



Australian WIGOS

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Outline

- Australian WIGOS Demonstration Project
- Outcomes
- WIGOS Coordination process
- Where to from here?





Australian Demonstration Project

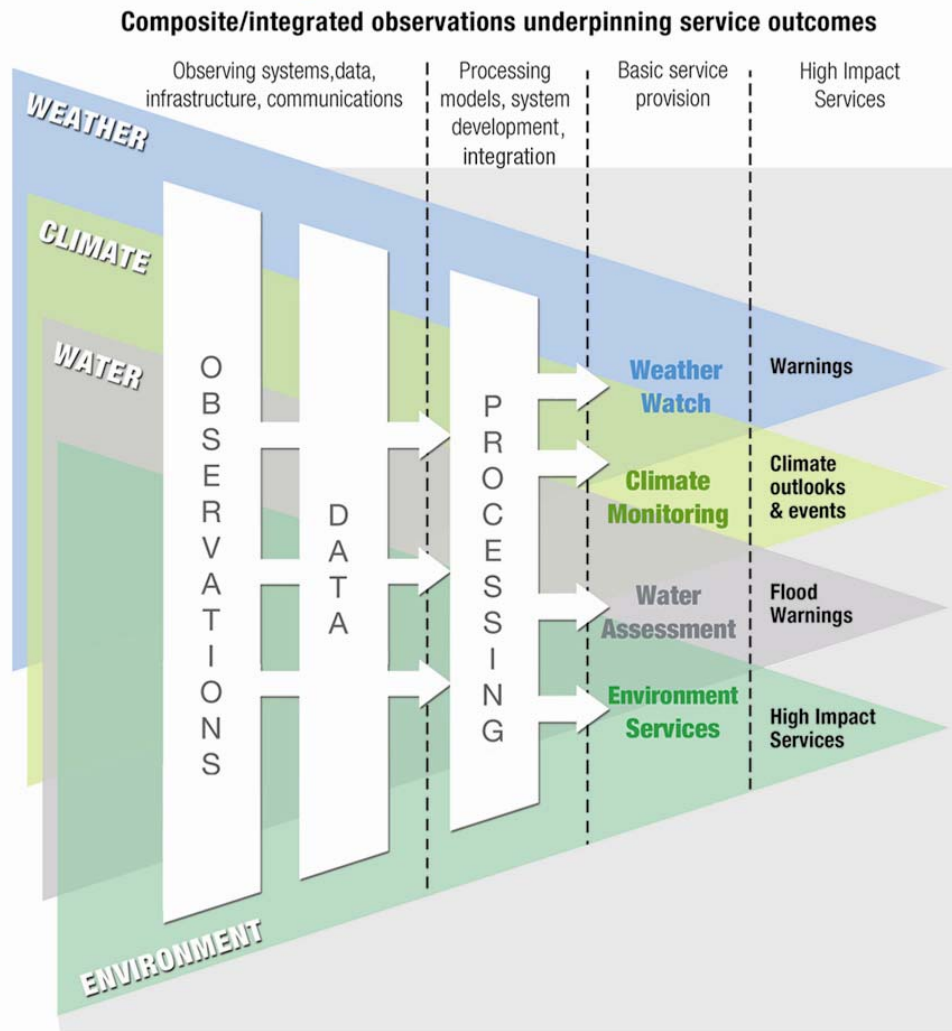
- Plan/implement a Composite Observing System strategy
 - Plan - assess current/future user needs; review existing systems and future opportunities; assess adequacy against needs; prioritise; develop strategy; fit to resources
 - Implementation – from plan to reality; document progress; lessons learnt
- Building on Basic Observing Systems Study 2005 (BOSS05)
 - Comprehensive user-needs based observations strategy
 - Evolution and evaluation of technologies
 - Implemented against background of budget realities
- Progress, outcomes and legacy - refer WMO/WIGOS webpage
 - Focus now on strategic themes, esp. surface network-of-networks

Australian Demonstration Project

| Some key elements | Status |
|--|--|
| Changing staffing and technology configurations across upper air network | Underway, complete by 2013; reviewing future upper air strategy |
| Fit-for-purpose organisational structure | Advanced but tuning; increased project management focus |
| Nationally consistent operations & practices | Aligned observing and maintenance operations; removed many barriers |
| Integration of Third Party Data | Data Framework sets context for third party data policy; seen as growth area |
| Rolling Review of Requirements | Underway; start on climate, aviation |
| Quality Management Framework | Early steps to ISO9001; business process model under development |
| Data impact studies | Modest progress on upper air |

Integration

Integrated service model



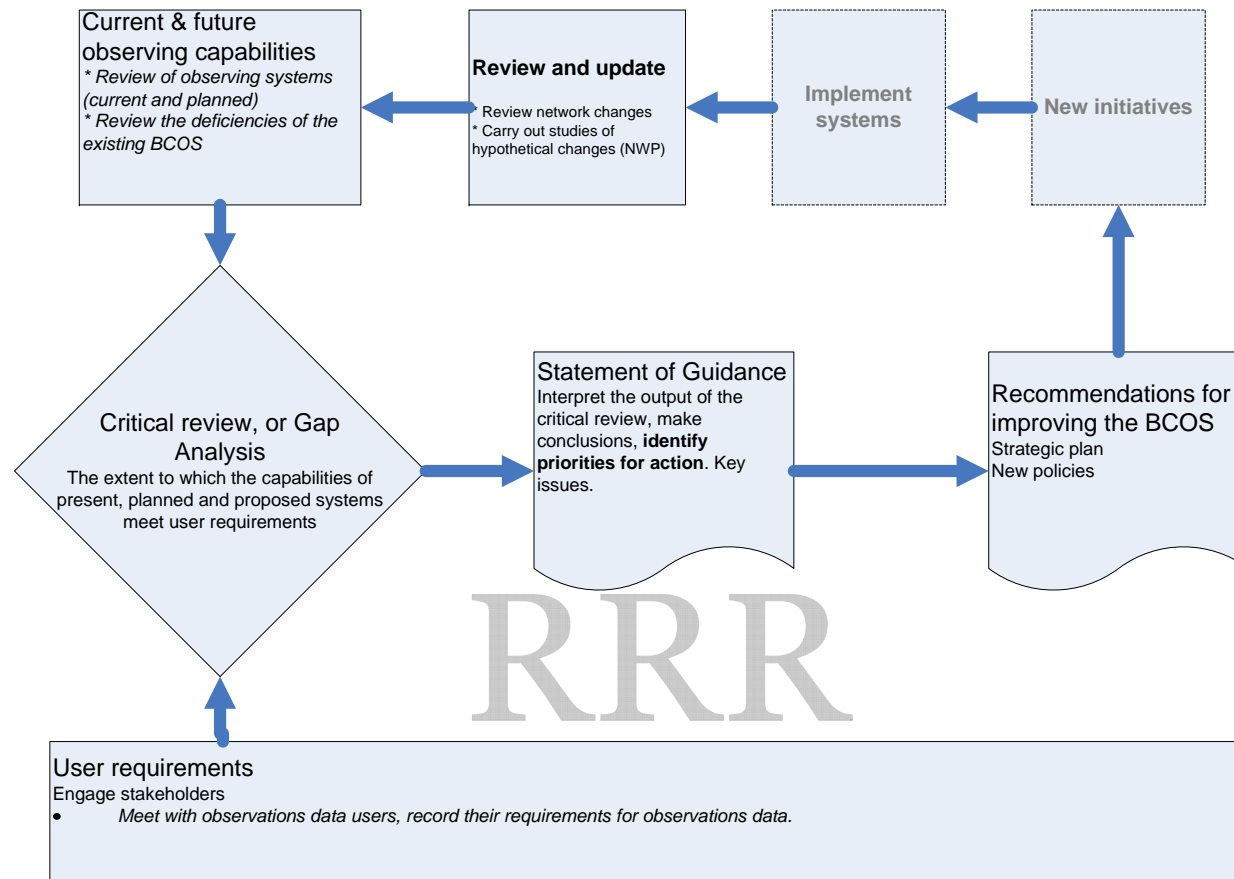
- Composite systems, ‘network of networks’
- Integration through various aspects
 - Support for diverse user needs
 - Systems optimised for efficiency and effectiveness
 - Integration of data through NWP
 - End-to-end service delivery model

Integration (2)

- Network of networks
 - Owned ‘core’ and contributed ‘third party’ networks
 - Policy and management framework
 - Tiered approach to quality, observations, networks, data management, operational support, replacement, etc
 - Partnership and/or collaboration mechanisms
 - End-to-end data framework – principles, policies, processes
- Integration NOT ‘one size first all’
- Coordination → communicating, sharing, optimising
- Interoperability → key to turning observations into effective data that meets real needs

Plan and Design

- Data impact assessment, OSE/OSSE's (regional or national)
- National Rolling Review of Requirements



Observations and Engineering Strategic Framework

Our Vision

To provide environmental observations for the safety, sustainability, well-being and prosperity of Australians

Our Mission

- National leadership in environmental monitoring
- An integrated network of networks approach
- A skilled, diverse, innovative and sustainable workforce
- A culture of commitment to process improvement
- Proactive engagement with users and stakeholders

Observing System Strategies

Surface

Upper Air

Satellite

Radar

Marine

Atmospheric Composition

New Environmental Information

Enabling our Operations

Rolling Review of Requirements

Composite Network Design

Lifecycle Management

Data Framework

Enabling our Business

Business Process Model

Workforce

Leadership Culture

Safe Working

Communication