

CANSO

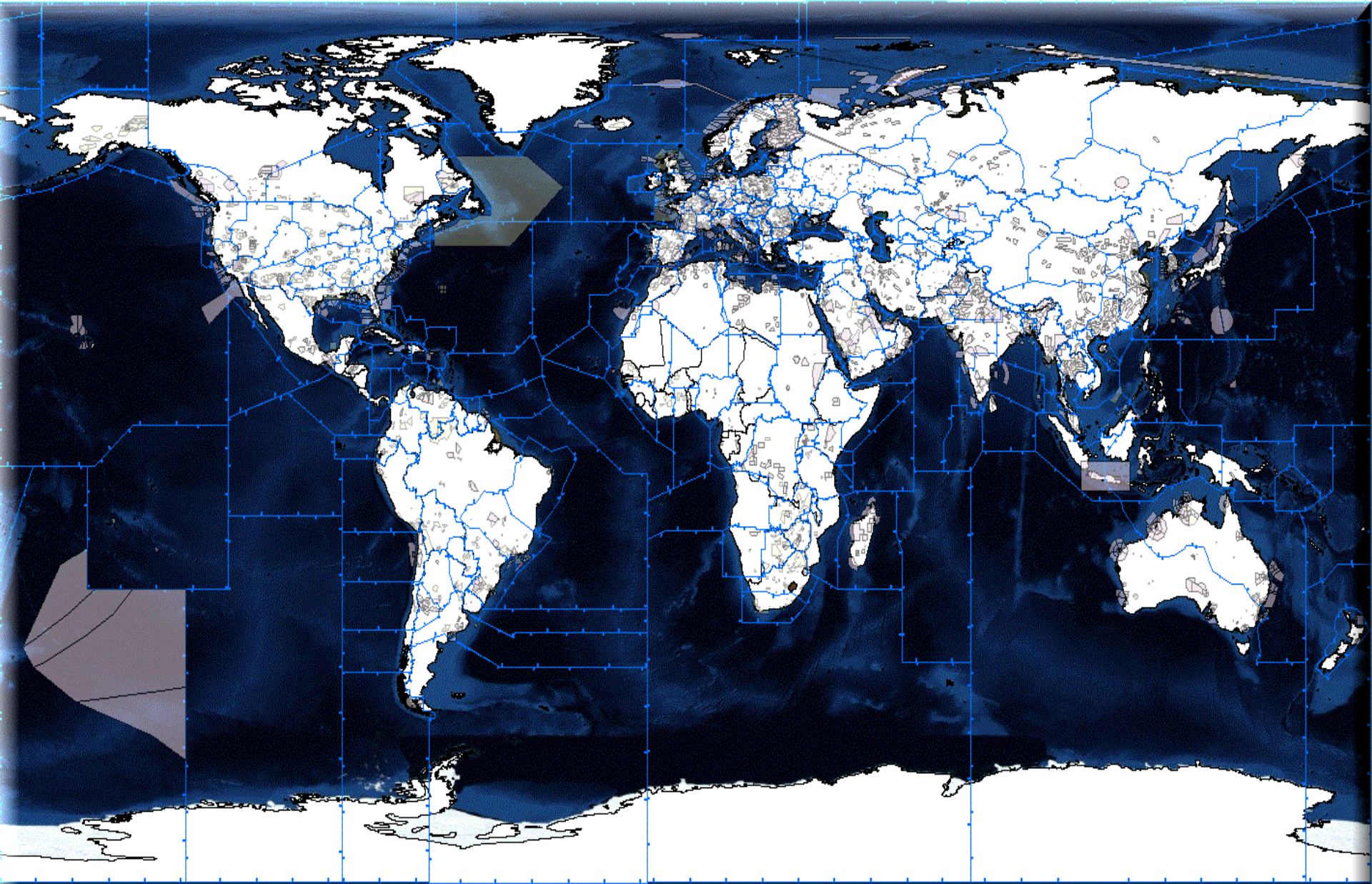
An Industry Perspective

Lima, May 15th, 2012

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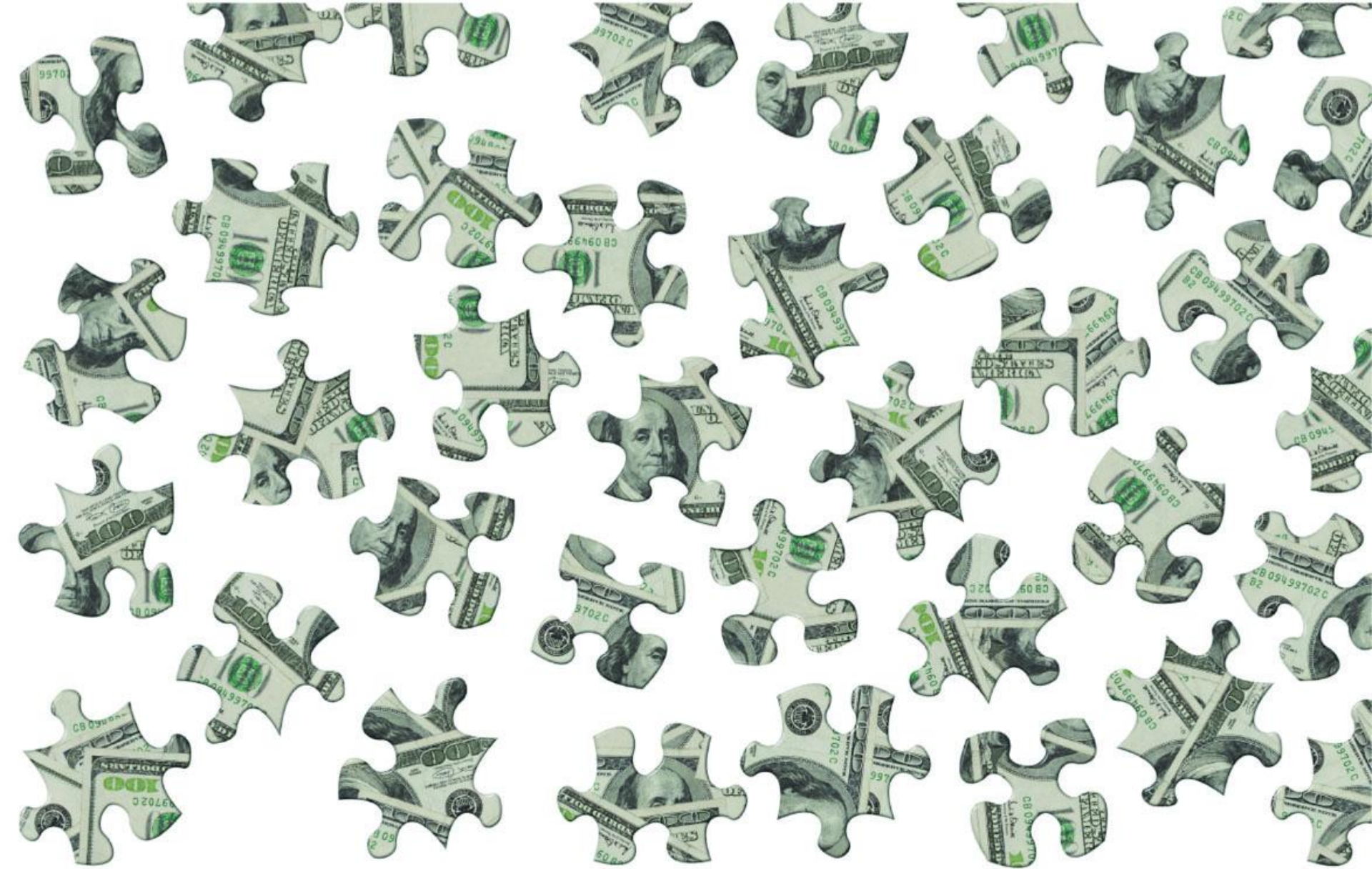


Miles

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The global voice of ATM







What is it about?



- CANSOs opportunity to clearly state the desired industry outcomes of the ASBU initiative
- ANSP opportunity to identify Outcomes as well for the ASBU effort
 - What do you need?
 - What are your goals?
- Associate members collaboration to provide innovation to ICAO, Regions, etc., when an issue is identified by offering examples, alternatives or in some instances solutions
- Collaborate through CANSO secretariat position at ICAO



CANSO-ICAO Partnership



ADVISOR

CANSO advises ICAO on matters of critical import to all ANSPs, to ANSPs as a group

FORUM

CANSO acts as a global forum for ANSP Best Practices, and will help globalize ASBUs

AUTHOR

CANSO is authoring several modules, and is supporting the development of others

The Objective

➤ **ANConf/12**

➤ Acknowledge Block 0

➤ Agree to Block 1

➤ Endorse the Strategic Direction to Blocks 2 & 3

➤ Block 1 will serve as the enabler and foundation for the envisioned future aviation systems.

Approval
Plan

Procedures

Technology

Transition
Strategy

Business
case

Regulatory
approvals

Operational
Trial



Performance
improvements

Module

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Plan

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Performance
improvements

2013

2014

2015

2016

2017

Greener
Airports

Remote TWR

A-SMGCS

A-CDM

Wake Vortex

Global Introp
Systems &
Data

FF-ICE 1

SWIM

Digital AIM
products

Optimum
Capacity & Flex
Flights

In-trail ADS-B

Dynamic ATS
Routing

CDM+Flt.Planning

Interval
Management

Efficient Flight
Path

OPDs

Initial 4DT

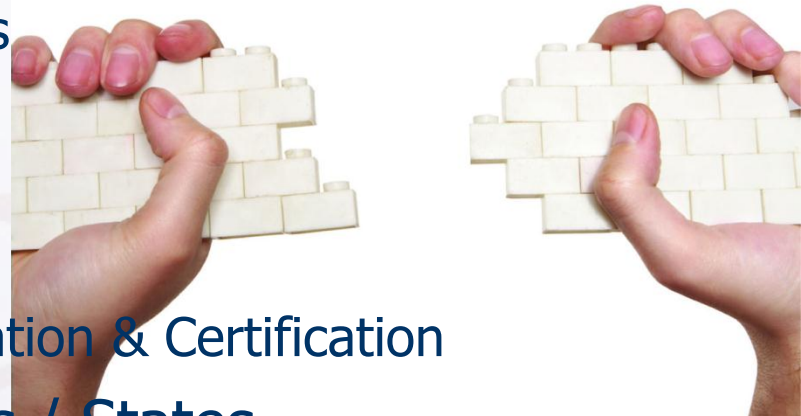
RPAs

The global voice of ATM



Harmonized ATM- Towards a truly seamless global system

- Align firmly with Block concept- Operators & OEMs
 - Synchronized investments in avionics (Roadmaps)
 - Removes need for regulatory mandates
 - Reduces lead time (6 years away)
 - Reduces costs
 - Minimizes Retrofits (aircraft downtime)
 - Integrated Avionics and quicker installation & Certification
- Synchronized investments by ANSPs / States
 - Block design recognizes regional differences
 - Reduces complexity of competing safety priorities
 - Integrates Needs of domestic & international operations
 - Recognizes Budgets
 - Threads the "modules"



CANSO comments on Block 1



- Budget considerations greater for Block 1
 - Involves technology insertion in ground and/or air
- Requires moving to network-based communications
 - Many States require substantial infrastructure investment
- Regional synchronization issues
 - Equipage and capabilities
 - Essential to successful implementation of future Blocks

Challenges - How to Get There?

- Budget considerations are greater for Block 1 since these modules do involve technology insertion in either ground/air or both.
- Block 1 has a strong dependency on moving to network based communications for aviation.
- There are regional synchronization issues of equipage and capabilities to achieve much of Block 1. This is essential to the successful implementation to the future Blocks.
- Global standards can alleviate such risks and ensure interoperability between regional ANSPs. Global standards also offer stakeholders a common rubric.

CANSO update



- Feedback to CANSO helped immensely:
 - A better understanding of ANSP requirements and challenges
 - Feedback to the Tech Team for ASBU revisions
 - Inputs to Roadmaps
- CANSO now serves as a “global voice”; the transition to a “Global Partner” needs to take stage now
 - States and ANSPs to ‘socialize’ ASBUs
 - Global Best-Practices, in the spirit of “Partnership for Progress”

The CANSO Position



- **Need for STANDARDS NOT MANDATES**
- Need for Global Interoperability very clear:
 - Avionics-Ground system: *very long lead time*
 - Ground-Ground stakeholders: *more connectivity desired, supported*
- Diverse regional requirements need greater recognition:
 - Seamless operations require synchronized investment across multiple FIRs
 - Many States have particular needs, priorities, and approaches not always shared by others

The CANSO Position- focus



➤ NOT A MANDATE

- Unification of Global Initiatives
 - Focus of NextGen, SESAR, CARATS, FIANS, CNAS, et al
 - Concentrated, focused, modular, complete
- Harmonization of Timeframes and Capability
 - Globally between regions and larger actors
 - Regionally between neighbors
 - Domestically between States and ATC stakeholders
- Business Case
 - Justification for internal action
 - Cross-organizational stakeholder buy-in
 - Supports Cost-Benefit Analyses

thoughts... feedback message to ANSPs



- Cross-reference ATM plans with ASBUs
- Focus on Operational Improvements and less on Technology
- Start talking to the Regulator NOW!
- Consult with GA, Military, stakeholders (don't forget DOM)
- Look at Training requirements: involve controllers early!
- Work to Regional Agreements
- Metrics and CBAs are 'key' to success; including:
 - Investments
 - Minimize mixed equipage
- Address your Safety Net requirements; for example:
 - Hazard Identification and Risk Assessment (HIRA)
 - Airspace re-design

Challenges to Global Harmonization

- It is critical that future ATM technologies be compatible and interoperable (**Standards**)
- Integration of new technologies, systems, procedures and concepts into domestic airspace (**mixing new with old**)
- Regional collaboration to coordinate modernization technologies and time lines (**cross boundary and multilateral harmonization**)
- Service Provider and Operator investment required to realize full benefits (**infrastructure, avionics, procedures**)
- ICAO, CANSO and others must continue leadership role in promoting cross-regional harmonization (**ICAO Block Upgrades**)

Milestones

- CANSO Working Papers
 - Format
 - Actions
 - Support
- ICAO WPs
- Roadmaps (7)
- ASBU development
- Policy (GANP)

Timelines

- Monthly Telcons
- Response to State Letter: done
- End March – review of WPs
- March 2012- GANP
- End April- WP Review by PSC
- End May- Possible collaboration for joint WP (ACI, ECTL, IATA)
- End June – Preview at AGM
- End July – Finalization
- September – CANSO LAMCAR Conference
- October – CIV MIL
- November 16-30??

Muchas gracias



PARTNERSHIP

"You give me half the fish, and I'll tell my mom to let you live."