



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)

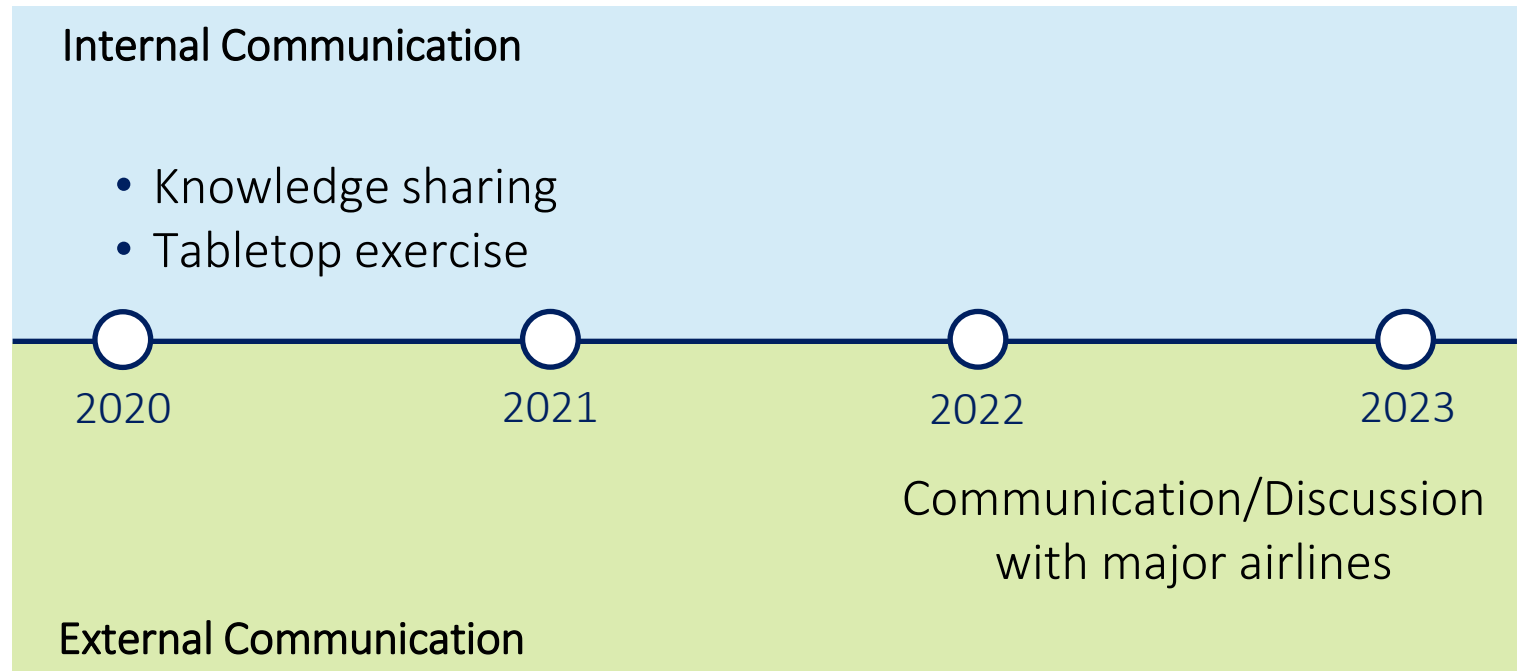
Corporate Strategy and Sustainability Office

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



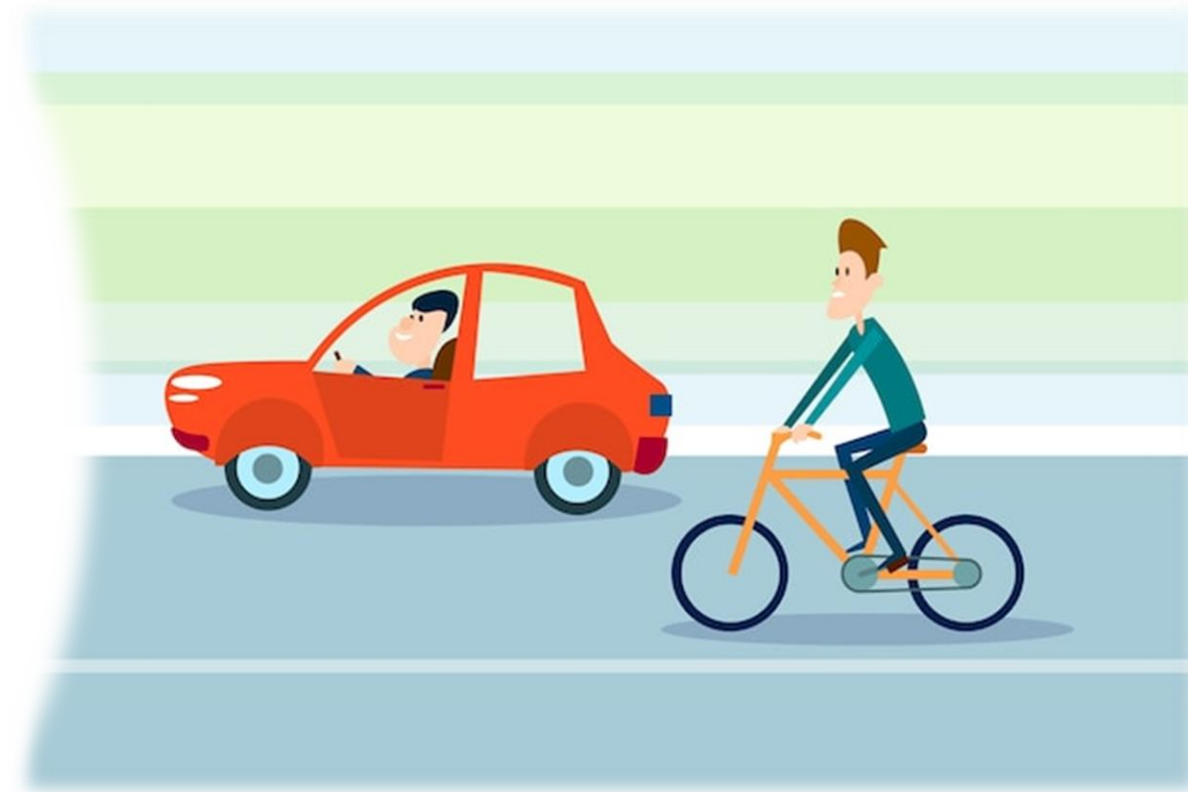
Thailand FF-ICE Workshop – November 2024



- 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

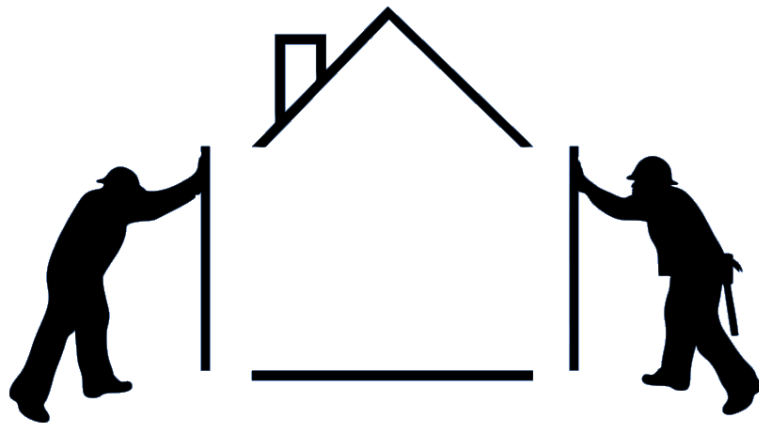
AEROTHAI's Key Lessons Learned

- 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

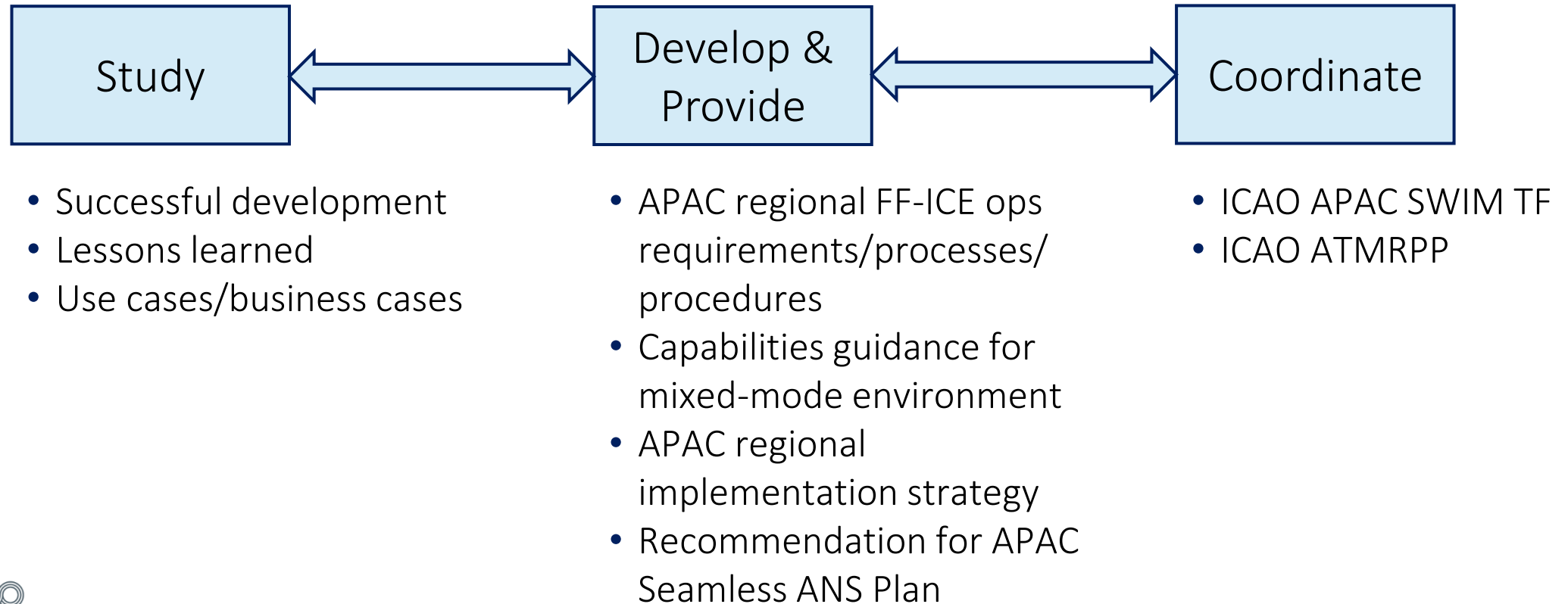


- ICAO APAC FF-ICE Ad-Hoc Group
2nd Meeting and Workshop
18 – 20 March 2025

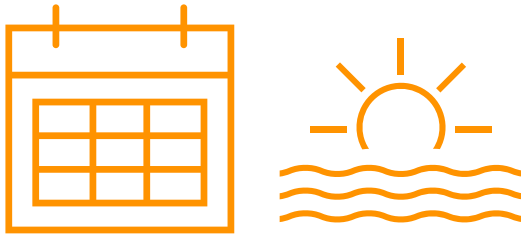
APAC's Key Lessons Learned



ICAO APAC FF-ICE Ad-Hoc Group



APAC's Key Lessons Learned

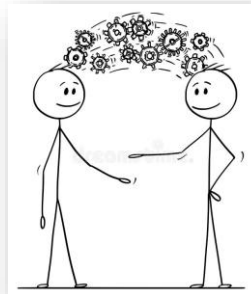


Harmonized Regional
Implementation



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

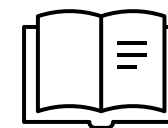
Streamlined operations for eASPs

HOW

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



SWIM experts & other stakeholders

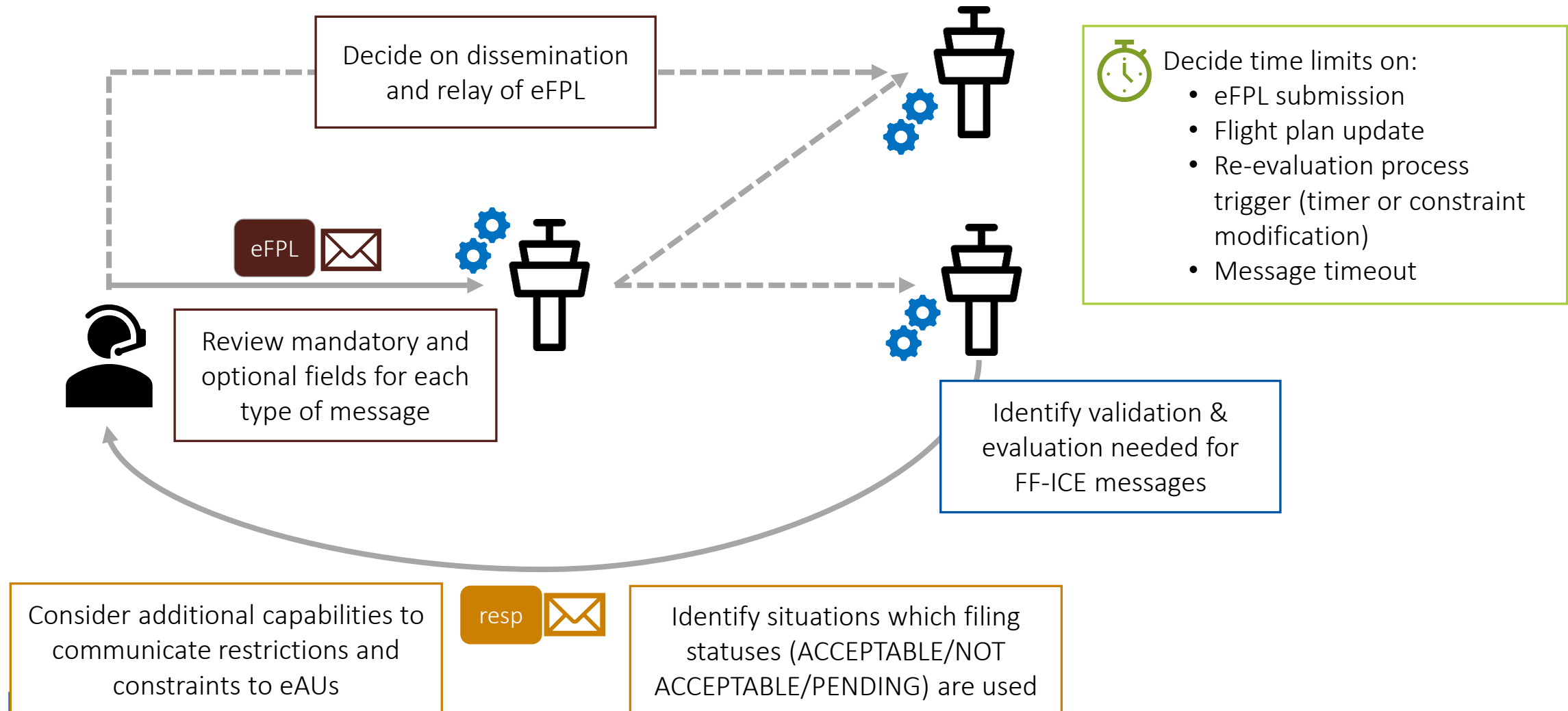


Alignment with implementation guidance

APAC's Key Lessons Learned

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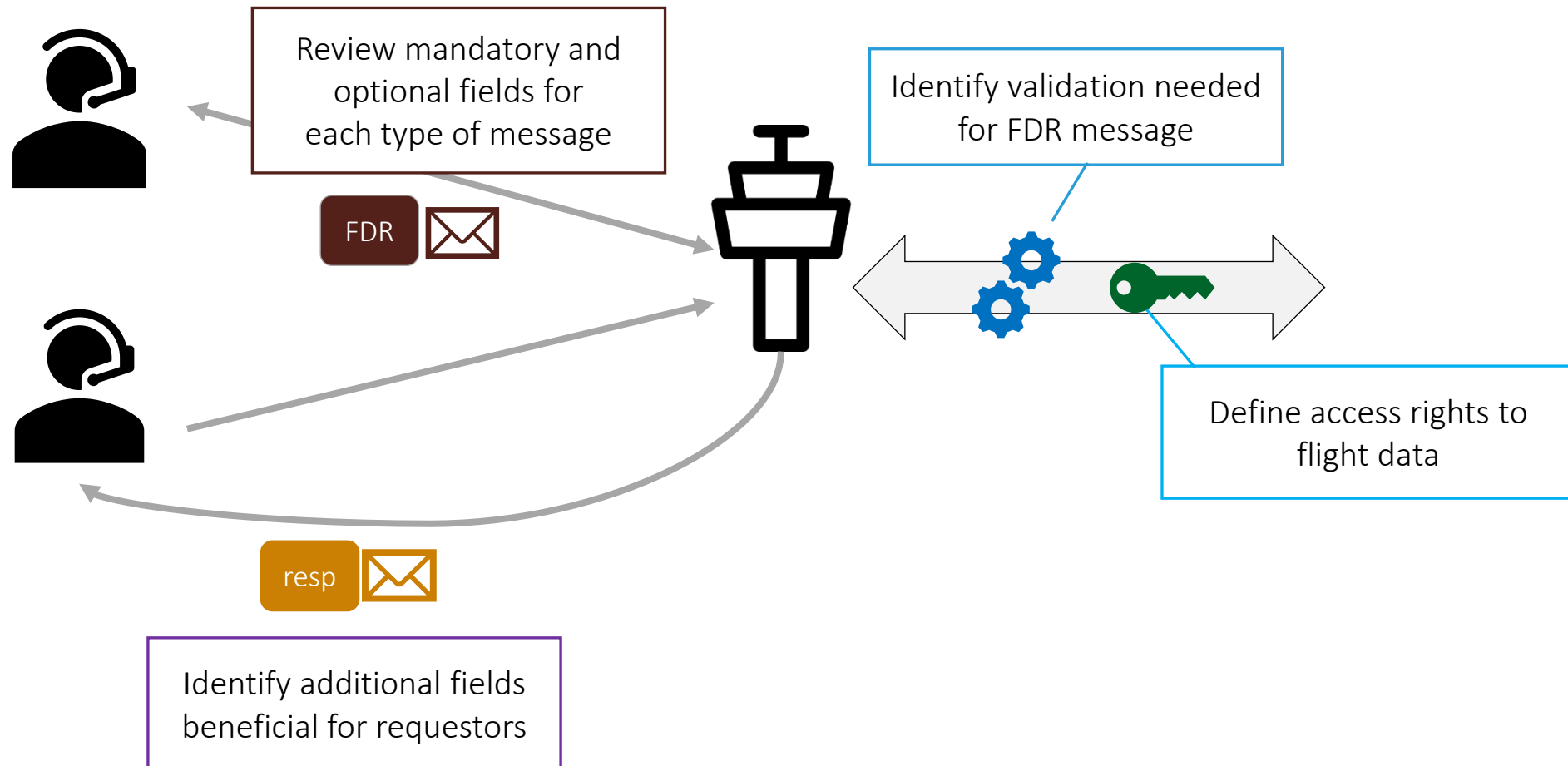
Harmonizing FF-ICE Filing Service Implementation



APAC's Key Lessons Learned

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Harmonizing FF-ICE Flight Data Request Implementation



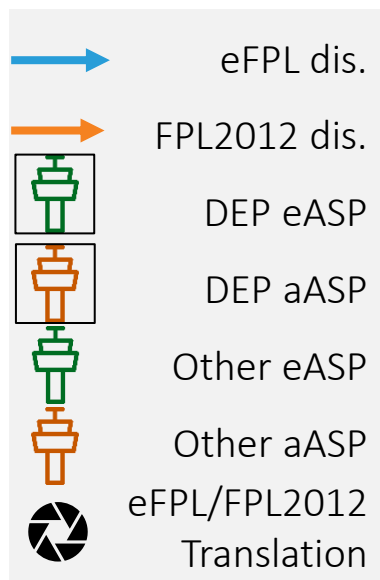
APAC's Key Lessons Learned

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Harmonizing Operations in Mixed-Mode Environment

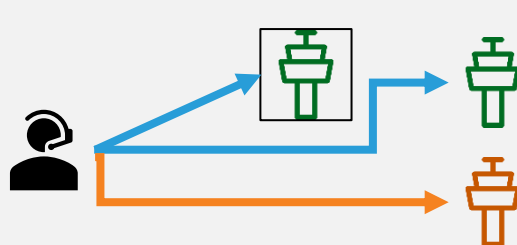
- Decide on **responsibility** of eFPL/FPL2012 dissemination from AUs to ASPs

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

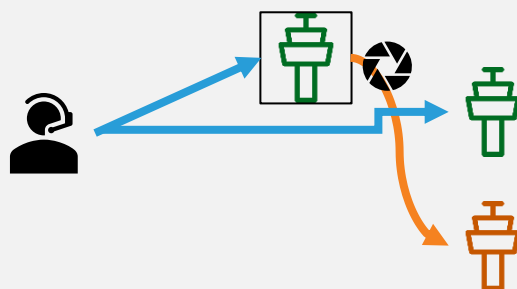


DEP eASP

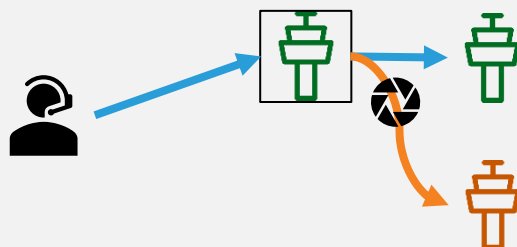
Direct eFPL dissemination



Translation & Delivery by eASP

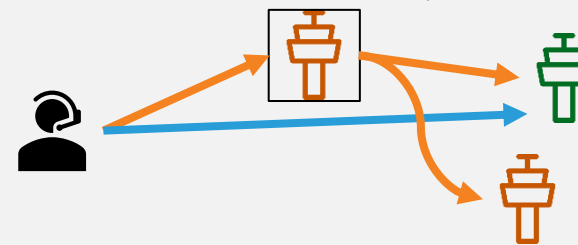


Forwarding by eASP

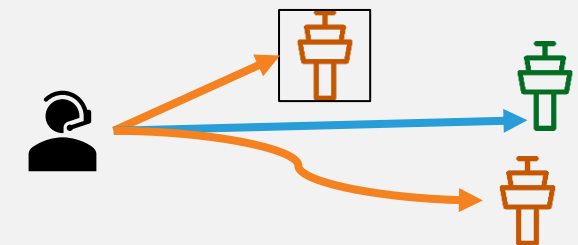


DEP aASP

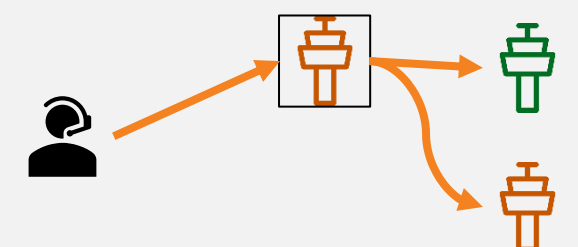
DEP ASP distributes FPL (as of now)



DEP ASP delegates FPL distribution responsibility to eAU



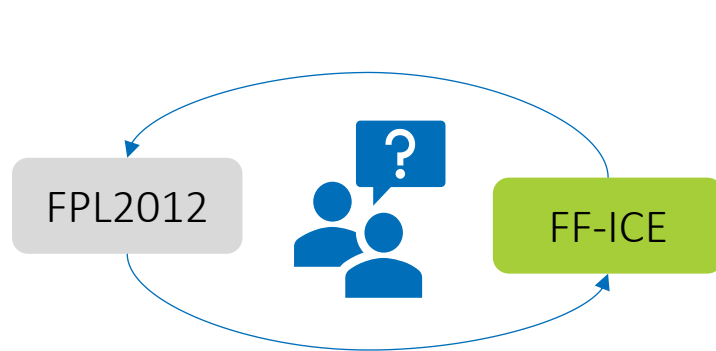
AU unable to disseminate eFPL (aAU)



APAC's Key Lessons Learned

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Consequence of Prolonged Mixed-Mode Operation



Operational Complexity

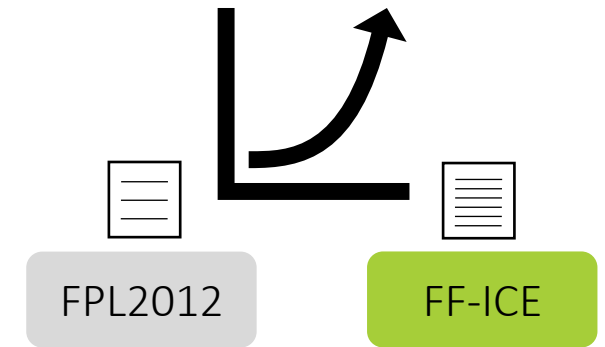
Additional Processes

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

