



SAFE SKIES.
**SUSTAINABLE
FUTURE.**



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**The need for ATFM—Airspace Users' perspective
and cross-border ATFM solutions**

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Why do ATFM?



ATFM brings predictability.



ATFM using Collaborative Decision Making (CDM) enables stakeholders to better manage airspace.



Major enabler of safety, efficiency, cost-effectiveness and environmental sustainability of the ATM system.



States, Regions and ANSPs are encouraged to adopt and implement ATFM/CDM reflective of the operational needs of AUs and ATS providers.



Performance monitoring of a FPL database, and evaluating the balance between demand and capacity will provide users with the ability to improve trajectory forecasts and provide more accurate and consistent end to end 4D trajectories.

Airline Benefits from ATFM

- Accurate and common picture
- Shift the delay from airborne holding to ground delay or airborne adjustment
- Reduced fuel burn
- Increased predictability of operations
- Ability to change or swap slots
- Broader collaboration and autonomy for business decisions
- Enhanced safety due to reduced congestion
- Environmental savings





Challenges

- Capacity assessments and constraints
- Differing rules for FPL cut-off times
- Differing requirements for FPL content
- Resolving competing delay measures
- Issues re reliability of EETs (both airline and ATC causes)
- Difficulties complying with CTOTs due OTP requirements
- Integration of international flights into domestic GDPs
- Non-compliance or non-participation

ATFM going forward

- Support regional framework expectations from the ICAO concept
- Asia-Pacific Multi-Nodal ATFM Cooperation (AMNAC) – supporting expansion of cross-border ATFM
- Expand to cross-regional programs (eg: AMNAC and NAHRAG)
- Priority is interoperability rather than concept harmonization of the various ATFM programs
- Aim to have maximum participation of flights
- Long-Range ATFM



ATFM going forward

- System-to-system connection
- Common formats – agreed final XML version + Asia/Pac extension
- ATFM data exchange over common paths (eg: CRV)
- Requires Business Rules and strict Governance
- Cyber Security
- Regular performance reviews





Continued Improvements

- Greater equity in airspace access
- Greater access to timely and meaningful information for decision support
- More autonomy in decision making, including strategic and pre-tactical congestion management
- Ability to better deliver business and individual outcomes

Thank You

