



# Developing a Framework for Managing Coastal Climate Risk in Australia

**Dave Rissik**  
Deputy Director



**Australian Government**  
**Department of the Environment**



National Climate Change  
Adaptation Research Facility

# Agenda

- NCCARF Phase 2
- Stakeholder engagement
- Current thinking on Coastal Tool
- Synthesis of existing information.

# NCCARF Phase 2

- Developing a **Coastal Climate Risk Management Tool/Framework** to guide local and state governments and other organisations make better decisions about managing risks from coastal climate change.
- Four adaptation Networks
- Synthesise information from Phase 1.

# The Coastal Climate Risk Management Tool

- existing knowledge and some targeted new analysis.
- assist coastal decision makers understand future climate risks and providing practical guidance on how to manage associated physical, social and economic risks.
  - be voluntary in application
  - demonstrate leading practice
  - develop ‘rule of thumb’ approaches where possible
  - Consider natural and built assets.

- Primary stakeholders are local and state government decision makers
- Must also be useful for other coastal decision makers e.g. natural resource management groups and coastal infrastructure operators.
- national in scope, recognises variations in climate, and regulatory and planning systems

# Continual Stakeholder engagement is essential for success

- Face to face consultation with >350 people in each State and Territory
- On-line survey (299 respondents)
- Presentations and updates around the country when possible.
- Regular newsletters and updates

# Challenges for coastal decision makers

(stakeholder workshops and online survey)

- Lack of integrated planning
- Communication and alignment (within and between organisations, and the community)
- Lack of awareness/understanding of important concepts (eg pathways, planning for multiple climate futures)
- Lack of long-term planning decisions
- Too much/not enough data/information. What can we trust, where do we get it?

# Design and Delivery

The Tool should:

- Align with activities by other groups, principally state government;
- Be flexible, recognising different levels of starting knowledge and different knowledge requirements;
- Provide accessible, straightforward delivery of reliable information;
- It should support adaptation action;
- It should have multiple entry points providing access to:
  - Information for senior management and executives;
  - Information for communities;
  - Detailed information and guidance for coastal decisions makers including council officers;
- It should not make work.



# Content

- A data portal, including data integration and visualisation, and advice on quality and use
- Providing advice, support and guidance on the process of risk assessment and decision-making under climate change and SLR including:
  - Scenarios and decision-making under uncertainty
  - Management options (retreat, accommodate; defend)
  - Methodologies of impact and risk assessment
  - Legal aspects of adaptation; planning and building regulations; role of insurance
  - Costs and valuation including valuing ecosystem goods and services; financing
  - Building a business case for adaptation

# Communication and learning

- Provide frameworks for peer-to-peer learning and advice through:
  - On-line forums to support communities of practice;
  - Case studies of good practice (and what didn't work) accompanied by short videos by people with practical experience of adaptation;
  - Panel of independent experts.
- Provide guidance on community engagement and consultation.
- Review national and international adaptation activity

# A little bit about the info:

## Managing information -two levels of detail

**Skimmers.** General, but area specific (where possible) information about issues and risks associated with climate change. (eg Councilors, general public).

[\(Want to know more detail about this subject?\)](#)

[\(Want to know other information related to this?\)](#)

[\(What are next steps in the process?\)](#)



**Divers.** Detailed for technical staff who need support, data, tools and guidance relevant to their technical interests and needs. (eg Council Planners, Environmental Officers, Engineers).

[\(want to simplify this information?\)](#)

[\(Want to know other information related to this?\)](#)

[\(What are the next steps in the process?\)](#)

# Helping adaptation to happen....



# Next steps

- Continue stakeholder engagement
- Call for Tool Development Partners **(26 June 2015)**
- Call for case studies **(4 September 2015)**.

# Next steps

- Development Plan for Coastal Tool **1 July 2015**
- Draft coastal climate risk management tool/framework for consultation **1 July 2016**
- Endorsed and operational final coastal climate risk management tool/framework **28 February 2017**

Thank you for your time.

[nccarf.edu.au](http://nccarf.edu.au)

[d.rissik@griffith.edu.au](mailto:d.rissik@griffith.edu.au)