

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







Update on EU-AATIP activities

South East Asia ATS Coordination Group
SEACG/22
Bangkok 9 – 12 March 2015

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ASAM Implementation 2015

ATM an important enabler for a safe, secure and sustainable ASAM

d DGAC Fra



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Working Arrangements

Member States, CANSO, Airlines

in partnership

ICAO
APANPIRG, ASBUs

Enabling TechnologiesC N and S

Simulation & Modelling

Airspace Procedures
Structure, PBN, civ/mil

Airports

ASEAN Network Collaborative Framework

ATFM

Balancing demand/capacity, CDM



Update AATIP Year 2 activities

- Simulation & Modeling Function
- ATC Sector Capacity Assessment
- ASEAN ATM Working Arrangements
- Airport ATM Operations
- Transition from AIS to AIM
- ❖ ATFM, Training Requirements



Sim & Mod function

A single function for ATM Simulation and Modelling

Support airspace improvement projects and ATFM

ATM
Kick-Off
workshop

Support ASEAN wide collaboration

Provide a network view to required improvements

Singapore has now established this capability for ASEAN as part of their Centre of Excellence initiative



Sim & Mod function

Provide basic structure

Framework document

Roles and responsibilities

How such a function could be used



Sim & Mod function



Basic structure

ATMRI will share its expertise

Member States agree to nominate staff

ASEAN member States will provide data to the ATMRI





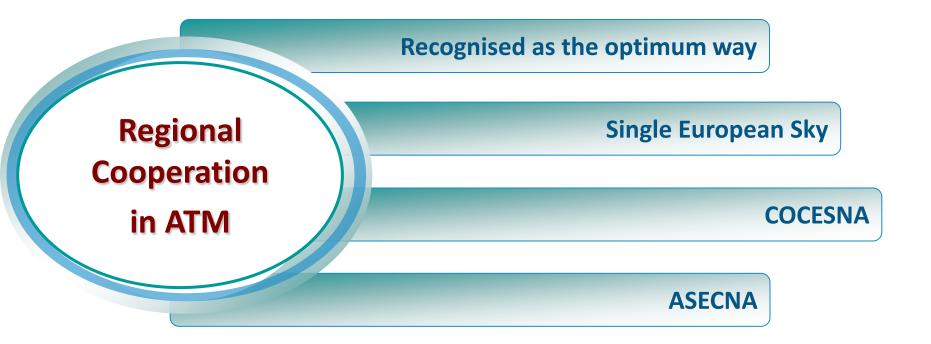
ATC Sector Capacity assessment

November 2014; Workshop on ATC Sector Capacity Assessment

- Used BKK FIR sectors
- Used the CAPAN methodology
- ❖ Results will indicate traffic and controller workload levels for the simulated airspace
- Enable capacity baseline figures to be established.



ASEAN ATM working arrangements



Benefit for ASEAN to work together in some form of regional collaboration



ASEAN ATM working arrangements

AATIP
workshop
Kuala Lumpur
Aug 2014

Working Arrangements

- Platform for subject-matter discussions at expert level
 - •A high level ASEAN ATM Network Operations Forum

Establishing an ASEAN ATM Bureau

Link to ICAO APANPIRG working arrangements



Airport ATM Operations Workshop in Kuala Lumpur in January 2015



Airport capacity is a major constraint to ATM growth.

High pilot awareness and anticipation is crucial to reduce RWY occupancy time.

Safety is paramount and handled correctly it will act as an enabler for capacity.

<u>Performance should be measured</u>. All partners should be encouraged to share results.



Recommendations

ASEAN MS to <u>address training</u> to ensure consistent performance by ATCO/Pilots

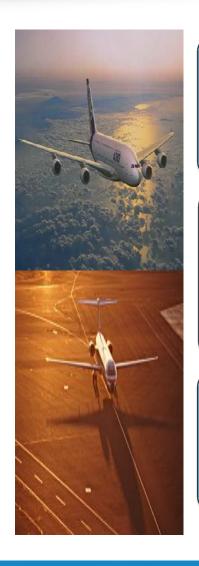
ASEAN MS should share information and develop and implement "Best Practices"







Transition from AIS to AIM Workshop in Bangkok in February 2015



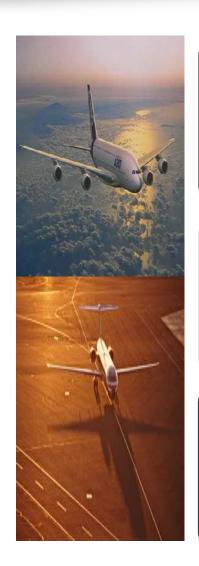
AIM is a critical element that supports many other aspects of ASBUs.

Corrupt, erroneous and even late data can potentially <u>affect the safety</u> of air navigation.

Management buy-in and contribution to the implementation of required changes is essential.



Conclusions



ASEAN MS should pursue implementation of WGS-84 and Quality Management Systems to support all AIS/AIM processes.

An <u>appropriate regulatory framework</u> should be in place to support all aspects of transition from AIS to AIM

Sharing and implementation of "Best Practices" can assist the AIS to AIM transition (ASEAN AIM Forum)



Next Steps

- Workshop on the use of the Sim&Mod function on the Airspace Design Process
- Report results Year 2 to Steering Committee
 Meeting
- Build work plan for year 3



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Thank you.

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Cost Assumptions

EUROCONTROL modeling

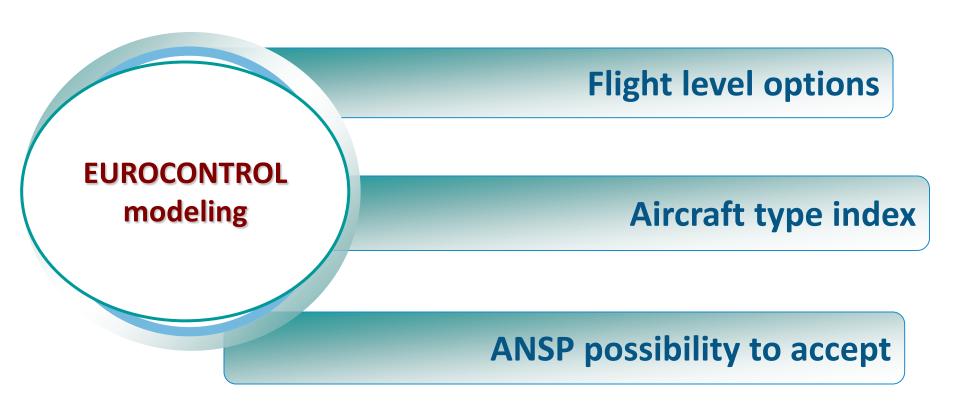
WP21, PBN Track shortening

Using a methodology

- Establish baseline
- Fuel, CO2, Charges
- Then do the same for the shorter route



Cost Assumptions





Cost Assumptions

Standard Inputs for EUROCONTROL Cost Benefit Analyses

http://www.eurocontrol.int/sites/default/files/publication/

files/standard-input-for-eurocontrol-cost-benefit-analyses.pdf