribution important
- Better performance than expected for DFS and DSNA

The Outlook

The 2019 Seven Initiatives campaign

Need for enhanced operational stakeholders
Network perspective





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cechnological gaps





....ucucal ATFM

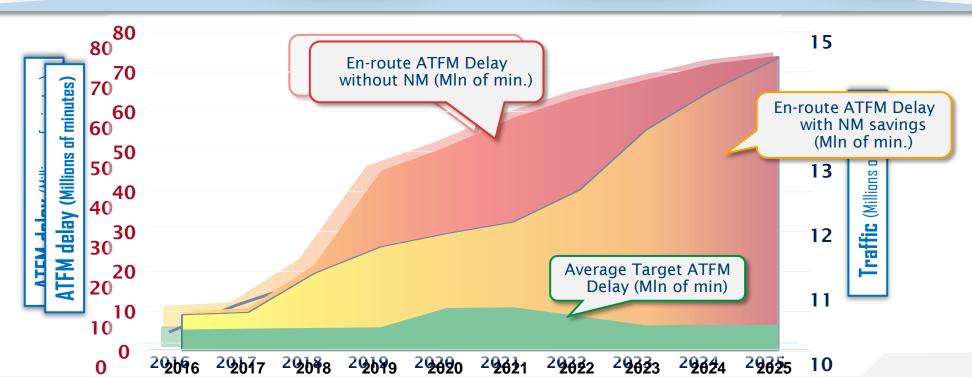
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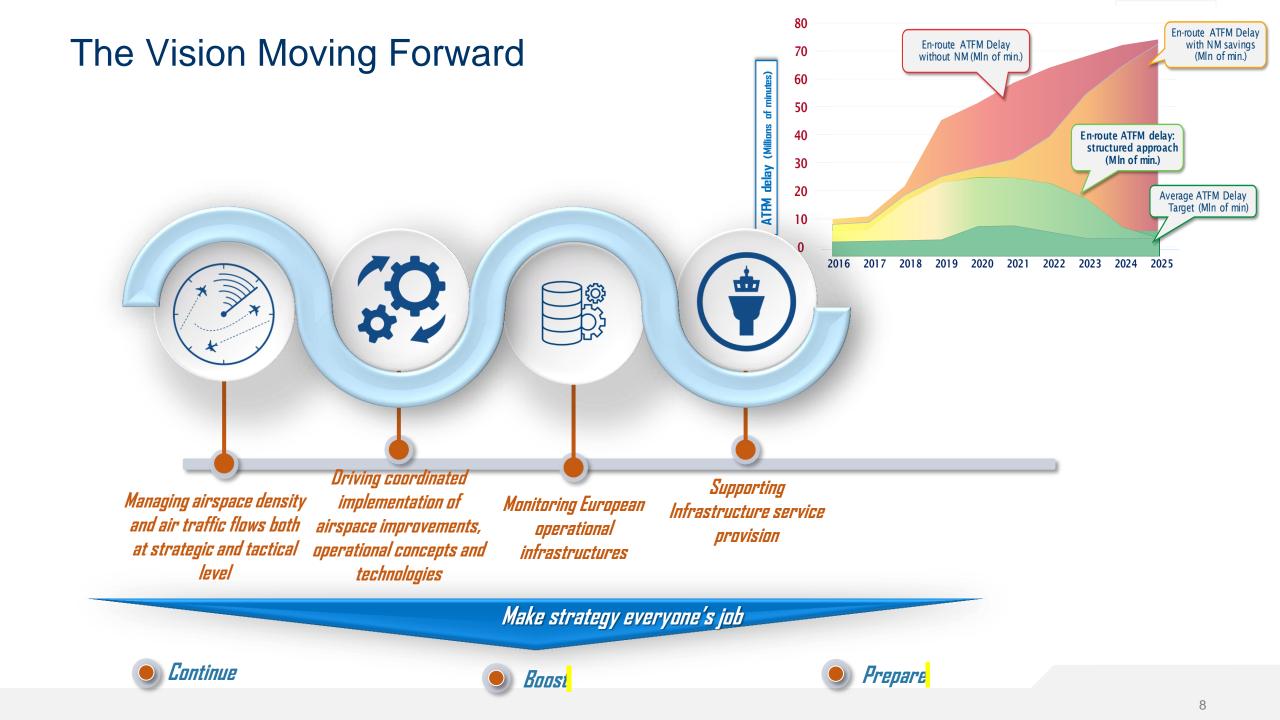
Need to Continue & Boost

Short-term Benefits

Need in Network decision making process

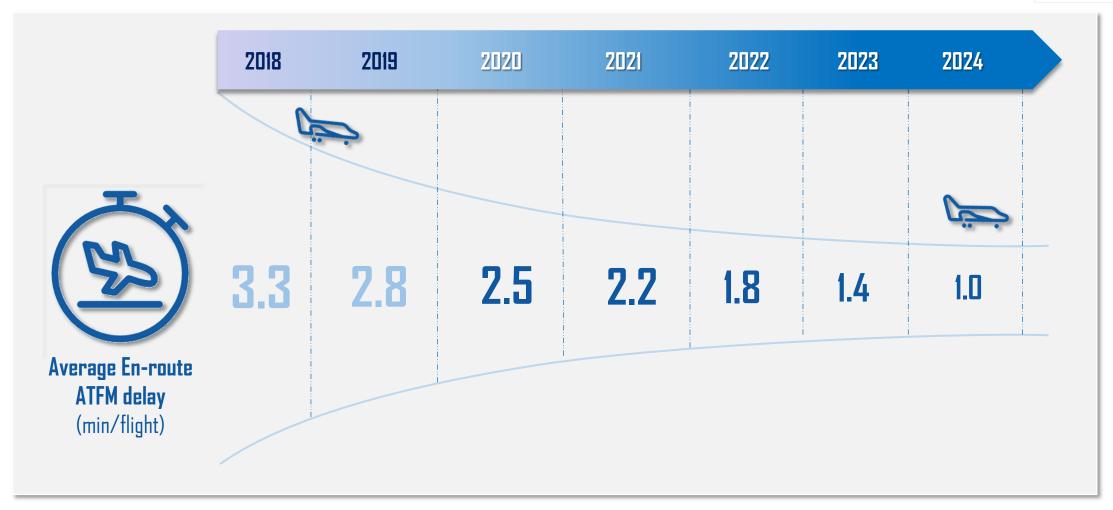
Main issues





Performance Delay Targets Summer Period





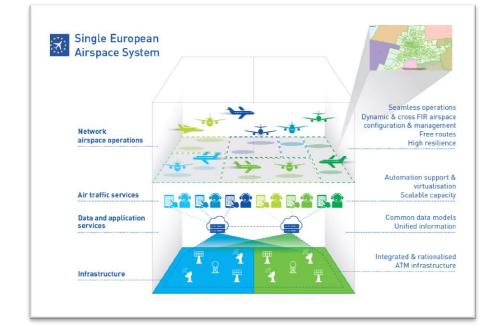
Airspace Architecture Study Transition Plan





- ECAC-wide implementation of cross-border Free Route, airground and ground-ground connectivity
- Launch airspace re-configuration supported by Operational Excellence Programme
- Set up an enabling framework for ADSP, capacity-on-demand service and rewards for early movers, first ADSP is certified
- Implement virtual centres and dynamic airspace configuration at large scale
- Gradual transition towards higher levels of automation supported by SESAR Solutions
- Capacity-on-demand arrangements implemented across Europe
- New ATM Data service provision model is implemented across Europe

- Transformation to flight/flow centric operations
- Trajectory-based operations
- Service-oriented air traffic management



Conscious of the urgency to act to address the capacity challenge, this transition plan focuses on key measures that need to be implemented in the period 2020 to 2025 to bring us on the right track with regards to the full implementation of the AAS.

AAS Implementation: NM\Operational Stakeholders Action Line for 2024 Timeframe





Operational excellence

- Harmonisation of the implementation of new operational concepts, technologies, connectivity and interoperability
- Improvement of ATFM, A-FUA, weather and operational procedures practice in the network
- Streamlining ATCOs training and recruitment
- Improved Ops usage of air traffic controllers:
 - Rostering and Cross-border sectorisation
- eNM implementation only for hotspots
- Focus on very un-punctual flights
- Monitor and resolve volatile traffic (ATC issue)
- Bringing ATC sectors throughput to best in class



Airspace restructuring

- Seamless airspace structures
- Cross-border Free route implementation
- Accommodating civil and military users' operational needs
- Optimised TMA connectivity
- Optimised sectorization
- Addressing airspace top 10 critical bottlenecks between 2020-2022
 - Main airspace restructuring projects: Croatia Germany
 Cyprus Spain Netherlands France Greece –
 Austria Hungary Romania Bulgaria

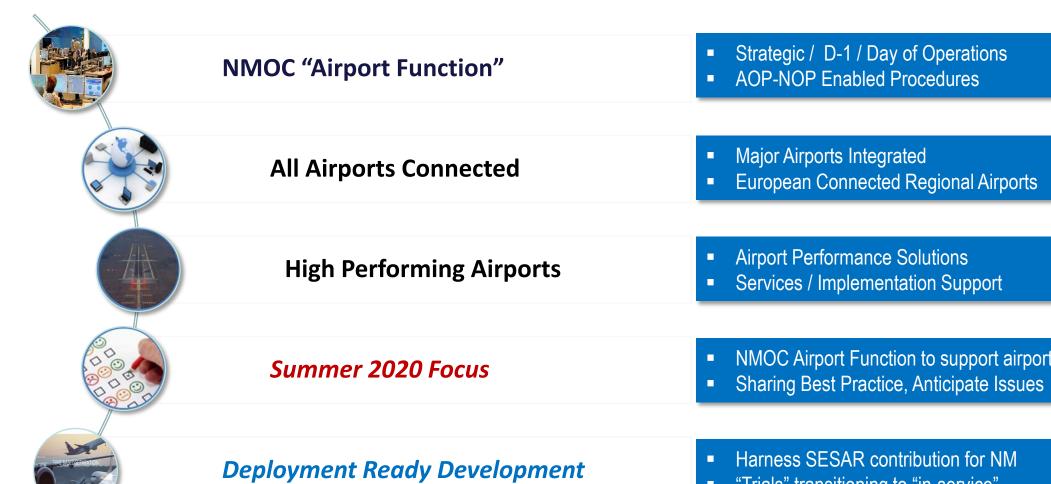
Focus on 10 Hot Spots for Implementation





Airports as a Component Part of the Network





Strategic / D-1 / Day of Operations

On Time Performance

European Connected Regional Airports

Predictability Services

Services / Implementation Support

Operational Improvement

NMOC Airport Function to support airports

On Time

Performance

Harness SESAR contribution for NM

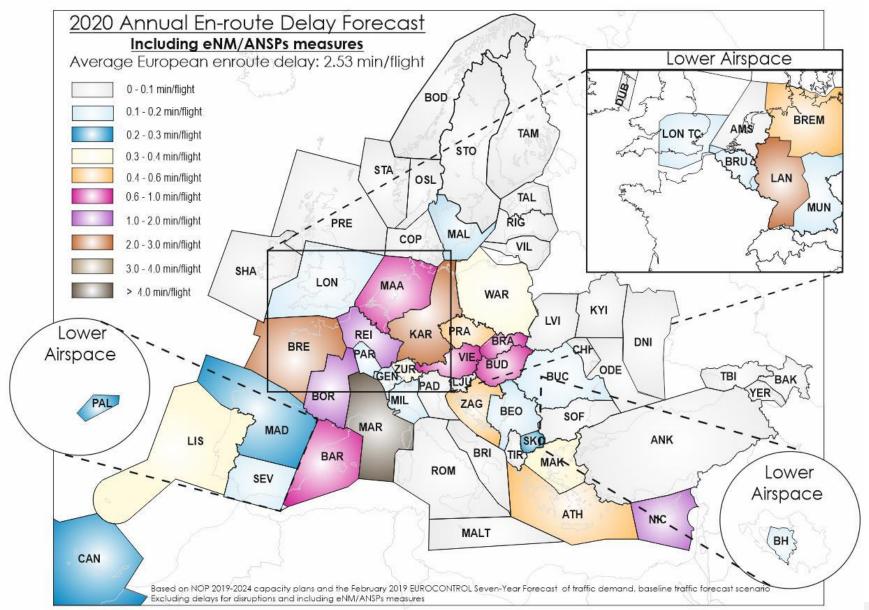
"Trials" transitioning to "in-service"

Time to Market

13 enter your presentation title

2020 Delay forecast – with eNM/ANSPs measures





Traffic forecast Feb 2019 - Base Capacity plans NOP 2019-2024

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EUROCONTROL/NM Action Plan 2020





airspace users needs

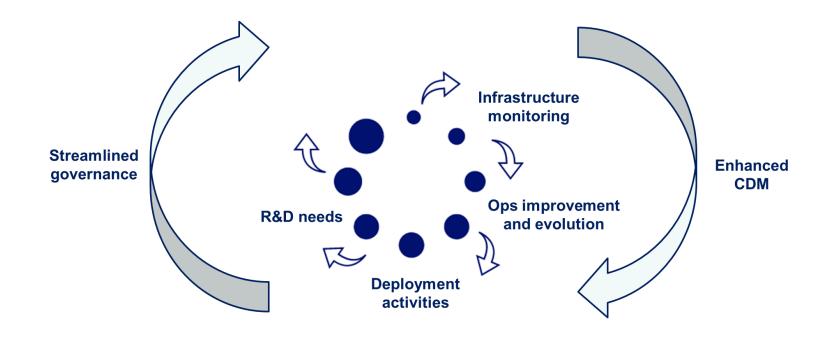
applicability of the measures

implementation

Performance

Network CNS Infrastructure Monitoring & Common Services





Further improved support to deployment cooperation

SDM - Early partnering: DLS, ADS-B, Sharing of Monitoring data, PCP/CP1 review, ...

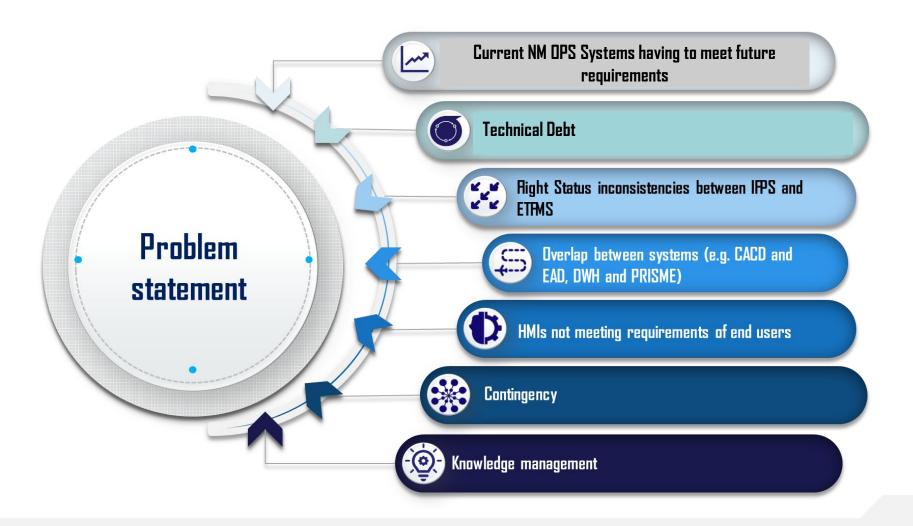
Work in Progress: New Partnership with Airspace Users, ANSPs & Airports

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NM System Modernisation (iNM)



The iNM Program has been launched in order to solve identified problems, highlighted as follows:



Strategic View for iNM

Technology as an enabler to deliver new and better services





iNM shall allow to **optimise** and **transform** the European ATM business



Support the new concept of operations including SESAR



Introduce **artificial intelligence and automation** in real time business processes, augmenting human capabilities and supporting an informed decision-making



Be a **flexible and agile platform** allowing smooth and efficient processes, and integrating with external stakeholders via interoperability standards



Allow for the expansion, provide services and/or platforms



Allow to **transform the APIs** in the new NM assets, to explore new business opportunities and to be a true actor in the digital market

Not only do better, but do differently, bringing more value – A leap to be taken by business and tech together!



Partnering together to make strategy everyone's job



