



SAFE SKIES.
**SUSTAINABLE
FUTURE.**



ICAO APAC/MID ATFM-FF-ICE Seminar 2025

Dubai, UAE, 23 – 26 February 2025

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EUROCONTROL NM Implementation of FF-ICE
and Lessons learned



1

European NM implementation

2

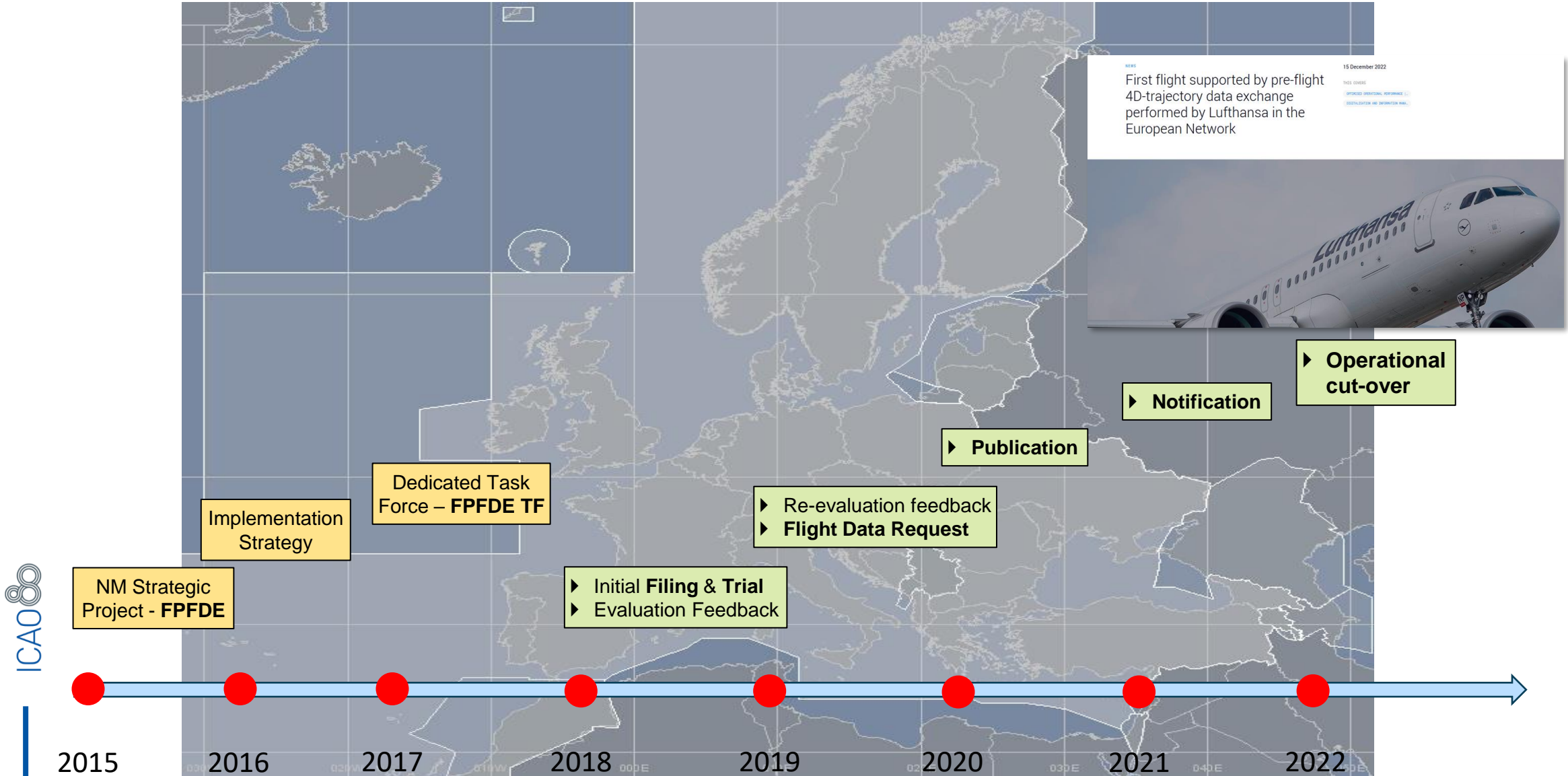
Challenges and lessons learned

3

Mixed mode and transition operations

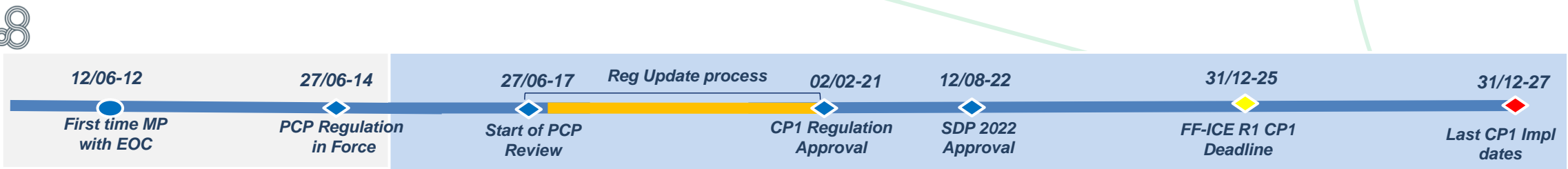
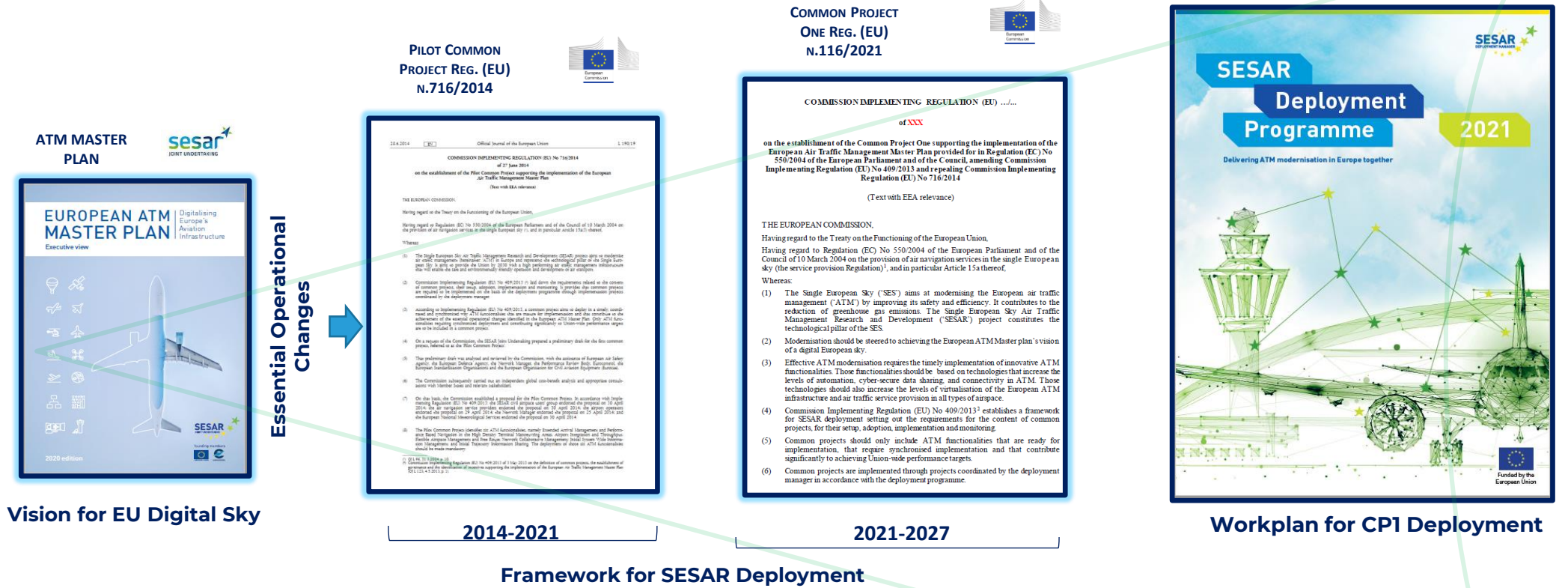


European Network Manager Implementation



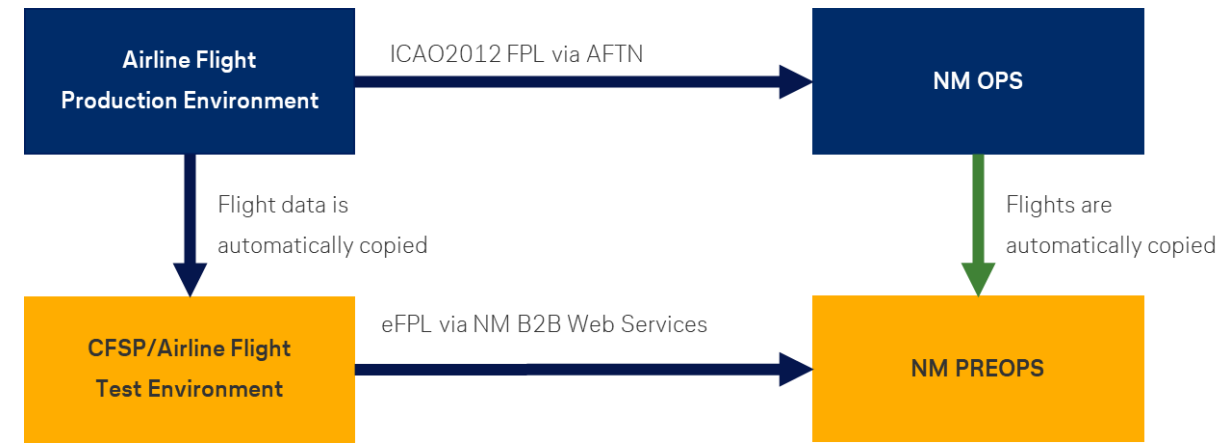
Regulatory framework

Developed and consulted by all stakeholders

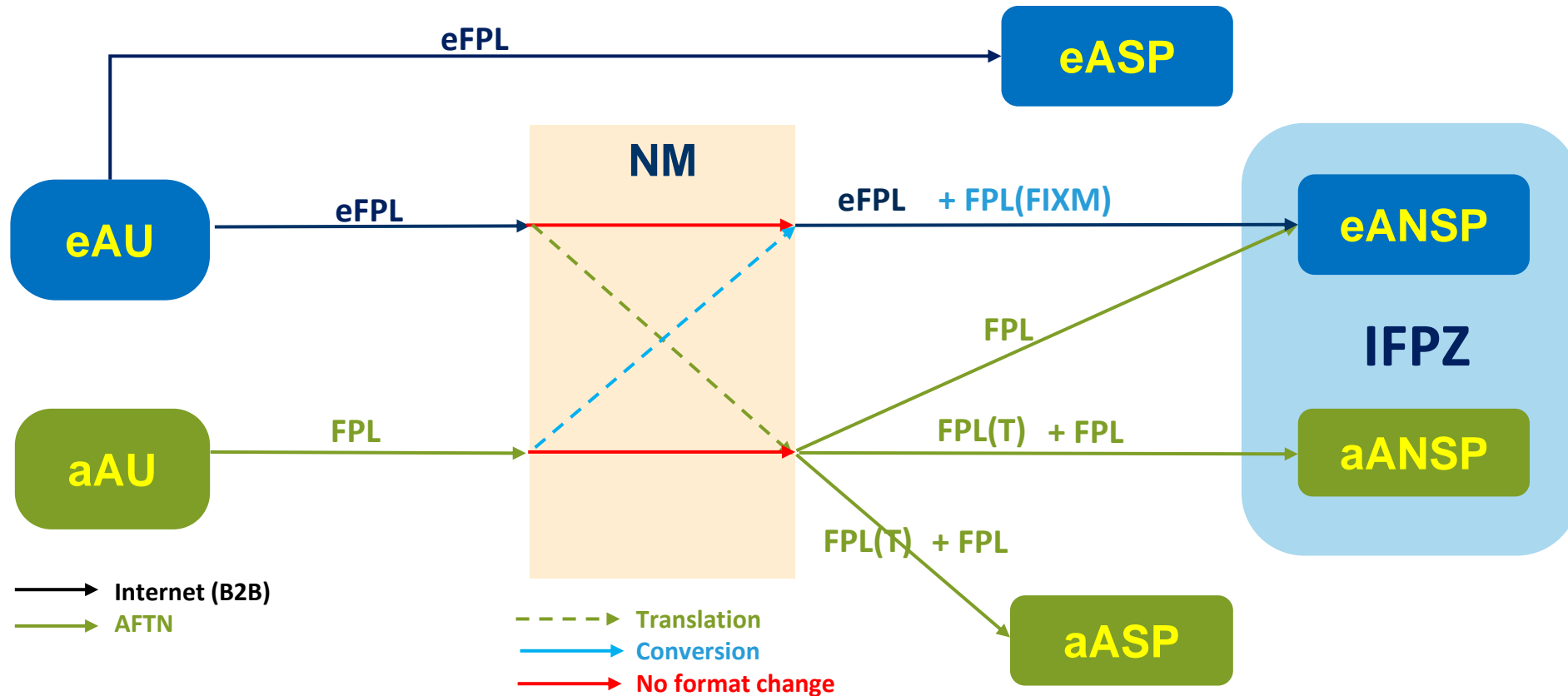


Challenges and lessons learned

- Attract main players
- Education through discussions
 - Guided by use cases and scenarios
- Address identified concerns
 - Promote collaboration for solution finding
- Implement test & development platform (mirroring OPS)
- Transition measures and mixed mode operations
 - NM to support until FPL2012 sunset date



Mixed mode and Transition operations



- NM implemented FF-ICE while supporting FPL2012 over AFTN/AMHS
 - Translation of FF-ICE FPLs to FPLs and distribution via AFTN/AMHS to non-migrated ANSPs
 - Allows to decouple the migration of the AUs from the migration of ANSPs
 - Predictability improvements already expected by the AUs migration
 - Allows for a smooth and progressive migration of all actors

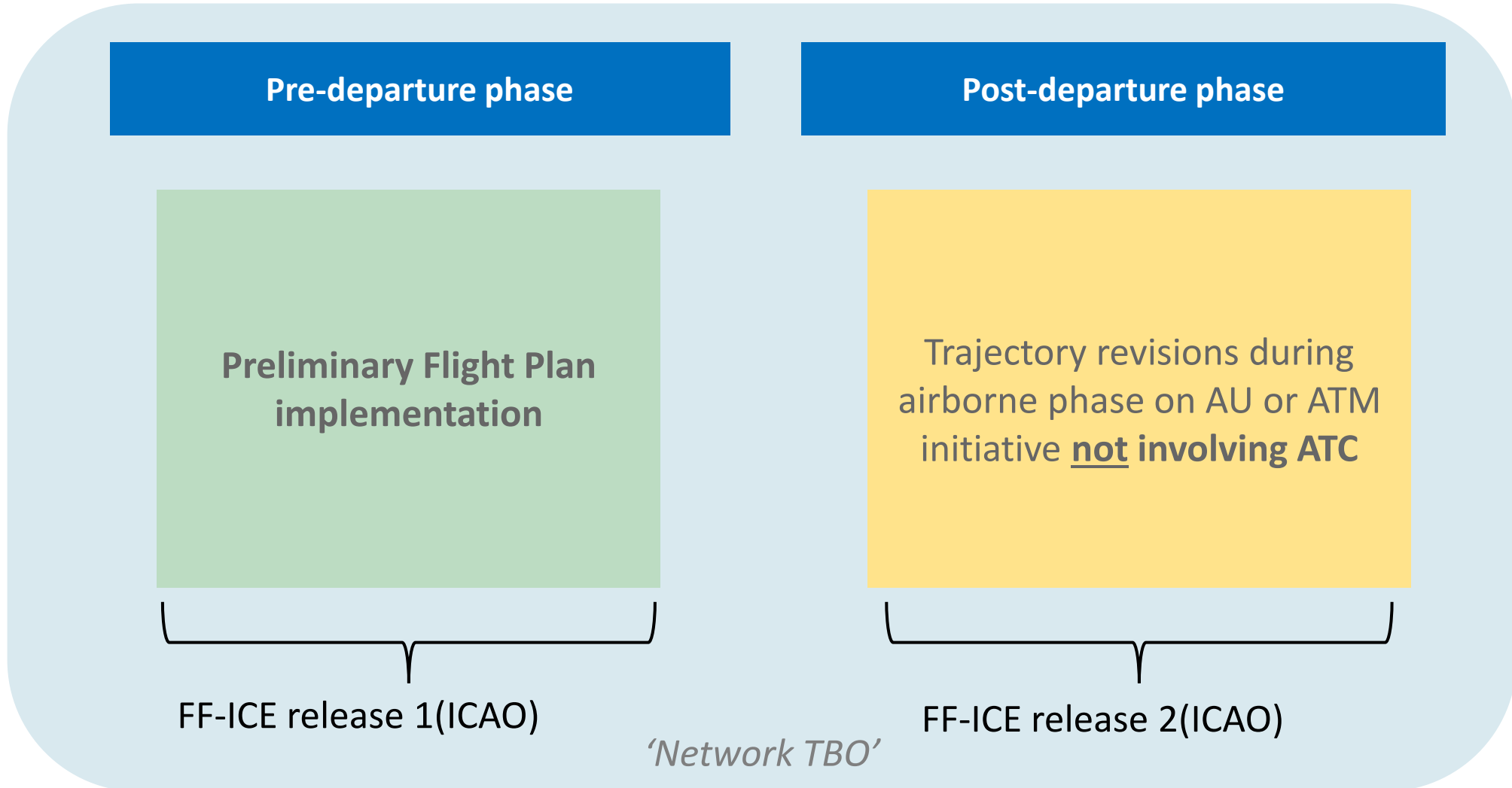
Mixed Mode (1)

Input message type	ICAO 2012 flight plan	FF-ICE flight plan
FPL	- No change	- Reject FPL
CHG	- No change (- Process message; Integrate into existing FPL data)	- Process message - Integrate into existing eFPL data
DLA	- No change (- Process message; Integrate into existing FPL data)	- Process message - Integrate into existing eFPL
CNL	- No change (Cancel flight plan)	- Cancel flight plan

Mixed Mode (2)

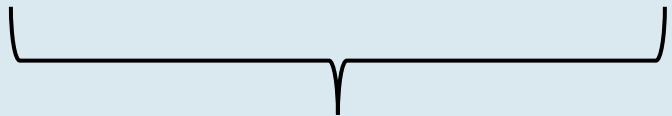
Input message type	ICAO 2012 flight plan	FF-ICE flight plan
eFPL	<ul style="list-style-type: none"> - Process, even if from different originator - Update FPD with eFPL data, including GUF1 - The resultant FPD becomes eFPL (FF-ICE) 	<ul style="list-style-type: none"> - Reject eFPL
eFPL Update	<ul style="list-style-type: none"> - Process - Update FPD with eFPL data, including GUF1 - The resultant FPD becomes eFPL (FF-ICE) 	<ul style="list-style-type: none"> - Process - update eFPL data
eFPL Cancel	<ul style="list-style-type: none"> - Cancel flight plan 	<ul style="list-style-type: none"> - Cancel flight plan

Future Developments



Pre-departure phase

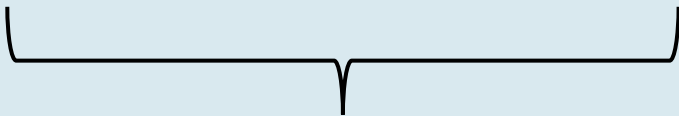
Preliminary Flight Plan implementation



FF-ICE release 1(ICAO)

Post-departure phase


Trajectory revisions during airborne phase on AU or ATM initiative not involving ATC



FF-ICE release 2(ICAO)

'Network TBO'

Documentation

- *The IFPS Users Manual*
(<https://www.eurocontrol.int/publication/ifps-users-manual>)
 - *NM B2B Reference Manual*
(<https://ost.eurocontrol.int/sites/B2BWS/default.aspx>)
 - *FPFDE NFPM Implementation Guidelines*
(<https://www.eurocontrol.int/publication/fpfde-nfpm-implementation-guidelines>)
 - *Implementation Strategy for FPFDE NFPM* (<https://www.eurocontrol.int/publication/implementation-strategy-fpfde-nfpm>)
- ICAO  Dedicated FF-ICE website
(<http://www.eurocontrol.int/ffice>)



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Thank You

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