



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

# **Pacific-Australia Climate Change Science and Adaptation Planning (PACCSAP) program**

## **Adaptation Costs and Benefits Scenarios**

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# Today's presentation

- Overview of PACCSAP's new costs and benefits activity
  - How this activity can link to the P-CBA initiative
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# Pacific-Australia Climate Change Science and Adaptation Planning (PACCSAP) program

- \$32m program managed by the Australian Department of the Environment and delivered in partnership with Australian science agencies, regional orgs, partners
- Building the capacity of Pacific island decision makers to manage future climate risks through:

1. A better understanding of climate change science

2. Communicating climate science and adaptation knowledge to decision makers

3. Building capacity to integrate climate risk management in key development sectors

# PACCSAP Adaptation Costs & Benefits Scenarios

**Aim:** To assist decision makers understand the implications of different adaptation pathways to help prioritise climate change action within the broader context of development needs

## Objectives

- Provide **guidance** and insight on the cost effectiveness of adaptation options, based on a set of adaptation scenarios
  - Present approach to the economic analysis in a format for ease of **replication** by governments, regional organisations and donors
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# This activity will aid decision makers to understand ...

- the **relative costs and benefits** of different adaptation options
  - implications of **early versus delayed adaptation action** (timing of investments)
  - **who pays and who benefits** (distribution of impacts) - and any implications of different greenhouse gas emission scenarios
  - Importance of **taking a strategic approach** in the investment of adaptation options
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## 3 case studies

Proposed case study sites:

- 1. Low-lying coastal settlements/critical infrastructure:** Vanuatu – site level analysis
- 2. Food security:** Solomon Islands– catchment level analysis
- 3. Water security:** Tuvalu – sectoral level analysis

*N.B - The method of analysis will be guided by data availability and the nature of the costs and benefits to be assessed*

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# Protection of low-lying coastal assets Vanuatu



- Site/s to be selected in consultation with the Vanuatu Government
  - Leverage off existing vulnerability and risk assessments
  - Consider the cost-benefit of different options – *retreat*, *accommodate and protect* associated over different timeframes and emissions scenarios
  - Consider the implications for operation, maintenance, risk profiles and identify who pays/benefits
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# Food Security Solomon Islands



- Economic analysis to focus on the adaptation options already identified in the '*Choiseul Province Climate Change Vulnerability and Adaption Assessment Report*'
  - Propose to selected one catchment to test the hypothesis that adaptation action based on ridge-to-reef or ecosystem-based adaptation will provide a more effective climate change adaptation outcome than addressing individual options separately
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# Water security Tuvalu

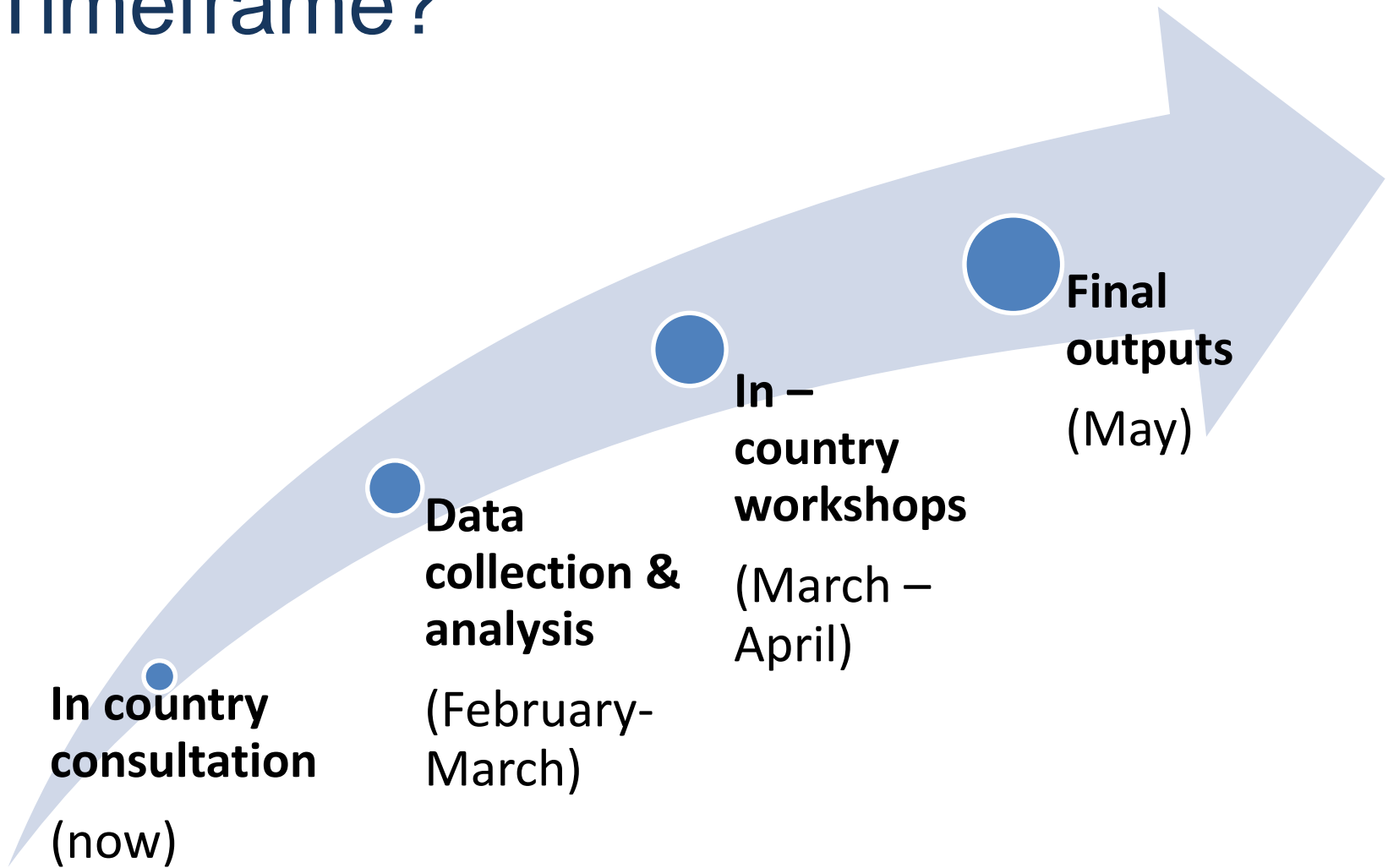


- Consideration of both demand and supply-side adaptation options
  - Identify the most feasible adaptation pathway by grouping adaptation options and setting trigger points for action for different emissions scenarios
  - Analyse the distributional impacts and cost sharing issues around the alternative options and pathways
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# Outputs for each scenario

- Summary report for policy makers
    - Developed in collaboration with national focal points, targeted at high level officials
  - Technical guideline
    - For practitioners
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# Timeframe?



# Alignment with the P-CBA initiative

- Applying the P-CBA Guide to inform the PACCSAP activity – **consistency** in approach
  - PACCSAP technical guidelines – **compliment** the P-CBA guide (for sectoral analysis)
  - P-CBA Work program
    - Look for synergies
    - Leverage off similar projects/share knowledge and data
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# Fa'afetai Tele Lava - Vinaka Vaka Levu

