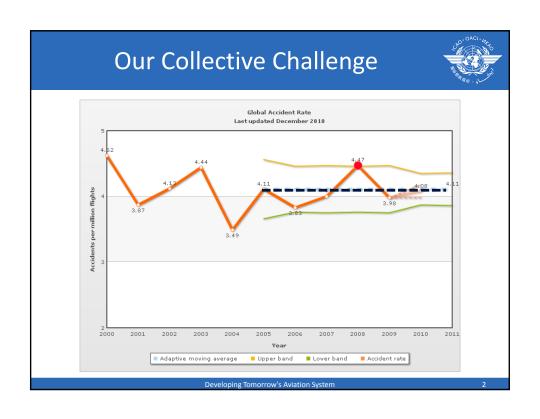


#### **Developing Tomorrow's Aviation System**

Briefing on ICAO's Aviation System Block Upgrades

Vincent Galotti
Deputy Director, Safety Standardization & Infrastructure
Air Navigation Bureau, ICAO

Preparations for AN-Conf/12 – ASBU Methodology Lima, 15 May 2012



# Developing Tomorrow's Aviation System



- Global framework is needed to ensure:
  - Safety is maintained and enhanced
  - ATM improvement programmes are harmonized
  - Barriers to future efficiency and environmental gains are removed, at reasonable cost



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# Developing Tomorrow's Aviation System



- Investment certainty is required for:
  - Operators
  - Infrastructure providers
  - Equipment manufacturers
- Regulatory approval process must be outlined
  - Support States in introduction of significant changes



# Developing Tomorrow's Aviation System



- ICAO developed 4-step plan
- Setting the stage for global interoperability



### Step 1 Get Harmonization on the Global Agenda



- Initial NextGen/SESAR Symposium (2008)
- Convened Standards Organization Roundtable (2009)
- Established working agreements with Standards
   Organizations on shared work programmes

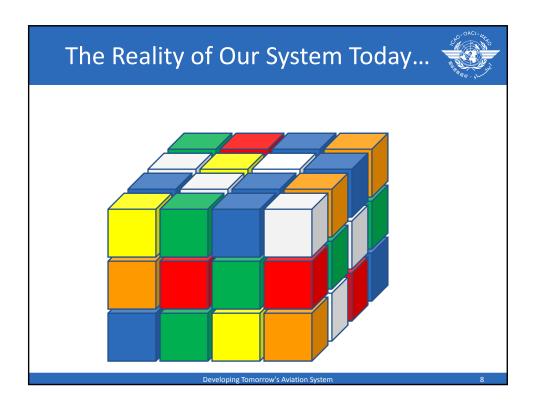
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# Step 2 Global Aviation System Block Upgrades

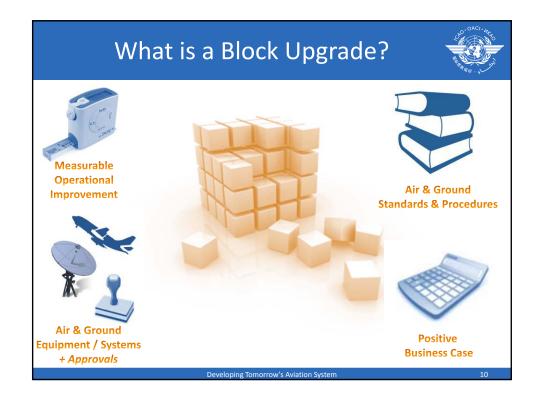
- SO OACI HAY
- Define global aviation system block upgrades
- For interoperability purposes
- Independent of when and where specific ATM improvement programmes are introduced

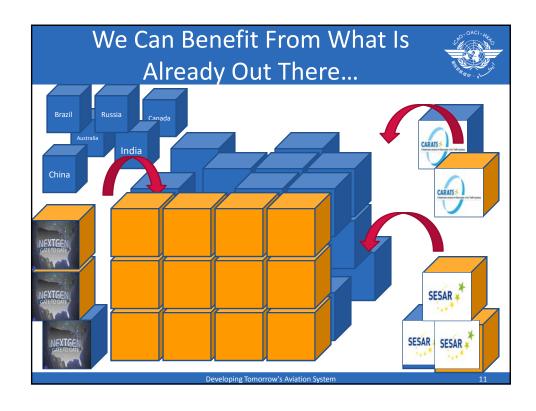
Why is this approach proposed?

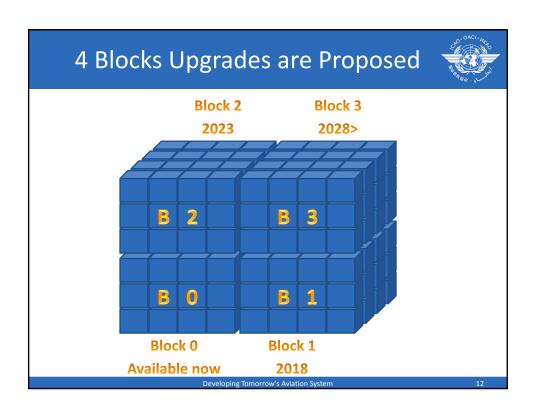
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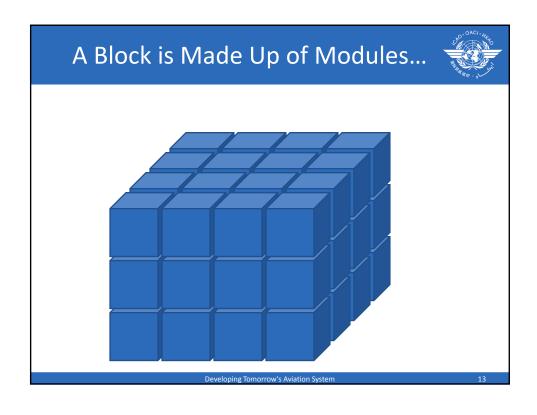


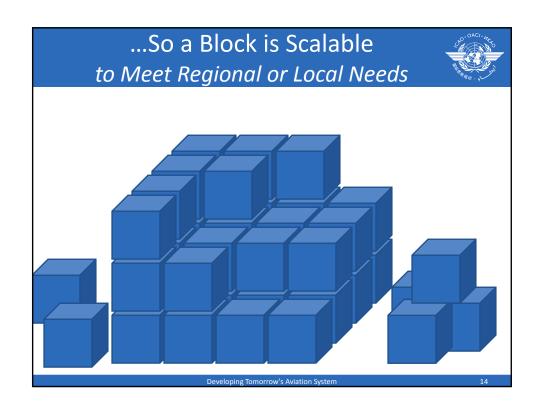


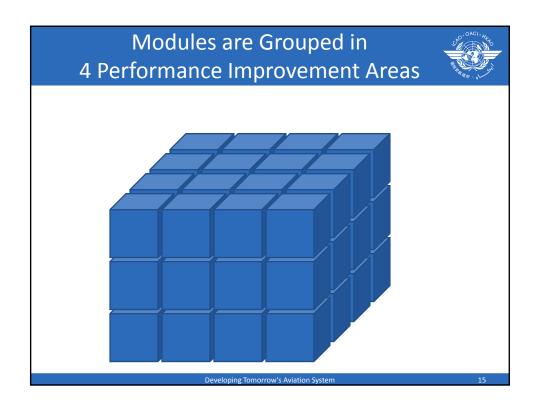




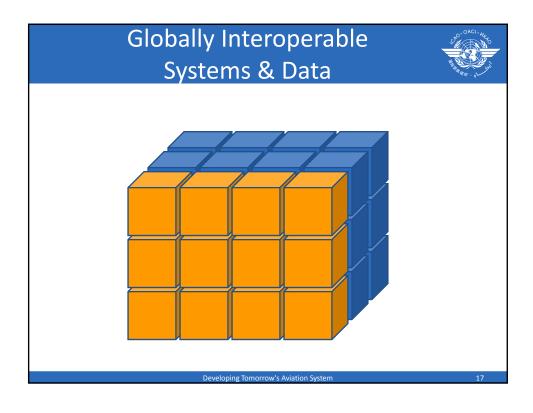


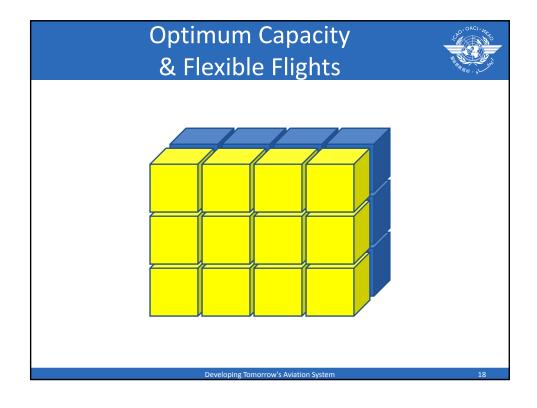


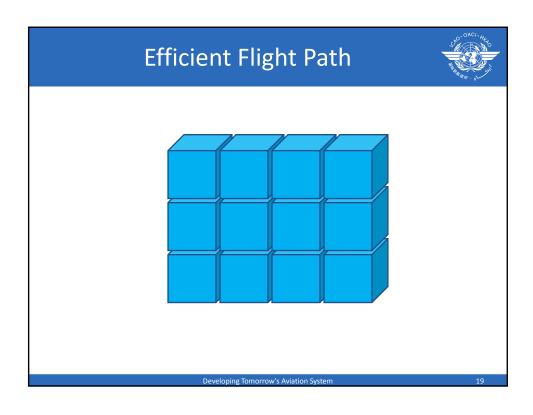


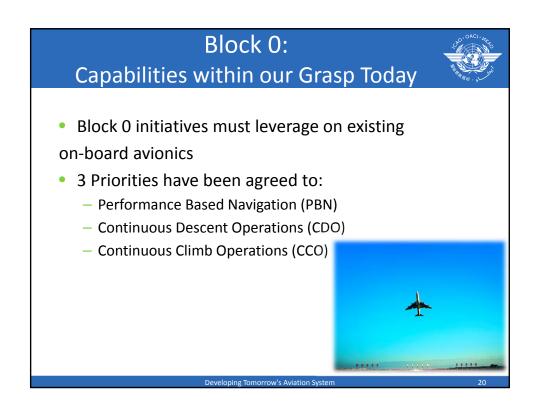


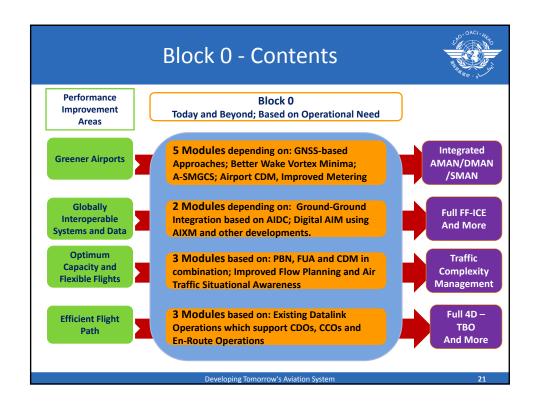


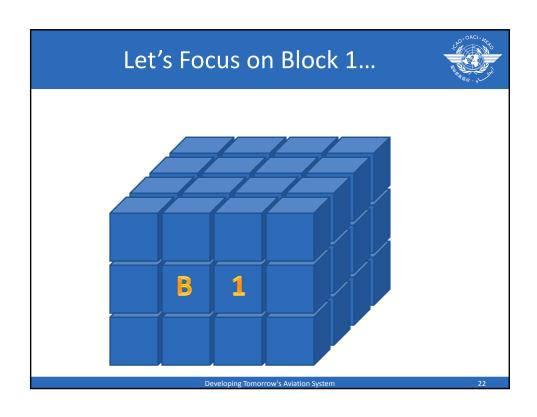


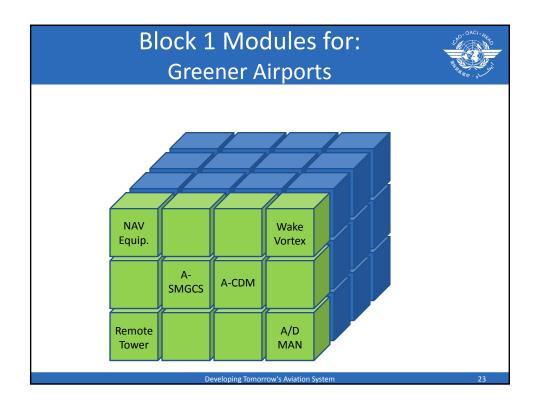


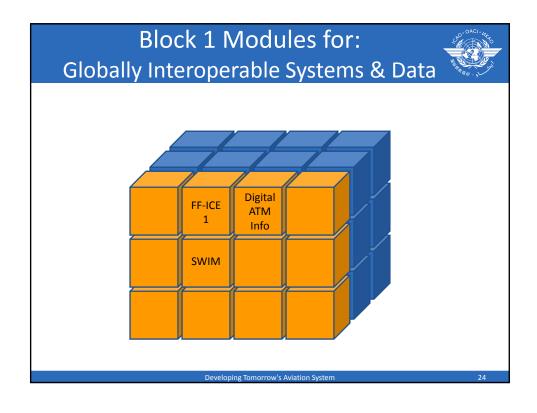


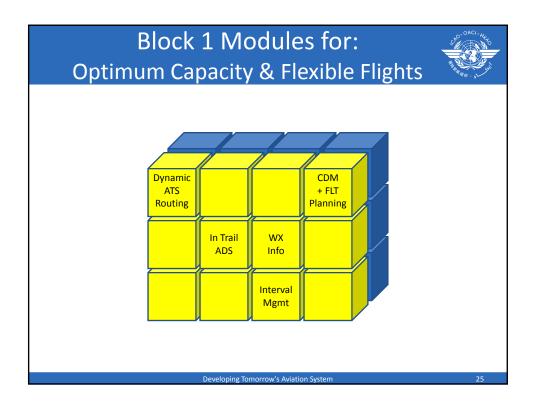


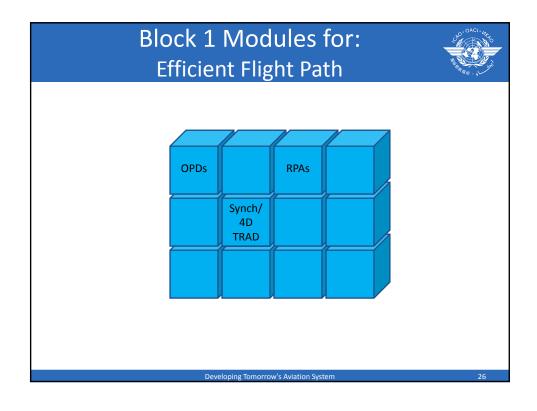


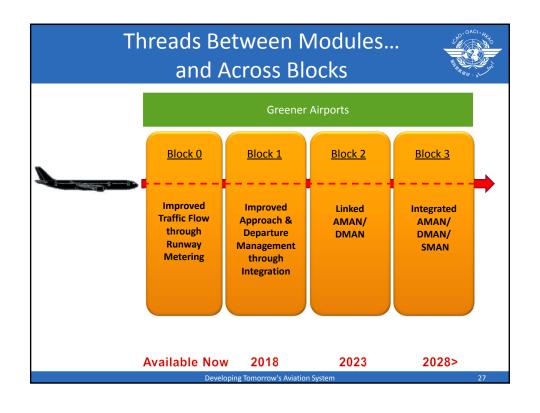


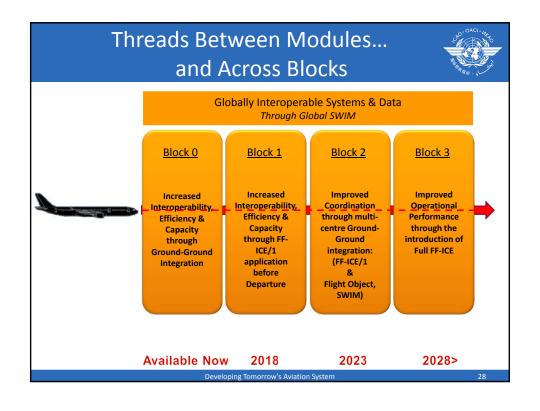


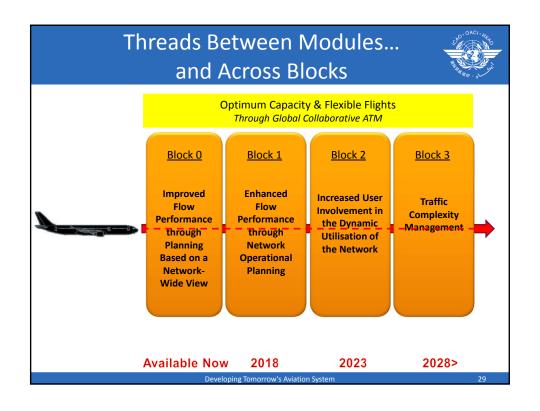


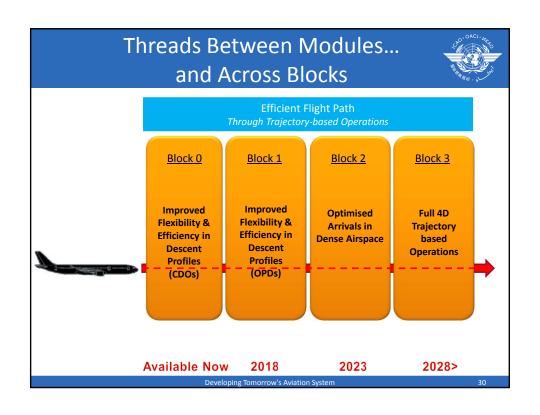












### Step 3 Global Rollout & Feedback at GANIS



- Held Global Air Navigation Industry Symposium
  - September 2011
  - Over 500 participants from Industry, States and international organizations
- Platform to enable feedback
- Industry voice is critical in our planning
- Essential preparation for AN-Conf/12
- Working Document posted on website

www.icao.int/anconf12/asbu

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# Step 3 What Happens Post-GANIS?



- Collected feedback on the Working Document
  - Until 17 October 2011
- Technical Team generated Edition 2 (version 3) of the Working Document
  - Week of 24<sup>th</sup> October 2011
- Edition 2 released for further feedback
  - December 2011
- Proposed revision of Global Air Navigation Plan (GANP)
  - Include technical roadmaps for CNS/AIM, based on ASBUs concept
  - Internal review May 2012
  - Public consultation 30 June 2012
    - In all 6 official ICAO languages
- Proposed GANP content will be discussed at AN-Conf/12
  - 19-30 November 2012

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### Step 4



#### International Agreement at AN-Conf/12

- Montréal, 19-30 November 2012
- Opportunity to formalize future of infrastructure & equipage
- Strategies for longer-term requirements
- Agreement of first series of block upgrades
  - Level of certainty for all stakeholders
  - Encourage more efficient implementation
- Revised GANP
  - Operational capabilities to manage ATM system requirements



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