



Climate Change Services
Australia



Fostering Climate Change Services

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www.climatechangeservices.com.au

Who are we?

Build capacity for the development and implementation of effective climate change responses in the Asia Pacific region.

We do this by **facilitating** the sharing of climate change policies, programs, technologies and business services between Australia and international governments and organisations.

Strengthen **interaction** between the public, private and research sectors.

Practical

How does theory work in practice?

How do we get action on-ground?

What are the “missing links”?

Key activities



Knowledge



Access to Australian expertise



Capacity building services



Form collaborations

Enhancing adaptation planning and implementation

South Australian regional adaptation planning process

- State-wide, ground-up process
- Developed by 12 independent regions
- Each region formed a collaboration of multiple municipal governments, community and business representatives
- Formalised in a sector agreement
- Current focus on “mainstreaming”
- State (sub-national) government making a whole of government, state-wide climate change adaptation plan that responds to regional plans.

New South Wales Adaptation

- Integrated Regional Vulnerability Assessment (IRVA)
- Collecting background climate change, socioeconomic and sector information
- Sector-focussed workshops
- Regional, integrated workshops
- Adapt NSW program, conference, and research hub

Climate risk assessment reflecting on adaptation planning

CSIRO – Commonwealth Science and Industry Research Organisation – Adaptation Flagship (2007 – 2014) <https://research.csiro.au/climate/>

National Climate Change Adaptation Research Facility

<https://www.nccarf.edu.au>

- 4 Adaptation Research Networks – hosted by universities
- Online knowledge sharing – adaptation library
- National conference

CoastAdapt – applying data to adaptation planning – an open-source resource to share national data on sea level rise and assistance with decision making. <http://coastadapt.com.au/>

New South Wales – “Adapt NSW” Program, including Integrated Regional Vulnerability Assessment (IRVA) <http://climatechange.environment.nsw.gov.au/>

South Australia – Regional Adaption Planning Process

<https://www.environment.sa.gov.au>

Melbourne, Sydney – City wide “Resilient City” plans, part of 100 Resilient cities.

Regional adaptation pathway map (Example)

Response to the issue: how much will it cost to act on everything now?

No changes

Current best practice

Strategic planning, development plan
Policy and design allowances

Improved seasonal weather forecasting

Major water supply infrastructure

Establish new port and wharf facilities

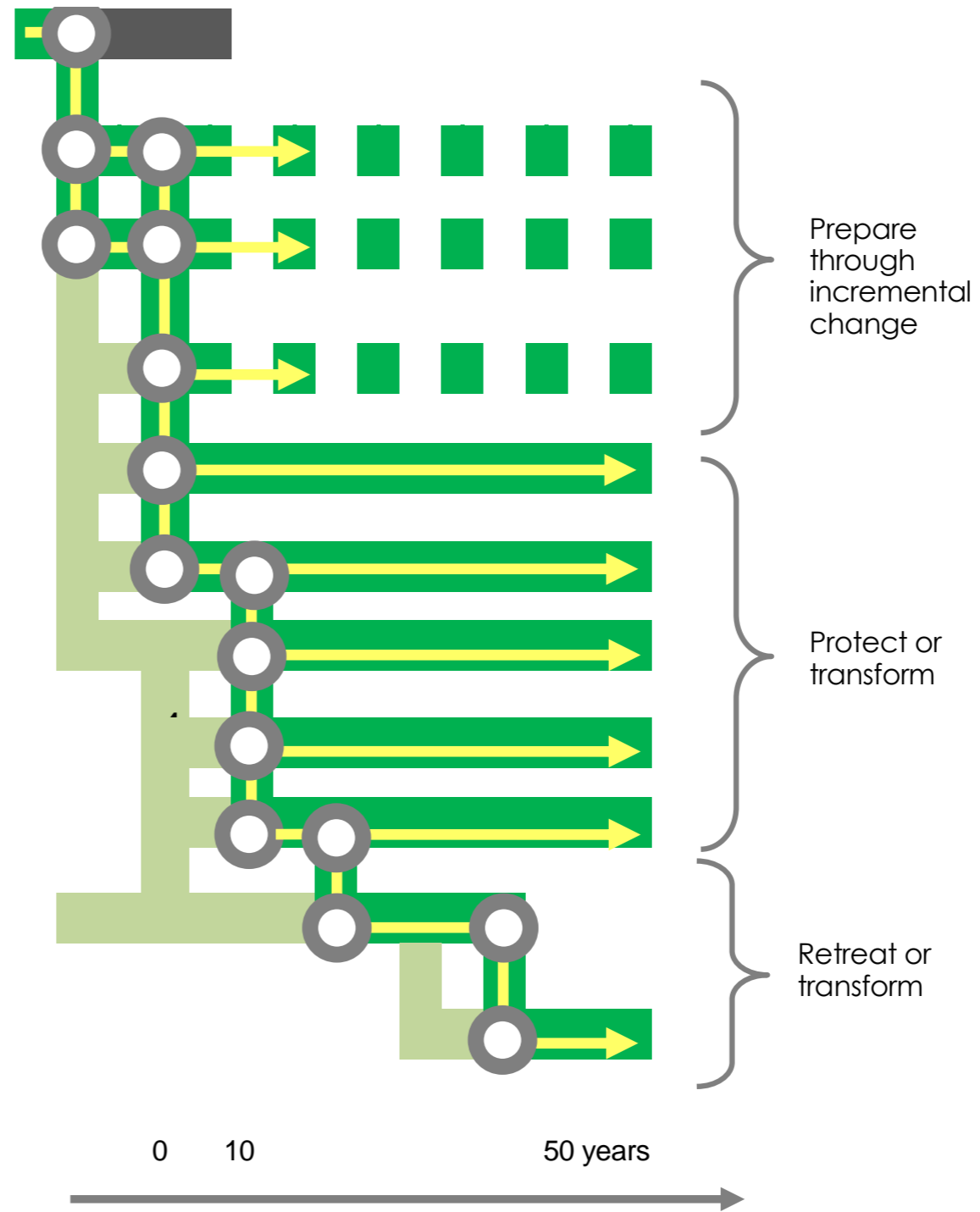
Genetically modified crops

Structural options or modifications

Change in distribution of fishing effort

Assisted migration of conservation
species

Relocation (houses, fishing fleet, assisted
migration of conservation species)



0 10

50 years

Now

Future - reduced rainfall (15% avg) and runoff, increased temperature (1.5 to 2°C) and number of heatwaves (near doubling), rising sea level (by 0.5 m)

Innovation through collaboration

- What sits beyond risk and vulnerability assessment?
- How do we get the narrative right? (relevance)
- How do we sequence actions through time? (pathways)
- How do we mainstream? (embedding policy)
- What are the barriers to on-ground action? (policy, values)
- How do we develop funding strategies / finance on-ground actions?

Emerging projects and initiatives



Local

- Climate Change Services Symposium 23 and 24 November in Adelaide
- Capability Mapping
- Markey Research

International

- Government to Government exchange /
- Learning delegations (capacity building)
- Partnership program –
Climate analogue regions and cities

We want to hear from local industry about your needs!

Climate Change Services Australia

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**Climate Change Services
Australia**



**Government
of South Australia**

Department of Environment,
Water and Natural Resources

Eyre Peninsula Adaptation Planning

Legislation and policies at a State level

Cross sectoral, regional adaptation plans

Integrated vulnerability assessment

Sector based planning e.g. Local Government, agriculture

Local actions in, for example, aquaculture, agriculture and biodiversity conservation

But what were the “missing links”?



Eyre Peninsula Adaptation Planning



Missing links to underpin progress:

- Communities **didn't want to talk about vulnerability** – so the focus was on values and resilience
- **Technically robust solutions don't always get implemented** – so decision making barriers were identified in relation to community values and the policy and governance setting
- **There was a fear about how much it will cost to act on everything now** – used concept of adaptation pathways