



World Food Programme Aviation Safety Campaign

20 April 2016



Problem Statement

Introduction of Technology to Enhance Safety



Summary of Discussion

- Technology Overview and Evolution
- Maintenance and Support Evolution
- Technology Threats
- Technology Solution
- Conclusion



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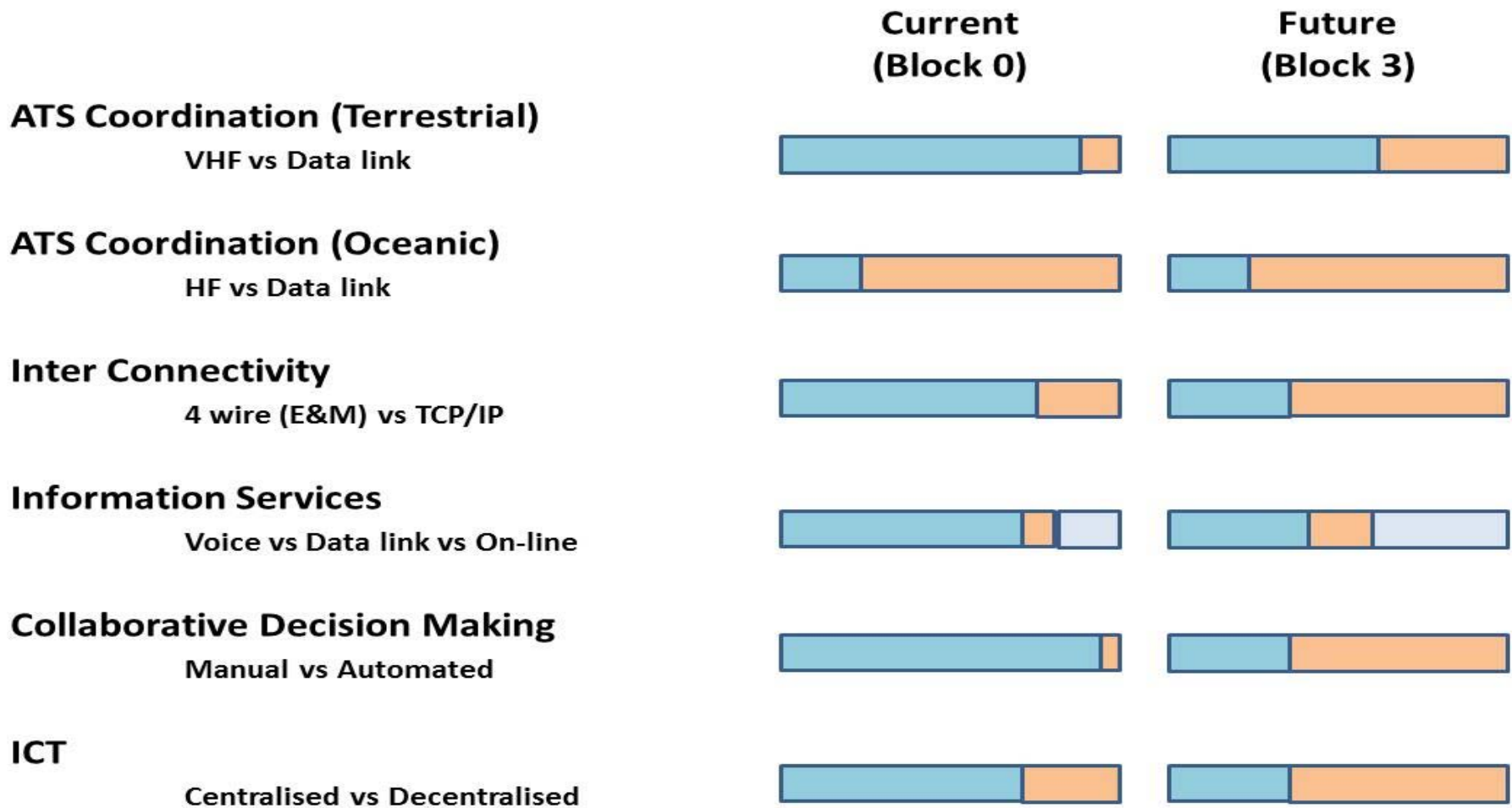
Technology Overview and Evolution

- ASBU
- Communication
- Navigation
- Surveillance
- Automation / Display Systems
- Aeronautical Information



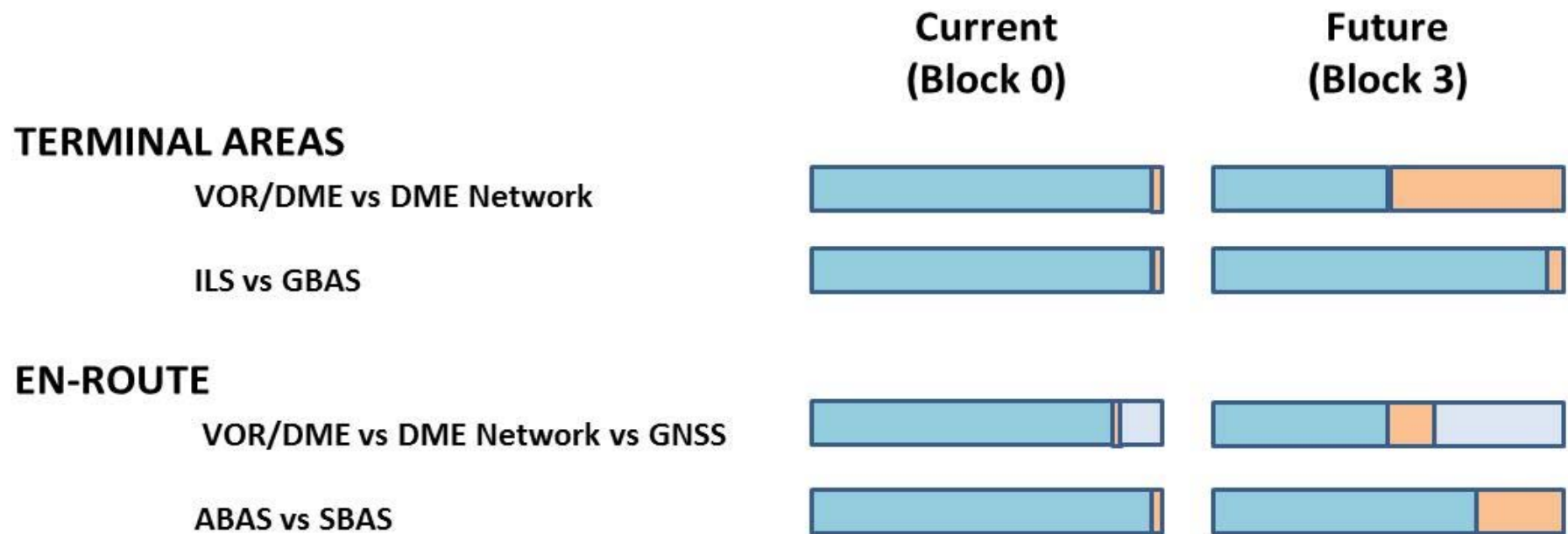
Foreseen Evolution in South Africa

- Communication environment will slowly migrate:
“CNS Strategy, Roadmap and Medium Term Implementation Plan”



Foreseen Evolution in South Africa

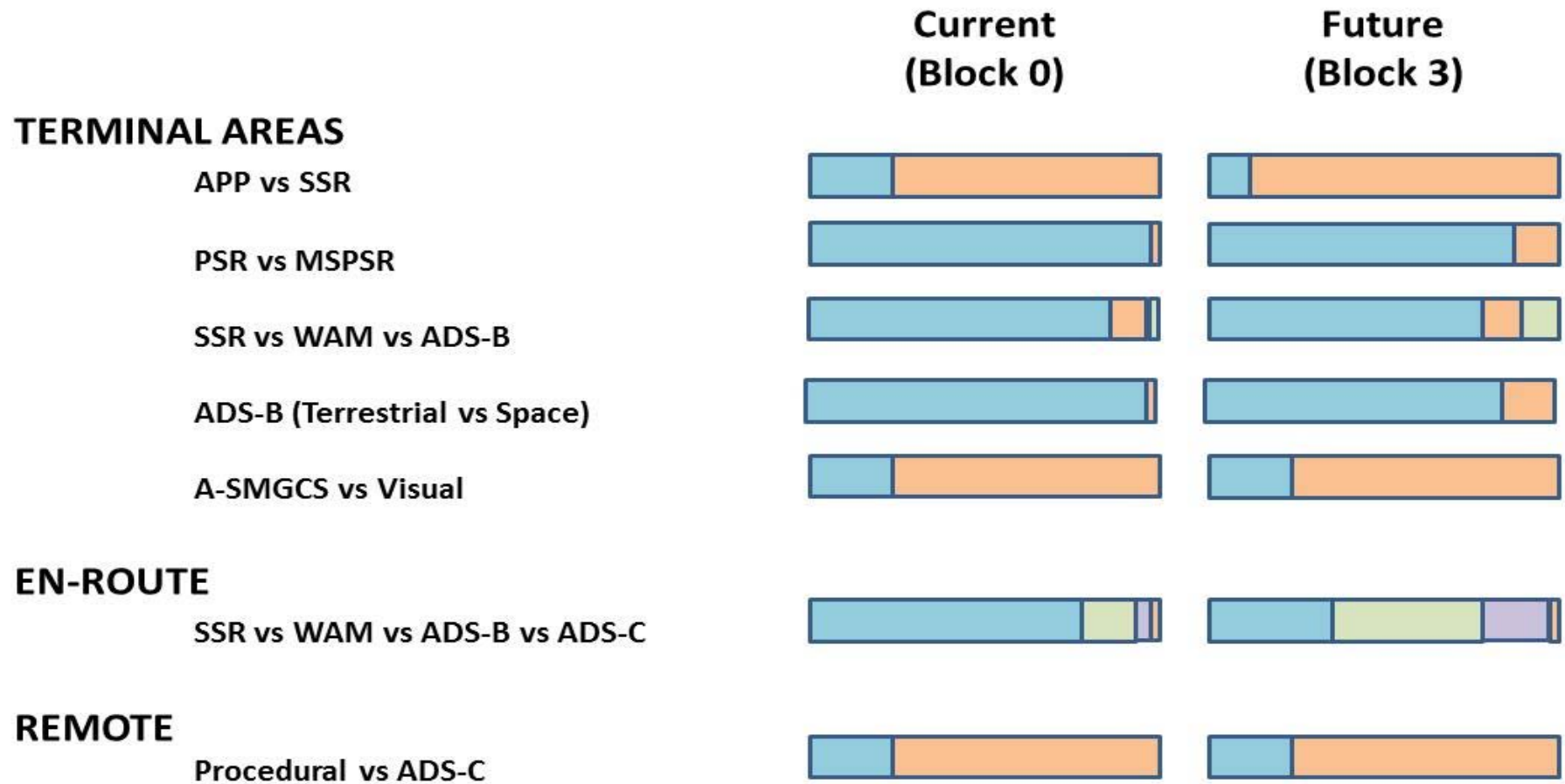
- Navigation environment will slowly migrate:
“CNS Strategy, Roadmap and Medium Term Implementation Plan”



Foreseen Evolution in South Africa

- Surveillance environment will slowly migrate:

“CNS Strategy, Roadmap and Medium Term Implementation Plan”



Technology Evolution

- Components more reliant on COTS hardware
 - Reduced procurement cost
 - More flexible
 - Shorter lifespan
 - Higher risk of obsolescence
- Systems based on regional benefits
 - ASBU's
 - Nextgen
 - SESAR
 - “Seamless Asian Sky initiative “
potentially 40 states providing
ATS in Asia/Pacific



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Maintenance and Support Evolution

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Maintenance and Support Evolution

- Basic Requirements
 - Documentation
 - Training
 - Refresher Training
 - Preventative Maintenance
 - Corrective Maintenance
 - Spares Holding and Management
 - Environment
 - Resources
- Supporting Requirements
 - Procedures
 - Power
 - Telecommunications
 - Security
 - Enabling Policies and Legislation



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Technology Threats

- “Poaching” / Resource Mobility
- Vandalism and Theft
- Technology
- Development
- Land Use
- Interoperability
- Integrated Understanding
- Supporting Legislation



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Technology Solution

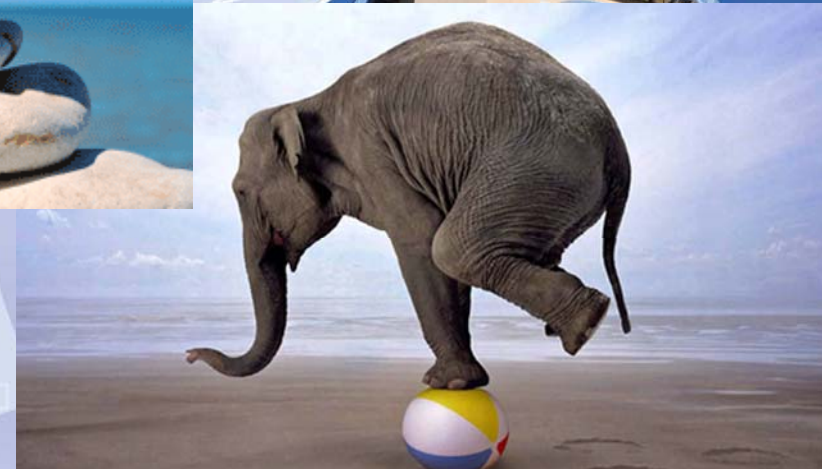
- New Technologies designed around interoperability and harmonisation of ATM Service Delivery, not FIR boundaries.
- New technology requires a new maintenance and support mindset
- Systems are evolving in line with International trends as Aircraft evolves and airspace complexity / demands increases.
- There are immediate / Short Term and Medium Term opportunities for collaboration

We can make a difference



Technology Solution

- The Balancing Act



Technology Solution

- The Technology Solution for the Region Requires
 - Structured Applied Approach
 - Long Term Plan and Strategy
 - Long Term Efficiency, Safety and Affordability
 - Strategy
 - Collaborative Processes and Decision Making
 - ATM Community
 - Ongoing Support

- Summary of work in South Sudan
(example of collaborative approach)



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Conclusion

Introduction of Technology to Enhance Safety



Conclusion

Introduction of Technology to
Enhance Safety
Is not Sustainable



Conclusion

Identification of Technology and the Introduction/Embedding of Systems to Enhance Safety is Sustainable



Questions





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Thank you

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