



**Network Manager**  
nominated by  
the European Commission



# Quality Management System (QMS)

Workshop for the development of Operational skills for the transition from AIS to AIM for Civil Aviation Authorities (CAA) and Air Navigation Service Providers

28 May – 1 June 2018

Dakar

Gaston Liegeois  
Directorate Network Manager  
[gaston.liegeois@eurocontrol.int](mailto:gaston.liegeois@eurocontrol.int)

# QMS

## *Need for a Management System?*

- To protect our business/ assets/ reputation/ brand image
  - Business continuity, availability of operational systems
- Best practice / lessons learnt
- To maintain/ increase confidence/ assurance (internal & external – public & stakeholders)
- Better clarity in roles & responsibilities
- Increased complexity and interactions
- Increasing and changing threats and vulnerabilities
- To protect against legal action
- Insurance requirement

## AND

- Compliance with regulations

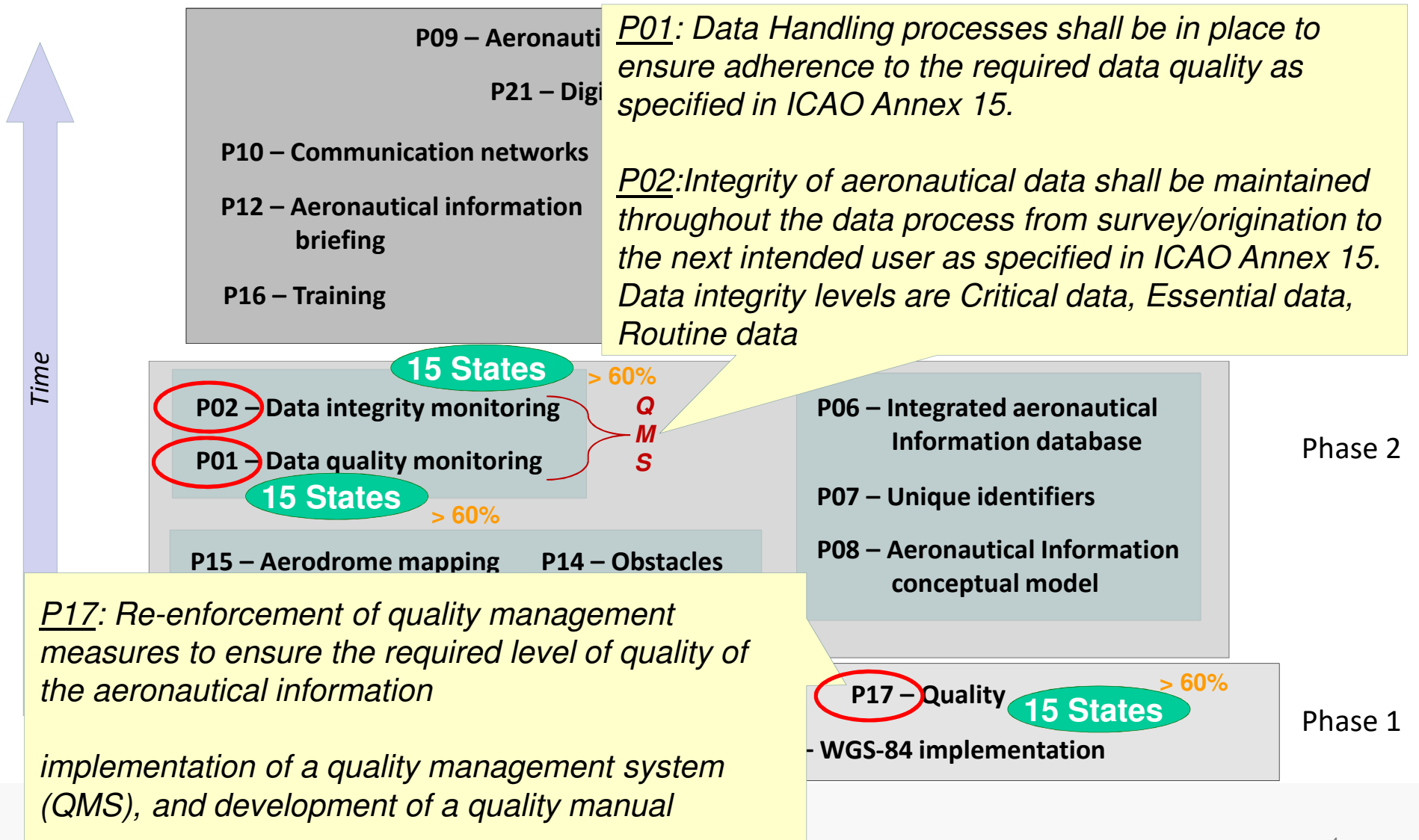
# QMS

## *What is a management system?*

- Way in which an organization manages the inter-related parts of its business in order to achieve its objectives
- Formalised : Includes all activities, arrangements and measures that an organization uses to manage and improve its output/ performance.
- More efficient use of resources
- Increased capability to deliver consistent and improved services and products customers
- Proactive approach to managing risks

# AIS to AIM roadmap

## WACAF (24 States) transition progress status – Steps implemented



# QMS

## *PANS-AIM Quality management system requirements (chapter 3)*

- a) Develop a quality manual that includes the scope of the QMS as applied to AIM processes
- b) Identify the processes needed for the QMS
- c) Determine the sequence and interaction of these processes
- d) Determine criteria and methods required to ensure the effective operation and control of these processes
- e) Ensure the availability of information necessary to support the operation and monitoring of these processes
- f) Measure, monitor and analyse these processes, and implement action necessary to achieve planned results and continual improvement
- g) Maintain appropriate records that are necessary to provide confidence of conformity of the processes and resulting product

*In the framework of the quality management system, a user feedback system shall be defined and implemented.*

# QMS

## *General principle*

- Each State shall have a properly organized quality system that contains procedures, processes and resources necessary to ensure the Quality Management (QM) at each stage of data processing
- The State's QMS must be effective and implemented at all stages of the data process, including receiving, originating, collating, assembling, editing, formatting, publishing, storing and distributing the information
- Data must be traceable at any point back through each stage of the process, to the origin

# QMS

## *General principle - Personnel*

- The QMS should also include that the personnel to possess and use the skills to operate the QMS.
- Records of qualifications and training shall be maintained of personnel based on the specific function they performed.
- Periodic checks shall be taken to ensure that personnel continue to meet the required standards and if shortfalls are found, corrective measures are taken to correct them.

# QMS

## *General principle - Documentation*

- All necessary documents are readily available for reference at the AIS headquarters and at aerodrome/heliport AIS units:
  - In-house manuals and procedure handbooks
  - International standards and guidance material such as the ICAO Documents and Annexes
  - Other publications from IATA, EUROCONTROL, etc.



# QMS

## *Quality Manual - Content*

- AIS/AIM Organisation
- Scope (service provided, etc.)
- Quality Policy
  - Commitment to quality, meet customer's expectations, continual improvement, etc.
- Policies, processes, procedures and resources necessary to implement quality management at each function stage of the aeronautical information data chain
- Reference to documented procedures, establishment of responsibilities
- Competencies (skills and knowledge) required for each function shall be identified (Job description)
- Organization and Personnel assigned to perform those functions (process owner, actor(s))
- Performance Indicators associated to the different functions in order to monitor and apply continuous improvements

# QMS

## Participants feedback – sharing experience

- Describe internal QMS at high level: procedures, processes, etc.
- Interaction with QMS
- KPI in place