



Benefits of Information Integration

What the Future Holds

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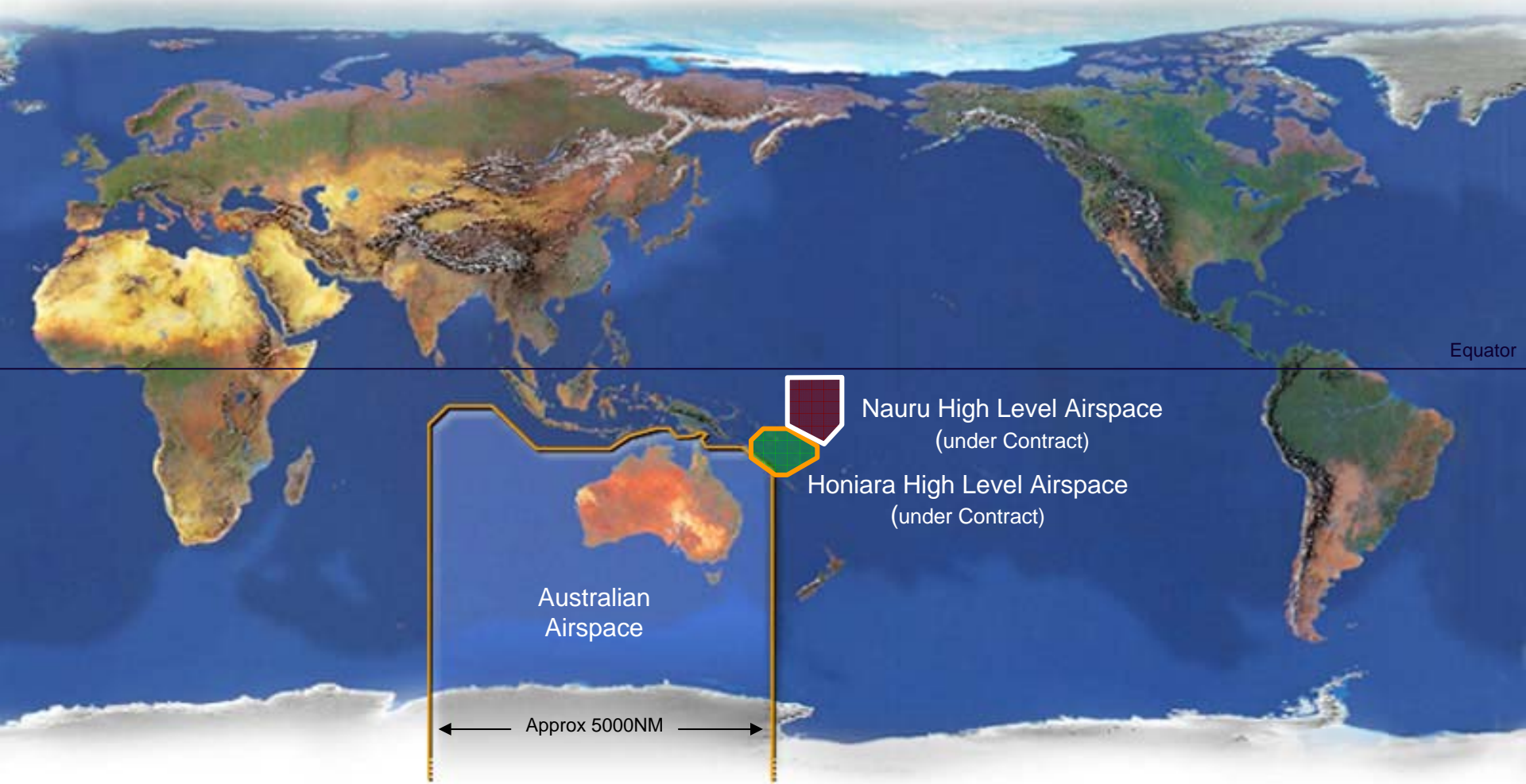
Manager ICT Planning
Airservices Australia

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Content

- Setting the scene
- Why the change
- The Challenges
- Risks
- Our Solution
- Closing

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.

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.**

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 through its live cycle.**
 - **include in strategic planning.**
- **Organisational restructures.**
- **Implement new information driven services.**
- **Decrease time to market of new services.**

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?

Key features of the Target

- Significantly enhanced **situational awareness** for all airspace users
- the provision of **self-separation** except in highest density
- separation services may be provided by third party
- the management of flights from **inception until arrival**
- the principles of **uniformity and seamless service** in the new environment
- a focus on **collaborative decision-making**
- **demand/capacity management** throughout the **flight life cycle**
- **dynamic conflict management**
- **separation standards**
- the **facilitation of user self-separation** by exception.

Business Strategy

What will our business look like in the future? How do we want to position our services into the future?

Enterprise Business Processes

How does the whole organisation contribute towards achieving the strategy? What changes do we need to make in relation to the way we do business now?

Information Capability

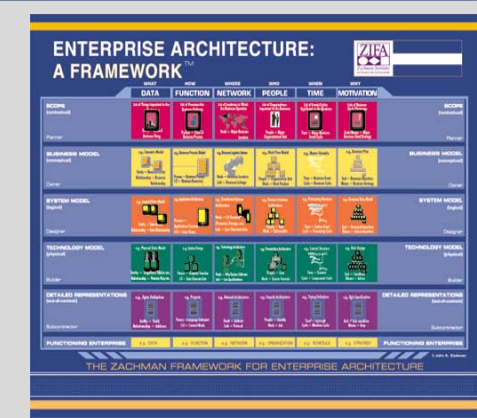
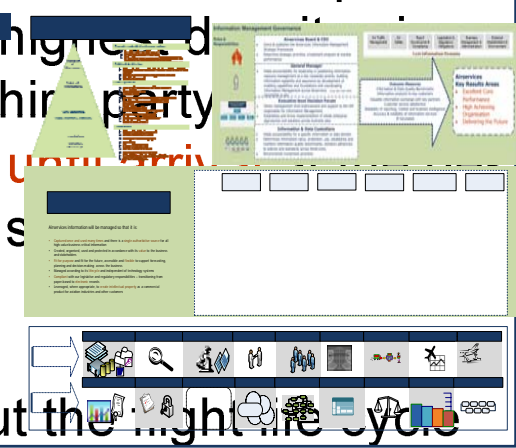
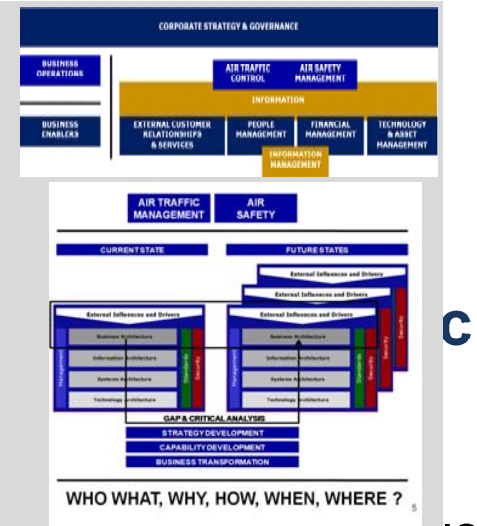
What are the information capabilities needed to achieve the strategy? How do we manage our business, inform our workforce & provide value to our customers? How do we improve processes & services?

Technology

How can technology help to streamline & manage the business more efficiently? How can technology contribute to improving the ability to deliver services and report performance to customers and report performance to customers and report performance to customers?



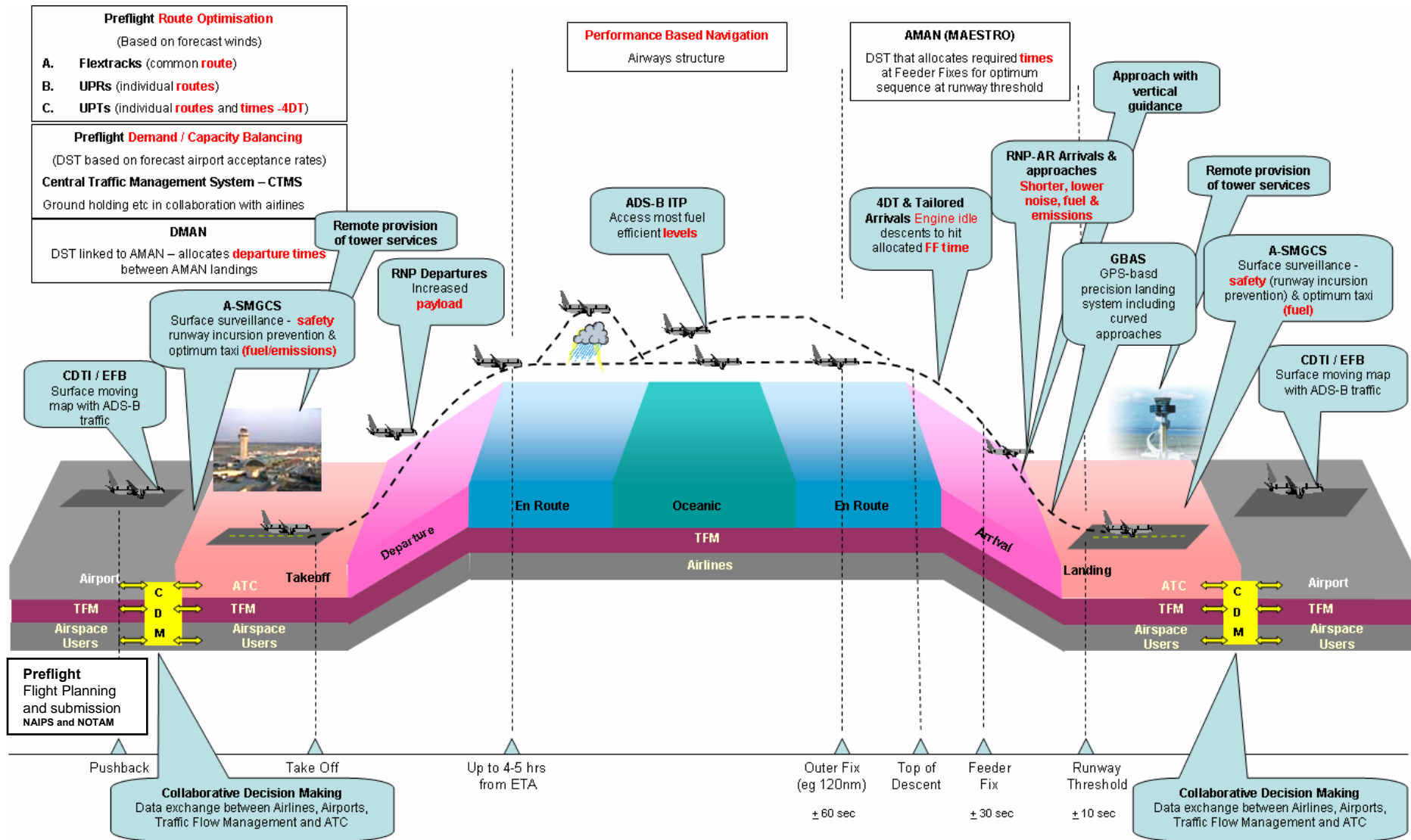
The 'end state' ATM system will account traffic complexity, weather

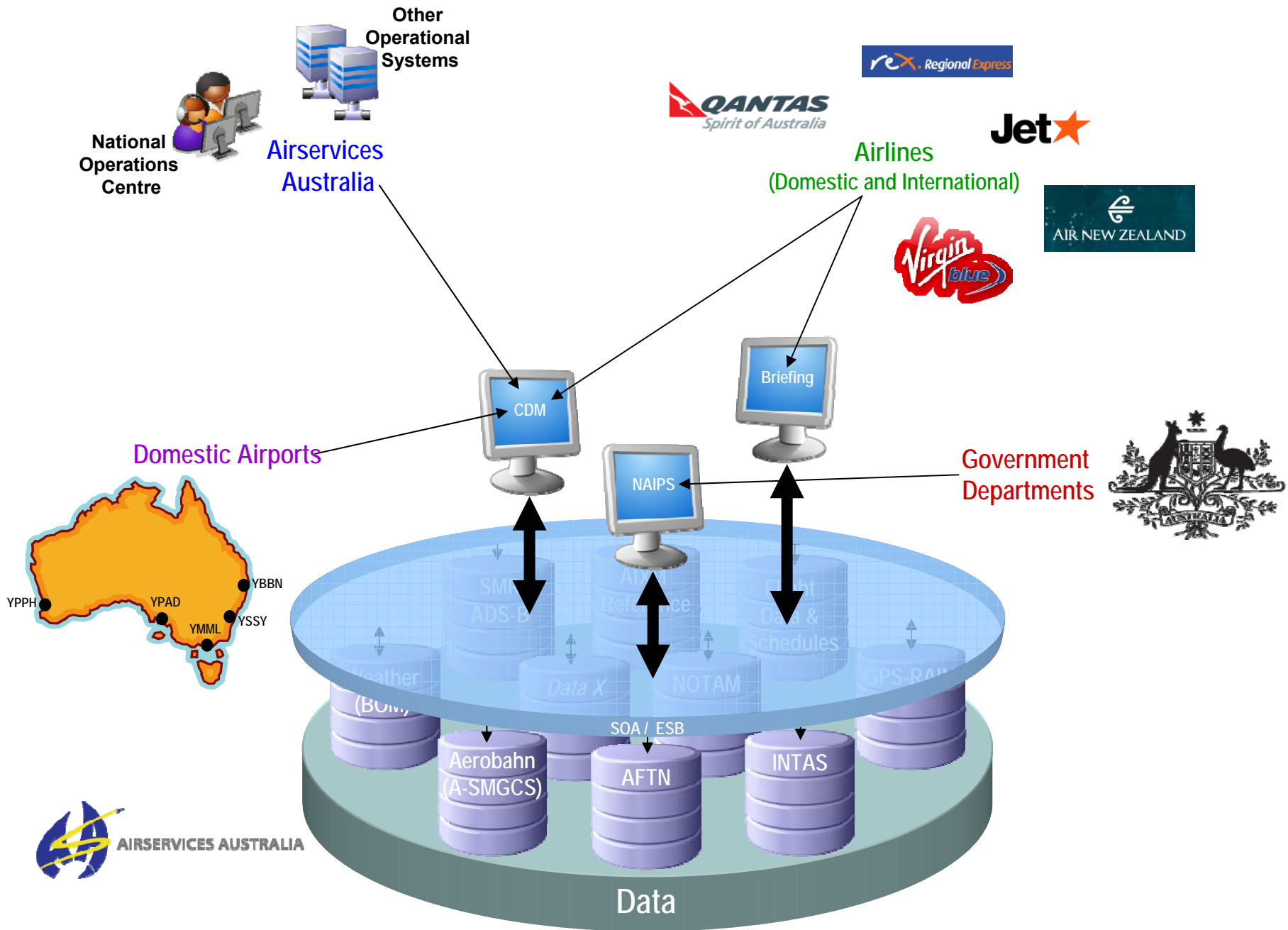


Airservices Australia Network Management Services

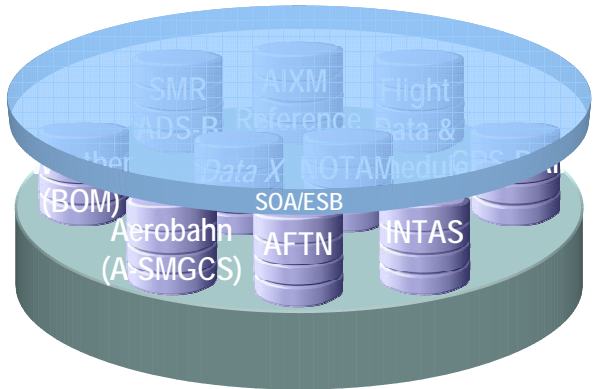
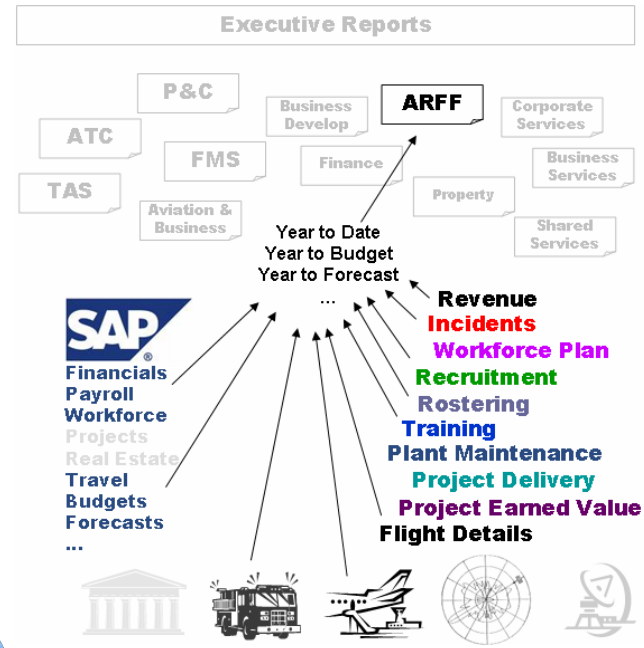
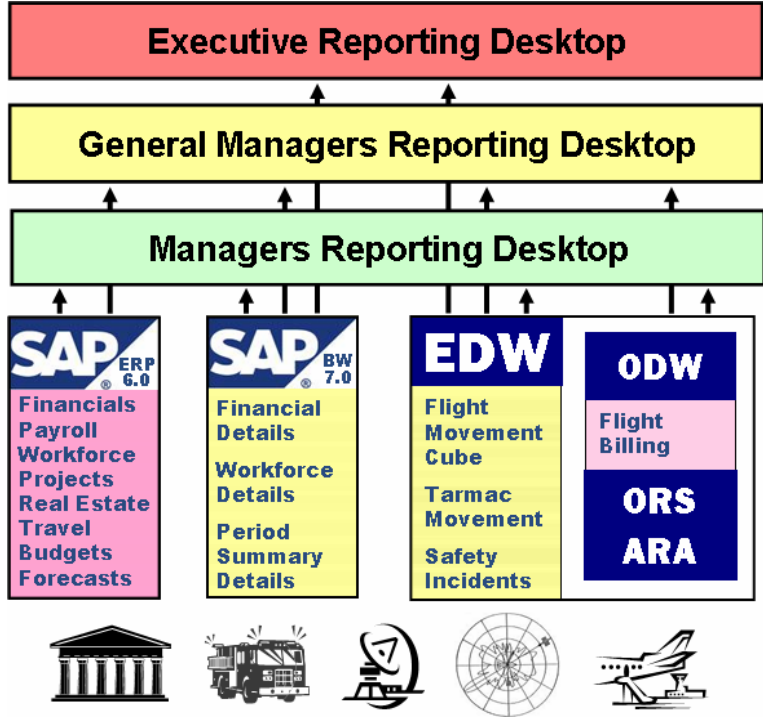
- Responsibility of data and information across the operational systems.
- Primary services outcome: Optimisation of the end-to-end ATM system traffic management performance
- Services to be delivered:
 - Enhanced Network Management
 - Network Operations Planning
 - Collaborative Decision making (CDM)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

Flight has many stages with much data





Transparent reporting upwards & down



Executive Reporting – What the reports look like?

ASa Executive dashboard - IBM Cognos Connection - Microsoft Internet Explorer provided by Aircservices Australia

IBM Cognos Connection

Executive AIRSERVICES AUSTRALIA

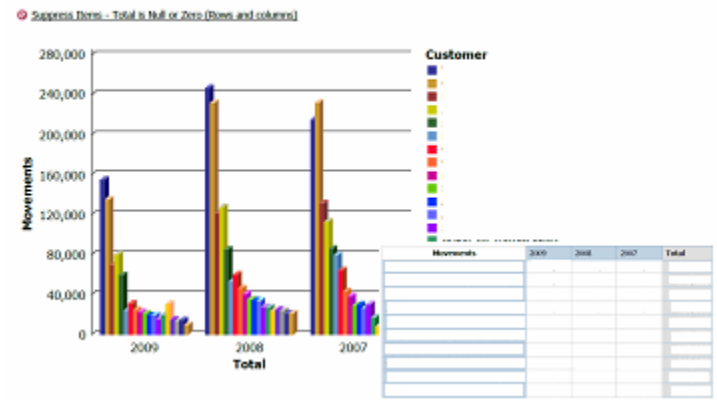
Financials

Workforce

Operational

Incidents

Top 20 Customers – 3 Years



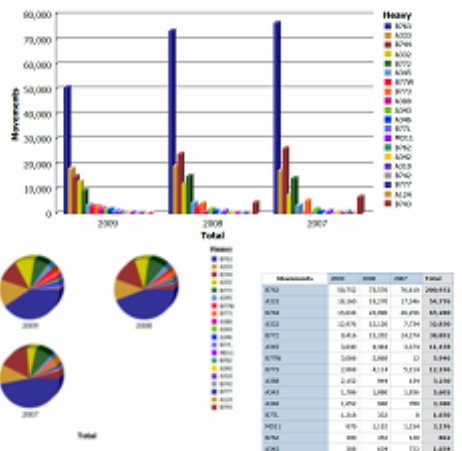
IBM Cognos Connection - Microsoft Internet Explorer provided by Aircservices Australia

Operational - IBM Cognos Connection

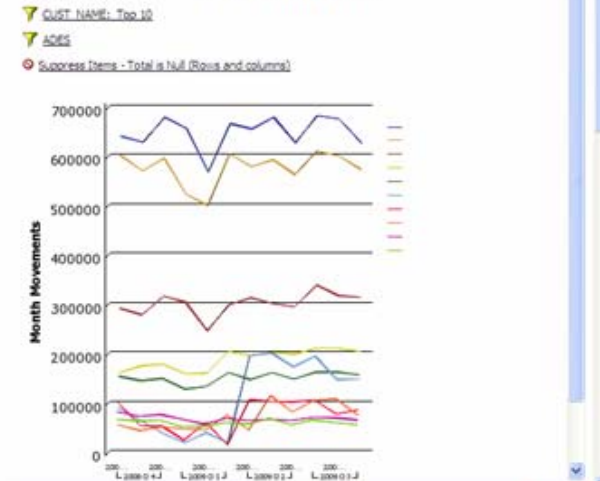
Operational

Movements

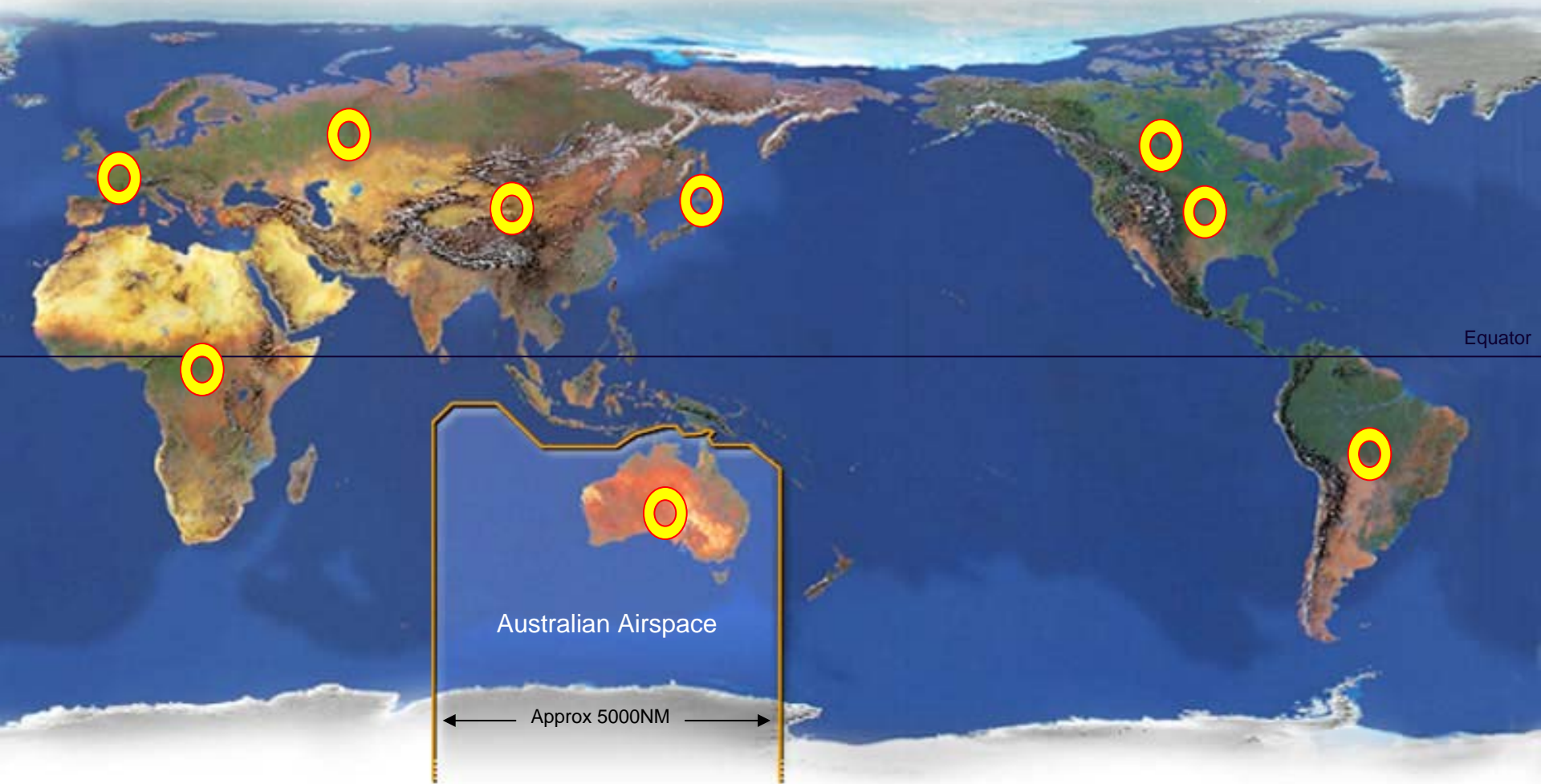
Top 20 Heavy Movement Aircraft – 3 Years



Monthly Movements for Top 10 Customers Australian Ports



Global Integration



Final Thought

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

Questions