



INTERNATIONAL CIVIL AVIATION ORGANIZATION

MIDDLE EAST OFFICE

ICAO SPECIAL IMPLEMENTATION PROJECT (SIP)

**WORKSHOP ON THE DEVELOPMENT OF BUSINESS CASE FOR THE
IMPLEMENTATION OF CNS/ATM SYSTEMS**

(CAIRO, 6 – 9 SEPTEMBER 2004)

AGENDA

Agenda Item 1: Essentials of CNS/ATM systems

- @ Development of CNS/ATM systems concept
- @ Planning, implementation and harmonization of CNS/ATM systems leading to a global ATM system – Global /interregional/regional/subregional /national levels

Agenda Item 2: Details of CNS/ATM systems

- @ Air Traffic Management
- @ Communications
- @ Navigation
- @ Surveillance

Agenda Item 3: Business case development

- @ Definition
- @ Traffic forecast
- @ Economic assessment and Cost/benefit analysis
- @ Organizational issues
- @ Financial analysis and Funding
- @ Risk management

Agenda Item 4: Hands-on exercises for the development of business case

- @ Participation in practicum for the development of business case for the implementation of CNS/ATM systems
- @ Group discussion
- @ Formulation of Conclusions and Recommendations

The exercises will be conducted using a spreadsheet model of business case software, which includes the following two levels:

Module I: A scenario explaining the implementation of CNS/ATM systems with inputs provided by States on current and future equipments

Module II: An interactive financial analysis with data derived from Module I

Agenda Item 5: Future developments

- @ Work programmes of ANC panels,
e.g. ACP, OCP, ATMCP, SASP, NSP, SCRSP and OPLINKP
- @ CAEP work programme – Environmental benefits of CNS/ATM systems
- @ Overview of emerging technologies, e.g. GALILEO, GRAS, ADS-B and ASAS
- @ Report on global and regional developments in the modernization of air navigation systems
- @ Follow-up to AN-Conf/11

Reference Documents:

1. *Development of business case for the implementation of CNS/ATM Systems – Guidance Material* (draft ICAO Circular)
2. *Global Air Navigation Plan for CNS/ATM Systems* (ICAO Document 9750)
3. *National Plan for CNS/ATM Systems – Guidance Material* (ICAO Circular 278)
4. Middle East Regional Plan for CNS/ATM Systems

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