



APRU World Institute

Association of Pacific Rim Universities

APRU World Institute

“Collaboration Among Universities, Business Firms, and City Governments to Develop Climate Change Adaptation Strategies for Pacific Rim Cities”

in

“An APEC Climate Change and Sustainable Environment” (Plenary Session 5)

in

**“ECONOMIC CRISIS AND RECOVERY”
PECC Conference, October 8-10, 2009, Singapore**

Presented by

Richard Drobnick

**Managing Director, APRU World Institute and
Director, Center for International Business Education and Research
Marshall School of Business, University of Southern California**

Member Institutions

42 APRU Members and 2 Invited Members

Australia

Australian National University
University of Melbourne
University of Sydney

Canada

University of British Columbia

Chile

University of Chile

China

Fudan University
Hong Kong University of Science & Technology
Nanjing University
Peking University
Tsinghua University
University of Hong Kong
University of Science and Technology of China
Zhejiang University

Chinese Taipei

National Taiwan University

Indonesia

University of Indonesia

Japan

Keio University
Kyoto University
Osaka University
Tohoku University
University of Tokyo
Waseda University

Korea

Korea University
Seoul National University

Malaysia

University of Malaya

Mexico

National Autonomous University of Mexico
Tecnológico de Monterrey

New Zealand

University of Auckland

Philippines

University of the Philippines

Russia

Far Eastern National University

Singapore

National University of Singapore

Thailand

Chulalongkorn University

United States of America

California Institute of Technology
Stanford University
University of California, Berkeley
University of California, Davis
University of California, Irvine
University of California, Los Angeles
University of California, San Diego
University of California, Santa Barbara
University of Oregon
University of Southern California
University of Washington

Invited Members

Board of the Swiss Federal Institutes of Technology (ETH)

Johns Hopkins University

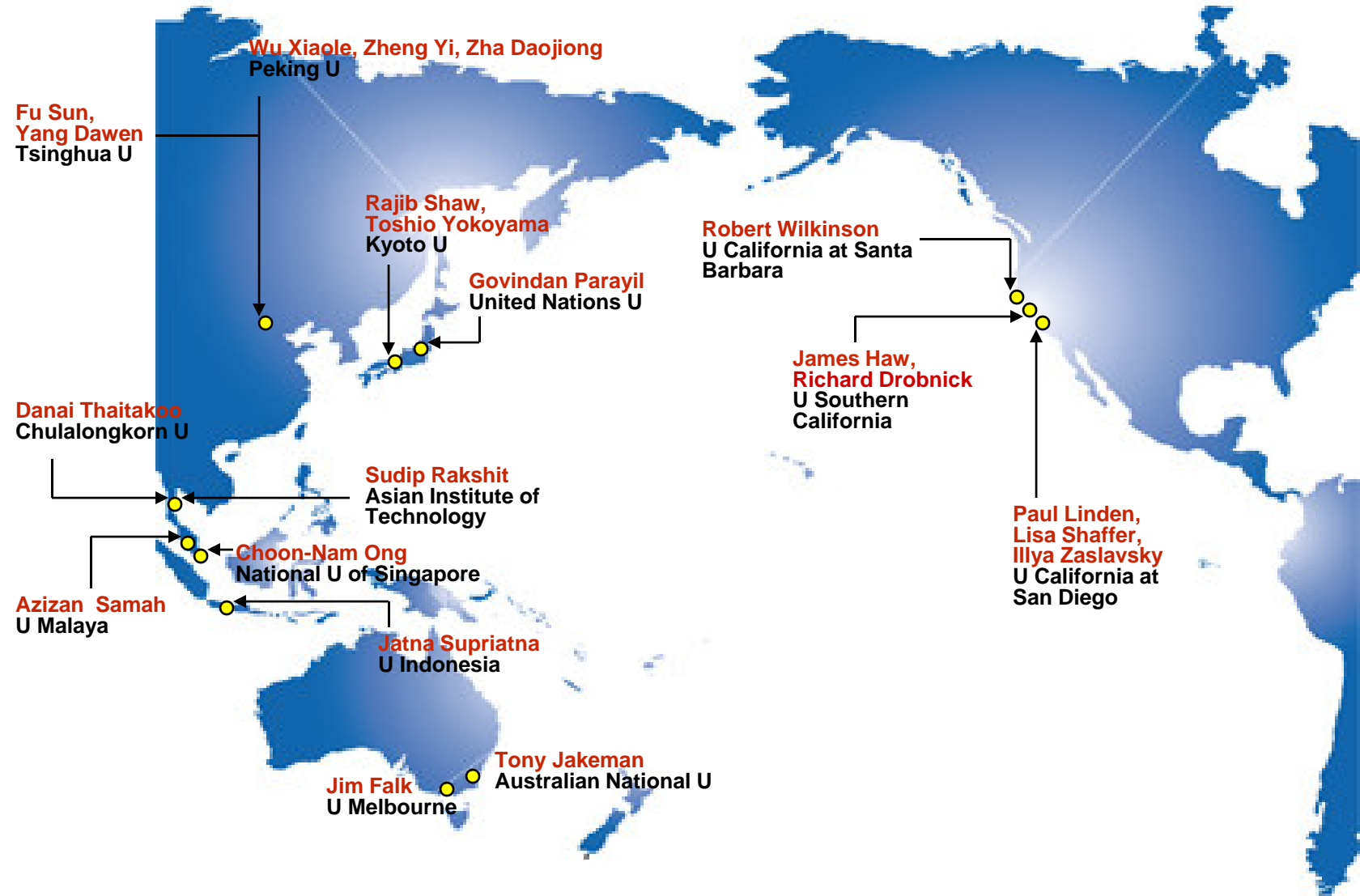
AWI Governing Board



Climate Change Mitigation & Adaptation Strategy (CMAS) Case Study Cities (11)



CMAS Research Team Leaders (14 research teams)



CMAS Workshops (4) and Research Meetings (5)



Description

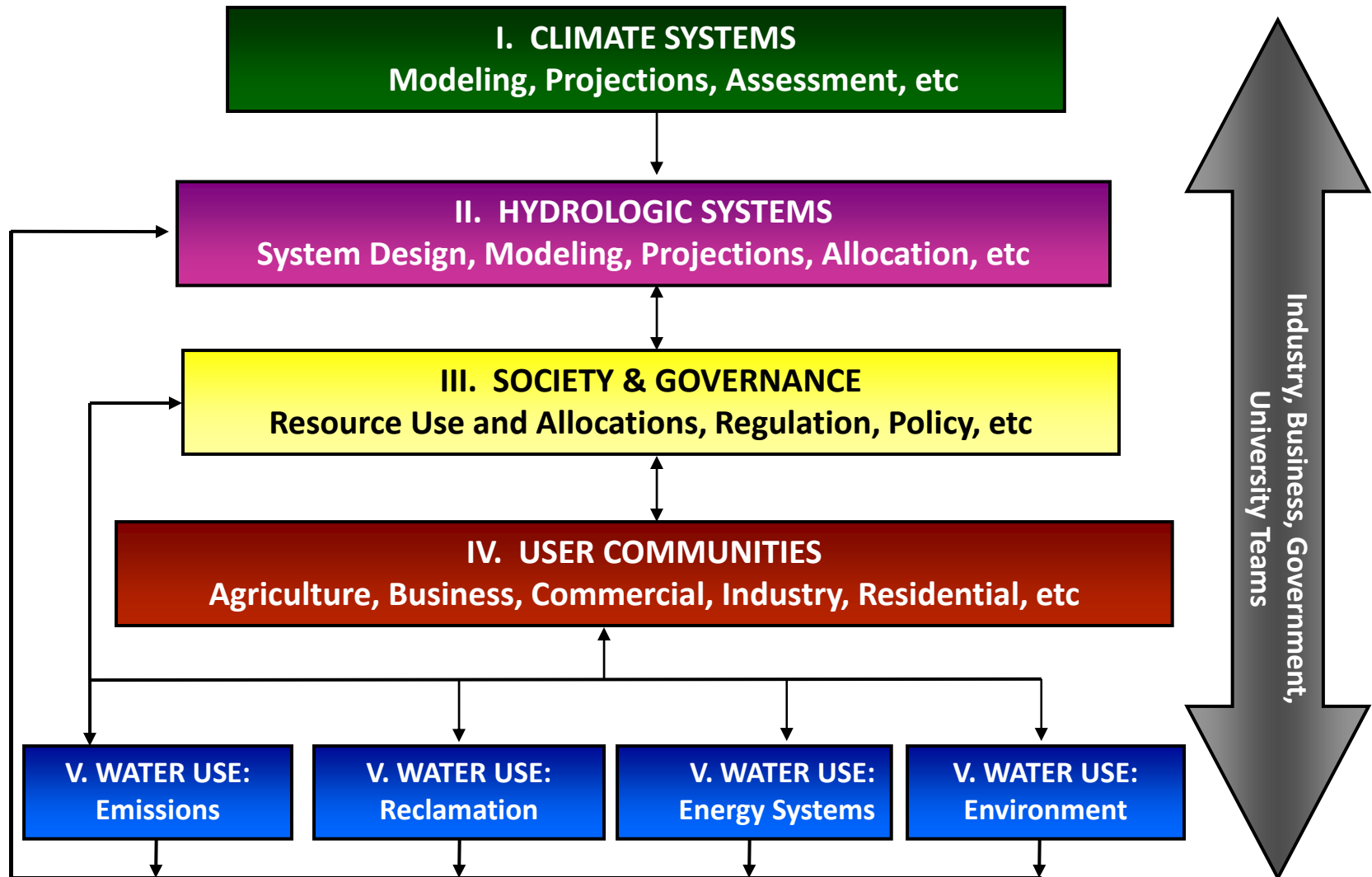
Help secure a sustainable water future for coastal cities and regions facing climate change, economic growth and population increases. CMAS works to incorporate climate change research and climate impact assessments into integrated water management decisions, working with academic experts, industry, and government practitioners in 11 Pacific Rim cities-- 6 in developing economies; 5 in developed economies.

CMAS Research Theme Director

Professor Jim Falk

Director, Australian Centre for Science, Innovation and Society
University of Melbourne

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



CMAS Five Thrust Areas

- I. **Climate Systems** - focuses on enhancing linkages between regional climate models (RCMs) and global climate models (GCMs) for the Pacific Rim case study cities.
- II. **Hydrologic Systems** - focuses on linking precipitation inputs and extreme weather events to impacts on the land masses of urban communities.
- III. **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.
- V. **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.

AWI Strives to Attract Business Participation

AWI Requests to ABAC (February, 2009)

- 1. ABAC might help AWI recruit business participants -- persons developing products and services to better manage challenges related to climate change and public health threats. Such business recruits might participate in AWI workshops, might be interviewed by AWI researchers, or might review and comment on AWI reports.**
- 2. ABAC might disseminate some of AWI's research results in ABAC publications.**
- 3. ABAC might incorporate some of AWI's research results in its policy recommendations to APEC leaders.**

24. *“Mr Richard Drobnick, Managing Director from the APRU World Institute (AWI), presented to the group on the Institute’s upcoming research projects on Climate Change and Public Health. Mr Drobnick outlined that ABAC can assist the Institute on its projects in three ways: 1) recruit business participants to participate in surveys 2) ABAC as a vehicle to assist in publicising and disseminating AWI’s work 3) ABAC as a vehicle to assist AWI in policy recommendations to senior officials and leaders resulting from its studies and research.”*

25. *“The Chairman agreed that ABAC establish a relationship with AWI and the Institute work with the Secretariat to contact members regarding their participation and interest in their upcoming projects.”*

* *Recommendations of ABAC’s “Sustainability Development Working Group” (2/12/09)*

AWI Strives to Recruit Government Participation



AWI Managing Director, Richard Drobnick, Kyoto University President Kazuo Oike and Keio University President Yuichiro Anzai sharing information about AWI's research programs with Japanese Prime Minister Yasuo Fukuda (June, 2008)

AWI Requests to PECC

- 1. PECC Member Committees might help AWI recruit business and government participants for its research programs --persons developing products and services to better manage challenges related to climate change and government policy makers/policy advisors who are involved with relevant climate change issues.**

Such recruits might participate in AWI workshops, might be interviewed by AWI researchers, or might be asked to comment on draft versions of AWI reports.

- 2. PECC might disseminate some of AWI's research results in PECC publications.**
- 3. PECC might incorporate some of AWI's research results in its policy recommendations to APEC senior officials.**

Annex 1: CMAS Outcomes

- 1. Keynote lecture by CMAS Research Theme Director, University of Melbourne's Jim Falk, at "Tokyo World Conference for Sustainable Future," sponsored by the Nihon Kezai Shimbun (November, 2008)**
- 2. Obtained agreement from ABAC to collaborate with AWI research programs, at ABAC Meeting in Wellington (February, 2009)**
- 3. Article published about CMAS by CMAS co-director UC San Diego's Lisa Shaffer, "Coastal Cities: Climate Change Impacts and Response Strategies," in Saul Hymans (ed), The Economic Outlook for 2009: Fifty-sixth Annual Conference on the Economic Outlook, Ann Arbor, Michigan, Research Seminar in Quantitative Economics (March, 2009)**
- 4. Seminar presented by CMAS Research Theme Director, University of Melbourne's Jim Falk on "Climate Change, Water and the CMAS Program," at United Nations Institute of Advanced Studies, Yokohama (May 2009)**

Annex 1: CMAS Outcomes

- 5. Invited to become a partner for Regional Cooperation and Knowledge Hub Services for the National Hydraulic Research Institute of Malaysia (NAHRIM) *NAHRIM Knowledge Hub* and participated in NAHRIM's "Workshop on Developing Water and Climate Change Adaptation Guidelines," Kuala Lumpur (May, 2009)**

- 6. Conducted a workshop titled, "Hydrologic Data Management and Modeling 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**

Annex 1: CMAS Outcomes

7. Stimulated the development of a “Sustainability Partnership” with the Asia Society Centers of Northern and Southern California and the University of California at Los Angeles (UCLA) and the University of Southern California (USC), to produce two workshops and public conferences per year, from 2009-2014, on sustainability issues, with “Year One” schedule shown below: (September, 2009)

“Water & Energy Nexus,” San Francisco, December, 2009

“Water & Energy Nexus,” Los Angeles, April, 2010

8. Invited by the President of the King Abdullah University of Science and Technology www.kaust.edu.sa to help organize sessions for the inaugural “Red Sea Science & Innovation Forum,” which will be held in Jeddah in January, 2011. A tentative title for the 2011 forum is “Sustainable Cities in the Solar Belt” (September, 2009)

Annex 1: CMAS Outcomes

9. **CMAS Research Theme Director, University of Melbourne's Jim Falk participated as a rapporteur and panelist in the "Regional Climate Change Conference," sponsored by Japan's Science and Technology in Society Forum, Kyoto (October, 2009)**

10. **Group on Earth Observations (GEO) approved a concept proposal from AWI CMAS members—UC San Diego, U. Melbourne, & U. Malaya to "Develop Hydrological Data Infrastructure and Capacity Building for Assessing and Predicting Climate Change Effects on Water Resources in South East Asia" (October, 2009)**

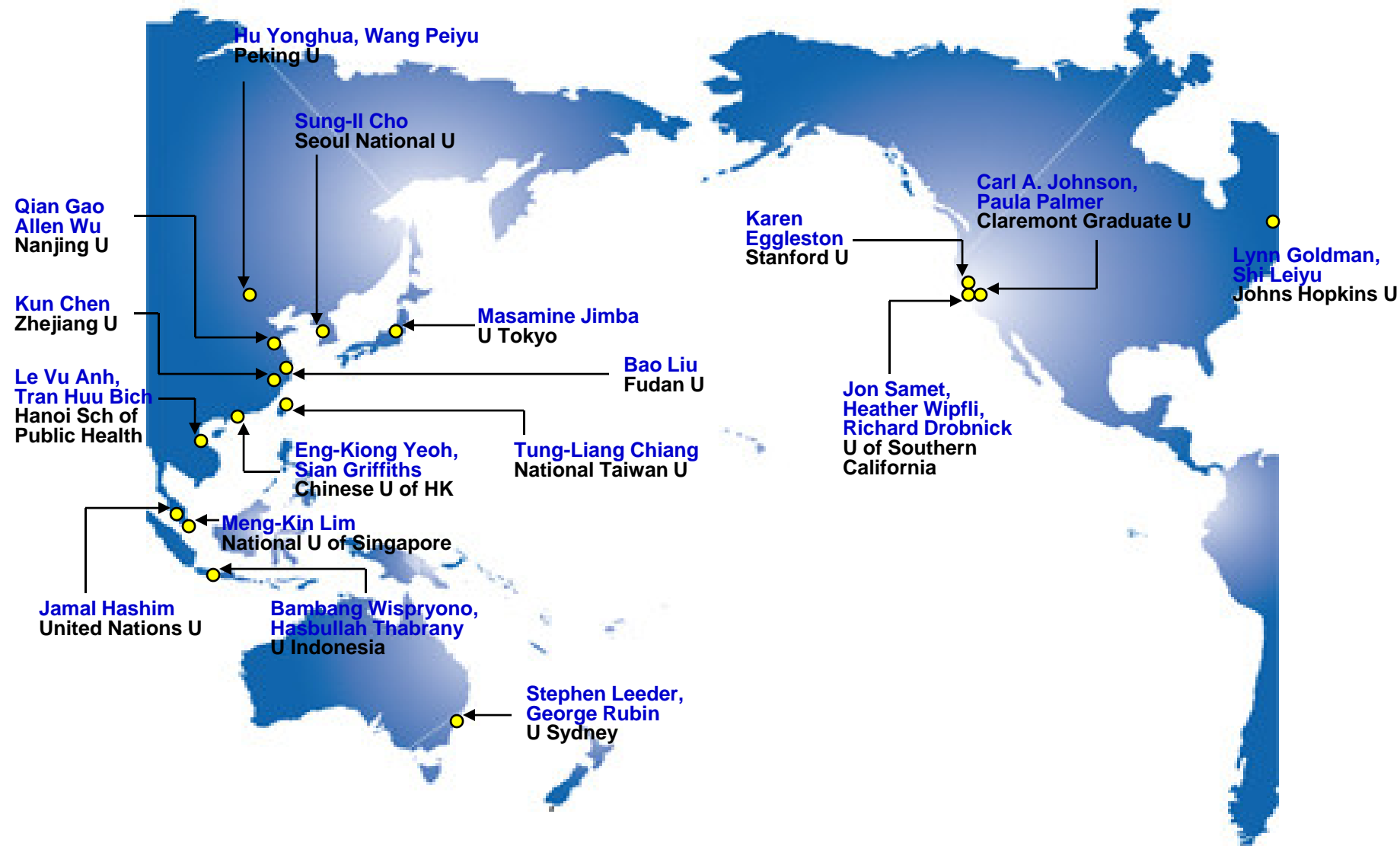
Annex 1: CMAS “Pipeline”

- Submitted a draft proposal to the Asian Development Bank for funding support for CMAS (August, 2009)
- Invited by the United Nations University to submit a proposal to develop a “UNU-Climate Transition Innovation Center in Melbourne. A University of Melbourne proposal has been submitted to the Government of Victoria to provide matching funding (September, 2009)
- Submitted proposal to include AWI CMAS sessions in the program for the “2010 Singapore International Water Week” (September, 2009)
- Proposed to publish an AWI Climate Change Book: *And Not a Drop to Drink: Water, Pacific Rim Cities, and Climate Change*, World Scientific (Singapore), (December, 2010)

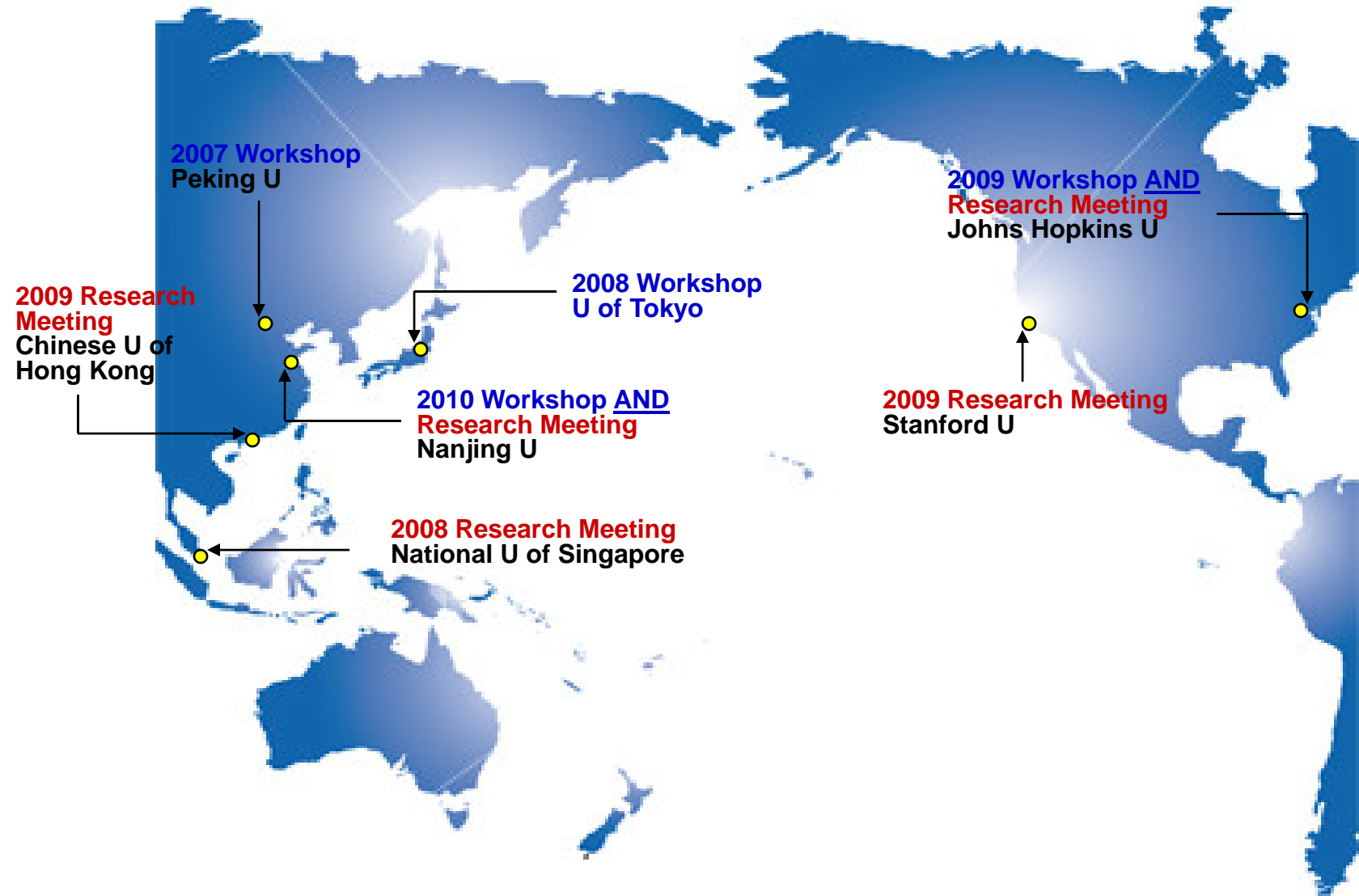
Annex 2: AWI Public Health Research Program: Case Study Cities (15)



Annex 2: AWI Public Health Research Team Leaders (17 research teams)



Annex 2: AWI Public Health Workshops (4) and Research Meetings (5)



Annex 2: Public Health Non-Communicable Disease (NCD) Project Outcomes

Outcomes

1. The University of Sydney awarded AUD14,000 to Prof Stephen Leeder to develop the AWI Public Health NCD Phase 2 project titled, “Breakthrough Collaborative Research Project to Reduce Mortality from Cardiovascular Disease” (September, 2009)
2. Invited to provide a panel session on AWI NCD Phase 2 Projects at the “Asia Conference on Emerging Issues in Public Health”, hosted by the School of Public Health & Primary Care, Chinese University of Hong Kong on Nov 29–Dec 1, 2009 (September, 2009)
3. Final draft of AWI Public Health NCD Baseline Assessment article (Data from Phase 1: “Macro Studies”) by Meng Kin Lim (NUS) and Karen Eggleston (Stanford U) to be presented at AWI research workshop at CUHK, Nov 30-Dec 1, 2009 (October, 2009)

Pipeline

1. Proposed to publish an AWI Public Health Book: *Bridging the Gap Between Academic Public Health & the Public Health Workforce: New Approaches for Advancing Public Health* , Co-editors, Meng Kin Lim (NUS) and Lynn Goldman (Johns Hopkins U), World Scientific (Singapore), (December, 2010)



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THANK YOU