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Benefits of Information Integration

What the Future Holds

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- Why the change
- The Challenges
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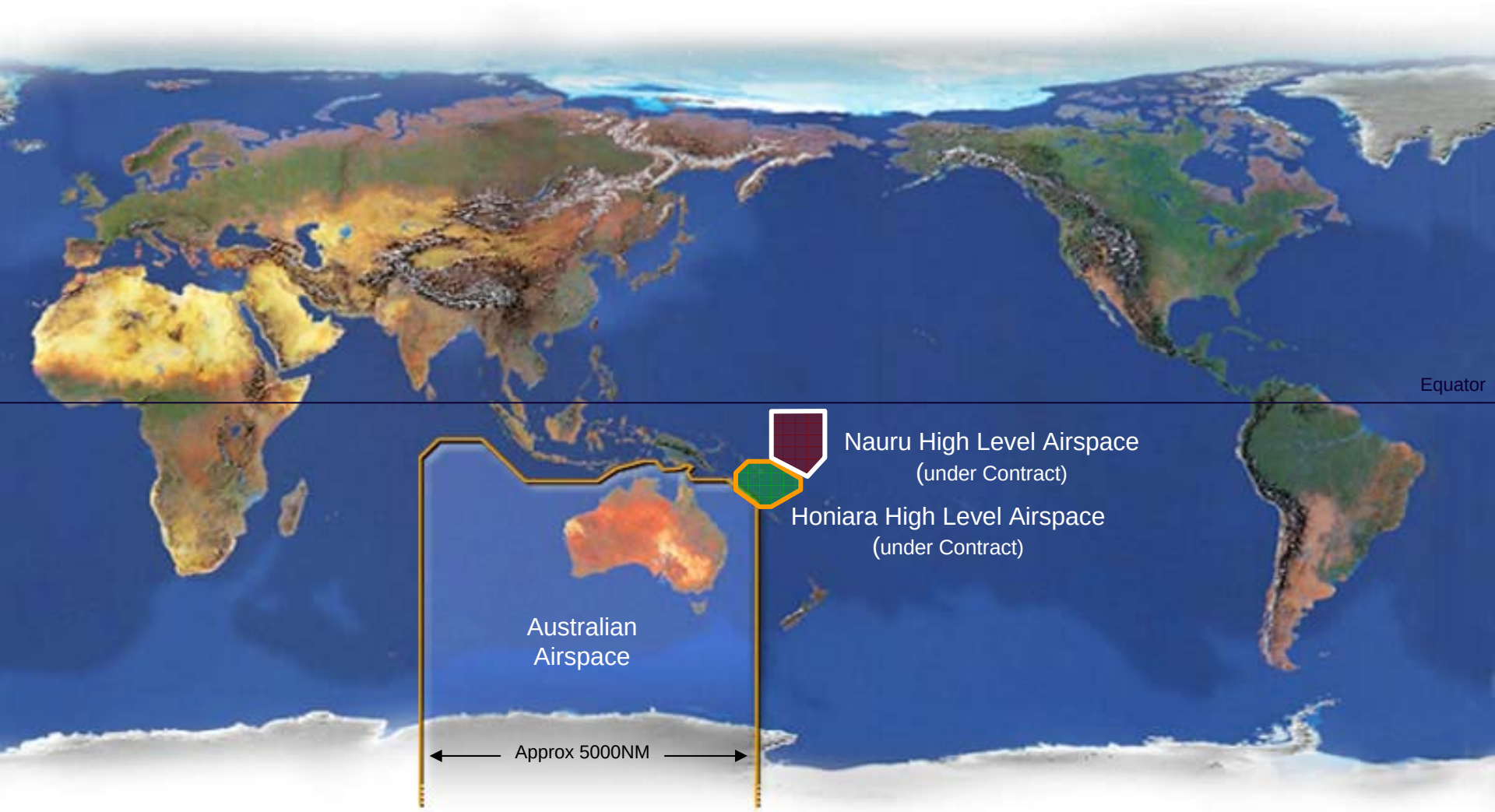
Airspace controlled by Airservices Australia



Setting the Scene

- AIS → AIM → Net-Centric ATM
- Challenge traditional structures
- Who's in charge of the data?
- Users - Where is *my* data?
- This is *my* system.

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Why the Change

- ATM industry at another crossroad.
- External factors forcing us to Re-think our business strategies.
  - Economic, Legislation.
- ANSP's are driven by safety and increasingly commercial expectations.
- Maturing technologies.
- Rate of change is increasing.

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The Challenges

Moving to a net-Centric ATM environment will force ANSP's to

- **Treat data / information as a corporate resource.**
  - **put a value on the resource**
  - **manages it trough it's live cycle.**
  - **include in strategic planning.**
- **Organisational restructures.**
- **Implement new information driven services.**
- **Decrease time to market of new services.**

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Risks

- Users want everything, for unlimited time.
- Tera Bytes, Peta Bytes, Exa Bytes, Zetta Bytes, ….
- All the data online, real time!!
- Logarithmic costs increases.
- Information Overload.

So, What to do?

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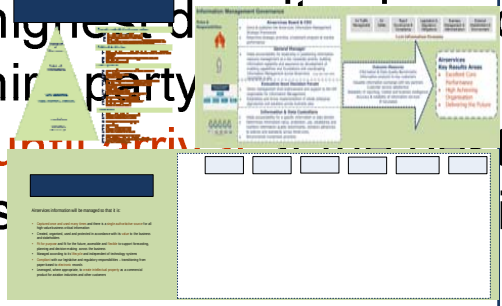
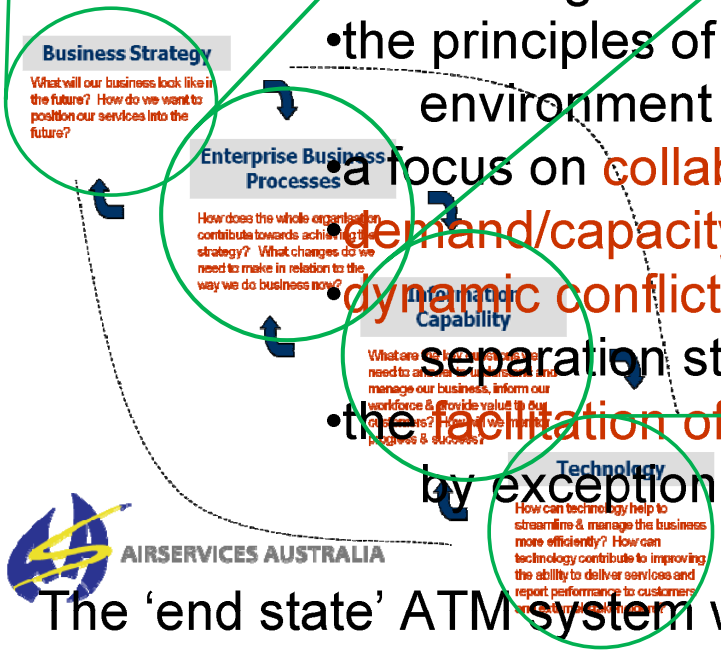
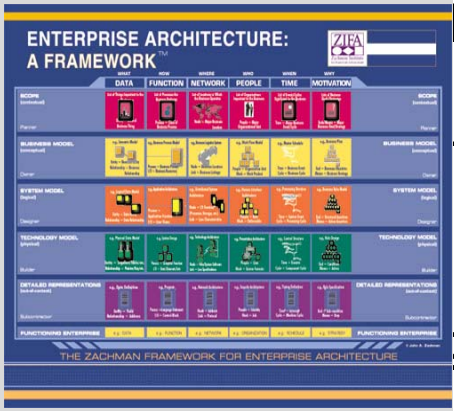
Airservices Corporate Approach

Key features of the … Tar … c

- Significantly enhanced situational awareness for all airspace us…
- the provision of self-separation except in highest d…
- separation services may be provided by thir… party
- the management of flights from inception until arriv…
- the principles of uniformity and seamless s… environment
- a focus on collaborative decision-making
- demand/capacity management throughout the flight life cycle
- dynamic conflict ma…
- separation stand…
- the facilitation of us… by exception.







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The 'end state' ATM system will … account traffic complexity, weath…

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Network Management Services

- Responsibility of data and information across the operational systems.
- Primary services outcome: Optimisation of the end-to-end ATM system traffic management performance
- Services to be delivered:
  - Enhanced Network Management
  - Network Operations Planning
  - Collaborative Decision making (CDM)
    - ATFM and A-CDM
  - Arrivals and Departure Management
  - Flexible Use of Airspace
  - Integrated and Automated AIS Services
  - Pre-flight Briefing and NOTAM management

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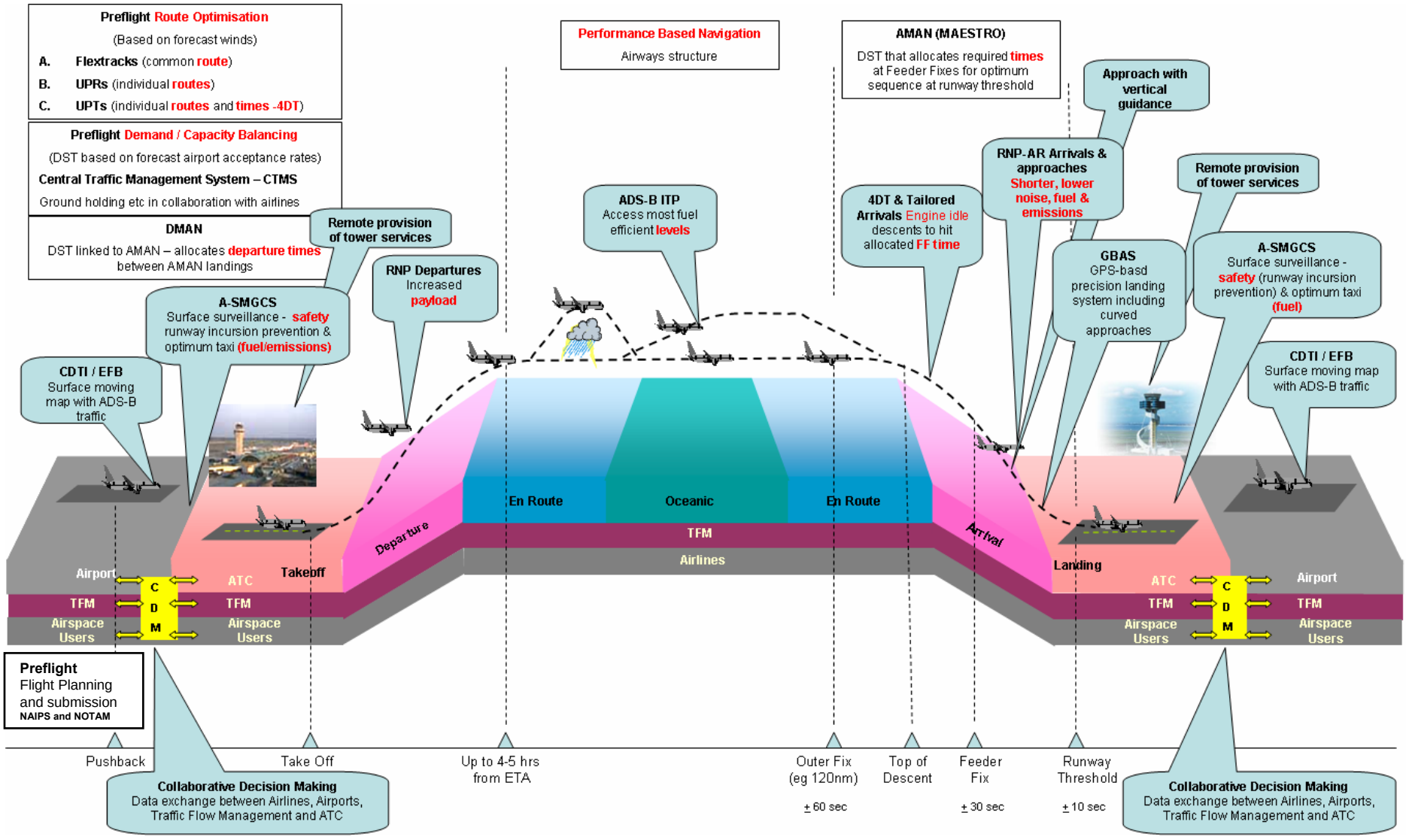
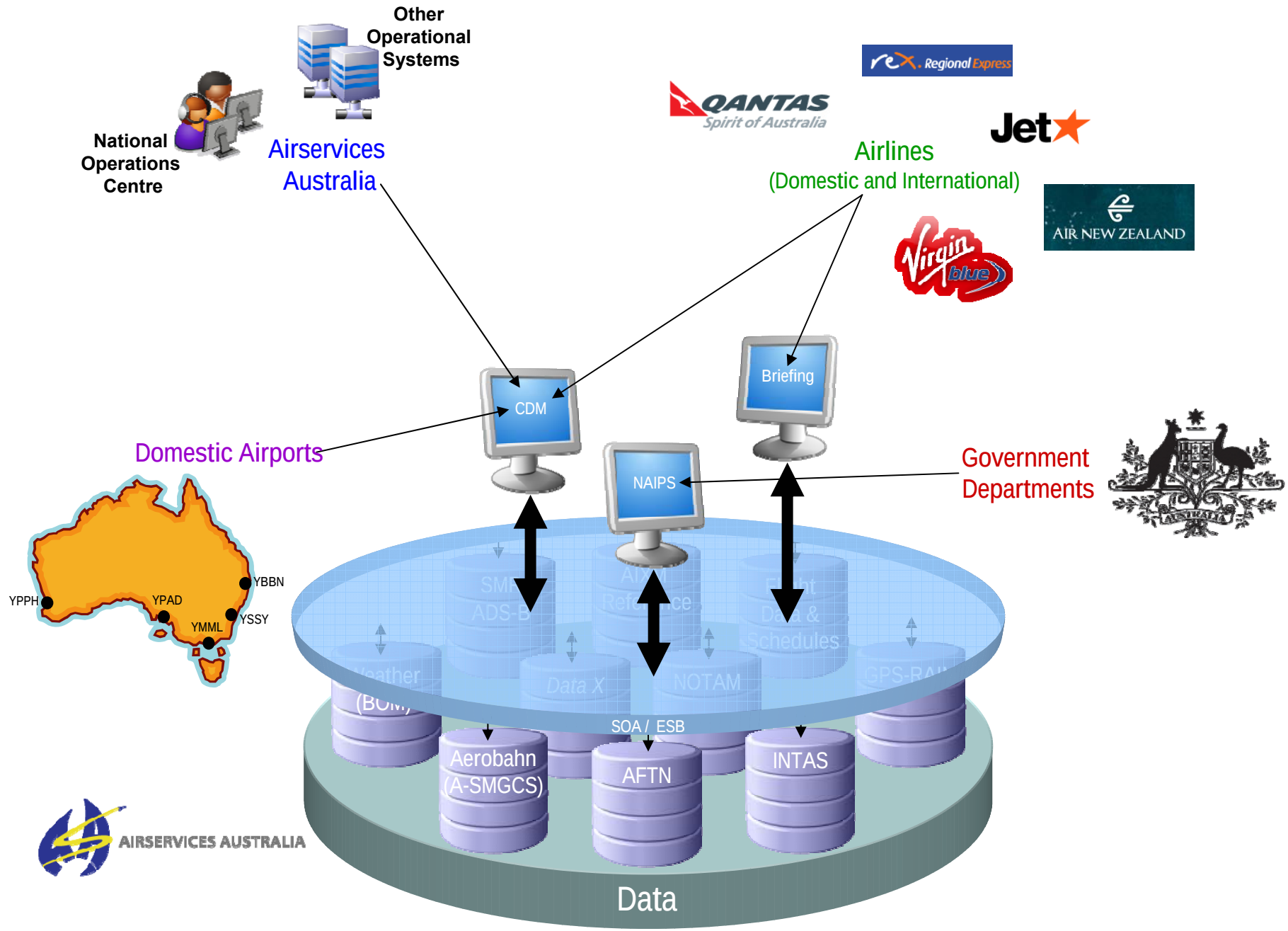
Flight has many stages with much data




Other Operational Systems
National Operations Centre
Airservices Australia
Airlines
(Domestic and International)
CDM
Briefing
NAIPS
Domestic Airports
Government Departments
YPPH
YPAD
YMML
YBBN
YSSY
SOA / ESB
Aerobahn (A-SMGCS)
AFTN
INTAS
Data
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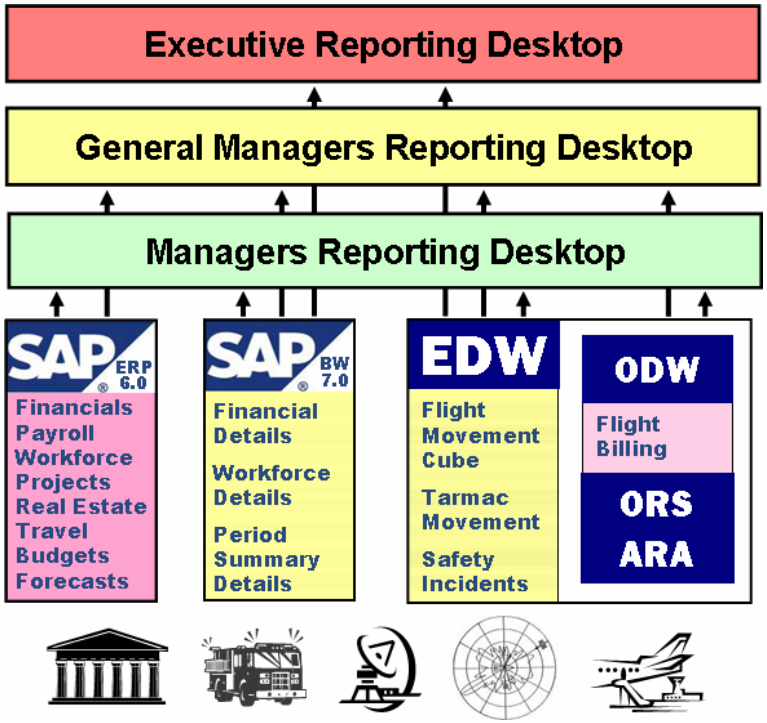
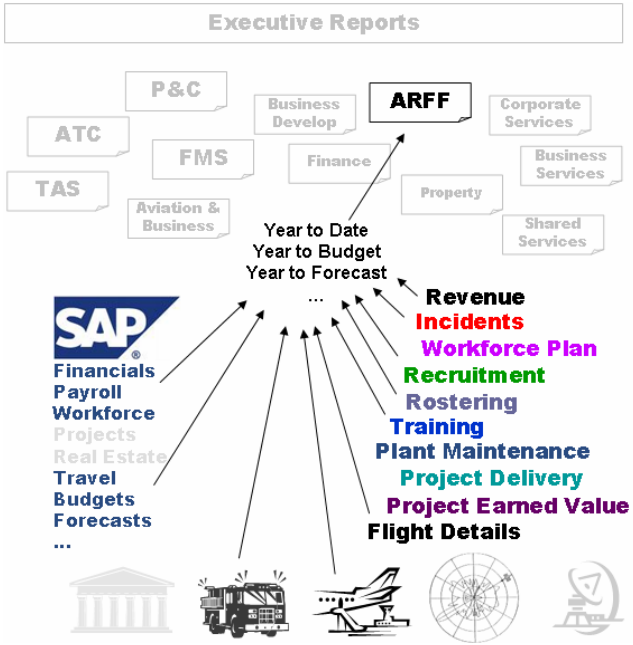
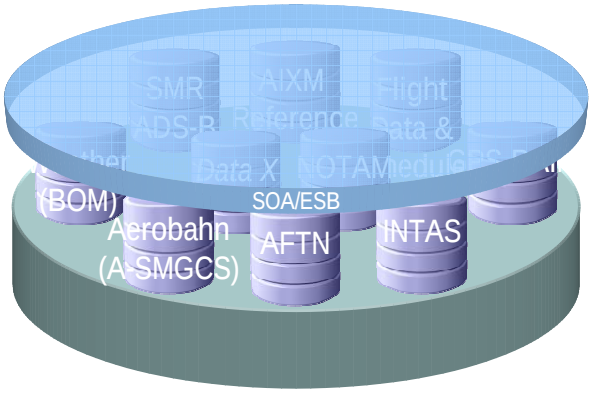
Transparent reporting upwards & down







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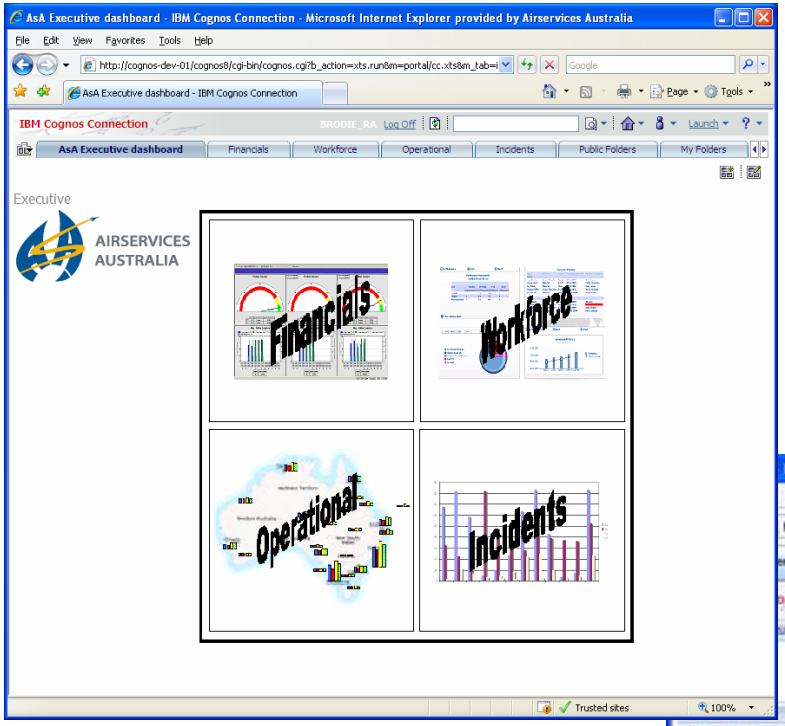
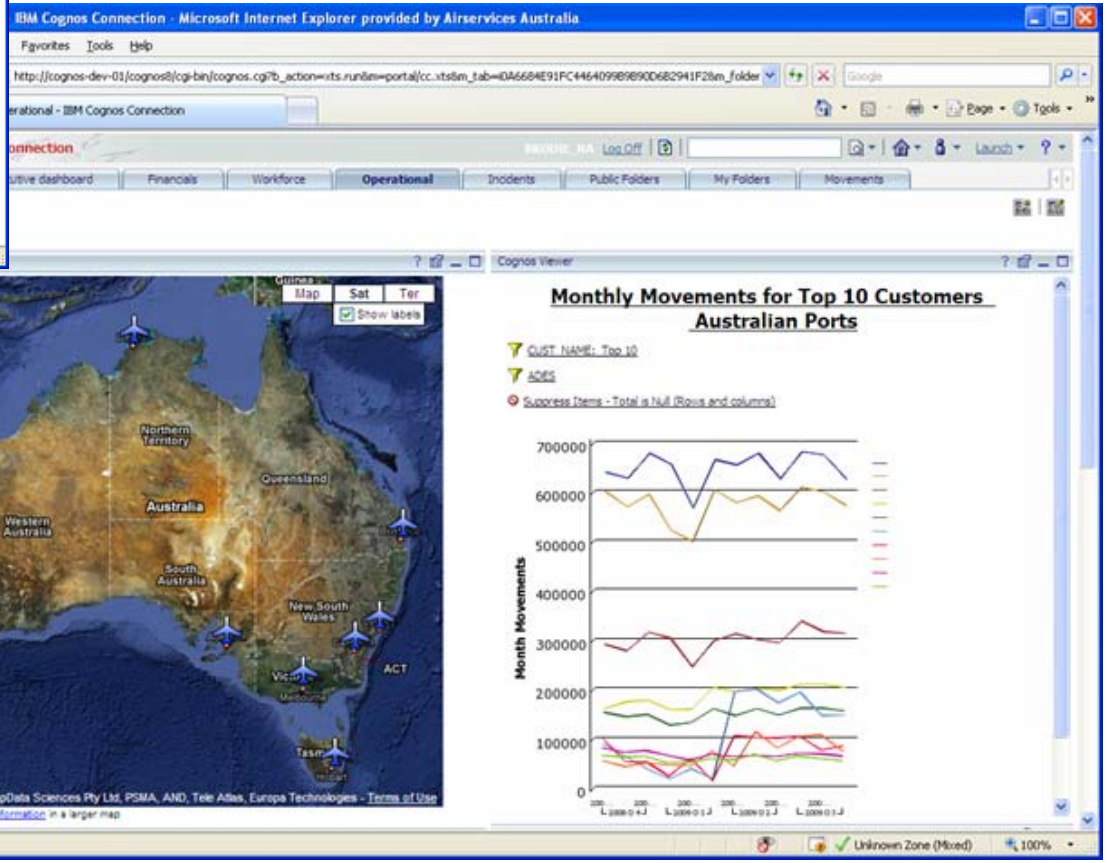
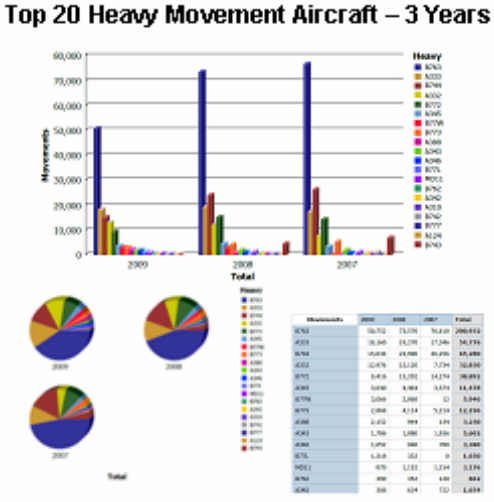
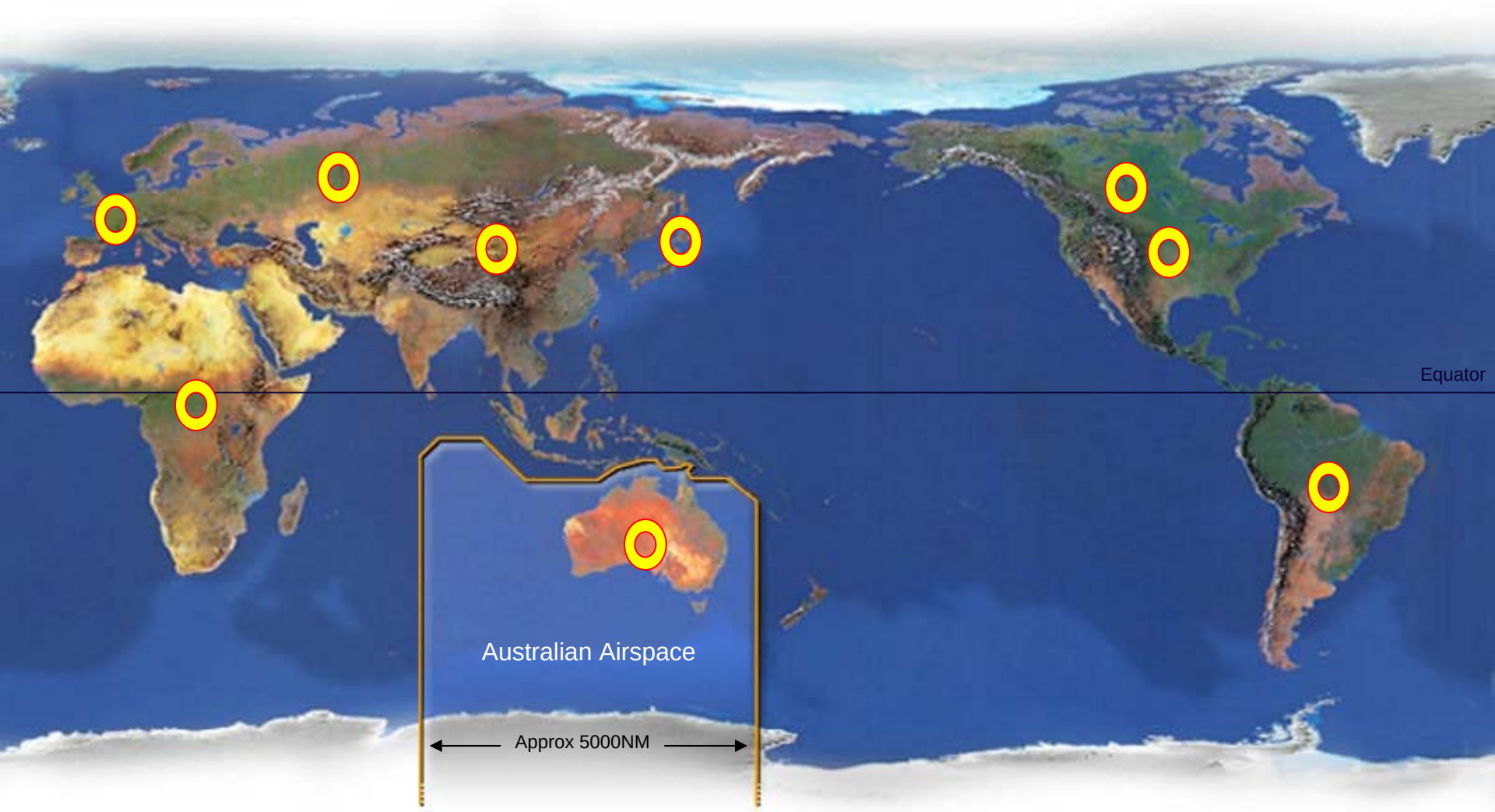
Executive Reporting – What the reports look like?







Global Integration



Final Thought

Integration will be a way of life,
standards will provide the lifeblood.

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Questions

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