









Global Strategic ▼ Global Technical ▼ Regional ▼ National ▼

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### **WELCOME TO** THE GLOBAL **AIR NAVIGATION PLAN PORTAL**

The GANP Portal is a web portal where all aviation stakeholders will be able to find the most relevant information related to the GANP





### Overview

- Background information
- Six-steps method
- Resources

ICA

Conclusion

## GLOBAL AIR NAVIGATION PLAN (7th Ed)

#### MULTILAYER STRUCTURE OF THE GANP

Click a level to navigate







https://www4.icao.int/ganpportal/

### **REGIONAL & NATIONAL LEVELS**

- eANP tool
  - Under development
  - Available for the Eighth edition
- National template
  - Under development
  - Available for the Eighth edition





#### Doc 988



# PERFORMANCE MANAGEMENT PROCESS

- Principles:
- Strong focus on desired/required results
- Reliance on facts and data for decision making
- Collaborative justified decision-making

### Manual on Global Performance of the Air Navigation System

Approved by the Secretary Genera and published under his authority

First Edition — 200

International Civil Aviation Organization

# "Fall in love with the **problem**, not with the solution"



# Six steps Method



#### Context

- Global Air Navigation Plan
  - Global Strategic Level: Performance Ambitions
    - ICAO KPAs
  - Global Technical Level:
    - Performance Objectives
    - ICAO KPIs
- Regional Air Navigation Plan
  - ANP Vol III
  - Specific Performance Objectives based on regional requirements



# STEP 1: SCOPE, CONTEXT & AMBITIONS

#### Scope

- National Air Navigation Plan
  - Performance Targets: who, when and where
  - Make clear assumptions on what is "surrounding" it
- National Development Plan



## STEP 2: SWOT Analysis/ set objectives

- Operational analysis (baseline performance)
  - Data collection, process and analyze
  - Monitor current operations
    - KPI OVERVIEW ICAO GANP Portal

For MID:

KPI 01- Departure punctuality

KPI 02 - Taxi-out additional time

KPI 13 - Taxi-in additional time

KPI 14 - Arrival punctuality

- Traffic forecast
- SWOT Analysis
  - Strengths, Weaknesses, Opportunities and Threats
  - → Performance objectives



## STEP 2: SWOT Analysis/ set objectives

#### National level

- National Performance Framework
  - High level SWOT analysis

#### Local Level

- Detailed SWOT analysis
  - Specific
- Performance objectives and KPIs
  - National Performance Framework





- Agree & Prioritize performance objectives
  - Focus area within KPAs
  - → Performance objectives
  - Prioritization

### • **SMART** Objectives

- Specific
- Measurable
- Achievable
- Relevant
- Time-bounded

### • **SMART** Objectives

**PERFORMANCE** 

INDICATORS → ICAO KPIs Catalogue

- **S**pecific
- Measurable
- Achievable
- Relevant
- Time-bounded



• Specific

• Measurable

- Achievable
- Relevant
- Time-bounded

PERFORMANCE INDICATORS

 $\uparrow$ 

VALUE= f(baseline)

**SPEED PROGRESS** 

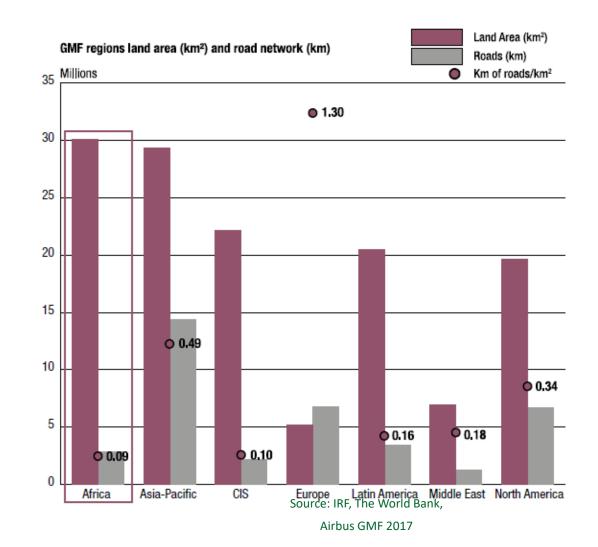
**PERFORMANCE TARGETS** 

**PERFORMANCE BASELINE** 

**PERFORMANCE NEEDS** 

### **Africa**

- Aviation essential for further development
- Challenges
  - Nature: desserts, forest, ocean,...
  - Slow liberalization
  - Limited resources
  - Security



## **Africa**

• Traffic statistics: Average annual growth 2016-2036

Segment	Boeing
Africa -Africa	6.5%
Africa - Europe	4.7%
Africa - Middle East	7.6%
Africa - North America	5.9%
Africa - Southeast Asia	5.7%

# Nigeria



Source: NIGERIAN NATIONAL BUREAU OF STATISTICS

# Nigeria



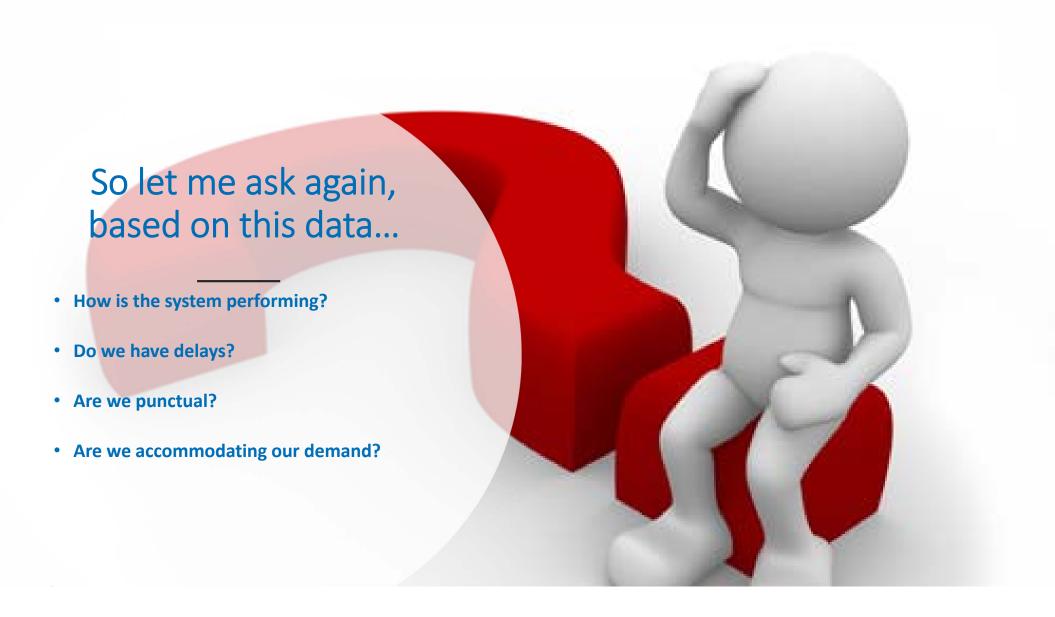
- FIR: Kano
  - Sectors: Kano and Lagos
- Several TMAs
- 30 aerodromes
  - 9 international aerodromes

YEAR 2016	Abuja	Calabar	Enugu	Kaduna	Kano	Lagos	Maiduguri	Port Harcourt	Sokoto
Passengers	936,814	199,880	353,972	129,804	413,906	2,984,829	10,0928	1,041,821	96,358
Cargo (kg)	3,313,209	2,587	-	-	6,930	175,740,101	-	5,532,259	-
Operations	12,730	3,129	5,394	2,407	4,666,520	28,307	4,411	19,848	1,966



		Abuja	Kano	Lagos	Port Harcourt
KPI01	DEPARTURE PUNCTUALITY (10 MIN)	10%	63%	63%	7%
KPI02	TAXI-OUT ADDITIONAL TIME (MIN)	5 over 7min	3*	3*	6 over 6min
KPI 09	AIRPORT PEAK ARRIVAL CAPACITY (RADAR)	30	30	45	30
KPI 09	AIRPORT PEAK ARRIVAL CAPACITY (NO RADAR)	12	15		15
KPI 10	AIRPORT PEAK ARRIVAL THROUGHPUT	28	28	42	28
KPI 11	AIRPORT ARRIVAL CAPACITY UTILIZATION	75%	75%	67%	75%
KPI 13	TAXI-IN ADDITIONAL TIME (MIN)	3 over 7min	3	5	5 over 5min
<b>E</b> I 14	ARRIVAL PUNCTUALITY	15%	7%	1%	15%
<b>№</b> 114	ARRIVAL PUNCTUALITY	15%	7%	1%	15%





		Abuja	Kano	Lagos	Port Harcourt
		Abuja	Natio	Lagos	Port Harcourt
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# STEP 4: IDENTIFICATION OPT. SOLUTION

- Assessment of the SWOT analysis
  - Dominant factors:
     main constraints/opportunities
    - → selection and prioritization of opportunities and issues

### STEP 4: **IDENTIFICATION OPT. SOLUTION**

### List of options

- High-level strategy
- ASBU Framework Operational concept
- Technical enablers
- Baseline
- Availability
- Safety Assessment
- Human Factors Assessment
- Assessment of expected performance







Global Strategic ▼ Global Technical ▼ Regional ▼ National ▼

THE GLOBAL **AIR NAVIGATION PLAN PORTAL** 

**WELCOME TO** 

The GANP Portal is a web portal where all aviation stakeholders will be able to find the most relevant information related to the GANP



#### THE GLOBAL AIR NAVIGATION PLAN

The Global Air Navigation Plan (Doc 9750) is the ICAO's highest air navigation strategic document and the plan to drive the evolution of the global air navigation system, in line with the Global Air Traffic Management Operational Concept (GATMOC, Doc 9854) and the Manual on Air Traffic Management System Requirements (Doc 9882). It also supports planning for local and regional implementation.

In order to better communicate with technical and high-level managers and to not leave any State or stakeholder behind, a multilayer structure, tailored for the various audiences, is proposed for the sixth edition of the GANP. This multilayer structure of four layers; two global levels, a regional

# STEP 4: IDENTIFICATION OPT. SOLUTION

#### Make decisions

- Information available
  - Scope
  - Performance objectives and targets
  - Assessment of SWOT analysis
  - List of possible solutions (ASBUs)

### Plus...

- Associated Safety Assessment
- Associated Human Factors Assessment
- Associated Environmental Impact Assessment
- Associated Cost-benefits analysis

Negligible

5E

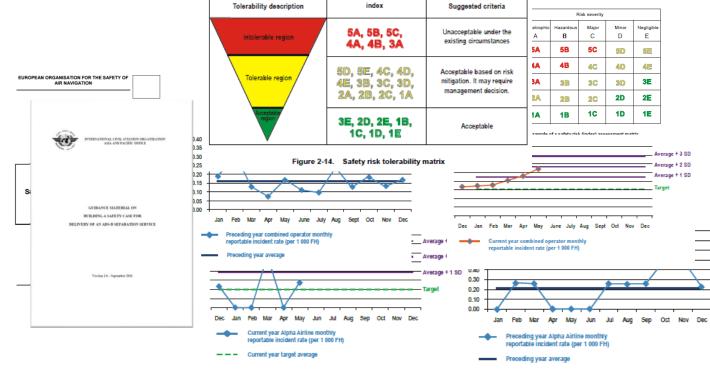
3E

2E

1E

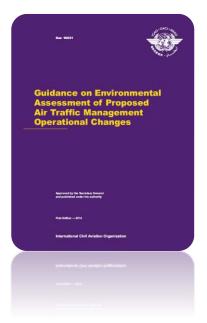
#### Safety assessment guidance

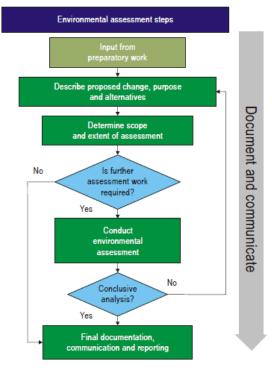




Assessed risk

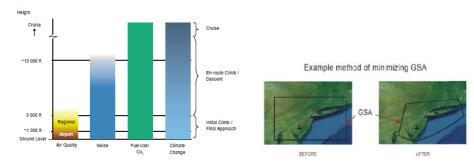
### **Environmental impact assessment guidance**



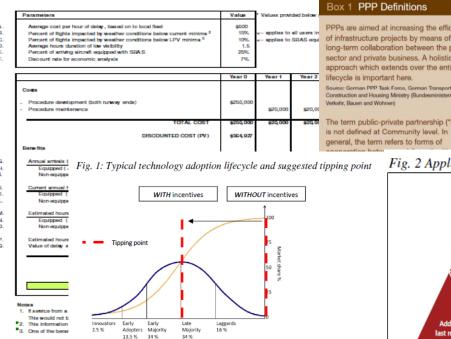




Height AGL Impact	Below 1 000 ft (300 m)	1 000-3 000 ft (300-900 m)	3 000-10 000 ft (900-3 000 m)	Above 10 000 ft (3 000 m)
Air quality (e.g. NOx, PM, etc.)	Most relevant	Relevant (Note 1)	Less relevant	Less relevant
Noise	Potentially (Note 2)	Relevant	Relevant	Potentially (Note 3)
Fuel use / CO <sub>2</sub>	Relevant	Relevant	Most relevant (Note 4)	Most relevant (Note 4)
Climate change	Relevant	Relevant	Most relevant (Note 5)	Most relevant (Note 5)



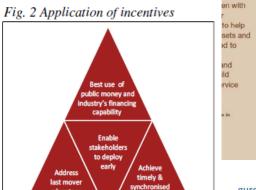




Source: Everett Rogers, Diffusion of Innovations (5th edition), WG1 analysis



'Public-Private Partnership' is a generic term for the relationships formed between the





gure 1 - Relationship between business case, CBA, CEA and EIA



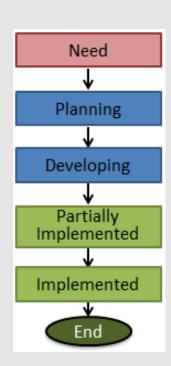
# STEP 4: IDENTIFICATION OPT. SOLUTION

- Make decisions
  - Information available
    - Scope
    - Performance objectives and targets
    - Assessment of SWOT analysis
    - List of solutions (ASBUs)
    - Safety Assessment, HP Assessment, CBA and Environment Impact Assessment
  - Single optimum solution or a roadmap of optimum solutions

### STEP 5: DEPLOYMENT OF THE SOLUTION

### Execution phase

- Planning
- Implementation
  - National mechanism for tracking the Implementation of the elements
- Benefits



### STEP 6: ASSESSMENT OF RESULTS

- Continuously assess performance
- Monitor progress of implementation
- Review actually achieved performance
  - Update performance gaps
- → +(Step 1&2)=

**PERFORMANCE MONITORING AND REVIEW (PRM)** 

### STEP 6: ASSESSMENT OF RESULTS

#### • Tasks in the PMR:

- Data collection
- Data publication
- Data analysis
- Formulation of conclusions; and
- Formulation of recommendations.

# Six steps Method



### Resources

Skytalk

#AirNavConf Skytalk: ICAO Global Air Navigation Plan (GANP) & Aviation System Block Upgrades (ASBUs) - YouTube

AN-SPA

AN-SPA - ICAO GANP Portal



## CONCLUSION

Don't wait for perfection before you start. Start somewhere so you can have something tangible you can work to perfect.

Simon Sinek





### Thank You!