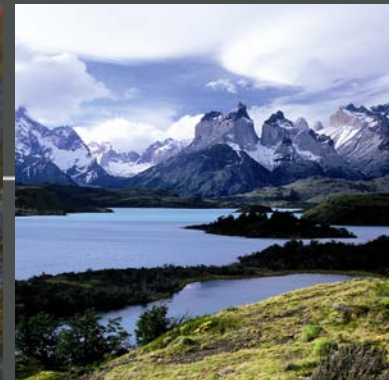
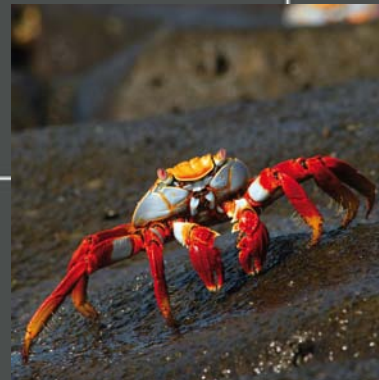
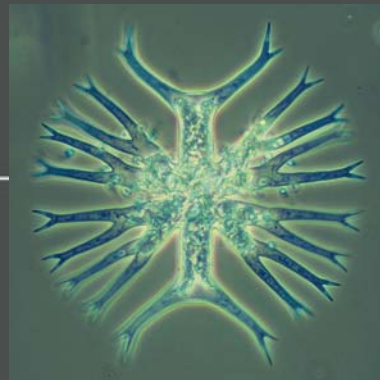


Towards a biodiverse future Earth

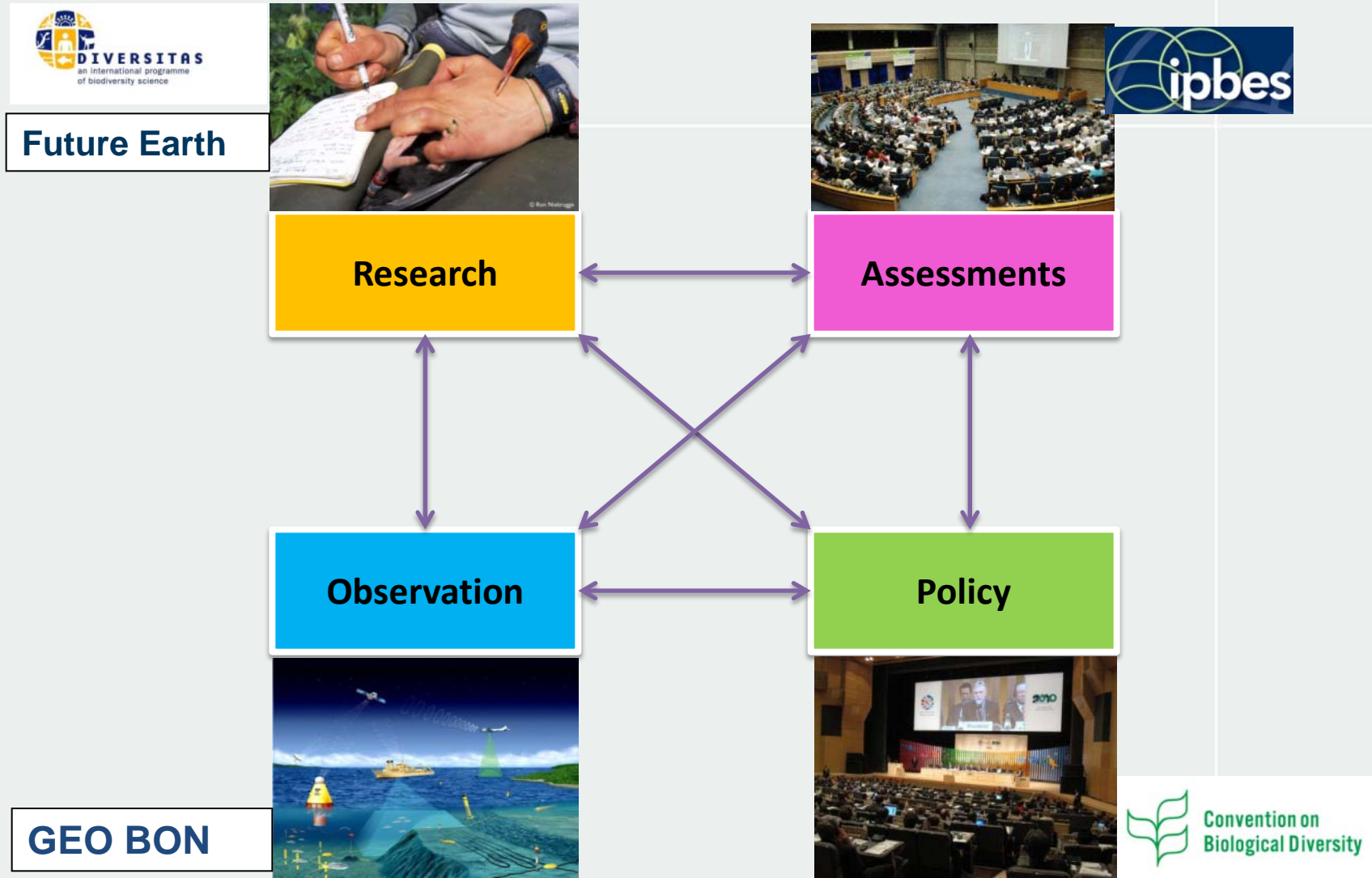
Anne-Hélène Prieur-Richard

SSC-GWSP meeting

1-3 October, 2012, IIASA, Austria



Biodiversity science-policy interface



Outline

- Observation – GEO BON
- Science
- Assessment - IPBES
- Policy
- The way forward



Observation: GEO BON

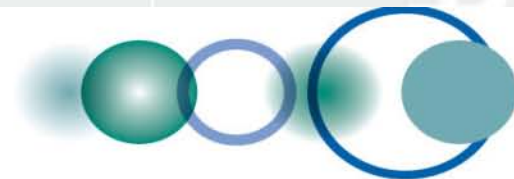
The Group on Earth Observations (GEO)

- An Intergovernmental Organization with 86 Members and 61 Participating Organizations (2003)

GEOSS



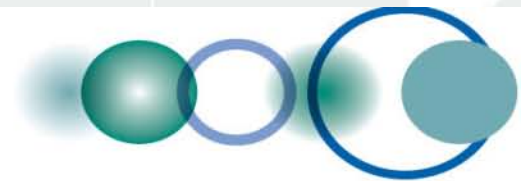
GEO BON: Global partnership to help collect, manage, analyse & report data relating to the status of the world's biodiversity



GEO BON & freshwater



- Working group on freshwater biodiversity
 - Co-Chairs: I Harisson, E Turak
 - Global Wetland Observing System (GWOS)
 - Mandate from Ramsar
 - Draw on collaboration, data, and analyses from relevant earth observation programmes and agencies, MEA and other sources
 - Include elements of a web-based inventory meta-database
 - Serve to support Ramsar's effectiveness indicators for status and trends of ecosystem extent



Outline

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photos: www.dawide.com

Future Earth Research for global sustainability



Published & launched at PuP



Available online at www.sciencedirect.com

SciVerse ScienceDirect

Current Opinion in
**Environmental
Sustainability**

Biodiversity and ecosystem services science for a sustainable planet: the DIVERSITAS vision for 2012–20

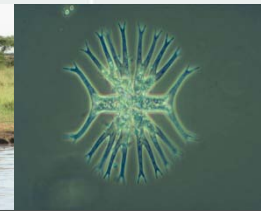
Anne Larigauderie¹, Anne-Hélène Prieur-Richard¹, Georgina M Mace², Mark Lonsdale³, Harold A Mooney⁴, Lijbert Brussaard⁵, David Cooper⁶, Wolfgang Cramer⁷, Peter Daszak⁸, Sandra Díaz⁹, Anantha Duraiappah¹⁰, Thomas Elmqvist¹¹, Daniel P Faith¹², Louise E Jackson¹³, Cornelia Krug¹, Paul W Leadley¹⁴, Philippe Le Prestre¹⁵, Hiroyuki Matsuda¹⁶, Margaret Palmer¹⁷, Charles Perrings¹⁸, Mirjam Pulleman⁵, Belinda Reyers¹⁹, Eugene A Rosa²⁰, Robert J Scholes²¹, Eva Spehn²², BL Turner II²³ and Tetsukazu Yahara²⁴

DIVERSITAS, the international programme on biodiversity science, is releasing a strategic vision presenting scientific challenges for the next decade of research on biodiversity and ecosystem services: “Biodiversity and Ecosystem Services Science for a Sustainable Planet”. This new vision is a

¹⁶Yokohama National University, Faculty of Environment & Information Sciences, 79-7 Tokiwadai, Hodogaya-ku, Yokohama, Kanagawa 240-8501, Japan

¹⁷National Socio-Environmental Synthesis Center, University of Maryland, 1 Park Place, Suite 300, Annapolis, MD 21401, USA

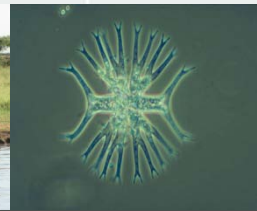
¹⁸International Institute for Sustainable Development, 700 University Ave., Toronto, Ontario M5G 1R6, Canada



Biodiversity & ecosystem services science for a sustainable planet



- Challenge 1: Identify urgent **detrimental changes** in biodiversity & ecosystem services and provide the knowledge to avoid, limit or mitigate such changes
- Challenge 2: Enhance the **capacity of socio-ecological systems to support** biodiversity & ecosystem services under global change
- Challenge 3: **Develop the knowledge base** on the use and conservation of biodiversity to sustain ecosystem services and human well-being
- Challenge 4: Build a **global network of biodiversity science**



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Some history...

**Informal
Consultation
2005-08**

- **International mechanism of scientific expertise on biodiversity (IMoSEB)**

**Formal
Consultation
2008-2010**

- **MA Follow-Up Initiative**
- **MA Follow-Up Initiative merges with IMoSEB: IPBES**
- **1st ad-hoc intergovernmental and multi-stakeholder meeting on IPBES (Putrajaya, 2008)**
- **2nd ad-hoc intergovernmental and multi-stakeholder meeting on an IPBES (Nairobi, 2009)**
- **3rd and final ad-hoc intergovernmental and multi-stakeholder meeting on IPBES (Busan, 2010)**
- **UN General Assembly decision (Dec. 2010)**

**Design
2011-12**

- **Design of IPBES (Plenary, Nairobi Oct. 11, Panama Apr. 2012)**
- **Launch of IPBES (Apr. 2012, Panama)**

**Implementation
Starting 2012**

- **Implementation of IPBES**
 - Inter-sessional work
 - 1st Plenary (2013)



What did happen in 2011-2012?

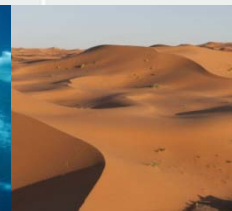
- ICSU leads the scientific community in the Science & Technology



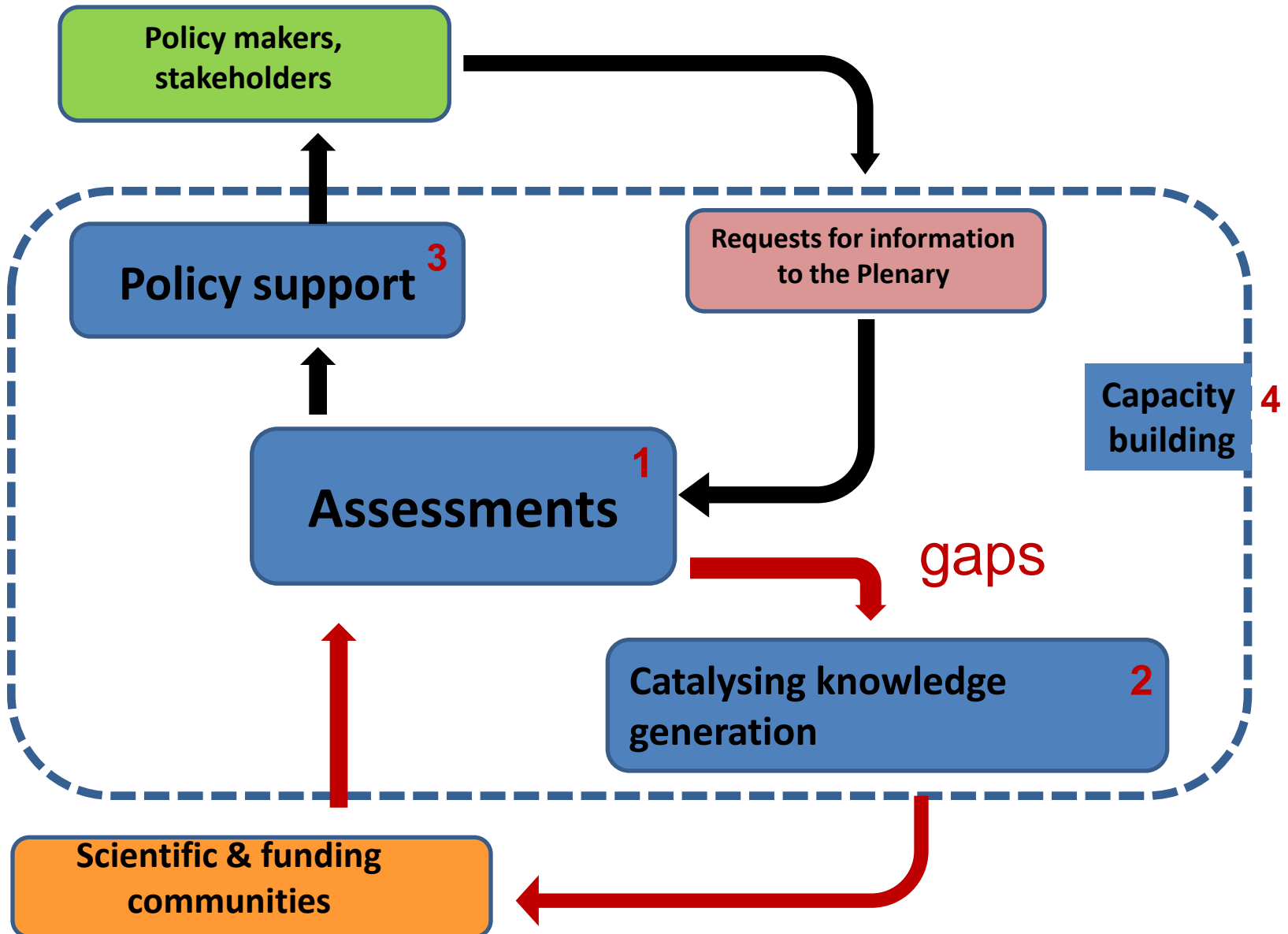
- D
- 1
- BES, its
ost

institution(s) and host country

- 2nd session of the plenary (16-21 April 2012, Panama)
 - Selection of the Secretariat: Bonn, Germany
 - Agreement on major principles and procedures governing the work of IPBES and its governance structure (MEP)
 - Official launched



IPBES will have 4 functions



So what happens now?

- First IPBES Plenary, 21-26 Jan. 2013
- Inter-sessional work
 - **Administrative issues**: Joint United Nations proposal for institutional hosting; Rules of procedure for meetings of the Platform's Plenary; Interim secretariat management
 - How the **Multidisciplinary Expert Panel** would be structured?
 - **Preparations for an initial work programme**: overview of assessment; **conceptual framework**; capacity building; scoping process for selecting assessment themes; requests from governments
 - Nomination of the **Multidisciplinary Expert Panel**



Outline

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Contributing to Rio+20

- Ahead of Rio
 - Planet under Pressure Conference
 - Policy brief on biodiversity and ecosystem services (Diaz *et al.* 2012)
 - Cardinale *et al.* 2012 *Nature*
- In Rio
 - S&T Forum: Biodiversity session (UNESCO-DIVERSITAS-ICSU-STAP)
 - Input to the Rio declaration: « The Future we want »
- Post Rio
 - Langlois *et al.* 2012 *EcoHealth*



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DIVERSITAS and CBD



- Mandate to prepare the scenario chapter of GBO-4 (with UNEP-WCMC)
- Mandate to GEO BON
 - Adequacy report: evaluation of existing observation capabilities
 - Essential Biodiversity Variables (EBVs): relatively small number of EBVs necessary to derive the CBD operational indicators
- Involvement in work on Strategic Plan for Biodiversity (20 targets for 2020; AHTEG on indicators)
- Other topics: mountain biodiversity, climate change, Global Taxonomy Initiative, health, inland water



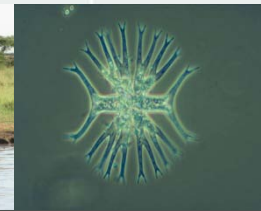
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Preparing for Future Earth

- Research topics
 - Socio-ecological scenarios (GBO-4)
 - GWOS
 - Activities related to Global threats project
 - Global change scenarios and FW related ecosystem services
 - Inland fishing pressure
 - Synthesis (Belmont proposal)
- Belmont Forum future calls
 - 2013: Food security and landuse change; Arctic; E-infrastructure
 - 2014 (TBC): [Biodiversity & ecosystem services](#) (IPBES); Climate services (WMO); Green growth; Peri-urban systems





Thank you !

www.diversitas-international.org

anne-helene@diversitas-international.org



AquaBase

- Biophysical basis of aquatic ecosystem services
- To inform restoration and conservation policies

