PBN TMA and Approach Action Plan GPI 5, 7, 8, 10, 11, 12					
1 Airspace Concept		Start	End	Remarks	
1.1	Establish and prioritize Strategic Objectives (Safety, Capacity, Environment, etc)				
1.2	Collect air traffic data to understand airspace traffic flows in the TMA.				
1.3	Analyse aircraft fleet navigation capacity operating in the TMA				
1.4 navig	Analyse communication, ground navigation (VOR, DME) and surveillance for ation specification and reversionary mode compliance				
	Optimise the airspace structure, by implementing new SID and STARS, based on rategic objective of the airspace concept. Consider Airspace Modelling, ATC ations (fast time and/or real time), Live Trials, etc.				
2.	Develop Performance Measurement Plan				
2.1	Prepare Performance Measurement Plan, including gas emission, safety, efficiency, etc.				
2.2	Conduct Performance Measurement Plan				
3	Airspace safety assessment				
3.1	Determine which methodology shall be used to evaluate airspace safety and routes spacing, depending on the navigation specification. Consider Airspace Modelling, ATC simulations (fast time and/or real time), Live Trials, etc.				
3.2	Prepare a data collection programme for airspace safety assessment				
3.3	Prepare preliminary airspace safety assessment				
3.4	Prepare final airspace safety assessment				
4	Establish collaboration decision making (CDM) process				
4.1	Coordinate planning and implementation needs with Air Navigation Service Providers, Regulators, Users, aircraft operators and military authorities				
4.2	Establish implementation date				
4.3	Establish the documentation format of CAR/SAM RNAV/RNP Website				

	PBN TMA and Approach Action Plan GPI 5, 7, 8, 10, 11, 12				
4.4	Report planning and implementation progress to the corresponding Regional Office				
5	ATC Automated Systems				
5.1	Evaluate the PBN implementation in the ATC Automated Systems, considering the Amendment 1 to the PANS/ATM (FPLSG).				
5.2	Implement the necessary changes in the ATC Automated Systems				
6	Aircraft and operator approval				
6.1	Be aware of the national implementation programme and of the required navigation specifications				
6.2	Analyse aircraft approval requirements, aircrew and operator approval requirements for the navigation specifications to be implemented, as contained in the ICAO PBN Manual				
6.3	Publish the national regulations to implement the required ICAO navigation specifications				
6.4	Approval of aircraft and operators for each type of procedure and navigation specification				
6.5	Establish and keep updated a record of approved aircraft and operators				
6.6	Verify operations with a continuing monitoring programme				
7	Standards and Procedures				
7.1	Evaluate regulations for GNSS use, and if such were the case, proceed to its publication.				
7.2	Develop and publish AIC notifying PBN implementation planning				
7.3	Publish AIP Supplement including applicable standards and procedures				
7.4	Review Procedural Manuals of the ATS units involved				
7.5	SID and/or STAR Ground Validation and Flight Inspection/Flight Validation				
7.6	Data Base Validation Requirements/Procedures				
7.5	Update Letters of Agreement between ATS units				

	PBN TMA and Approach Action Plan GPI 5, 7, 8, 10, 11, 12			
7.6	Provide procedures to accommodate non-approved RNAV/RNP aircraft, when applicable			
7.7	Conduct ATC simulations to identify the workload/operational factors, if necessary.			
8	Training			
8.1	Develop a training programme and documentation for operators (pilots, dispatchers and maintenance)			
8.2	Develop training programme and documentation for Air Traffic Controllers and AIS Operators			
8.3	Develop training programme to regulators (aviation safety inspectors)			
8.4	Conduct training programmes			
8.5 financ	Hold seminars oriented to operators, indicating the plans and the operational and tial benefits expected			
9	Decision for implementation			
9.1	Evaluate operational documentation availability (ATS, OPS/AIR)			
9.2	Evaluate the percentage of approved aircraft and operations (mixed equipage concerns)			
9.3	Review safety assessment results			
10	System Performance Monitoring			
10.1	Develop post-implementation TMA operations monitoring programme			
10.2	Execute post-implementation TMA operations monitoring programme			
Pre o	operational implementation date			
Defii	Definitive implementation date			