

# Brief overview of the CCII project

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# CCII Summary

|   |   |
|---|---|
| Duration:                                   | 01 October 2012 – 30 September 2016                             |
| Funding:                                    | \$1,800,000 per year  |
| Funding Agency:                             | New Zealand Ministry for Business,<br>Innovation and Employment |
| <b>Participating Research Organisations</b> |   |
| AgResearch                                  | Bodeker Scientific  |
| Landcare Research (Co-lead Agency)          | Motu Economic Consulting Limited                                |
| NIW(Co-lead Agency)                         | PS Consulting Ltd.  |
| Plant and Food                              | Scion   |
| University of Waikato                       | Victoria University   |
|   | GNS Science   |

# *KEY QUESTION*

(from MBIE Environment RfP)

What are the predicted climatic conditions and assessed/potential impacts and implications of climate variability and trends on New Zealand and its regional biophysical environment, the economy and society, at projected critical temporal steps up to 2100?

The project started on 1 October 2012 and finishes on 30 September 2016\*

# Objectives

- Update and improve projections of climate trends, variability and extremes across New Zealand out to 2100, based on the latest global projections
- Generate new knowledge about the potential impacts and implications of climate change and variability on
  - Environment: natural ecosystems and native species
  - Economy: many productive activities which depend on the environment
  - Society: to enable continued growth and prosperity

# Outputs & Outcomes

**30+**

- New research findings reported in peer-reviewed papers and science reports, accessible for IPCC AR6;

**80+**

- Presentations at international and local conferences, meetings and workshops;

**10**

(in progress)

- A set of synthesis reports summarising key results and indicating future research gaps, suitable for a general readership;

**ccii.org.nz**

(in progress)

- A project webpage displaying key results and descriptions of models/approaches used, plus contact information;

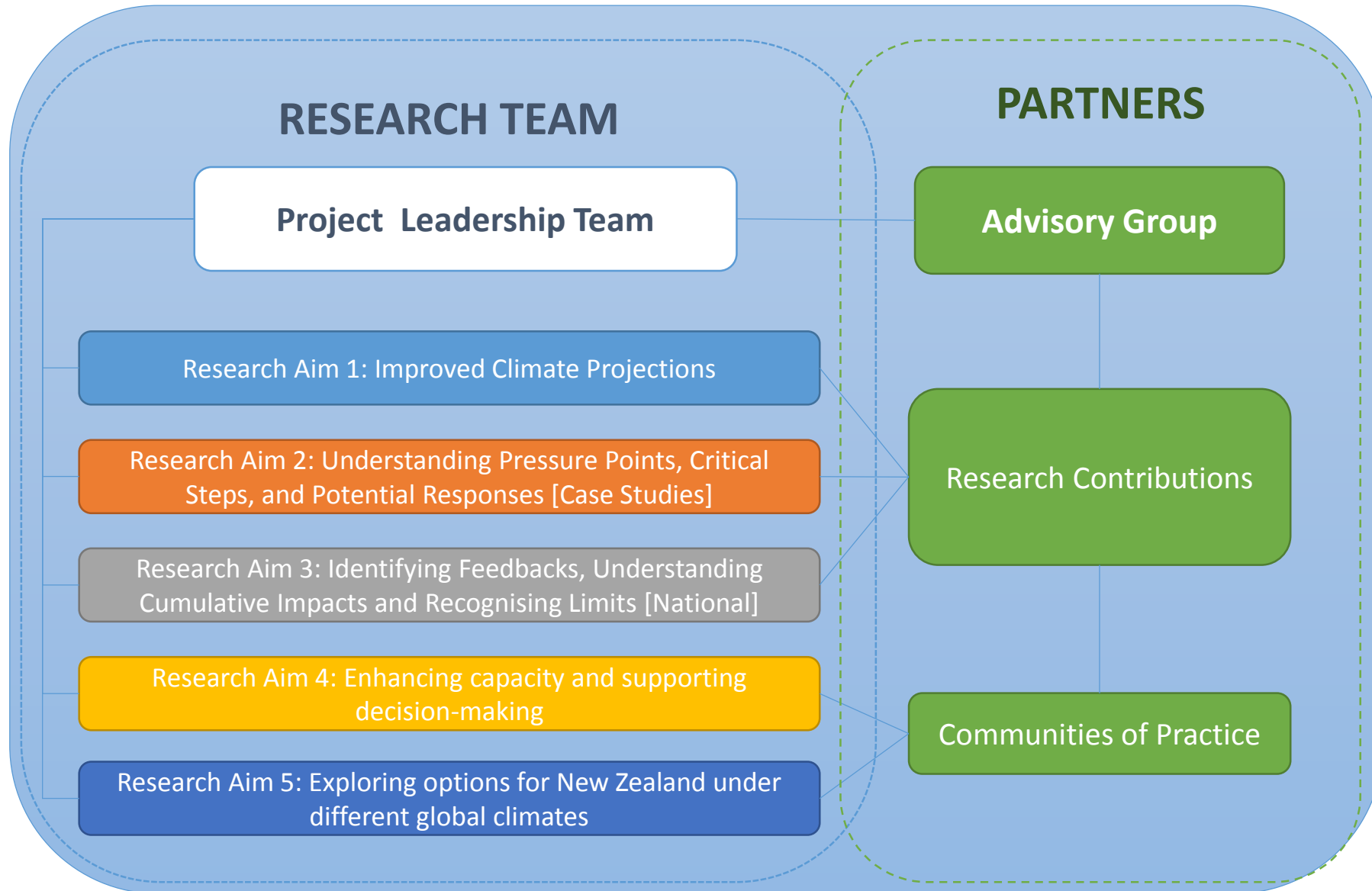
**Yes**

- Linkages with the National Science Challenges, especially the Deep South Challenge; and

**Ultimate  
goal!**

- An increased capacity of government, business, iwi, and communities to adapt in a timely and robust manner to an increasingly complex, climate-challenged world

# CCII Project Structure



# RA2 Case Studies

- Alpine (Southern Alps)
- Uplands (MacKenzie Basin, Upper Waitaki Catchment)
- Lowlands (Kaituna Catchment, Bay of Plenty)
- Coastal (Firth of Thames and lower Waihou River)
- Marine (NZ EEZ)

For each of these studies, the driving principle was to model as much of the biophysical impacts (natural and managed systems) as possible, consider the outputs alongside each other and alongside socioeconomic scenarios, and think about the implications with an “integrated” assessment approach.

**This was a LOT harder than we originally thought!**

# Webpage: www.cci.org.nz

**CCII** Climate Changes, Impacts & Implications for New Zealand

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## Climate Changes, Impacts & Implications for New Zealand



Research Aim 5  
Exploring options for New Zealand under different global climates

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### Building resilience through better understanding of what matters



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