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eReefs & the GBRF Research Portfolio

GREAT BARRIER REEF
foundation





eReefs Objectives & Scope

eReefs is an integrated system of data, models, visualisation, reporting and decision support tools that spans the entire Reef area—from paddock to catchment, estuary, Reef lagoon and ocean.

Objectives

- To provide integrated, comprehensive and defensible information and forecasting capability as the basis for a decision-making system for the Reef
- To create a communication tool via its visualisation layer to enable information and decisions to be conveyed to a range of different audiences for regulatory, advocacy, governance and more general user/consumer purposes.

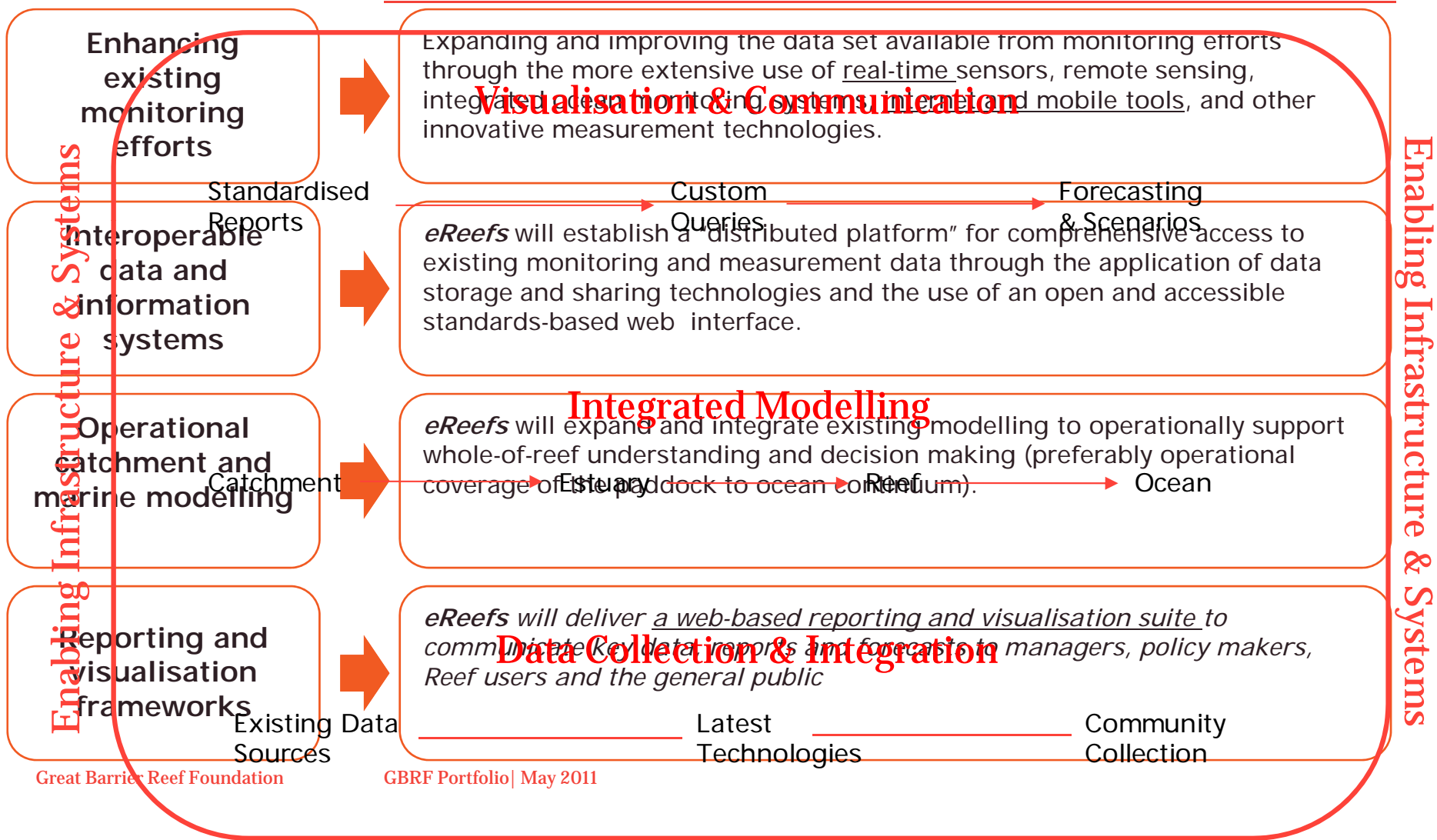
Scope

- Phase 1 of the project is currently being re-scoped due to recent project budget changes relating to corporate investor funding. This re-scoping is being driven by the needs of the key end-users (DERM, DPC, GBRMPA, SEWPAC and DAFF). Scoping will be finalised by the end of June 2011.

Geographic Focus

- whole of GBR

eReefs Approach: Work Packages





eReefs Outputs

Total project anticipated project outputs include:

- Operational water quality standards & tools (interoperable)
- Operational remote sensing tools (WQ Dashboard)
- Real-time catchment models
- Real-time receiving water quality models
- A model orchestration engine to integrate models
- Reporting & visualisation tools for standard and customised reporting
- Establishment of infrastructure required to operationalise *eReefs*
- Citizen Science applications

Project outputs are dependent on outcome of re-scoping, however anticipated Phase 1 outputs include:

- Receiving Water Quality Model: Transport and Biogeochemical models – POC only in Phase 1
- Operational Water Quality Dashboard
- Scoping of Interoperable Data Integration System
- Functionality for automated online report card

eReefs Approach: Phasing and Partners

Phasing

- Phase 1: Developing key components
- Phase 2: Automation, Integration & Extension
- Phase 3: Transition to Final Operation

Partners

- End Users
- Research Partners
- Operational Partner
- Funding Partners



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eReefs End User Engagement & Delivery

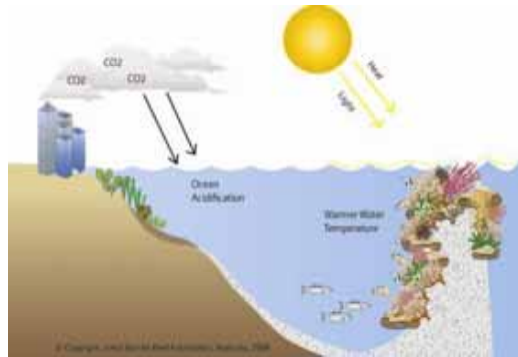
- End users of *eReefs* have been involved with all aspects of the project development including:
 - Development of the initial project concept idea
 - Development of the *eReefs* pilot scope
 - Governance of the *eReefs* pilot project
 - Development of the full project proposal and business case
 - Development of an appropriate governance structure for the full project
- Moving forward, end-users will continue to play a key role in project governance to ensure that outcomes delivered meet their needs and requirements.



eReefs Synergies

- Scope of *eReefs* has been developed to address the priority needs of Reef managers and policy makers, without any duplication of existing programs or projects
- The high level deliverables and the project path to impact has been structured around key milestones for user groups.
- The *eReefs* project has been structured to align with and strategically contribute to existing Reef research and management programs including:
 - NPEI
 - Reef Plan
 - Outlook Report
 - NERP
 - NCRIS – particularly IMOS

eReefs & the Broader GBRF Framework

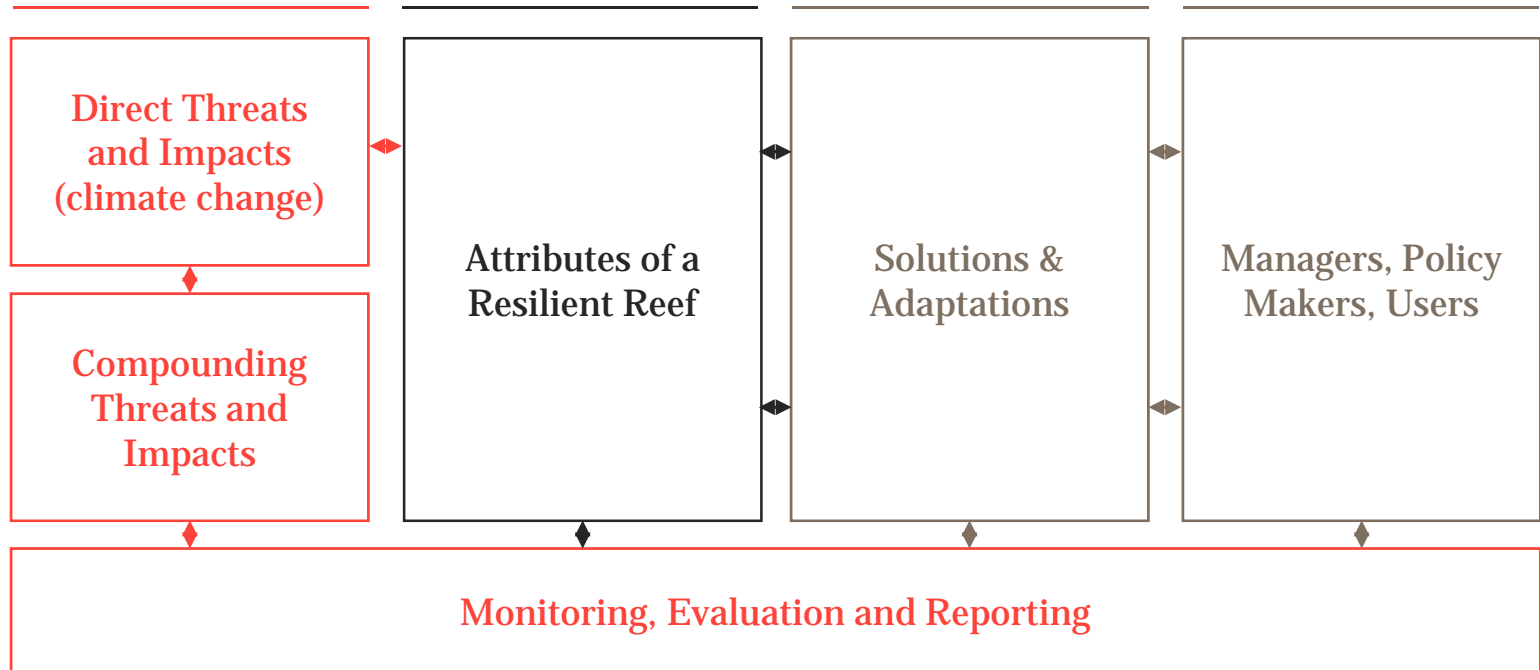


**Pressure/
Threats**

**Exposure &
Resilience**

**Solutions &
Adaptations**

**Policy/
Planning**





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**Thank you
for your time**

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