



SAFE SKIES.
**SUSTAINABLE
FUTURE.**



ICAO APAC/MID ATFM-FF-ICE Seminar 2025

Dubai, UAE, 23 – 26 February 2025

AEROTHAI's and APAC's Key Lessons Learned

Amornrat Jirattigalachote, PhD

Expert (Director Level)

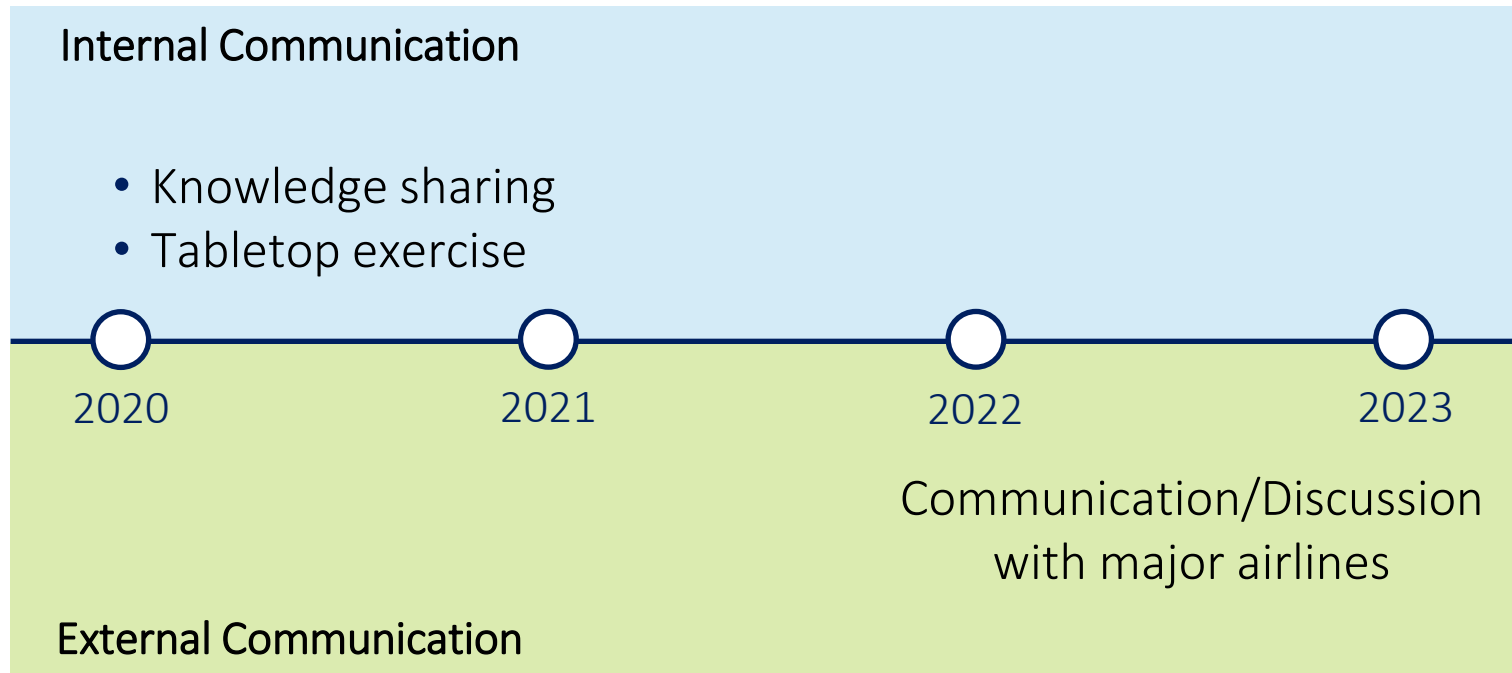
Corporate Strategy and Sustainability Office

AEROTHAI

AEROTHAI's Key Lessons Learned



Early Communication

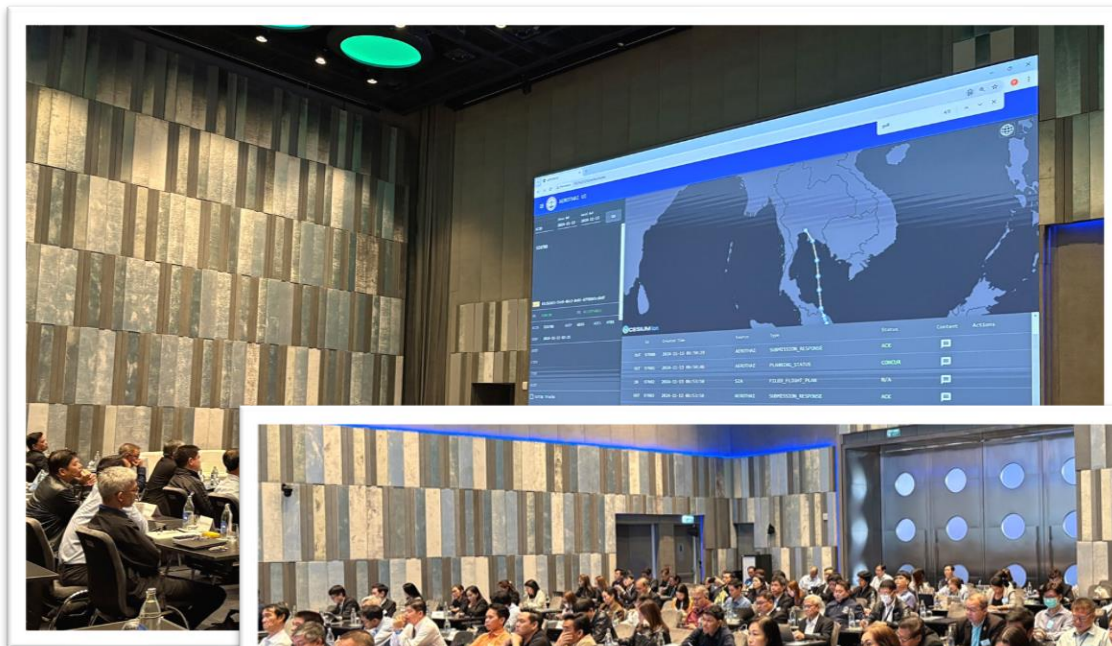


Thailand FF-ICE Workshop – November 2024

- Participants
 - » Airlines, e.g. Thai Airways, Bangkok Airways, Thai Air Asia, etc.
 - » Airport operators
 - » Regulator



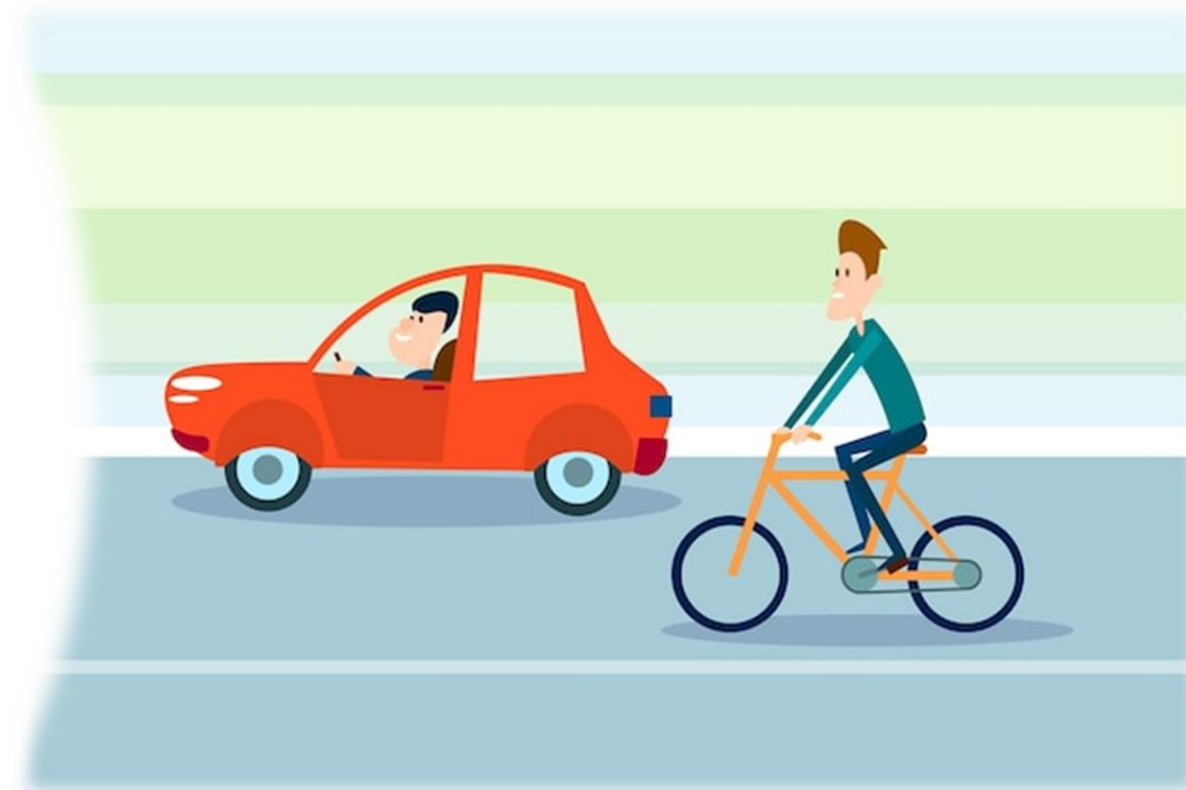
Thailand FF-ICE Workshop – November 2024



- Objectives
 - » To communicate AEROTHAI status and plan
 - + To achieve AN-Conf/14 recommendation on cessation of FPL2012
 - + Towards TBO
 - » To create/reinforce understanding of FF-ICE/R1 services
 - » To kick start discussion on airlines' preferred FF-ICE/R1-related ops procedures
- Tools
 - » FF-ICE scenario demonstration using AEROTHAI's FF-ICE prototype
 - » Guided discussion

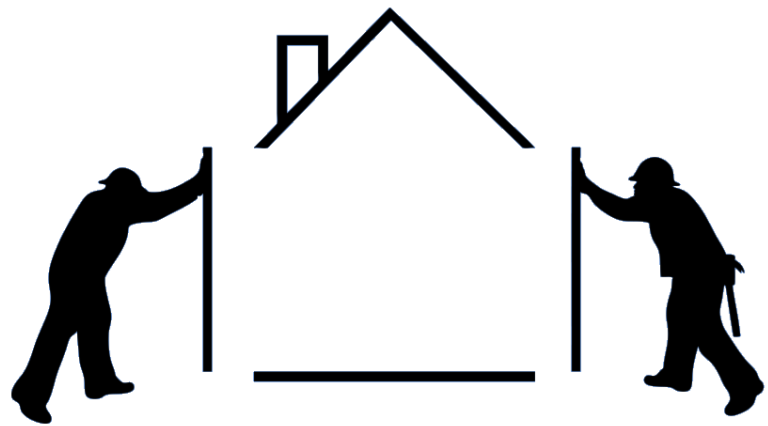
AEROTHAI's Key Lessons Learned

- Flight data management system upgrade
 - » Technical capabilities
 - » Support for other airspace users, apart from commercial airlines
- Upskill/reskill of FDMC personnel
 - » Replace manual process with automation
 - » Long-term manpower planning
- Integration with ATFM process



From Mixed-Mode to Full FF-ICE Operation

AEROTHAI's Key Lessons Learned



Participation in
Global/Regional Activities



- Early engagement
- In-dept technical discussion
- Firsthand experience



- FF-ICE/R1 Lab Demonstration – July 2025



- ICAO APAC FF-ICE Ad-Hoc Group
2nd Meeting and Workshop
18 – 20 March 2025

APAC's Key Lessons Learned



ICAO APAC FF-ICE Ad-Hoc Group

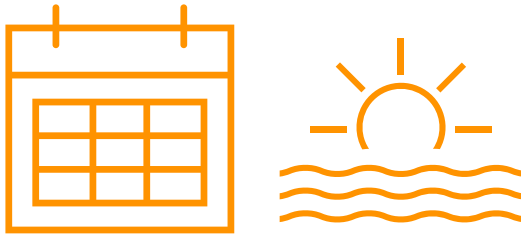


- Successful development
- Lessons learned
- Use cases/business cases

- APAC regional FF-ICE ops requirements/processes/procedures
- Capabilities guidance for mixed-mode environment
- APAC regional implementation strategy
- Recommendation for APAC Seamless ANS Plan

- ICAO APAC SWIM TF
- ICAO ATMRPP

APAC's Key Lessons Learned

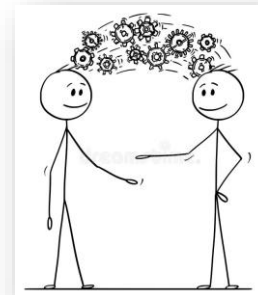


Harmonized Regional Implementation



APAC Seamless ANS Plan, v4.0, Nov 2024 Phase V 23 Nov 2028

- FICE-B2/2 Filing service
- FICE-B2/4 Flight data request service



(Draft) Regional FF-ICE Implementation Framework

- Ops requirements/processes/procedures
- Technical consideration

APAC's Key Lessons Learned

Harmonizing FF-ICE Business Processes and Rules

WHY



eAUs

Ensure operational consistency & flexibility for eAUs



eASPs

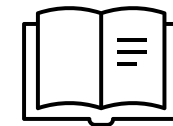
Streamlined operations for eASPs

HOW

Subsequent discussions to determine procedures and operational requirements for FF-ICE/R1 scenarios



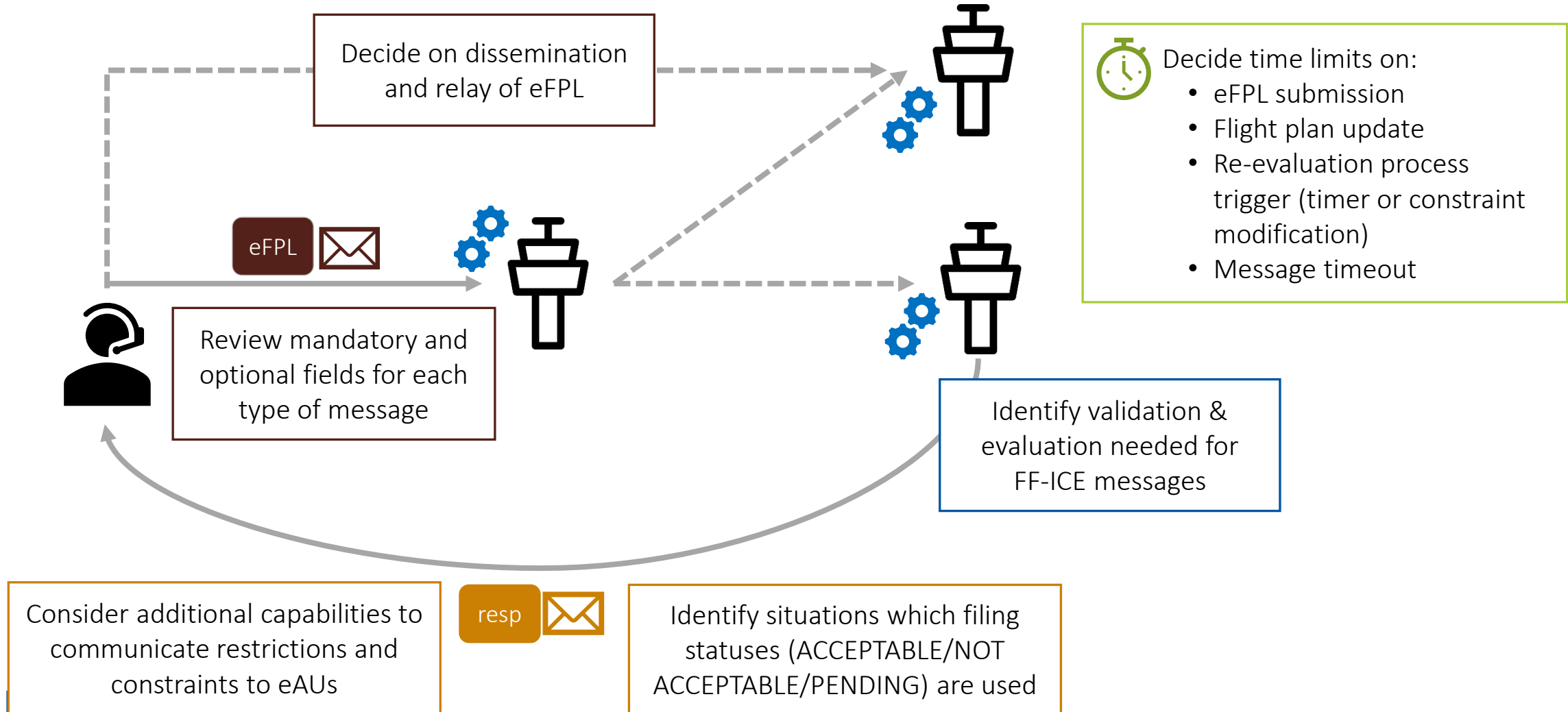
SWIM experts & other stakeholders



Alignment with implementation guidance

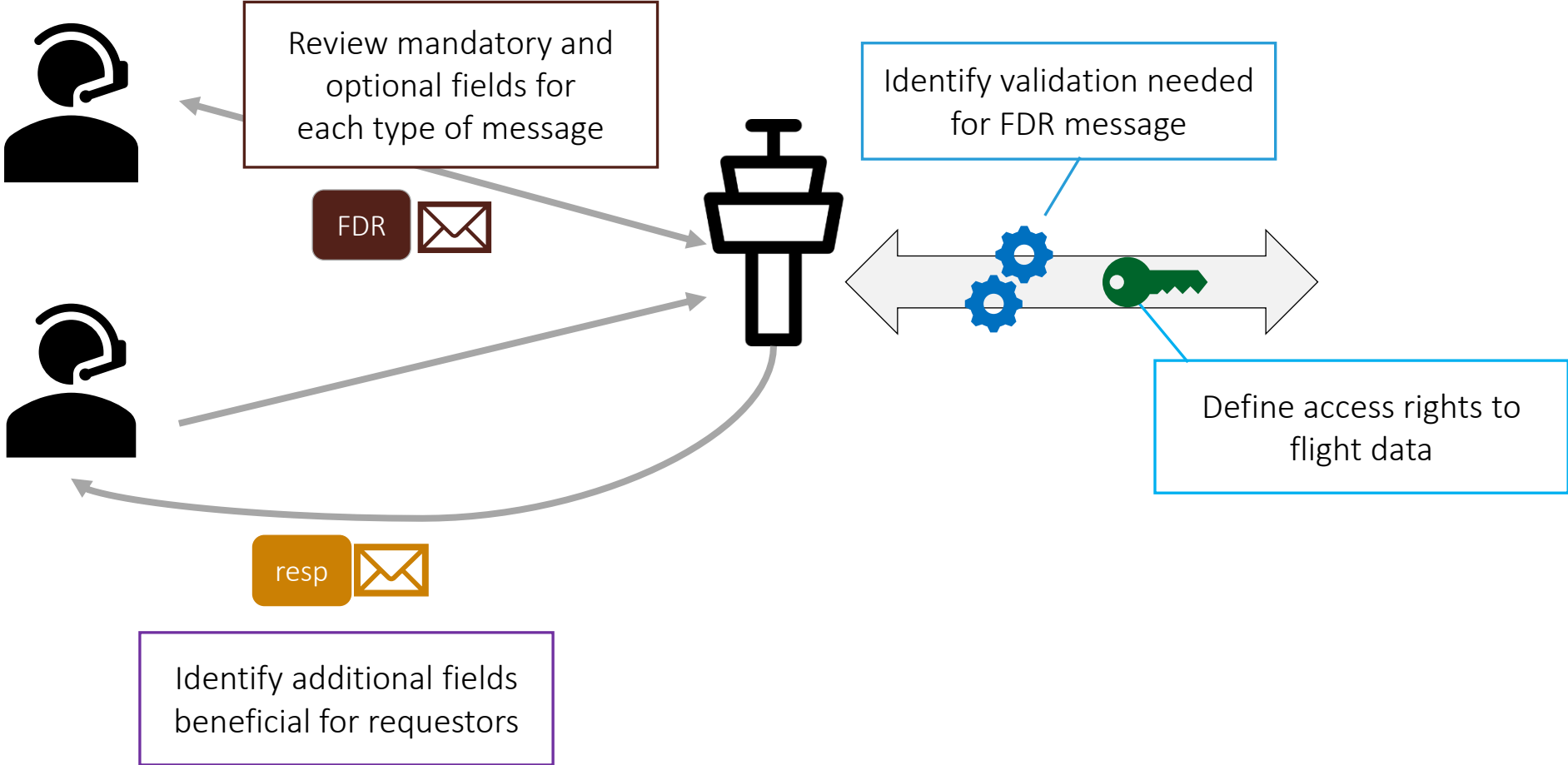
APAC's Key Lessons Learned

Harmonizing FF-ICE Filing Service Implementation



APAC's Key Lessons Learned

Harmonizing FF-ICE Flight Data Request Implementation

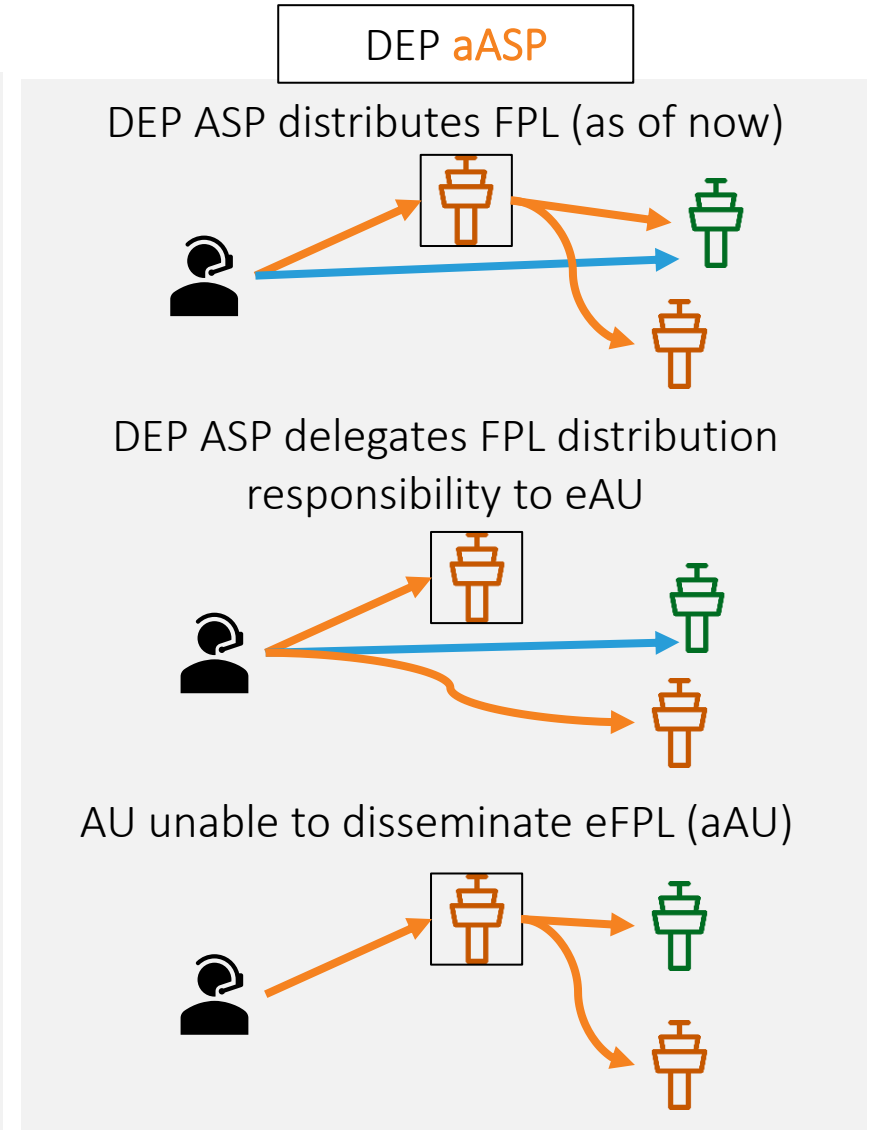
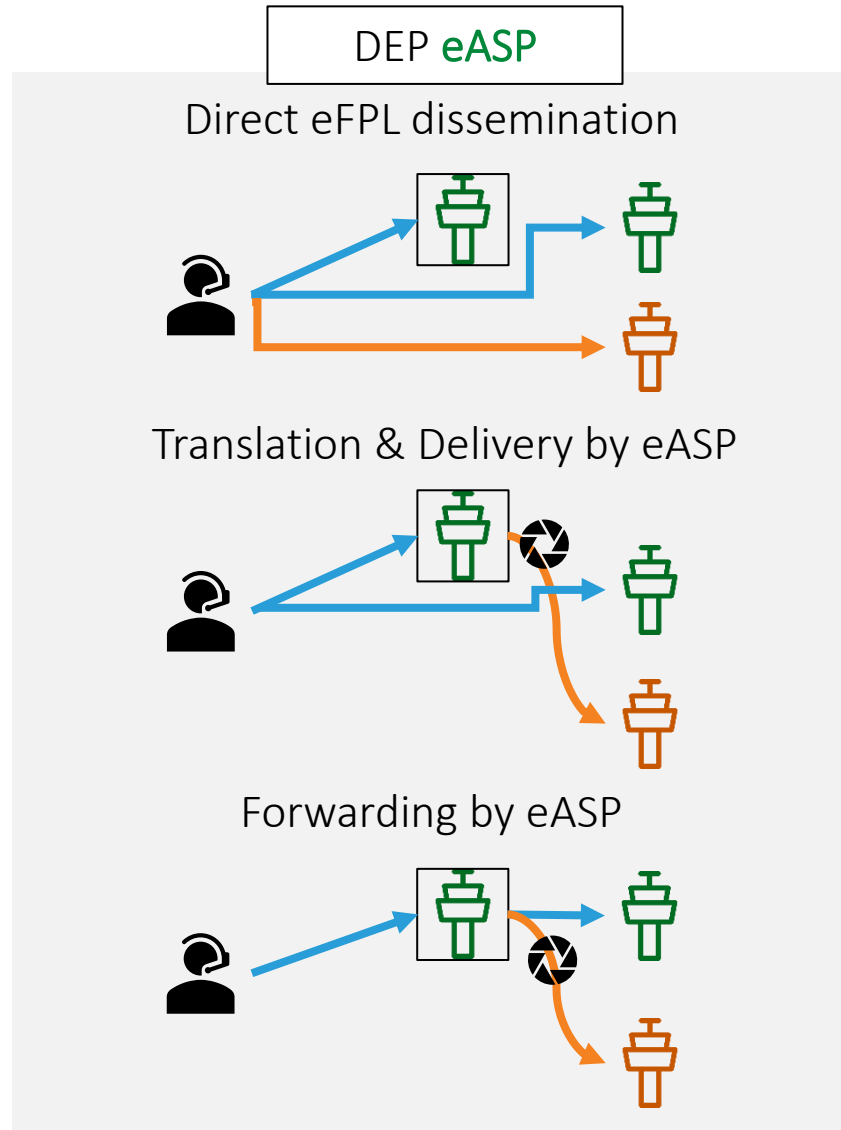
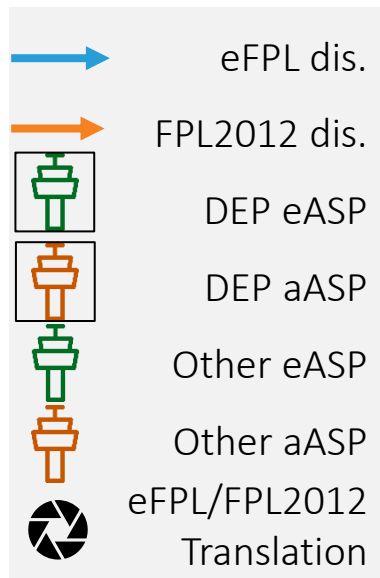


APAC's Key Lessons Learned

Harmonizing Operations in Mixed-Mode Environment

- Decide on **responsibility** of eFPL/FPL2012 dissemination from AUs to ASPs

*Considering different abilities of eAUs and eASPs to submit and disseminate eFPL



APAC's Key Lessons Learned

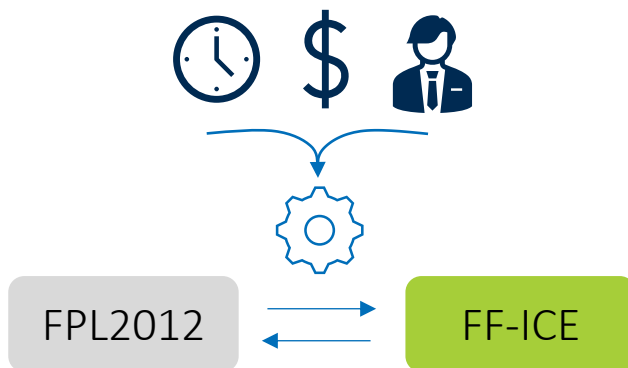
Consequence of Prolonged Mixed-Mode Operation



Operational Complexity

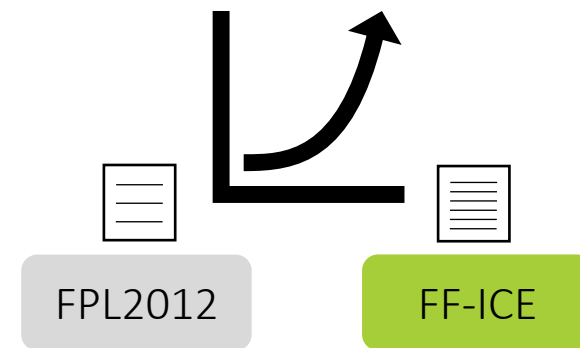
Additional Processes

Data Loss & Misrepresentation



Resource Inefficiency

System maintenance for 2 FPL formats



Less efficient ATM than a full FF-ICE environment

FPL2012 and eFPL have different levels of detail and accuracy

Thank You

