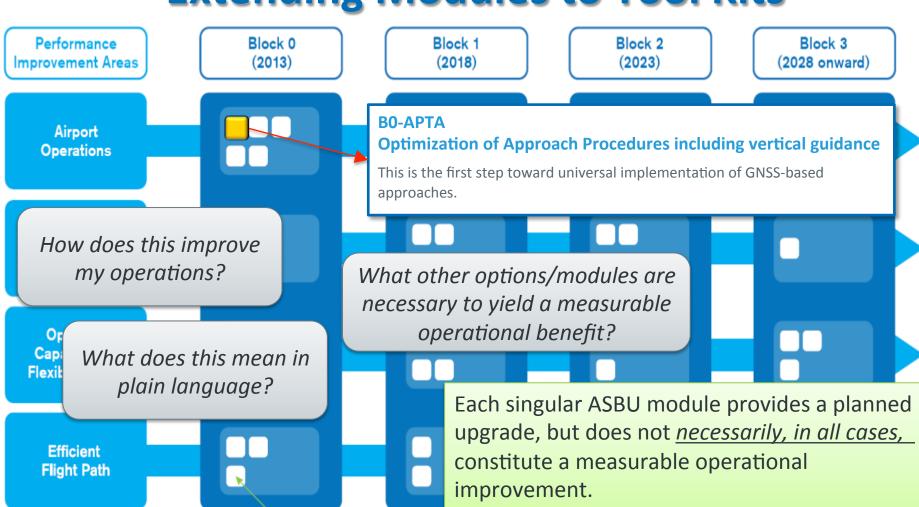
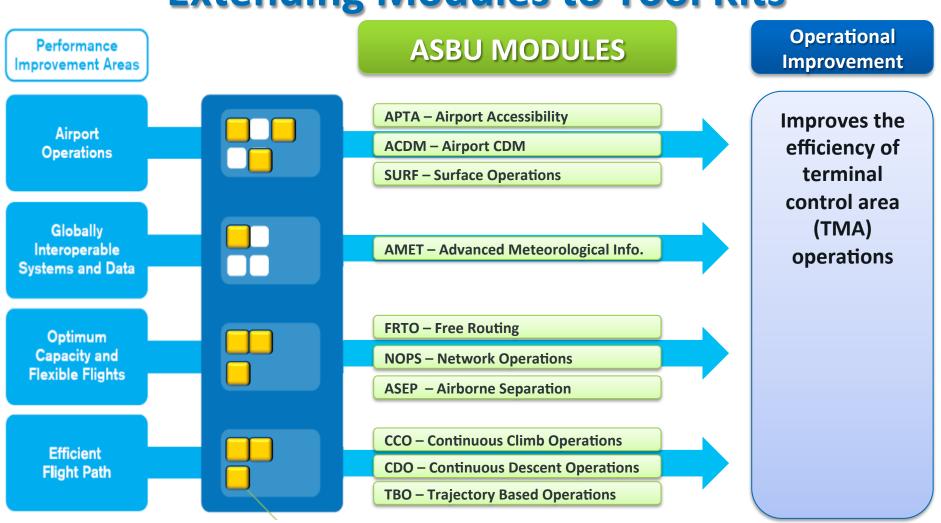
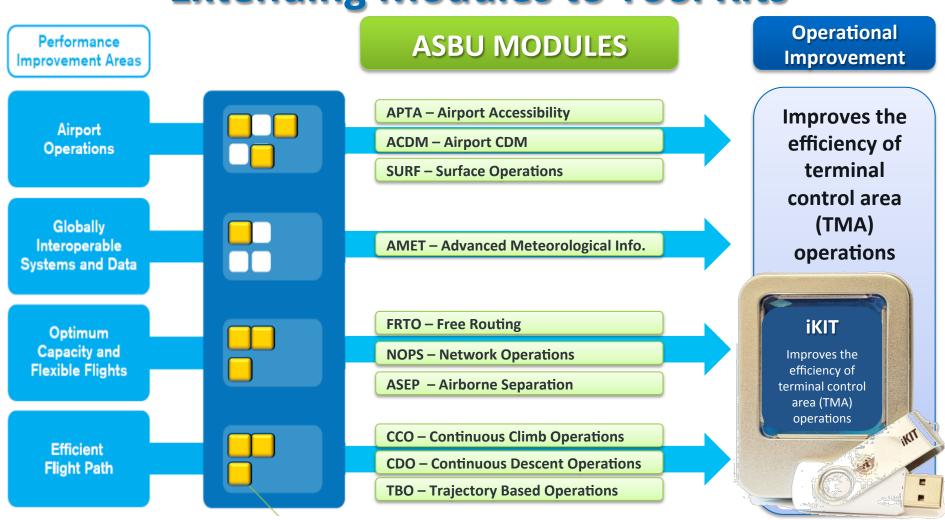
Putting the Global Air Navigation Plan Into Everyday Operations

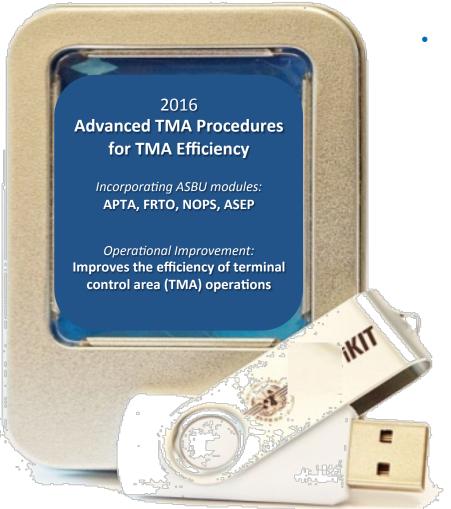
Extending our planning from the Aviation System Block Upgrade Modules to Detailed Implementation Tool Kits (iKITS)







2 October 2014



Updated PBN Flight procedures to complement the PBN NAVSPECs

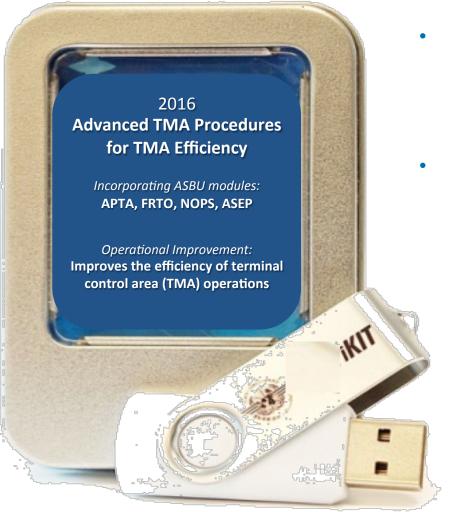
[APTA – Airport Accessibility]

- Harmonization of Charting Criteria, Databases of Criteria, and Avionics Systems with IFP design (Annexes 4, 11 and 15; AIS Manual, Aeronautical Chart Manual)
- Amended SARPs to differentiate NAVSPECs that require operational approval and those that do not (Annex 6 Parts I, II and III)
- GBAS Landing System (GLS) approaches to parallel runway operations (PANS-ATM)
- PANS-OPS procedures connecting PBN with XLS final approach and APV; Procedure criteria for PinS route visual segment; Missed approaches; Visual procedures utilizing PBN

(PANS-OPS Volume I; Aeronautical Chart Manual)

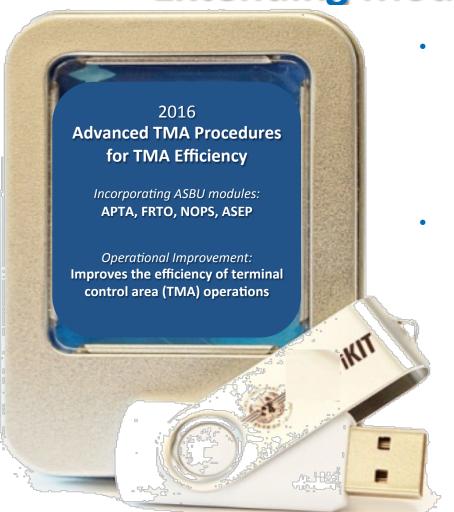
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2 October 2014

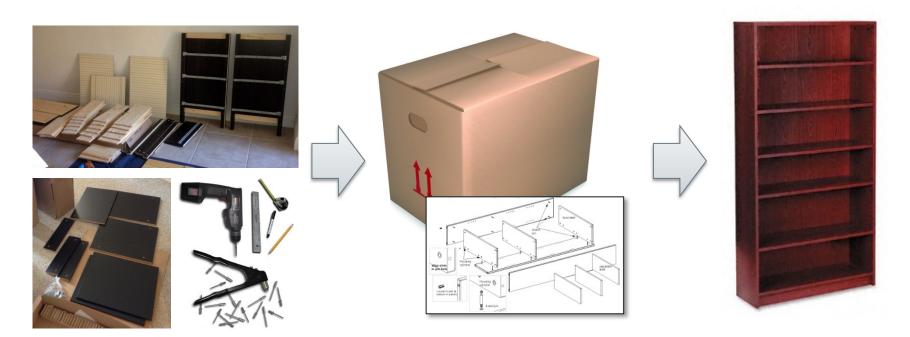


- Guidance on planning of airspace and ATS facilities
 [APTA Airport Accessibility]
 - Procedures for application of GLS parallel approaches (Manual on Simultaneous Operations on Parallel or near-parallel Instrument Runways)
- ATM separation procedures and phraseologies [APTA Airport Accessibility]
 - Clarification of procedures when being vectored for final approach
 (PANS-ATM)
 - Enhanced separation minima addressing: VOR/GNSS lateral separation; 5nm RNP 1 terminal separation & Circular 324; 45 degree RNAV arrival and departure separation; PBN based separation for terminal airspace; PBN based lateral separation minima to special use airspace; separation of aircraft fly-by, radius to fix (PANS-ATM)
 - Limits of a vector review the intent of specifying a limit of vector and suitability of current PANS (PANS-ATM)

Continued in next slide...



- Provisions on Interval Management procedures (merging and spacing)
 [ASEP – Airborne Separation]
 - Initial guidance to support interval management for flight crew and ATS units (Airborne Surveillance Manual)
 - Guidance on Flexible use of airspace
 [FRTO Free Routing, NOPS Network Operations]
 - Guidance on cooperation on ATM between civil and military entities – improvement of circular towards an ICAO manual (Circular 330)



ASBU Modules

Implementation Kit

Regulatory and Operational Improvement



North American Central American and Caribbean (NACC) Office Mexico City

South American (SAM) Office Lima ICAO Headquarters Montréal Western and Central African (WACAF) Office Dakar European and North Atlantic (EUR/NAT) Office Paris

Middle East (MID) Office Cairo Eastern and Southern African (ESAF) Office Nairobi

Asia and Pacific (APAC) Sub-office Beijing Asia and Pacific (APAC) Office Bangkok

THANK YOU