SIP/2012/ASBU/Dakar-WP/7

Global Air Navigation Plan (GANP) – Framework for global planning

H. Sudarshan

Workshop on preparations for ANConf/12 − ASBU methodology
(Dakar, 16-20 July 2012)

Outline

- Planning mechanisms
- Development of revised GANP
- What is new in the revised GANP
- What are the policy changes
- International agreement at the ANConf/12

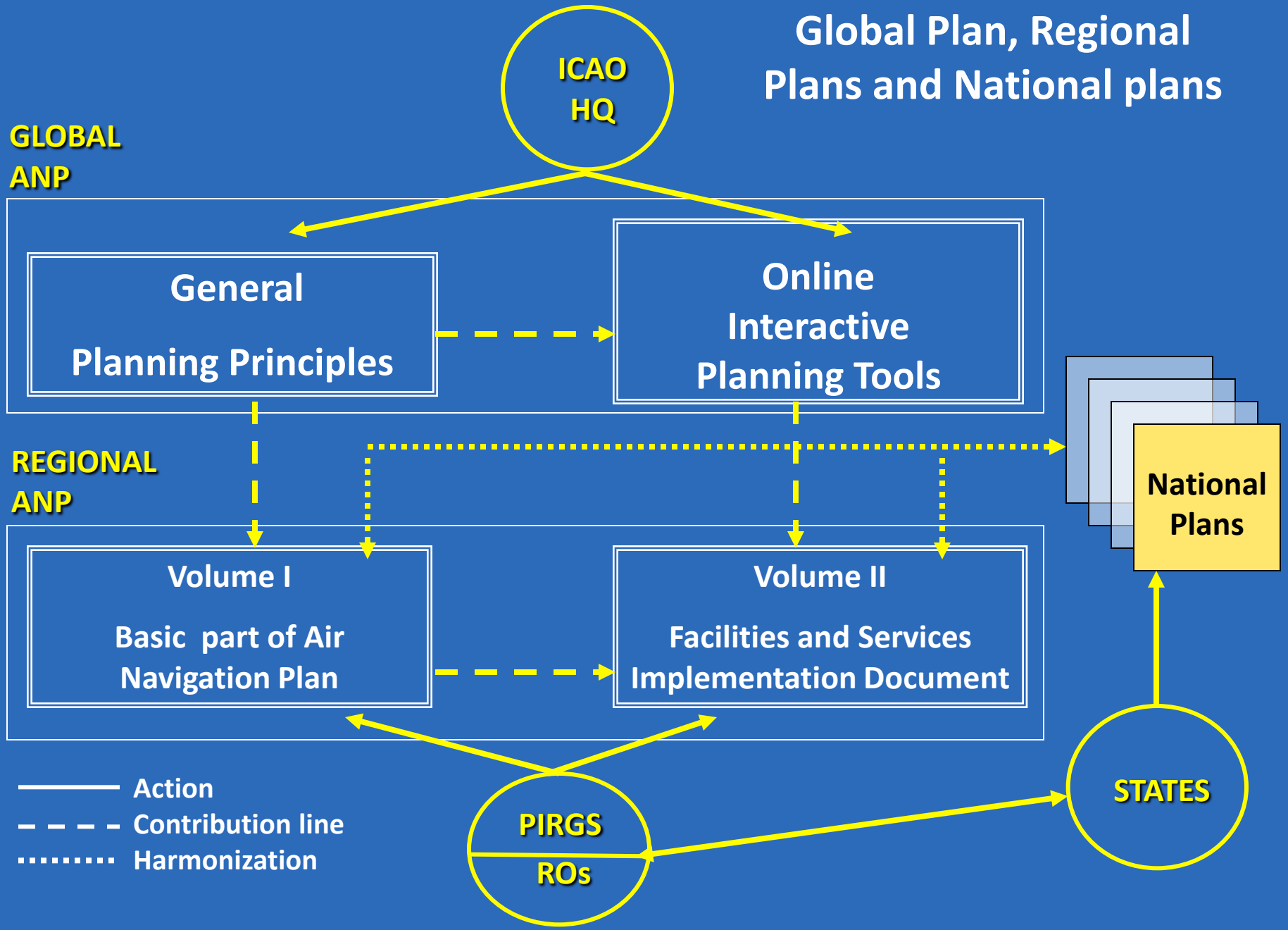
Planning Mechanisms…

Partners	Planning Levels	Deliverables	Guidance
ICAO	Global	Global plan	ICAO policy
Regional planning groups	Regional	Regional plan	Global plan
Subregional/ or Multinational groups	Subregional or Multinational	Subregional plan or Multinational	Regional plan
States	National	National plan	Regional plan

Planning Mechanisms

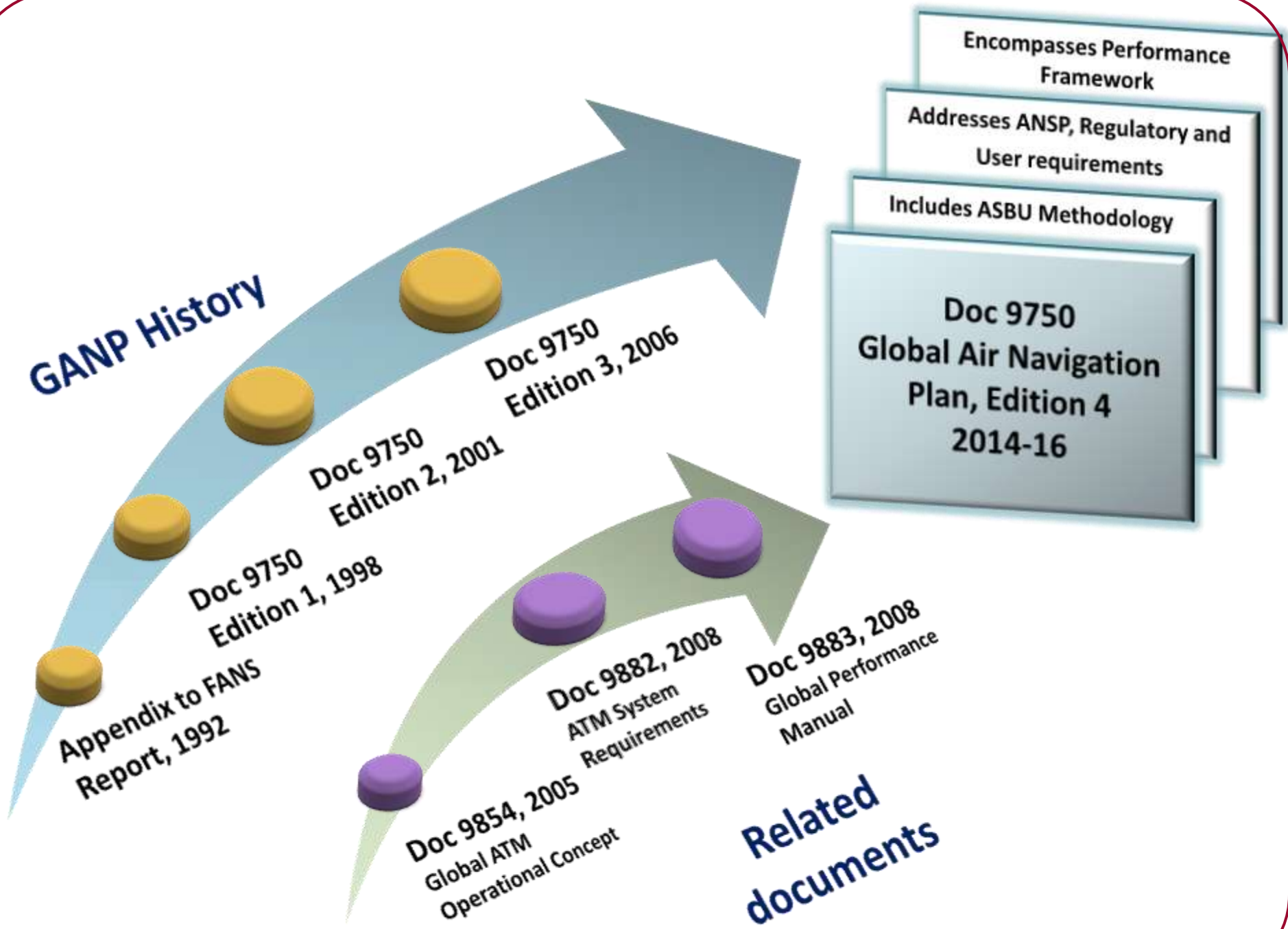
Partners	Planning Levels	Deliverables	Guidance
Airspace users	Regional, national	User-driven plan	Regional and national plans
Service providers	Global, regional, national	Service-provider plan	Global, regional and national plans
Industry	Global, regional, national	Manufacturer plan	Global, regional and national plans

Global Plan, Regional Plans and National plans



What is Global Plan?

- Strategic Document for regional and national planning for air navigation infrastructure
- Serves as global guidance for PIRGs
- Maturity process
  - First developed as global coordinated plan for CNS/ATM Systems in 1992
  - In 1998 the Global Plan for CNS/ATM systems released
  - In 2006, the Global Plan for Air Navigation Systems was developed
  - In 2012, revised Global Plan will be presented during 12 ANConf that will contain ASBU methodology
- Refers to five major disciplines
  - ATM, CNS, MET, AIM and AGA

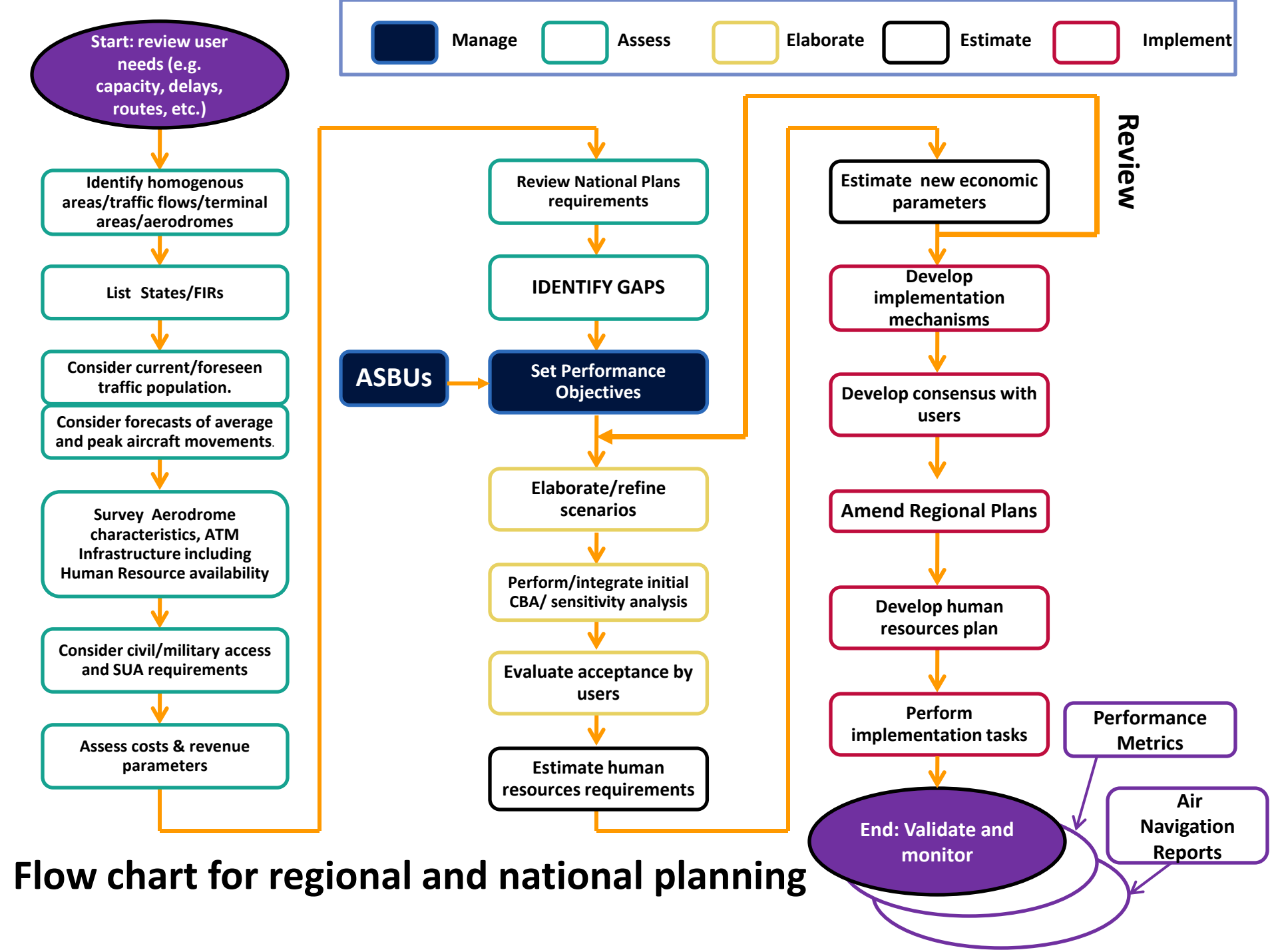

GANP History
Appendix to FANS Report, 1992
Doc 9750 Edition 1, 1998
Doc 9750 Edition 2, 2001
Doc 9750 Edition 3, 2006
Doc 9750 Global Air Navigation Plan, Edition 4 2014-16
Includes ASBU Methodology
Addresses ANSP, Regulatory and User requirements
Encompasses Performance Framework
Related documents
Doc 9854, 2005 Global ATM Operational Concept
Doc 9882, 2008 ATM System Requirements
Doc 9883, 2008 Global Performance Manual

GANP- Contents 2014-2016 (DOC 9750)

Global Air Navigation Plan
Draft Outline

EXCUTIVE VIEW
Chapter 1: Global Air Navigation Policy
Chapter 2: Near Term Standardization – ASBU Block 0 and 1
Chapter 3: Continuing Strategic Planning – ASBU Blocks 2 and 3
Chapter 4. Implementation-Turning ideas into action
Chapter 5: Aviation System Performance: Analysis and Reporting

Appendices:
1. GANP Ownership, Overview and Evolution;
2. Hyperlinked Online Support Documentation;
3. Technology Roadmaps; and
4. SARPs Development Planning.



Flow chart for regional and national planning

What is new in the revised Global Plan?

No	Current version (Nov 2006)	Upcoming revised version (Nov 2012)
1	Scope covers only ground equipment for ANSPs	Scope extends to airspace users and regulators involving Airlines and CAAs
2	P (paper)–based	E (electronic)–based

What is new in the revised Global Plan?

No	Current version (Nov 2006)	Upcoming revised version (Nov 2012)
3	Does not support planning tools for its implementation	Detailed guidance available online on the related website
4	Addresses individual improvements through GPIs	Addresses a package of improvements through ASBU Modules encompassing all GPIs

What is new in the revised Global Plan?

No	Current version (Nov 2006)	Upcoming revised version (Nov 2012)
5	No individual roadmap for enablers	Separate technology roadmaps for C, N, S and IM
6	Aircraft equipage not specified	Avionics roadmap included

What is new in the revised Global Plan?

No	Current version (Nov 2006)	Upcoming revised version (Nov 2012)
9	Global plan was not presented to Industry forum	Global Plan reviewed by GANIS
10	Implementation was based on near term and medium terms	Implementation is based on near, medium and long terms through Blocks 0, 1, 2 and 3 timeframes

What is new in the revised Global Plan?

No	Current version (Nov 2006)	Upcoming revised version (Nov 2012)
11	Supported by paper based Regional ANPs	Supported by web based Regional ANPs, called eANPs
12	Quantification of fuel savings and corresponding environmental benefits are not available	ICAO Fuel Savings Estimation Tool (IFSET) will be a part of the revised global plan

Regional Agreement

- Regulators will now be part of regional and national air navigation planning process by supporting required regulatory needs for ASBU modules
- Regional agreement for the implementation of ASBUs will be reflected in the respective regional air navigation plans through PIRG process
- National planning will also follow ASBU methodology thus deriving all benefits for all the entities
- The FASID part of the regional plans is now needed to reflect ground systems as well as avionics to implement the respective ASBU modules. This process ensures commitment by all States, Users and ANS providers for the implementation work programme.

Revised GANP -International Agreement at AN-Conf/12

- AN-Conf/12 in Montréal, 19-30 November 2012
- Global Air Navigation Plan (Global ANP)
  - Revision 2012; to be released on 30 June 2012
  - First Global Air Navigation Report planned for 2014
- Regional Air Navigation Plan (online format known as eANP) revision – 2012
  - ICAO is progressing towards development of online version of Regional Plans, called e-ANPs for all the regions and will include ASBU methodology. The Regional e-ANPs will be an online interactive plan with access rights to States, International organizations and Regional offices and will be made available at the AN-Conf/12.

Synergies between GANP and GASP

- **Combined Synergies between GANP and Global Aviation Safety Plan (GASP)**

  - A 4 page document describes System of systems
  - Explains development of Safety and Air Navigation Reports
  - Informs update process for both GANP and GASP

ICAO

Uniting Aviation on

Safety | Security | Environment