



THE UNIVERSITY OF
MELBOURNE

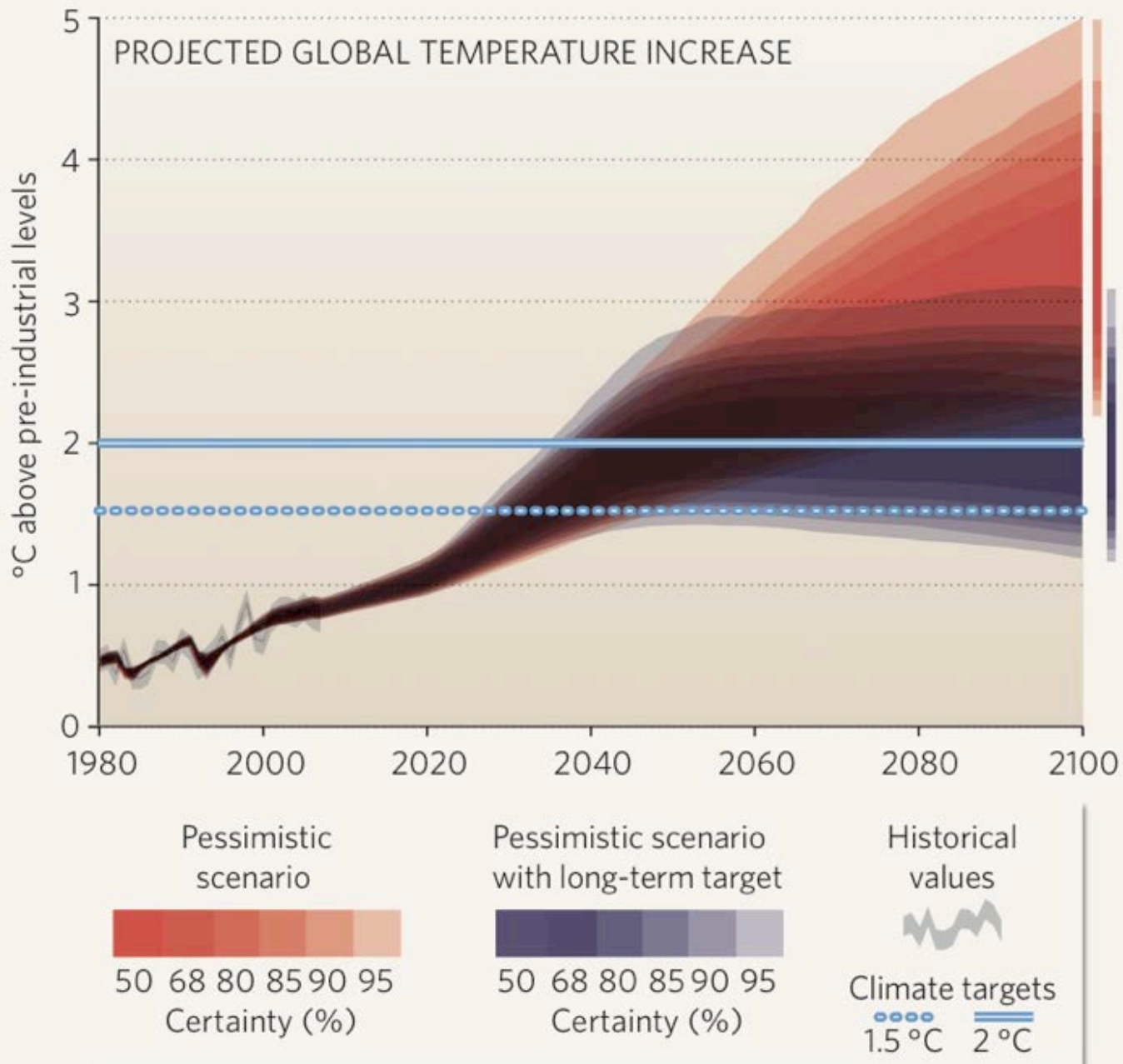


PECC International Project 2011-12: Sustainable Management of Marine Resources

Session 1. What are the consequences of climate change on the economic development of the Pacific Rim region? Perceived and real impacts.

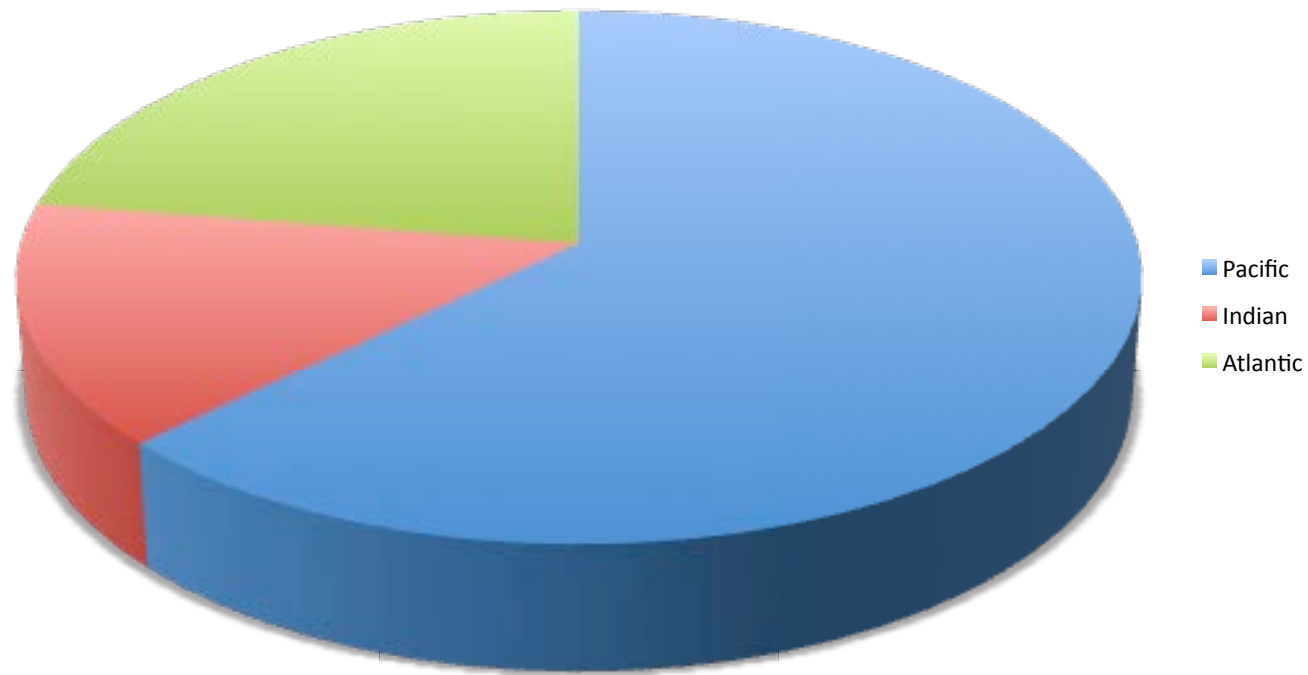
**Confronting climate change
in the Pacific: knowledge-
action approaches and the
APRU World Institute CMAS
Program**

Jim Falk



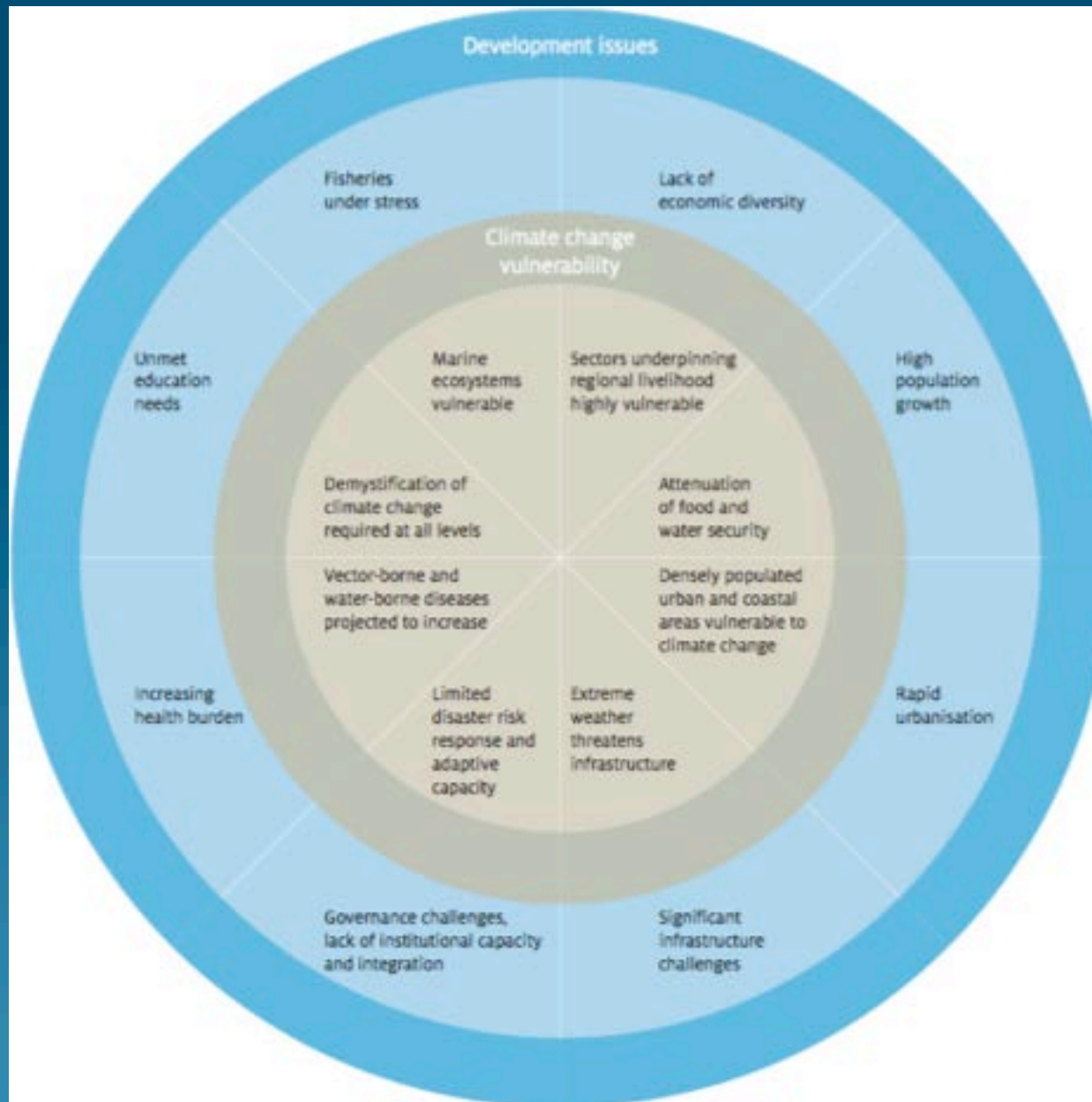
Rogelj, Meinshausen, et al, Nature, 2011

Principal fish catch by ocean



Calculated from FAO report 2011

Climate change vulnerabilities

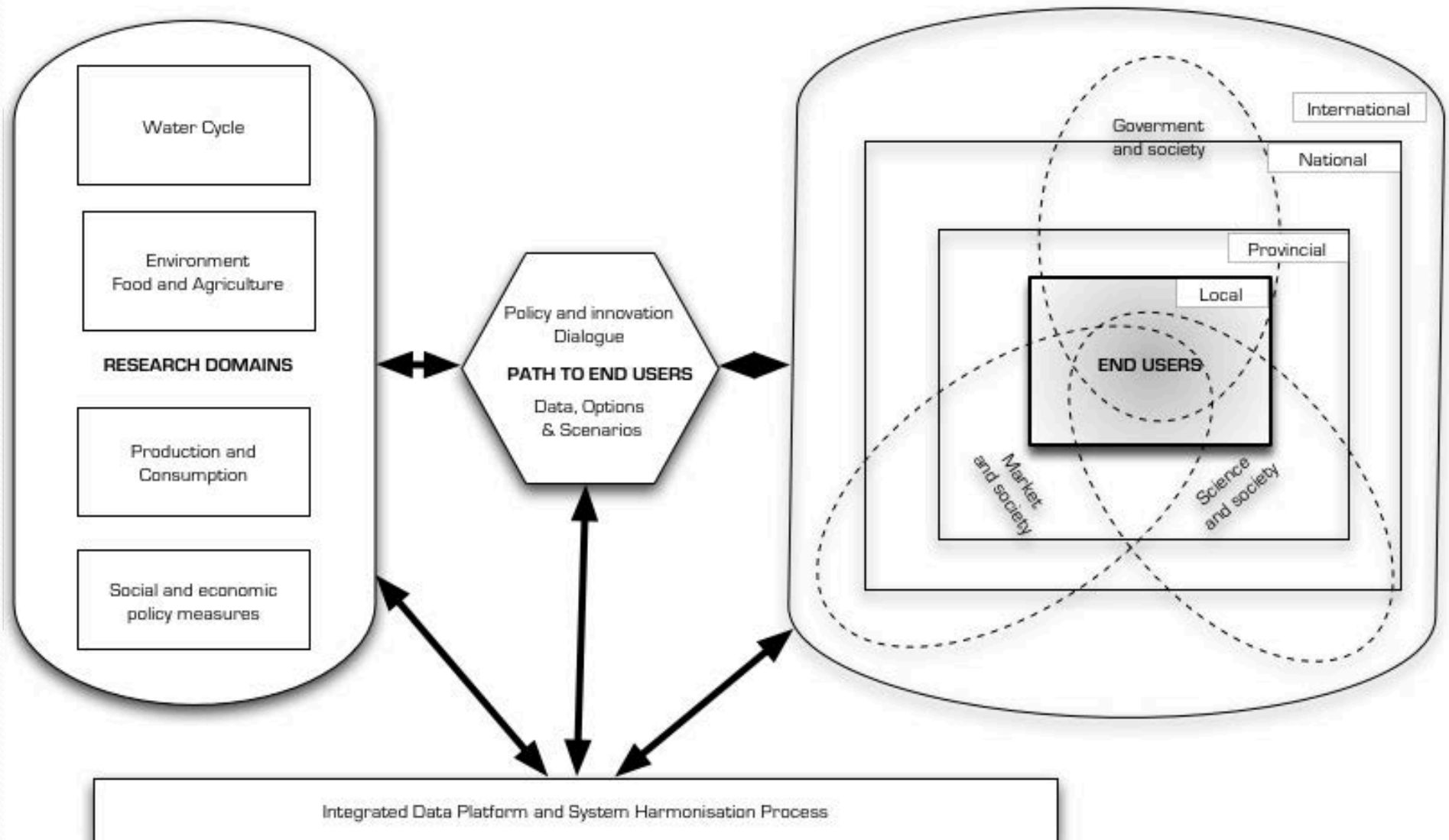


Source: Aust Govt
Engaging our Pacific
Neighbours on
Climate Change 2009

Effective action requires local foresight



System Harmonisation Process with On-going Evidence Based Engagement with End Users



Harmonisation is often of apparently opposing needs

© 1998 Ted Goff tedgoff@tedgoff.com <http://www.tedgoff.com>



"We've found that we can balance the cart before the horse with two carts behind the horse."

The knowledge-action approach



Bring together different knowledge communities to address complex regional issues in the face of uncertainty:

- jointly develop answers to jointly asked questions
- blend relevant (interdisciplinary) expertise and tools with stakeholder knowledge
- harmonise results and outcomes with local / regional needs
- build trust amongst the networks of collaborators

A stylized world map in shades of blue and purple, centered on the Pacific Ocean, serving as a background for the top half of the slide.

APRU World Institute

Association of Pacific Rim Universities

APRU World Institute

**Climate Mitigation and Adaptation
Strategies (CMAS) research program**

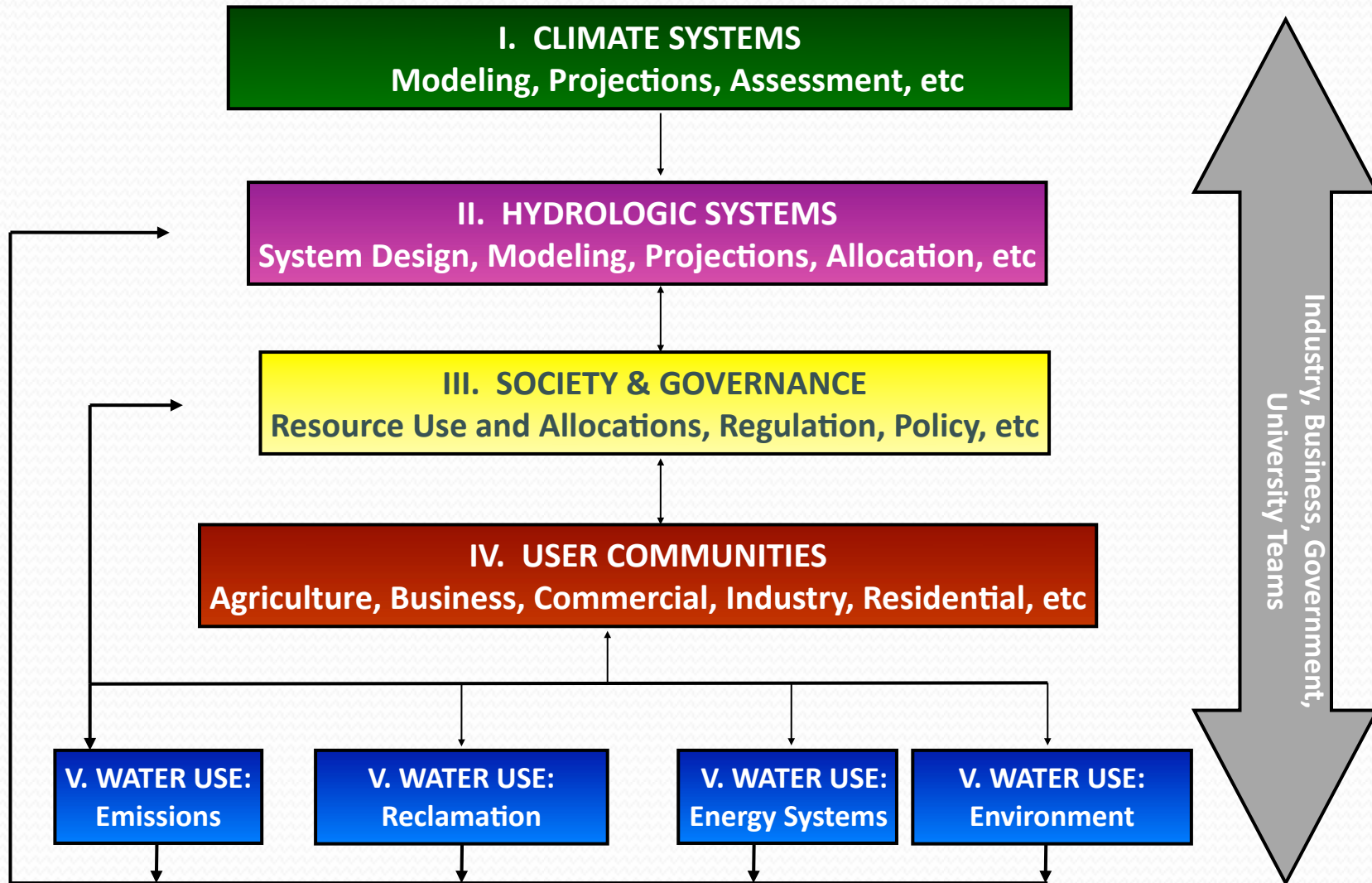
CMAS Research Team Leaders (14 research teams)



Integrated approach

- understand the water system in interaction with communities as a **single system**
- include population and economic growth and climate change
- identify related challenges at community & higher scales
- identify information in and out needed for practical social & technical solutions from community up
- implement processes of communication, engagement and harmonisation of solutions

INTEGRATED WATER RESOURCE MANAGEMENT & IMPACTS of CLIMATE CHANGE Asia-Pacific Rim Urban Communities



CMAS Five Thrust Areas



Climate Systems - focuses on enhancing linkages between regional climate models (RCMs) and global climate models (GCMs) for the Pacific Rim case study cities.



Hydrologic Systems - focuses on linking precipitation inputs and extreme weather events to impacts on the land masses of urban communities.



Society and Governance - focuses on tools and approaches to overcoming barriers to effective integrated water governance and to develop a clearer picture of how local knowledge may affect effective adaptation responses, and the role that education can play in shaping resilient urban communities in the face of water stress.



IV. User Communities - focuses on User Communities, ensuring they are both examined and participate in the shaping of the research questions and responses.



Water Use: Emissions, Reclamation, Energy & Environment - focuses on developing an array of technologies and approaches for water reclamation for integrated use with the overall project. The thrust will be an integration of four sub-areas: Emissions, Reclamation, Energy, and Environment.



Regional Training Workshop on "Hydrologic Data Management and Modelling in Southeast Asia," Kuala Lumpur (July, 2009)



- **Co-organized with: UNESCAP, Aguajaring & Water Knowledge Hub for Climate Change Adaptation & NAHRIM**
- **Attracted 30 government agency participants from all across Southeast Asia**
- **Jointly conducted by AWI CMAS members: University of Malaya and University of California at San Diego**



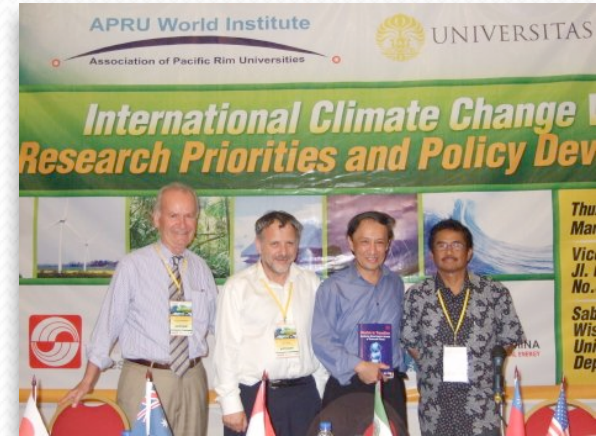
2010 Jakarta meeting contributes to..

Establishment of Research Centre on Climate Change at University of Indonesia

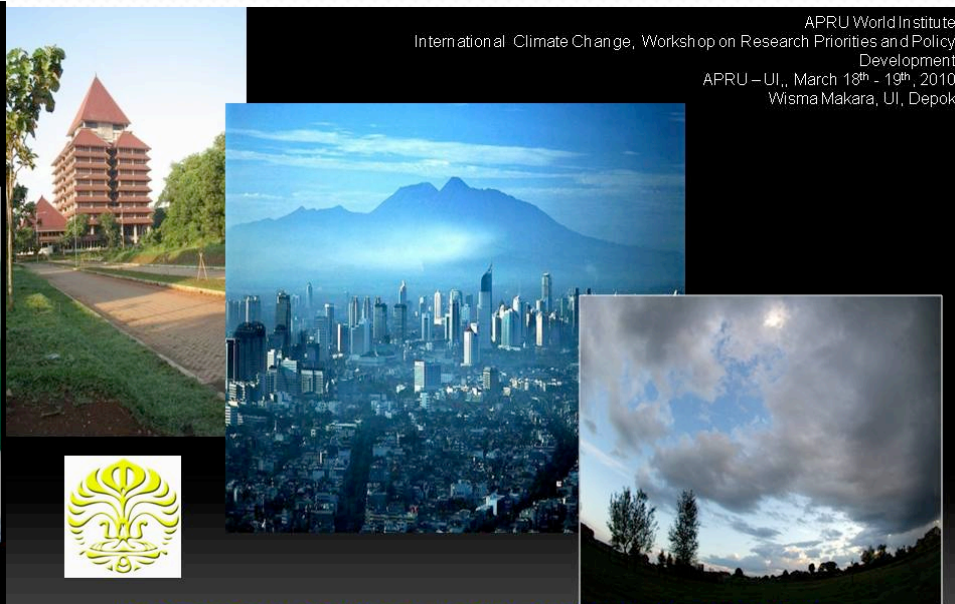
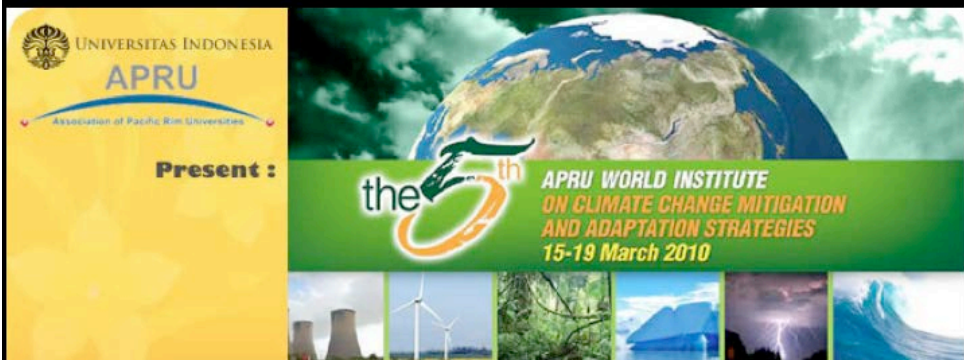
Camelia Pasandaran, March 18, 2010

Boediono Appeals for Cooperation Worldwide to Deal With Climate Change

With the international community failing to agree on how to tackle climate change, Vice President Boediono on Thursday called for more research and action to mitigate and adapt to the new conditions. His statement came at the opening of an international climate change workshop on mitigation and adaptation strategies.

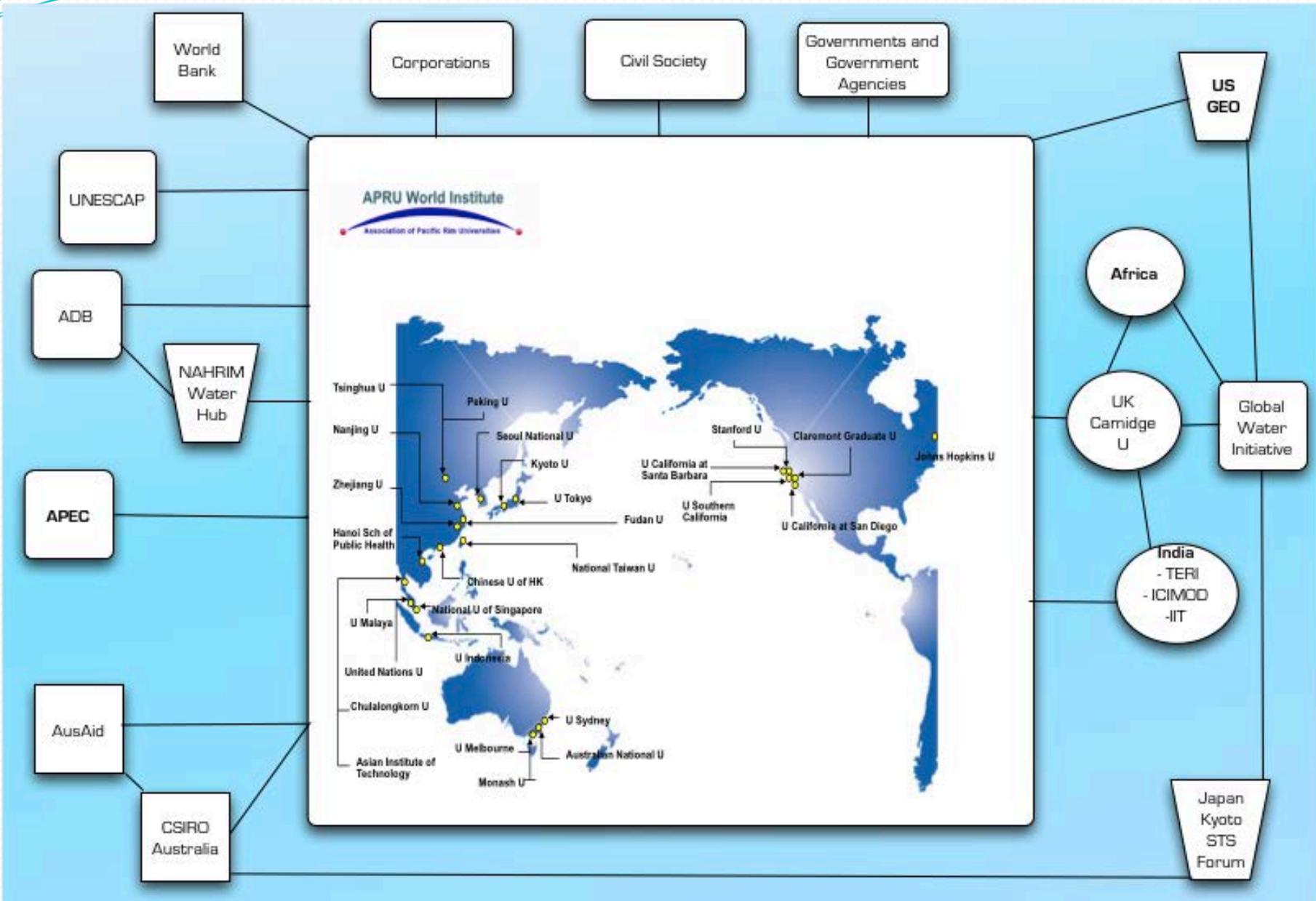


APRU World Institute
International Climate Change, Workshop on Research Priorities and Policy Development
APRU – UI., March 18th - 19th, 2010
Wisma Makara, UI, Depok



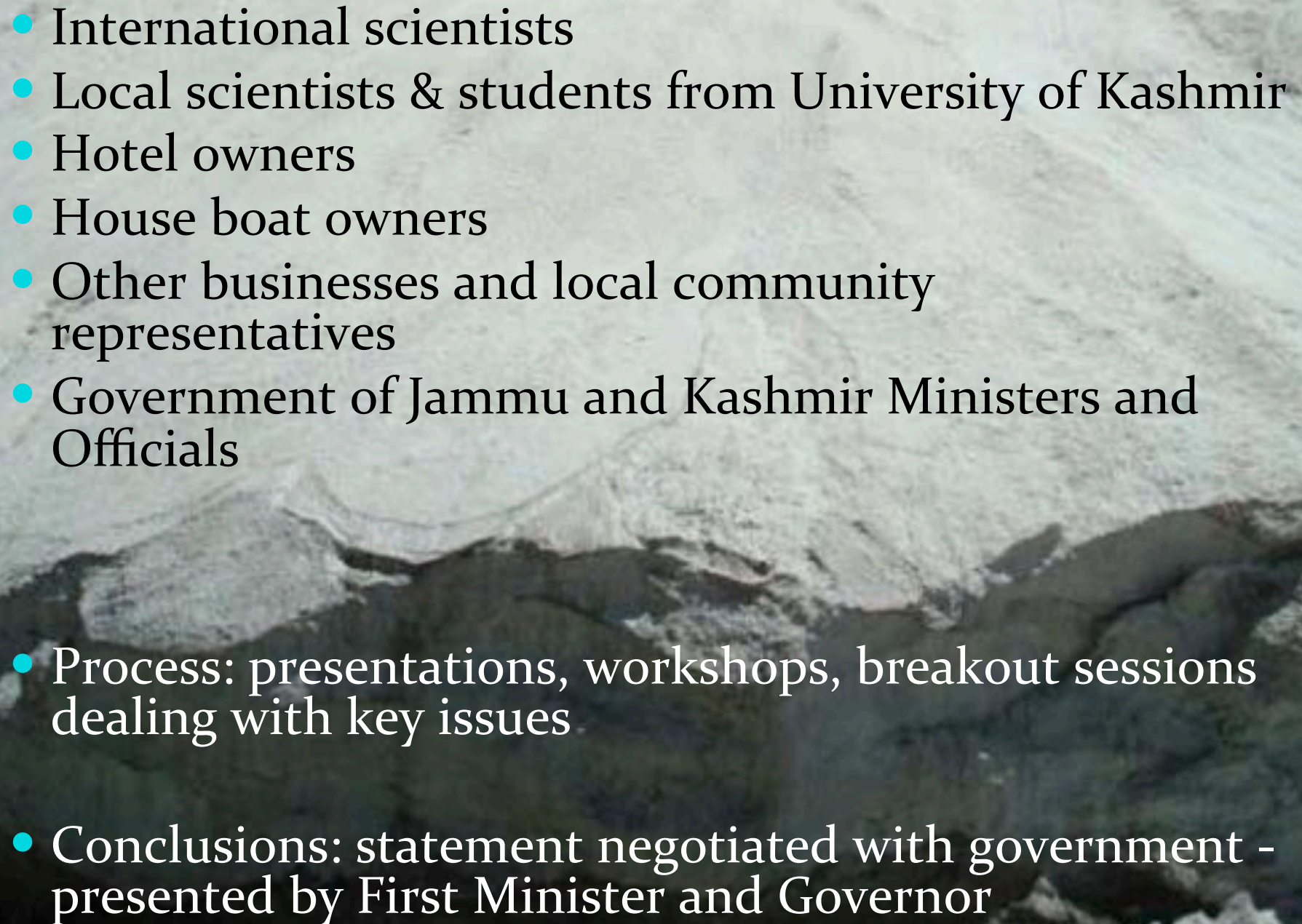
**RESEARCH CENTER FOR CLIMATE CHANGE
UNIVERSITY OF INDONESIA
2010**

Building capacity through collaboration...



Regional consultation workshop on impact of climate change and glacial retreat (Srinagar Kashmir – November 2009).



- 
- International scientists
 - Local scientists & students from University of Kashmir
 - Hotel owners
 - House boat owners
 - Other businesses and local community representatives
 - Government of Jammu and Kashmir Ministers and Officials
-
- Process: presentations, workshops, breakout sessions dealing with key issues
 - Conclusions: statement negotiated with government - presented by First Minister and Governor



Identify effective KA methodologies for water communities which

- *harmonise* across geographic, social and technical scales of impact and governance
- *identify and communicate* with stakeholders
- *overcome* institutional barriers
- *share* where data is, and actual data
- *develop* tools for monitoring, predicting and evaluating progress
- *extend* opportunities for innovation by sharing and learning
- *build* trust

<http://awi-cmas.com>

Welcome to the Frontpage

http://awi-cmas.com/ Loading... X Google

Bonjour optus shotokan BigBoss ethernet coCom Devonthink Bookmarklets Cpan Joomla WITA WITHP CMASA CMASHP DWiki cydia itechie UoM Travel The World Cl...r - Results staff

Welcome to the Frontpage

APRU WORLD INSTITUTE CMAS PROJECT SANDBOX

the UNOFFICIAL working website for CMAS researchers. APRU is not responsible for content. Copyright reserved by article authors.

search...

MAIN MENU


- Home
- Overview of the Sandbox
- News and Announcements
- CMAS in the News
- Web Links
- Contact the AWI-CMAS Program
- Wiki (CMAS as it is developing)
- Photo Gallery

CMAS RESEARCH

- Introduction to CMAS research
- CMAS Conferences/Workshops
- CMAS Research Programs

Indonesia meeting develops strong outcomes

Tuesday, 23 March 2010 00:59 Jim Falk



Group Photo: 5th CMAS Program Meeting, Jakarta 17 March 2010

From Left: Guoli Chen (AWI), Ajinomoto Baroth (Malaya), Lee Gividen (MalSI), Fu Sun (Tsinghua U), David Pierce (UCSD), Jim Falk (MekU), Leigh Glover (MekU), Jindra Sapatina (US), Richard Drobicki (MekU), Paul McGowan (NiconHSA), Tony Jaraman (APRU), Doro Theakston (CMAS), Jim Trevena (AMSAT International), Sangam Shrivastha (MUT), Graham Moore (MekU), Abdurrahman Taufiq Anamayah (SA), Long Doo Yul (NUS), Ragnvald Owelette (US), Triana Nurliana (US), Daunka Thuan (AFR)

The 5th CMAS international research meeting concluded in Jakarta, Indonesia, with a range of important outcomes. Attended by researchers from 12 universities from across the Pacific Rim, it seemed to be the consensus that CMAS was poised for its next stage of development.

The two day team meeting was followed by a further two day workshop focussing on Indonesia and Climate Change. Co-chaired by the Vice President of Indonesia, Professor Dardjono, in his address, the meeting stressed that

CMAS LOGIN

Username
admin

Password

Remember me


LOGIN

[Forgot login?](#)
No account yet? [Register](#)

CMAS ONLINE

None

ng "http://awi-cmas.com/", completed 52 of 53 items



PECC, as it further develops its responses, can benefit by supporting and learning from knowledge-action approaches developing across a growing network of water communities.