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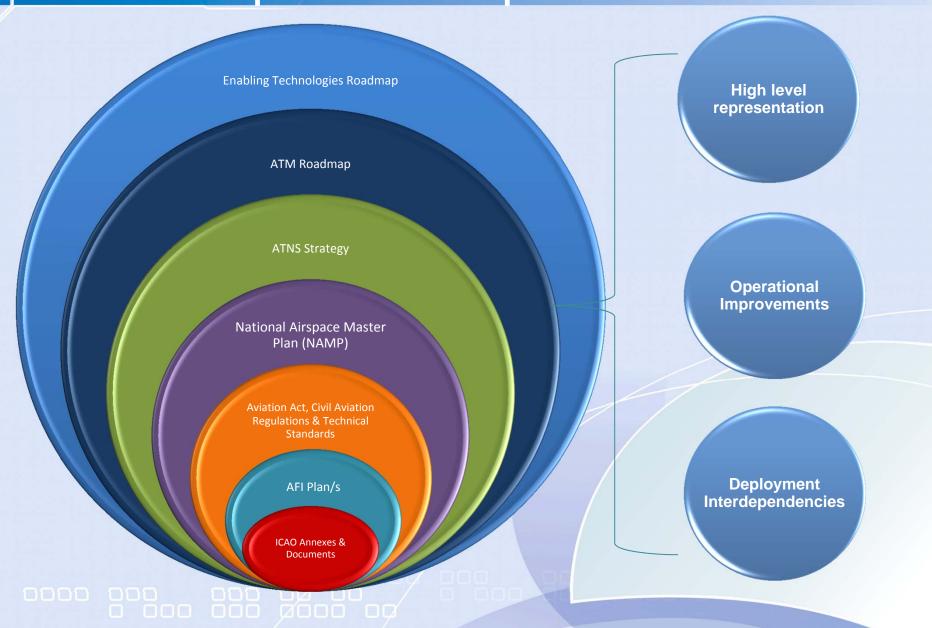
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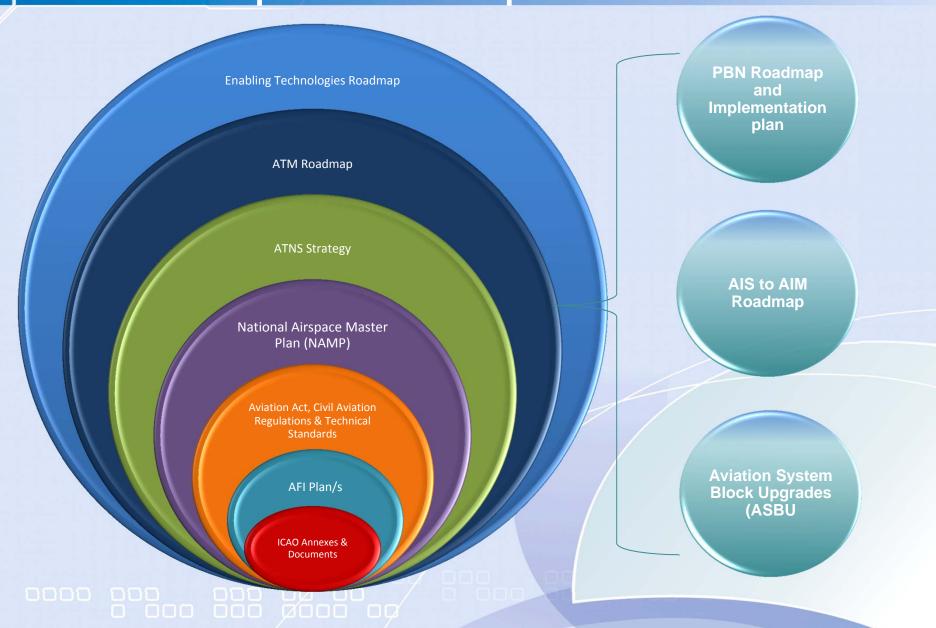
Jean-Mari Rossouw
Specialist Airspace Modeling and Simulation
ATNS

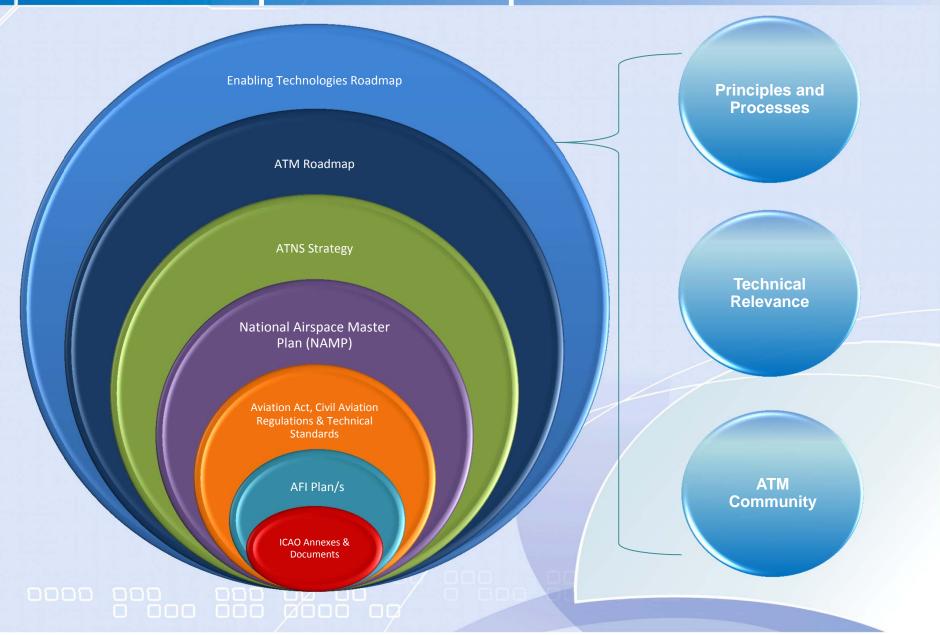
Discussion Points

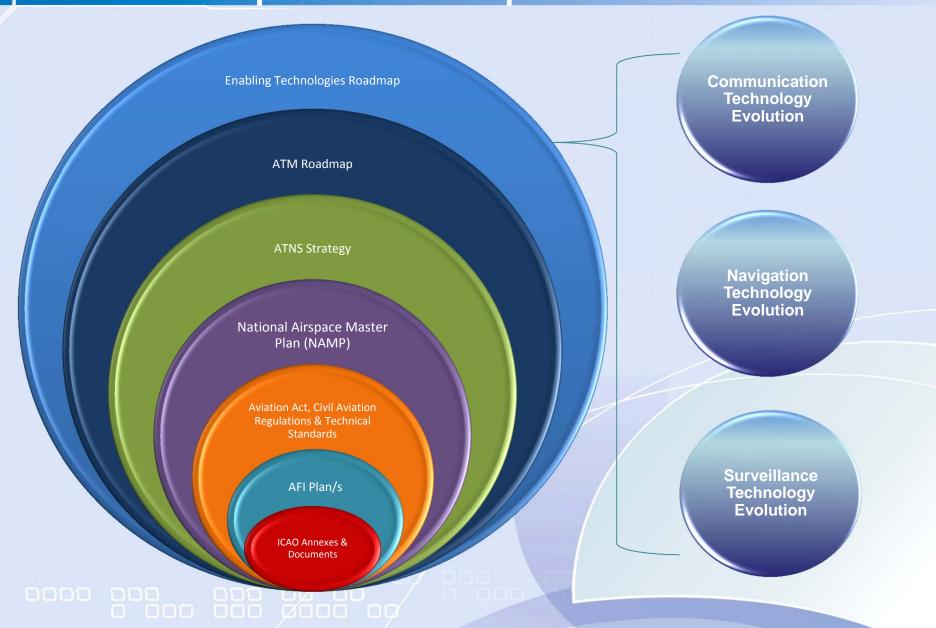
- > SA ASBU Implementation plan
- ➤ Block 0 in perspective
- > B0-ACDM
- ➤ BO-FRTO
- **➢** BO-NOPS
- **➢** BO-ACAS
- ➤ BO-ASUR











1. Communication Technology Evolution

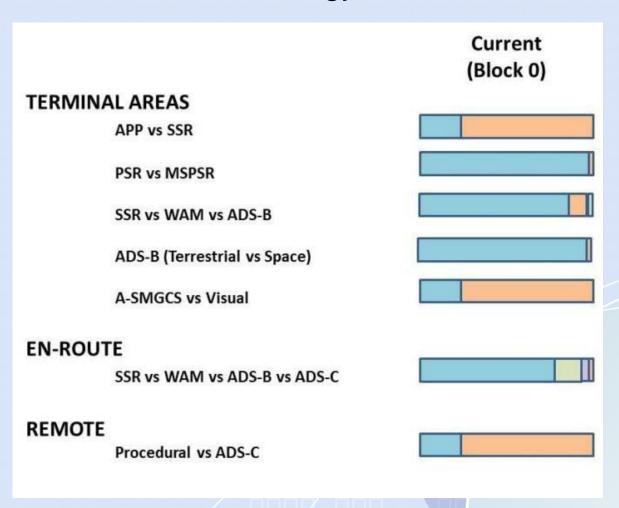
	Current (Block 0)	
ATS Coordination (Terrestrial)		
VHF vs Data link		
ATS Coordination (Oceanic)		
HF vs Data link		
Inter Connectivity		
4 wire (E&M) vs TCP/IP		
Information Services	-	
Voice vs Data link vs On-line		
Collaborative Decision Making		
Manual vs Automated		
ICT		
Centralised vs Decentralised		

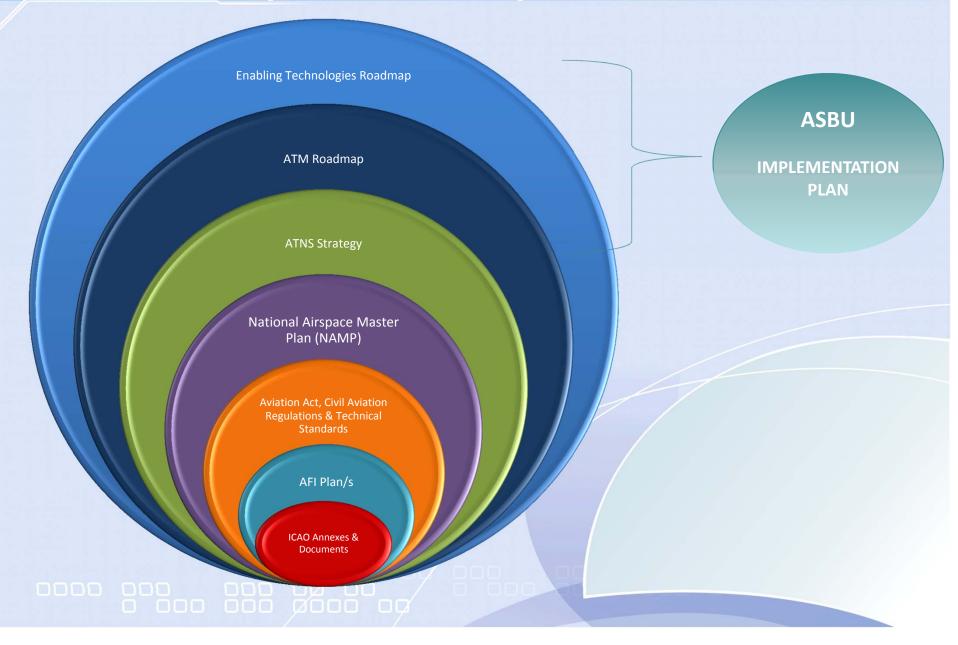


2. Navigation Technology Evolution

	Current (Block 0)
TERMINAL AREAS	
VOR/DME vs DME Network	
ILS vs GBAS	
EN-ROUTE	
VOR/DME vs DME Network vs GNSS	
ABAS vs SBAS	

3. Surveillance Technology Evolution





Module Performance Improvement Area Module Title Module I	Description	ATNS Implementation Elements	ATNS	Dates Risks 1	o Implementation
the reliability and predictability of ap safety, accessibility and efficiency. Th of basic global navigation satellite sys	system (GLS) procedures to enhance 2) RNP Approach (B: proaches to runways, thus increasing 3) RNAV 1 and 2 SID is is possible through the application tem (GNSS), Baro-vertical navigation in system (SBAS) and GLS. The flexibility	SNSS Implementation (Phase 1 - Monitoring) oro-VNAV) implemented at 55% of instrument (STAR implemented for 50% of International <i>I</i>		2) Aircraft C	n/approval process
Module			BO-AP	TA	
Performance Improvement Area			Airport	Operati	ons
Module Title		Op	timization of Ap	oroach Procedu	res includin
Module Description		The use of perform based augmentation procedures to enh	n system (GBAS)	landing system	(GLS)
Implementation elements		L) Nav_2007_057 - GN 2) RNP Approach (Ba runways 3) RNAV 1 and 2 SID/	ro-VNAV) impler	nented at 55% of	instrument
Implementation Dates		<u></u>	2) Completed 3) Completed	for block 0 fleet/aircraft	equipe
Risks To Implementation			2) Airc	validation/ap	ion
0 000 000 000	09		•	tacle data	

Questions?

