

# **Climate Change Adaptation and Terrestrial Biodiversity**

## **The role of Organisational Readiness**

NCCARF Terrestrial Biodiversity Network Queensland Roadshow, 14 September 2010

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***GreenHeartCitySmart.com***

# Organisational Readiness

Some key planning and management challenges:

Existing stressors on the environment

Landscape legacies

Scientific complexity and levels of uncertainty

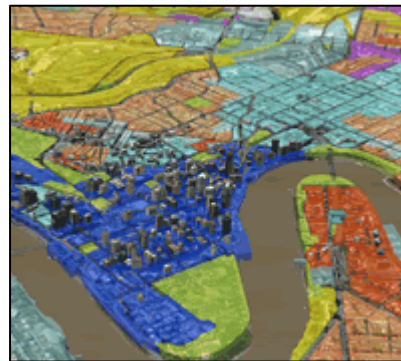
Data deficiencies

Knowledge, skills and tools

# Organisational Readiness

Organisational Readiness:

*Apply the appropriate resources in a timely manner to deliver the right mix of investments and achieve effective, tangible outcomes*



# Organisational Readiness

## Organisational Readiness:

1. Workforce composition
2. Organisational placement
3. Capability:

Technology, knowledge networks, survivability, joint operations, resource optimisation

# Organisational Readiness

## Workforce composition

Secure, retain, *integrate* knowledge & skills across:

Conservation biology / Landscape ecology

Engineering

Economics

Town planning

Citizen engagement

Risk Management



# Organisational Readiness

## Organisational placement

Decision-making process engagement:

Corporate governance

Land use planning

Development / impact assessment

Land management practices

Community engagement & participation



# Organisational Readiness

## Capability - technology

Invest thoughtfully in:

Information systems and operators

High resolution spatial data (1:25000 or better)

Detailed supporting meta-data

Data acquisition & maintenance

Data quality assurance



# Organisational Readiness

## Capability – knowledge network

Key 'nodes' to maintain:

Contemporary ecological data sets

'local' research capacity

Active 'learning'

Communication and contacts

Active data gathering

Context and questions



# Organisational Readiness

## Capability – survivability

Robust application of knowledge:

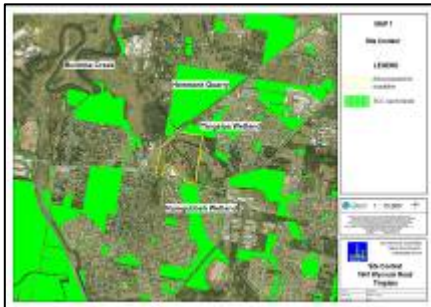
High quality data

Integrate expert opinion and peer review

Document process, outputs *and* limitations

End user-orientated outputs & confidence

Outcome-focussed solutions



# Organisational Readiness

## Capability – joint operations

Actively invest in:



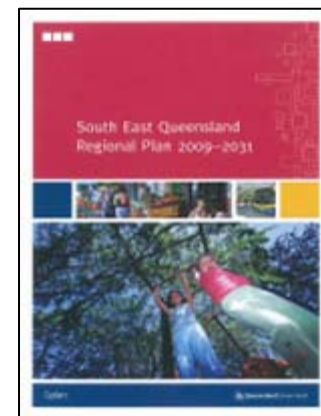
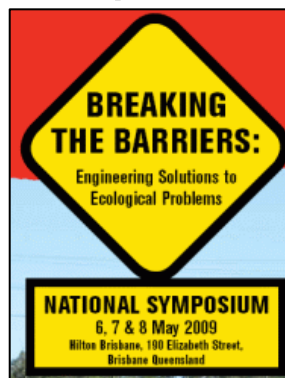
Staff skills and abilities

Citizen Science

Cross-border collaboration



Leadership actions



# Organisational Readiness

## Capability – resource optimisation

Enhance 'purchasing power':

- Deploy available data & expertise
  - Thorough options analysis
  - Embed 'learning-by-doing'
- Share knowledge & learnings

# Organisational Readiness

## Suggested actions:

- Accelerate local and regional vulnerability assessments
- Generate and test regionally-relevant condition and trend metrics
- Actively apply decision-support tools (e.g. options evaluation)
  - Terrestrial Biodiversity Contact Map
  - 'Fast-paced learning' workshops
  - 'Adaptation Case Study' series
- 'Climate Change & Biodiversity Rapid Review for Practitioners'

# Organisational Readiness

## References:

- Phillip Gibbons et al (2008) *Some practical suggestions for improving engagement between researchers and policy-makers in natural resource management.* Ecological Management & Restoration **9**, 182-186
- 'Ecology around Australia', *Bulletin of the Ecological Society of Australia Inc.*
- NCCARF Newsletter and NCCARF Terrestrial Biodiversity Network email updates
  - AdaptNet Digest email updates