



AATIP
ASEAN Air Transport Integration Project

*A project funded by the European Union
and implemented by EASA*



in partnership with EUROCONTROL, UKCAA and DGAC France



Cross border ATFM Workshop

Bangkok 17 18 November 2015

easa.europa.eu



What would EUROCONTROL do differently?



- ATFM mission
- Recruitment, Training and Culture
- ATFM measures and compliance
- Airports
- Environment
- Performance assessment



ATFM Mission

- **1995 : Protect ATC from overloads**
- **2015 : Principles**
- Optimize available capacity without compromising safety
- Maximize operational benefits and global efficiency
- Foster international collaboration leading to an optimal, seamless ATM environment
- Enhance system predictability, help to maximize aviation economic efficiencies and returns.



Recruitment Training and Culture

ATC \neq **ATFM**

We need controllers, we don't only need controllers

AU $+$ **Airport** $+$ **ATC** $=$ **ATFM**

Training

$=$

Hard skills

$+$

Soft skills

- ATM
- Aircraft
- Airport
- Meteo
- Civ-mil

- Collaborate
- Negotiate
- Communications



ATFM Measures and Compliance

- CTOT with responsibility for compliance with ATCO at ADEP TWR is valid for short and medium haul, not long haul.
- AO and pilot must be responsible for meeting constraint



ATFM Measures and Compliance

- Calculate TTO/CTO
- Inform AO and pilot
- AO inform ATC of subsequent TOBT-TTOT via CDM
- Pilot primarily responsible for adherence to ATFM measure



Airports

- 1995: A disconnected set of node ends.
- 2005: A-CDM
- 2007: Linking the airports into the network
- 2012: Integrating the airports and the network
- 2015: Issue Role of ATC at airport v
ATC at ACC



Environment

- ATFM should manage flows not just when there is congestion
- ATFM systems can be designed to identify environmental gains in both lateral and vertical domains
- This can be done without adding to congestion



Performance Assessment

- Ground delay is a flawed measure of performance.
- It encourages “gaming” and non-compliance.
- Different stakeholder expectations (see next slide)



Performance Expectations

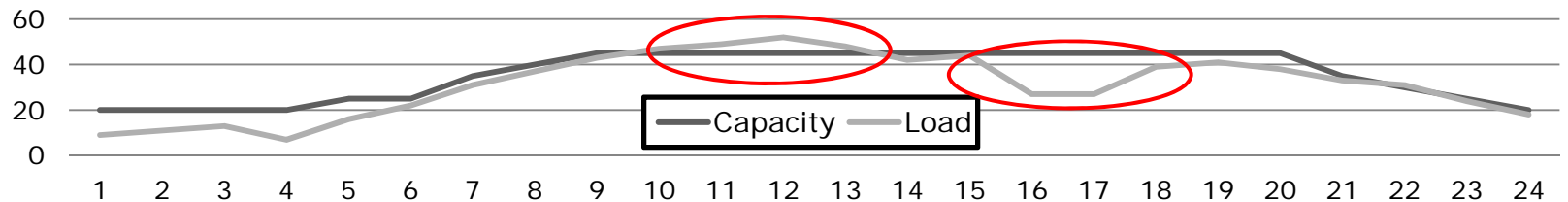
AO



APT



ATC





Suggested KPIs

- Punctuality
 - Departure, arrival, gate usage
- Demand consistency
 - Schedule v airport slot v FPL v actual
- Compliance, adherence
- Predictability and stability
- Capacity utilisation



Conclusion

- Agree on performance objectives and measurements
- “Soft” and “hard” training
- The right people with the right culture
- Remember the environment
- Review, learn, do