

Asia-Pacific Network for Global Change Research



Mr. Hiroki HASHIZUME
Director, APN Secretariat
hhashizume@apn-gcr.org

PICES XV, 17 October 2006
Yokohama, Japan



What is the APN?

- ***Asia-Pacific Network for Global Change Research***
 - *Inter-governmental Network to foster global change research in the Asia-Pacific region*
 - *Established in 1996 as a result of the 1990 White House Conference on Science and Economics Research Related to Global Change*
 - *21 member countries*

Membership has grown from 12 countries represented at the 1st IGM in 1996 to the current 21 countries:

Australia

Bangladesh

Cambodia

China

Fiji

India

Indonesia

Japan

Lao PDR

Malaysia

Mongolia

Nepal

New Zealand

Pakistan

Philippines

Republic of

Korea

Russian

Federation

Sri Lanka

Thailand

USA

Viet Nam



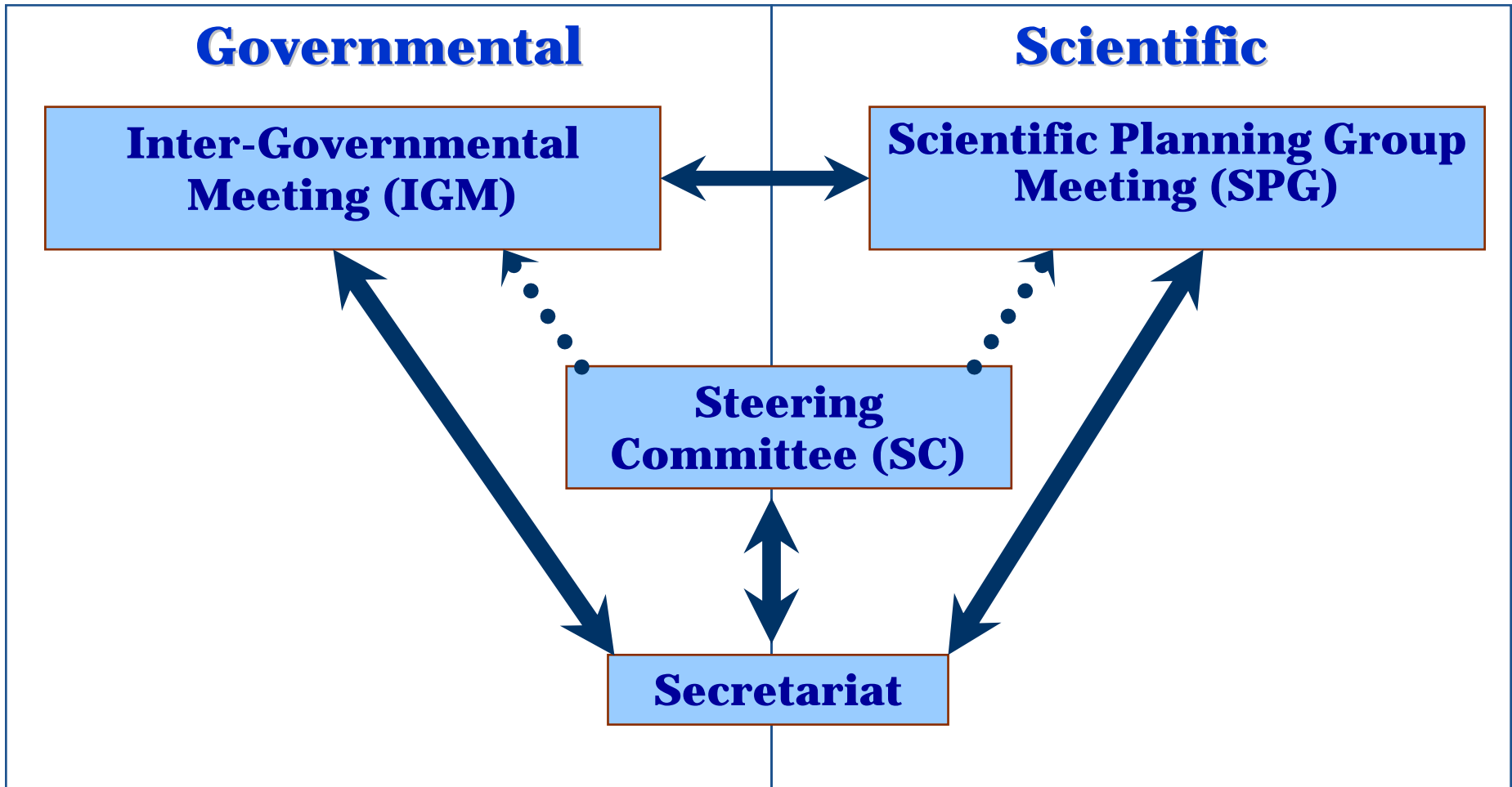
APN's Definition of Global Change

- *The set of natural and human-induced changes in the Earth's physical and biological systems that, when aggregated, are significant at a global scale*
- *Global Change Research is research regarding global change and its implications for sustainable development in the Asia-Pacific region*

The mission of the APN is to enable investigation of change in the Earth's life support systems as it occurs in the Asia-Pacific region to:

- *Identify, explain and predict changes in the context of both natural and anthropogenic forcing,*
- *Assess potential regional and global vulnerability of natural and human systems, and*
- *Contribute, from the science perspective, to the development of policy options for appropriate responses to global change that will also contribute to sustainable development.*

- ***Goal 1: Supporting regional cooperation in global change research on issues particularly relevant to the region***
- ***Goal 2: Strengthening appropriate interactions among scientists and policy-makers, and providing scientific input to policy decision making and scientific knowledge to the public***
- ***Goal 3: Improving the scientific and technical capabilities of nations in the region***
- ***Goal 4: Cooperating with other global change networks and organisations***
- ***Goal 5: Facilitating the development of research infrastructure and the transfer of know-how and technology***





APN and the GC Community

Scientific Community Programmes

Earth System Science Partnership

DIVERSITAS

International Geosphere-Biosphere Programme

International Human Dimensions Programme on Global Change Research

World Climate Research Programme

Global Change System for Analysis, Research and Training (START)

Inter-Governmental Networks

Inter-American Institute for Global Change Research

Asia-Pacific Network for Global Change Research

Pan-African START Secretariat

The APN is Sponsored by the governments of

- **AUSTRALIA**
- **JAPAN (national and local)**
- **NEW ZEALAND**
- **REPUBLIC OF KOREA**
- **UNITED STATES OF AMERICA**

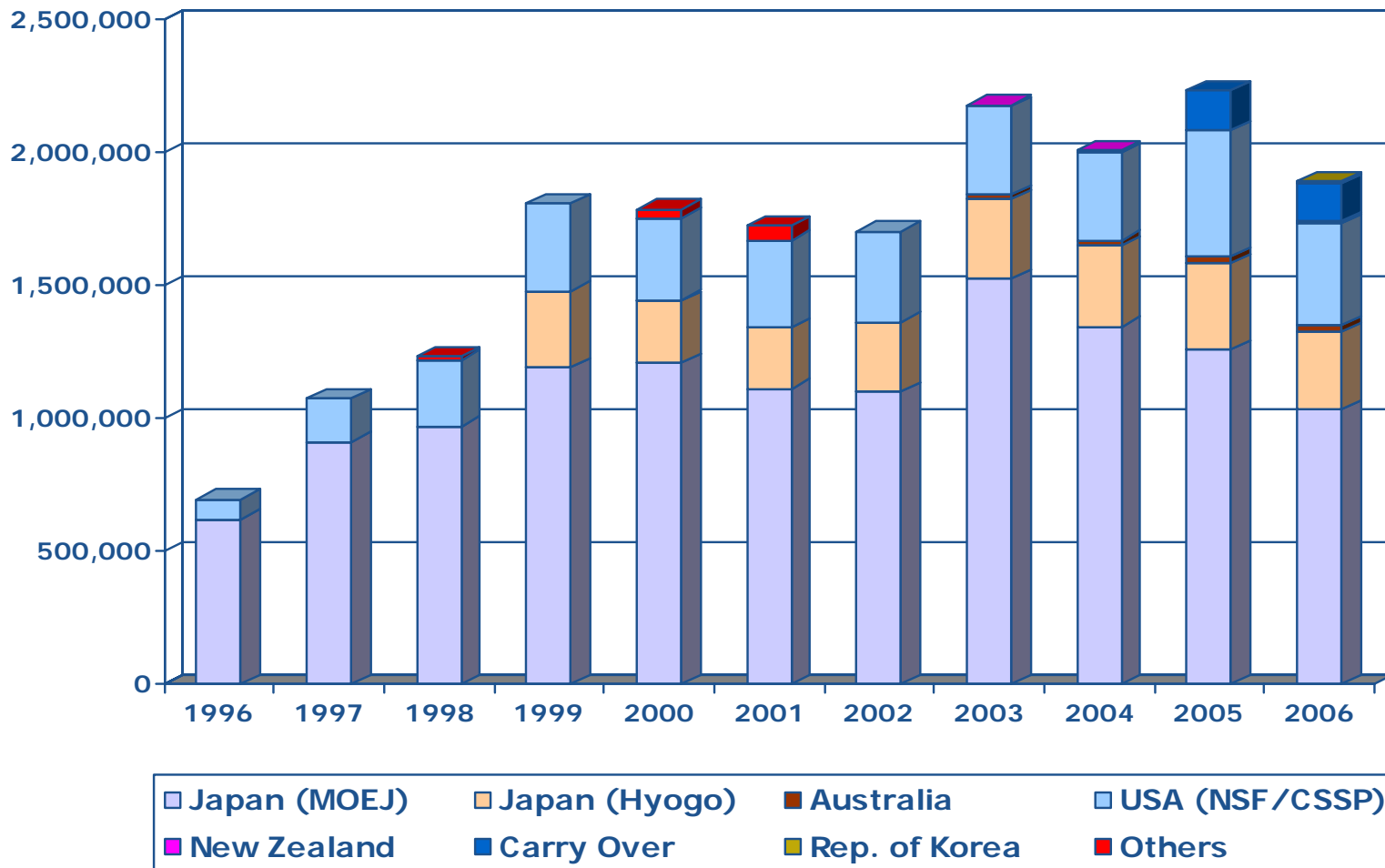


All APN member countries provide in-kind support such as

- *Hosting seminars, work shops and meetings*
- *Sharing expertise and human resources*



Contributions to the APN (US\$)

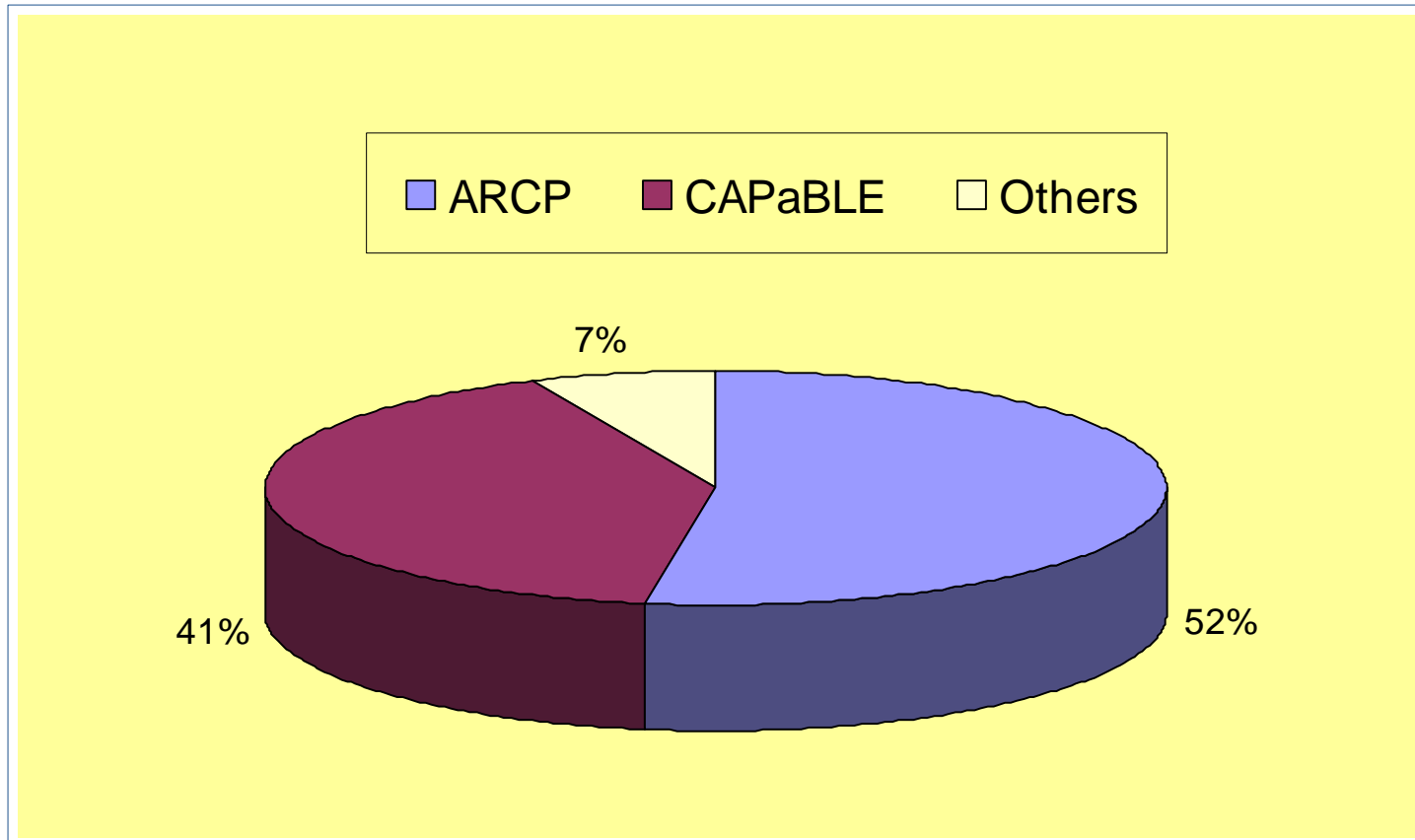


ANNUAL REGIONAL CALL FOR PROPOSALS (ARCP)

- *Since 1998, the annual process of selecting and funding projects has steadily evolved and become more streamlined.*
- *The call for proposals process and Secretariat's project management are rated very high compared to other funders.*

CAPACITY DEVELOPMENT PROGRAMME (CAPaBLE)

- *Working extremely well, particularly with the implementation of the CAPaBLE Programme.*



Other activities include the APN International Scoping Workshops in climate-related Capacity Building Activities in Earth Observations (GEOSS-related).



Selected 2006/07 ARCP Projects

- ***APN2006-06NMY-ZIEGLER*** – *Sediment Dynamics and Downstream Linkages in Tropical Streams as Affected by Project Land-cover/Land-use and Climatic Change – Thailand Phase*
- ***APN2006-08NMY-NADAOKA*** – *Integrated Support System for Managing Environmental Change and Human Impact on Tropical Coastal Ecosystems in East Asia and the Pacific*
- ***APN2006-10NMY-LASCO*** – *Linking Climate Change Adaptation to Sustainable Development in Southeast Asia: A Synthesis of Activities*
- ***APN2006-12NMY-HUDA*** – *Climate and Crop Disease Risk Management: An International Initiative in the Asia-Pacific Region*



ARCP Proposal

-for 2007/08 (deadline passed)-

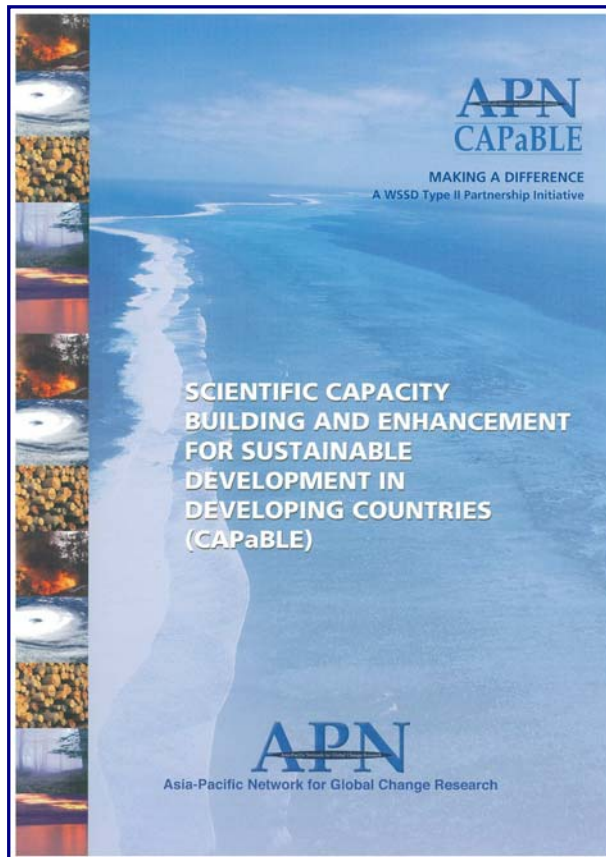
General Scope

- *Synthesis and analysis of existing research*
- *New research which addresses knowledge gaps in key areas*
- *Research planning/scoping activities*
- *The development of policy products such as integrated assessments, impact assessments, climate models, etc.*

Basic Eligibility

- *Proponent's institution must be based in an APN Member or Approved Country;*
- *Involve action or contributions from at least 3 APN Member or Approved Countries, at least 2 of which must be developing countries;*

CAPaBLE



The CAPaBLE Programme is an effective and integral part of APN's activities in education & scientific capacity building for global change & sustainable development.

CAPaBLE is developing and enhancing scientific & educational capacity in developing countries to improve their decision-making in the target areas related to:

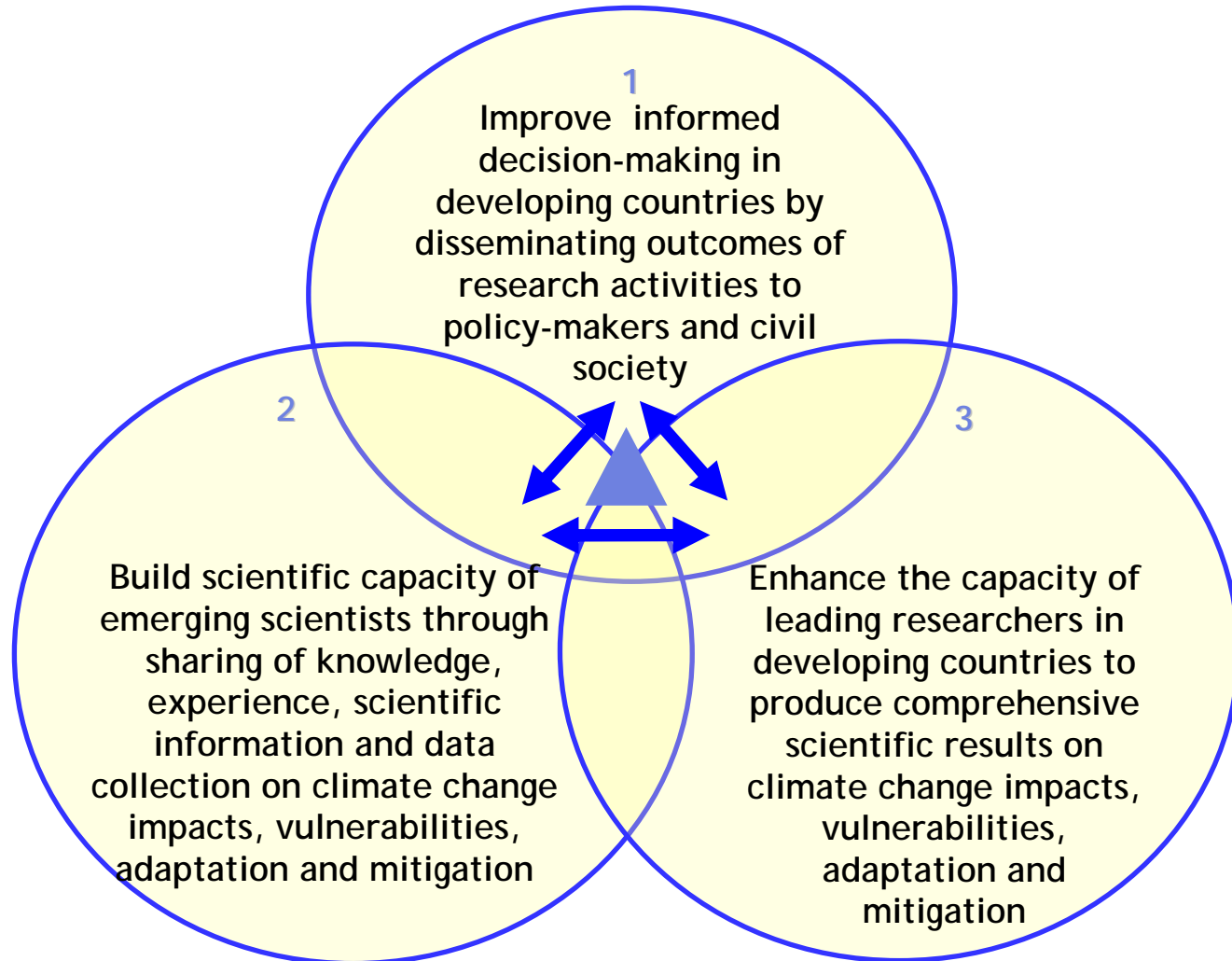
global change, climate change and water and food security that are directly linked to their sustainable development.

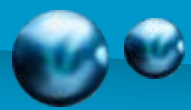
CAPaBLE

*CAPaBLE is a programme that is expected to realize parts 107-114 of the Johannesburg Plan of Implementation (JPOI), particularly **PART 111***

Part 111 of JPOI

*Establish Regular Channels between policy-makers and the scientific community for requesting and receiving science and technology advice for the implementation of **Agenda 21** and create and strengthen networks for **science and education for sustainable development**, at all levels, with the aim of sharing knowledge, experiences and best practices and **building scientific capacities particularly in developing countries.***





Scientific Activities - CAPaBLE

Selected CAPaBLE Projects 2006/07

Capacity Building Projects

- ***CBA2006-03NSY-SEVILLA*** – *Integrated Participatory Analysis of Sustainability in the Greater Mekong Sub-region (GMS)*
- ***CBA2006-04NMY-DHARMAJI*** – *Removing Barriers to Capacity Building in Least Developed Countries: Transferring Tools and Methodologies for Managing Vulnerability and Adaptation to Climate Change*
- ***Meeting/conferences support*** for *ESSP's Young Scientists Conference and Open Science Conference, IHDP, IDGEC, MAIRS SA/RAP, Agrometeorology Workshop*



Selected CAPaBLE Projects 2006/07

Comprehensive Research Projects

- ***CRP2006-01NMY-Dixit*** – *Improving Policy Responses to Interactions between Global Environmental Change and Food Security across the Indo-Gangetic Plain (IGP)*
- ***CRP2006-02NMY-Yan*** – *Integrated Model Development for Water and Food Security Assessment and Analysis of the Potential of Mitigation Options and Sustainable Development Opportunities in Temperate Northeast Asia*
- ***CRP2006-03NMY-Jintrawet*** – *Climate Change in Southeast Asia and Assessment on Impacts, Vulnerability and Adaptation on Rice Production and Water Resources*



CAPaBLE Proposals

- for 2007/08 (deadline passed) -

- ***General Scope***
 - *Scientific capacity development for sustainable development*
 - *Science-policy Interfacing*
 - *Awareness raising Activities*
 - *Dissemination Activities*
- ***Basic Eligibility***
 - *The proponent must be from, and based in, an APN member or approved country.*



Scientific Activities - Others

APN's Scoping WS on Global Earth Observations

Nov. 2005, Tokyo / Mar. 2006, Bangkok

APN Second Scoping Workshop on Global Earth Observations and the Capacity Building Needs of the Asia Pacific Region: Focus - Climate

19-21 March 2006
Bangkok, Thailand



“The key objective of these workshops was to consider the capacity building necessary for research and monitoring related to climate change and its’ impacts, to discuss the role of the APN in such research...”

APN Receives International Recognition at Policy Level

■ *SBSTA 22 - May 2005*

*(after pointing importance of developing countries' capacity building on climate model and analysis and of developing infrastructure to improve access to existing data) US called for support from international programs such as **the APN**...GEOSS should be continued.*

■ *Japan's Climate Change Initiative - Gleneagles G8 Summit, July 2005*

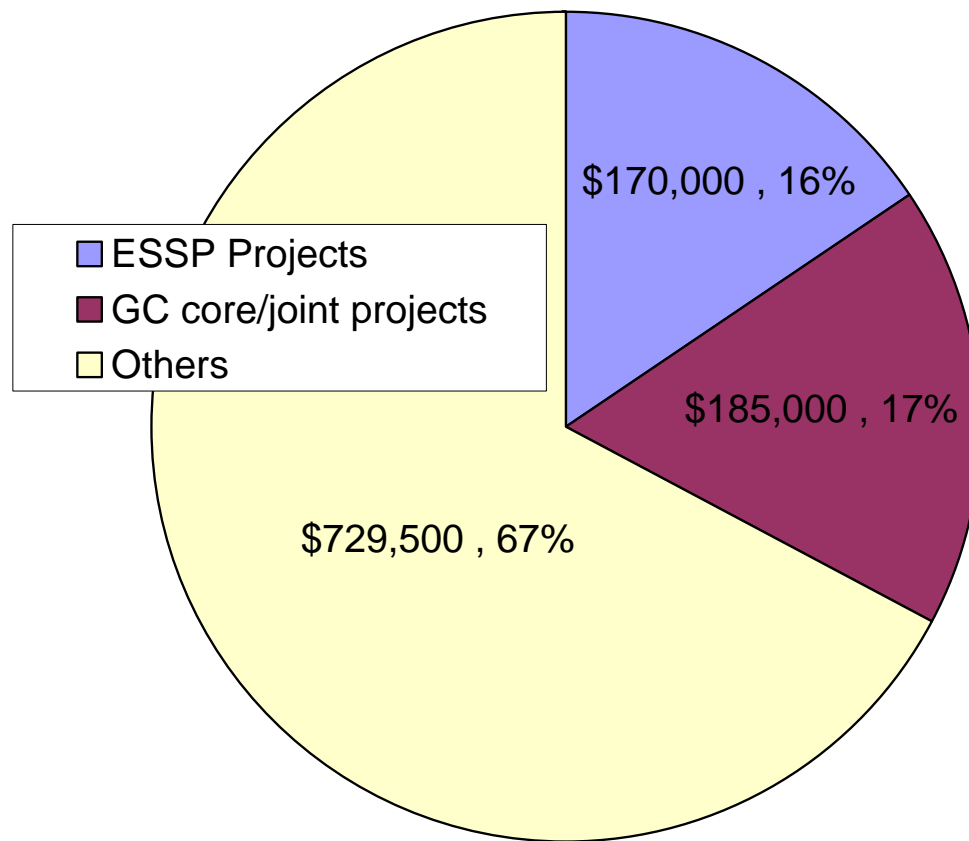
*Japan aims for the promotion of global change research and capacity building of developing country experts, through the "**Asia-Pacific Network for Global Change Research (APN)**", with the participation of 21 countries in the Asia-Pacific.*

UNFCCC SBSTA 24 (19 May, 2006, Bonn)



Dr. Andrew Mathews, Steering Committee Chair of the APN (3rd from the right) underscored the need for commitments to continuing capacity development and training for developing States

**APN Investment in ESSP and GC Community Projects
(ARCP and CAPaBLE), 2006**



Publications

The APN produces publications in order to help achieve its goal of “providing scientific input to policy decision-making and scientific knowledge to the public.”

In 2005/06 the followings were published:

- *Second strategic Plan (2005-10)*
- *Evaluation Report*
- *Augmented Steering Committee Meeting (ASCM) Report*
- *10th IGM/SPG Proceedings*
- *2004/05 Annual Report*
- *Project Bulletin, Vol. 1*
- *Global Change Directory*



APN's Second Strategic Plan:

*Provides a practical and flexible approach to fulfill the APN's mission by identifying key areas of importance reflected in the **3 Agendas**.*

Science, Policy and Institutional:

***What's next?
Second Phase 2005-2010***



Institutional Agenda

...includes:

- *active involvement of member countries*
- *financial resources*

*alignment with the global change
community*

Policy Agenda

The APN is committed to...

“Strengthening appropriate interactions among scientists and policy-makers, and providing scientific input to policy and decision-making and scientific knowledge to the public.”

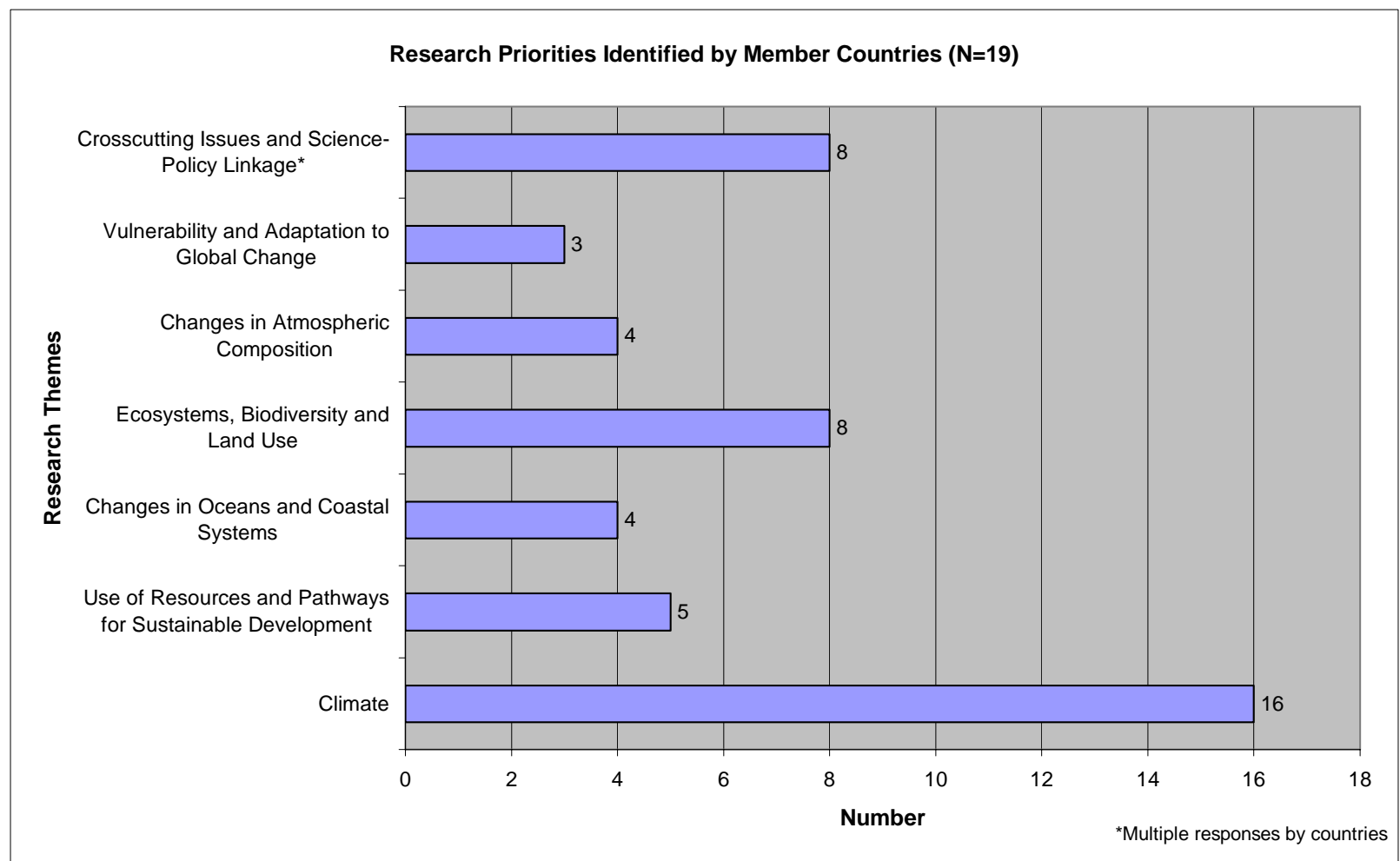
Science Agenda

New Key Science Themes:

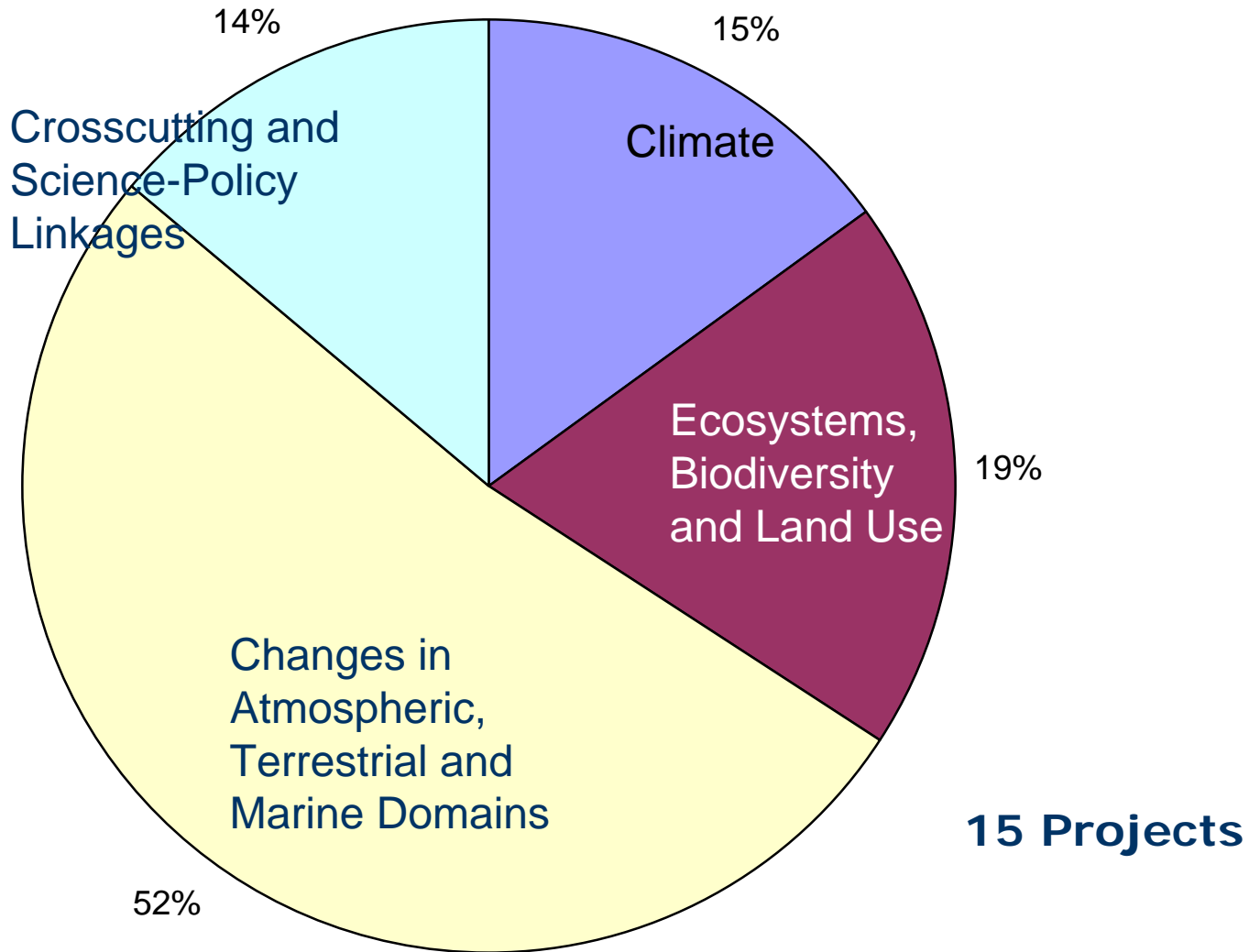
- 1. Climate*
- 2. Ecosystems, Biodiversity and Land Use*
- 3. Changes in Atmospheric, Terrestrial and Marine Domains*
- 4. Use of Resources (food, water, energy, materials) and Pathways for Sustainable Development*
- 5. Crosscutting and Science-Policy Linkages*

Scientific Research Priorities Identified by Member Countries

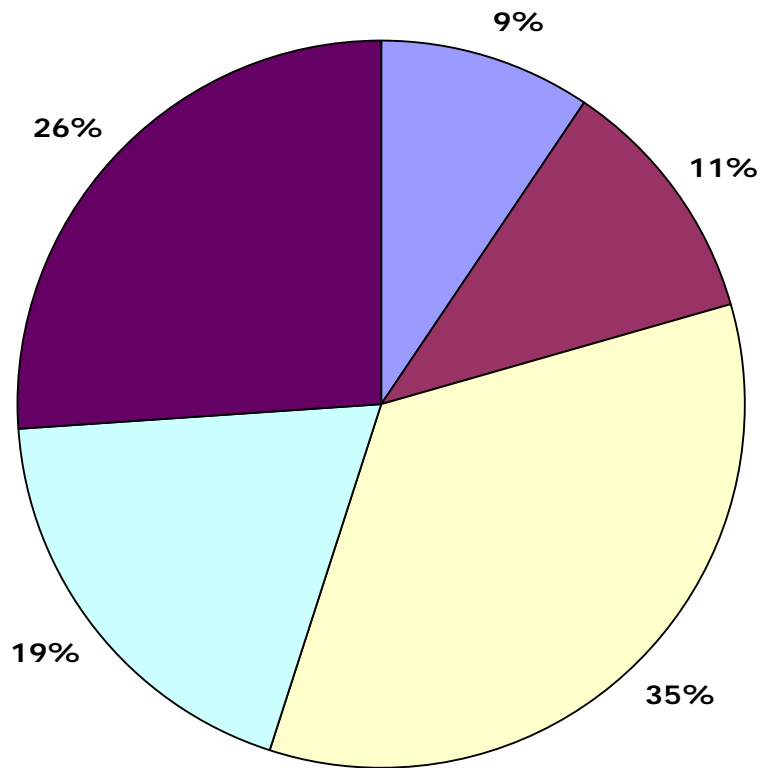
- IGM 11, Mar. 2006, Bangkok -



Theme Distribution of Funded ARCP Projects for 2006/07



Theme Distribution of Funded ARCP Projects for 1998/99-2005/06



- Changes in Atmospheric Composition
- Changes in Coastal Zones and Inland Waters
- Climate Change and Variability
- Changes in Terrestrial Ecosystems and Biodiversity
- Human Dimensions of Global Change

Total funds:
US\$6,570,985

Policy needs to be underpinned by sound science.

.... can this be done more effectively?

.... How is it being done by the APN?

“As a regional forum bringing together policy-makers and researchers on practical, policy-relevant research and capacity building, the APN is making an invaluable contribution to our ability to respond to climate change.”

*Howard Bamsey, CEO
Australian Greenhouse Office, March 2004*

APN is a unique network that brings together scientists and policy-makers:

- *Engage the research community in policy-relevant research*
- *Enhance policy-makers' understanding of global change issues*
- *Focus on regional-scale issues, including impacts of global change, capacity needs and response strategies*

APN effectively brings its national Focal Points and Scientists together at Annual Meetings.

By bringing together policy-makers and the research community, the APN improves communications and understanding between the different countries in the region, and also between policy-makers and scientists.



22 March 2006, Bangkok

Future APN efforts

- *More should be done to interface science and policy*
- *Need to seek a method of converting knowledge-based interactions in terms of policy relevancy*
- *Policy-makers and financial authorities are impatient; APN needs tangible outputs that appeal to the financial authorities*



Contact the APN www.apn-gcr.org

IHD Centre Bldg, 5F
1-5-1 Wakinohama Kaigan Dori
Chuo-ku, Kobe 651-0073, Japan
Tel: +81-78-230-8017
Fax: +81-78-230-8018

Ms. Jody Chambers
Communications Officer
jchambers@apn-gcr.org

Dr. Linda Stevenson
Scientific Officer
l Stevenson@apn-gcr.org