



| ICAO

UNITING AVIATION

NATIONAL AIR NAVIGATION PLAN



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Agenda

- National Air Navigation Planning (NANP) Context
 - GANP
 - ANP
- APAC Basic Plan Elements
- Considerations



NANP Context

- **6th Edition of the GANP**
 - Multilayer structure
 - GANP Portal

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

- **Regional Air Navigation Plan (ANP)**
 - APAC ANP
- **HARMONIZATION**

The image shows a screenshot of the ICAO GANP Portal homepage. The header includes the ICAO logo, the text 'ICAO GANP PORTAL', and social media icons. A navigation bar contains 'Global Strategic', 'Global Technical', 'Regional', and 'National' dropdown menus, along with a 'Logout' button. The main content area features a large image of an airplane and a person, with the text 'WELCOME TO THE GLOBAL AIR NAVIGATION PLAN PORTAL'. Below this, a description states: 'The GANP Portal is a web portal where all aviation stakeholders will be able to find the most information related to'. To the right, the text 'MULTILAYER STRUCTURE OF THE GANP' is displayed above the instruction 'Click a level to navigate'. Below this is a diagram of four stacked diamond shapes representing the levels: LEVEL 1 (blue), LEVEL 2 (light blue), LEVEL 3 (orange), and LEVEL 4 (green). To the left of the diagram, the corresponding labels are listed: GLOBAL STRATEGIC, GLOBAL TECHNICAL, REGIONAL, and NATIONAL.



- **6th Edition of the GANP**

- Multilayer structure
- GANP Portal

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

- **Included improvements:**

- Communication: Tailored to different audiences
- Accessibility: Publically available
- Global, Regional and National

air navigation planning alignment

- Digital:
 - Consistent
 - Relevant
 - Tool development



MULTILAYER STRUCTURE OF THE GANP

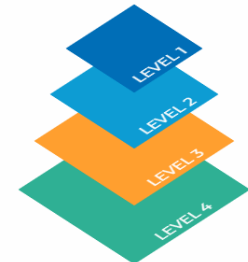
Click a level to navigate

GLOBAL STRATEGIC

GLOBAL TECHNICAL

REGIONAL

NATIONAL





GLOBAL STRATEGIC

Provides high-level strategic directions for decision makers to drive the evolution of the global air navigation system towards a common agreed vision.



GANP DOCUMENT

- **Global Strategic Level**


(https://www4.icao.int/ganportal/GanpDocument#/?_k=cjyevq)

- High-level decision makers
- Umbrella the other three layers
- Challenges and opportunities
 - Continued support of social well-being worldwide
 - Accommodation of increasing demand and new types of demand
 - Use of advanced technologies
 - Human capability and capacity
 - Emerging, new and adapted business models
- Vision
 - URGENT TRANSFORMATION: TURNING CHALLENGES INTO OPPORTUNITIES



GLOBAL STRATEGIC ×

Provides high-level strategic directions for decision makers to drive the evolution of the global air navigation system towards a common agreed vision.



GANP DOCUMENT

- **Global Strategic Level**

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- High-level decision makers
- Vision
 - URGENT TRANSFORMATION: TURNING CHALLENGES INTO OPPORTUNITIES
- Scalable transformation
 - Driven by Performance
 - Increase cooperation and support
 - Forefront of innovation
 - Modernization of the global air navigation system



GLOBAL TECHNICAL ×

Supports technical managers in planning the implementation of basic air navigation services and new operational improvements in a cost-effective manner.



ASBUs AN-SPA BBBs

- **Global Technical Level**
 - Technical managers
 - Global technical frameworks
 - Basic Building Block (BBB) (<https://www4.icao.int/ganportal/BBB>)
 - Aviation System Block Upgrade (ASBU) (<https://www4.icao.int/ganportal/ASBU>)
 - Performance Framework
 - Performance Objectives (<https://www4.icao.int/ganportal/ASBU/PerformanceObjective>)
 - List of KPIs (<https://www4.icao.int/ganportal/ASBU/KPI>)
 - Performance Dashboard (<https://www4.icao.int/ganportal/ASBU/PerformanceDashboard>)

More info: tutorial: <https://www4.icao.int/ganportal/Tutorial>



REGIONAL ×

Addresses regional and sub-regional needs aligned with the global objectives.

- AFI ANP
- APAC ANP
- EUR ANP
- MID ANP
- NAM ANP
- NAT ANP
- CARSAM ANP

- **Regional Level**

- Seven ICAO Regional Air Navigation Plans (ANPs)
- The Commitment of States to international civil aviation
- In 2014, new ANP template aligned with the GANP
 - Volume I - Stable Air Navigation implementation requirements (e.g. FIR boundaries)
 - Volume II - Dynamic Air Navigation implementation requirements (e.g. ATS routes)
 - Volume III – Regional planning elements (e.g. Asia/Pacific Seamless ANS Plan)
- Migration of ANPs to new template (pdf format)
- Electronic management of ANPs (eANPs system)
 - Publication:
 - Vol I within the next months
 - Vol II by the end of the year
 - PfAs
 - Beginning 2021



NATIONAL ×

Development by States, in coordination with relevant stakeholders, of air navigation plans aligned with regional and global plans.


NANP
TEMPLATE


CBA
CHECKLIST

- **National Level**

- National Air Navigation Plans (NANPs)
- CBA Checklist
 - <https://www4.icao.int/ganportal/CBA/Checklist>
- HARMONIZATION with ANPs and GANP
- NANP Template
 - Challenging
 - Draft template - Ongoing validations
 - Seventh edition of the GANP



APAC Basic Plan Elements

1. **BACKGROUND**
 - General description of the Plan's benefits (BPE 1)
 - General description of the costs (BPE2)
 - Details of how the State Plan connects to global and regional planning hierarchy (BPE 3)
2. **STAKEHOLDER CONSULTATION**
 - Description of the process used to consult with stakeholders, including the military (BPE 4)
 - Endorsement of the plan by key stakeholders (BPE 5)
3. **ANALYSIS**
 - Priorities and ASBUs applicability (BPE 6)
 - Elements that are deemed to not be applicable and rational behind it (BPE 7)
4. **PLANNING**
 - Implementation process, design systems and provide implementation feedback (BPE 8)
 - Responsible for implementation and timelines (BPE 9)
5. **PROGRESS**
 - Monitoring of the implementation (BPE 10)



CONSIDERATIONS

- National context
 - Link to National Development Plans
 - Enable access to funding of sustainable aviation development topics
 - Link to other deliverables
 - Maintenance plans (for instance of systems), investment plans, training plans, SSP, SMS, budget control, etc.



CONSIDERATIONS

- Collaboration
 - Identification of all stakeholders
 - CBA
 - Deliverables synchronization
 - Committee with roles and responsibilities
 - Process for maintenance and approval of the plan



CONSIDERATIONS

- Multilayer structure
 - Strategy vs. technical content
- Scope
 - Table of content
- Know your system: analyze, do not jump into solutions
- Drive the plan by performance
 - GANP Performance framework
 - AN-SPA
(<https://www4.icao.int/ganportal/ANSPA/Reports>)



CONSIDERATIONS

- Choose the optimum solution
 - Consider feasibility
 - Safety assessment, environmental assessment, HF assessment, CBA
 - Consider dependencies
 - Maximize benefits
- Deployment plans



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!