



CNS/ATM IN THE CAR/SAM REGIONS

What Next

**on
Project RLA 98/003**

**Presented by Lima and Mexico
ICAO Regional Offices**



What next in Project RLA 98/003



Primary objectives.

- **One seamless Global ATM.**
- **Improve/Maintain safety.**
- **Improved Operational efficiencies**
- **Reduced Unit Cost (ANSP/Airlines).**
 - Integration
 - Rationalization
 - Harmonization



What next in Project RLA 98/003



Considerations.

- Financial difficulties States and Airlines.
- Technical/Operational uncertainties
 - Equipment still being refined
 - Cost of systems still uncertain
 - Performance still being evaluated
 - Availability still uncertain.
- 11th Air Navigation Conference (Fall 2003)
 - Backup or not
 - What type
 - State Commitments



Transition Strategy Approach

- Minimum Risk;
 - Technical Obsolescence
 - Costly upgrades or modifications
- Maximum Benefits;
- Maintain Interest level or momentum
- Timing co-ordination with airlines
- Timing co-ordination with Europe/North America.



What next in Project RLA 98/003



Transition Strategy

Based on:

- ATM Requirements
- Availability of technology
- Interdependence between Europe/North America.
- Financial/Political READINESS.



What next in Project RLA 98/003



Continue:

- Implementation of RNAV – RNP routes
- Implementation of RVSM
- Eliminations of shortcomings.

What next in Project RLA 98/003



Next Activities:

- Development of broad Implementation Scenarios in consultation with states/airlines.
- Investigate applicability of Institutional arrangements.
- Detail study of ACC Automation in the regions.

“Integration”
“Rationalization”
“Harmonization”



GNSS milestones

2003	Limited WAAS
2003	11th Air Navigation Conference
2004	Limited GBAS
2005	Introduction of L5 frequency
2005	Begin replacement of GPS constellation
2006	Full WAAS operational capabilities
2008	Implementation of Galileo
2010	Begin replacement of conventional NAVAIDS.



What next in Project RLA 98/003



Next Activities:

- Investigate institutional issues
- Investigate potential of Setting up Regional Databases
- Review of CNS Implementation Options as a result of the 11th ANC.
- Review of CNS Implementation timelines as a result of the 11th ANC



What next in Project RLA 98/003



Next Activities:

- Develop evolutionary transition to Global ATM
 - Operational considerations
 - Technical considerations
 - Institutional consideration
- Develop supporting CNS (as per ATM req.)
- Perform CBAs
- Develop Business Cases



What next in Project RLA 98/003



SUMMARY

- Next activities will require increased States Participation
- Next activities will require increased Airlines Participation
- Heavily dependent on 11th ANC
- Heavily dependent on Economic/Political situation.

« But whatever is done, It must contribute
Towards the realization of the Global ATM »

ICAO。OACI。ИКАО

GRACIAS

国际民航组织