

Regional support approaches to IPBES – Europe as showcase

IPBES-I, Bonn, 25th of January, 2013



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Europe has been and is active in biodiversity science

- **Networks of Excellence:** EDIT, ALTER-Net, MARBEF
- **Data networks:** GBIF, EBONE, EU BON
- **50 biodiversity & ecosystem services research collaborative research projects in FP5-FP7**
(500 Mio € of investment in FP7)
- **Infrastructures:** LIFEWATCH & EXPEER
- **Cooperative funding for research:** BiodivERsA

Main areas of work on the Science Policy Interface (SPI) in Europe

Support of policy development and implementation

**Organi-
sation of
data and
knowledge**

Talk by
Rob Jongman

**Analysis of
concepts
and
approa-
ches of
SPIs**

Talk by
Juliette Young

**Network-
ing of
knowledge
holders**

Talk by
Carsten Neßhöver

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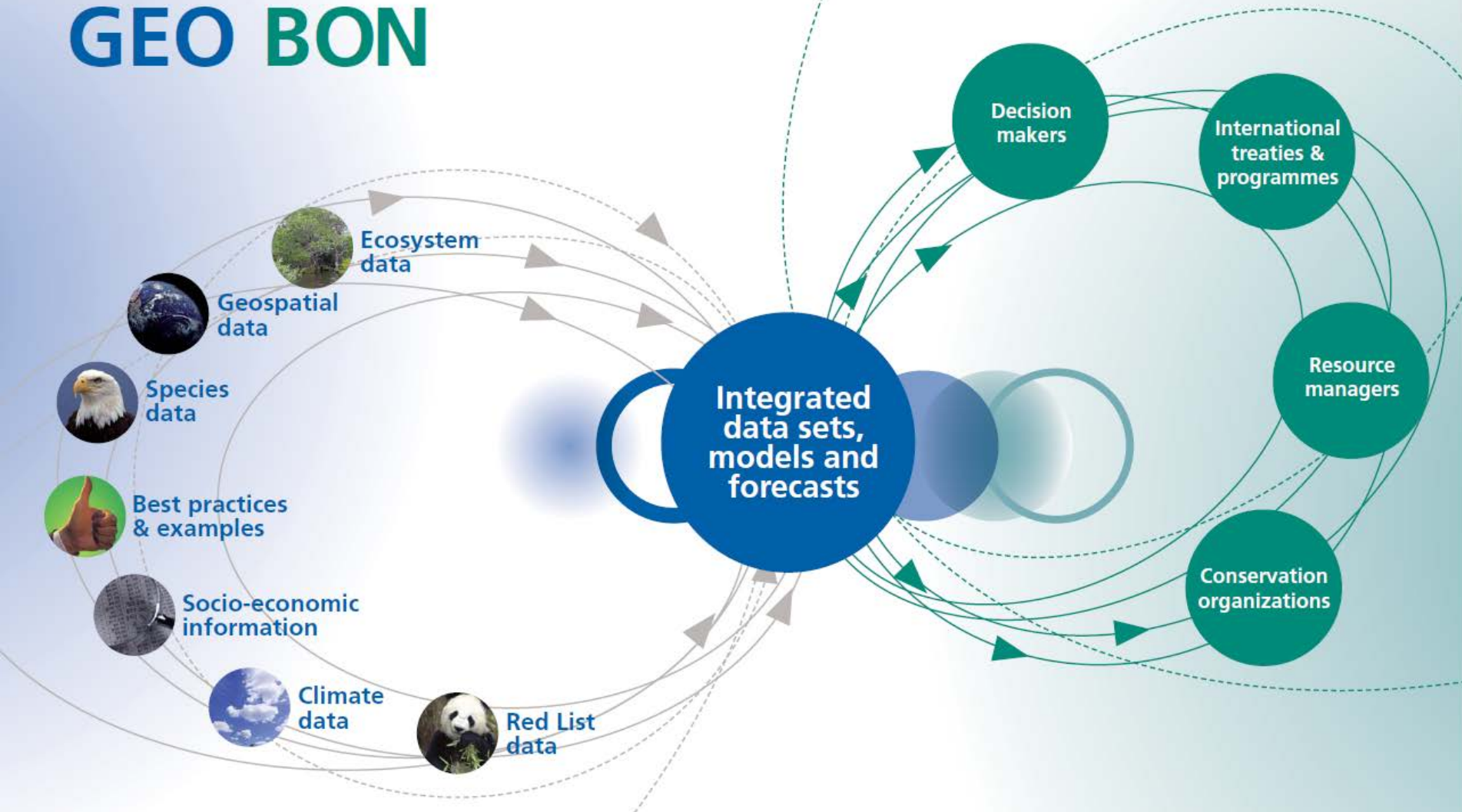
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Networking monitoring, data and knowledge: the European link to GEO BON

Rob Jongman, Alterra Wageningen UR



The Group on Earth Observations Biodiversity Observation Network **GEO BON**

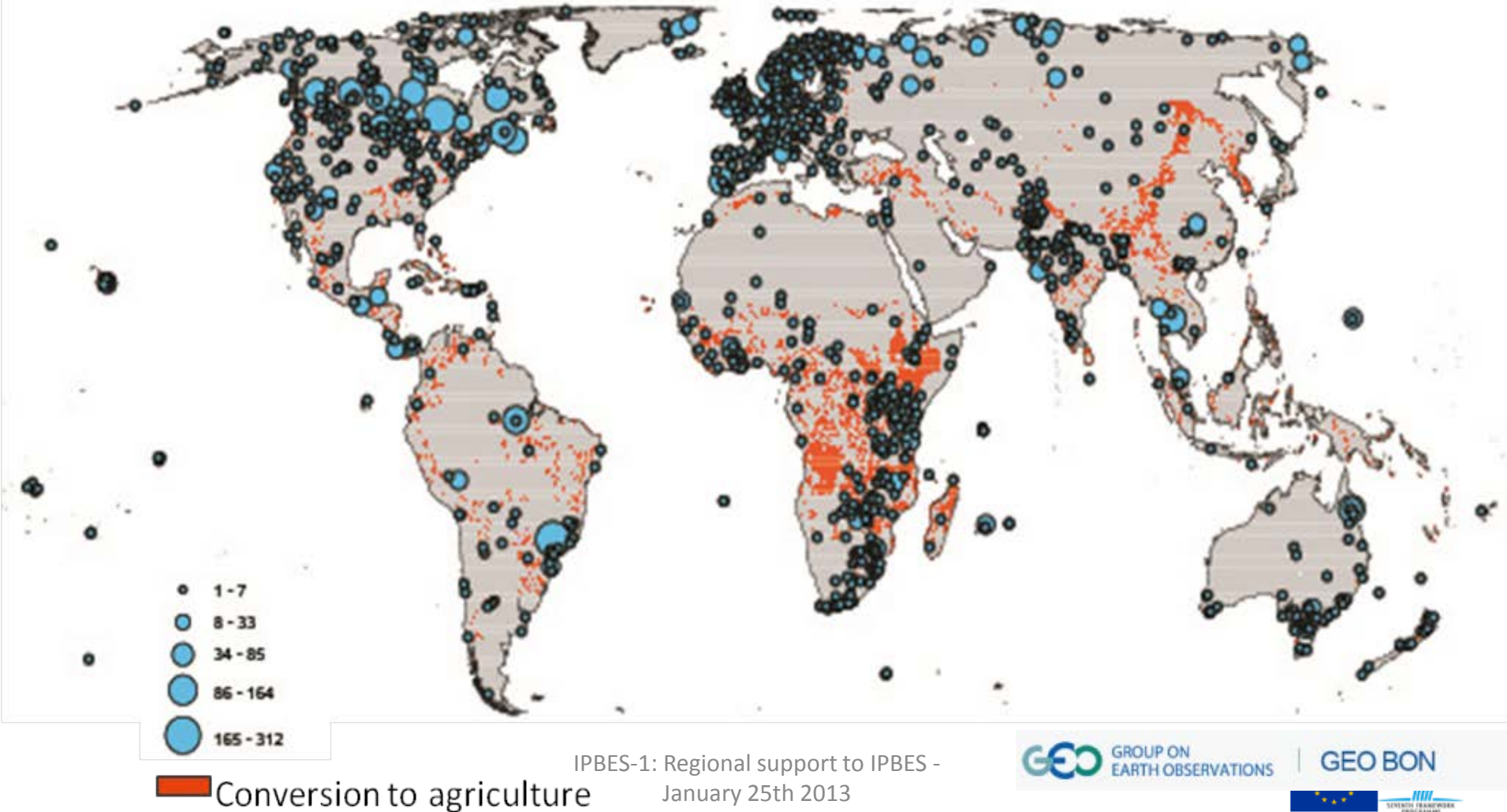


Contribution to data and knowledge

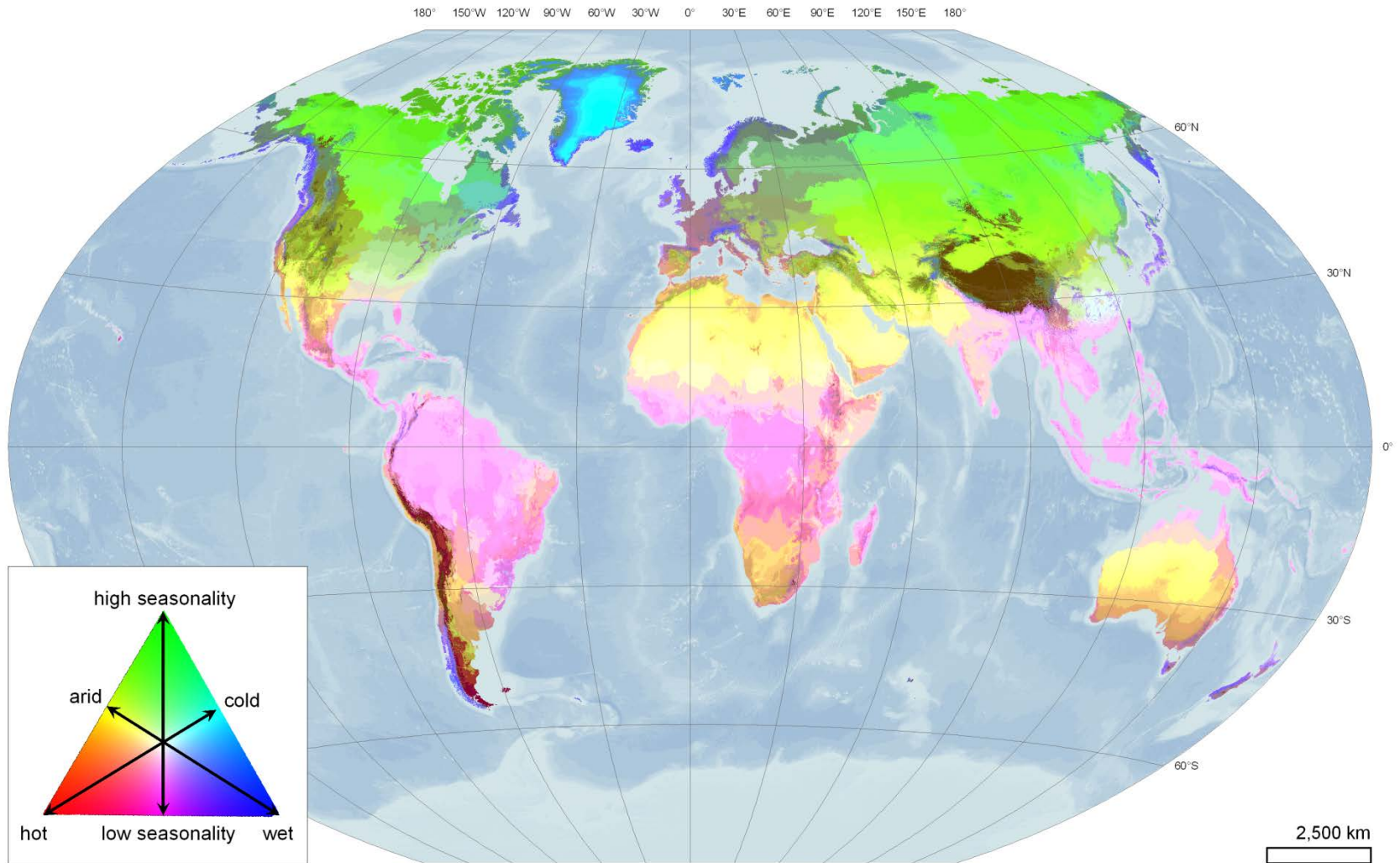
- Europe contributes actively to the work of the Group on Earth Observations (GEO) also in the field of Biodiversity.
- Through the EBONE project we have progressed harmonisation and standardisation in data gathering and delivery of information
- All products are meant to be available for global use and global harmonisation.
- We are advocating long term continuity of data supply (moving observations from the experimental to operational spheres) and data sharing

We recognise existing spatial gaps in biodiversity monitoring

Living Planet Index Populations



EBONE: towards solving spatial gaps: Global Environmental Stratification



Metzger et al., GEB, 2013

This means identification and linking regions

J4 (cool temperate and moist)

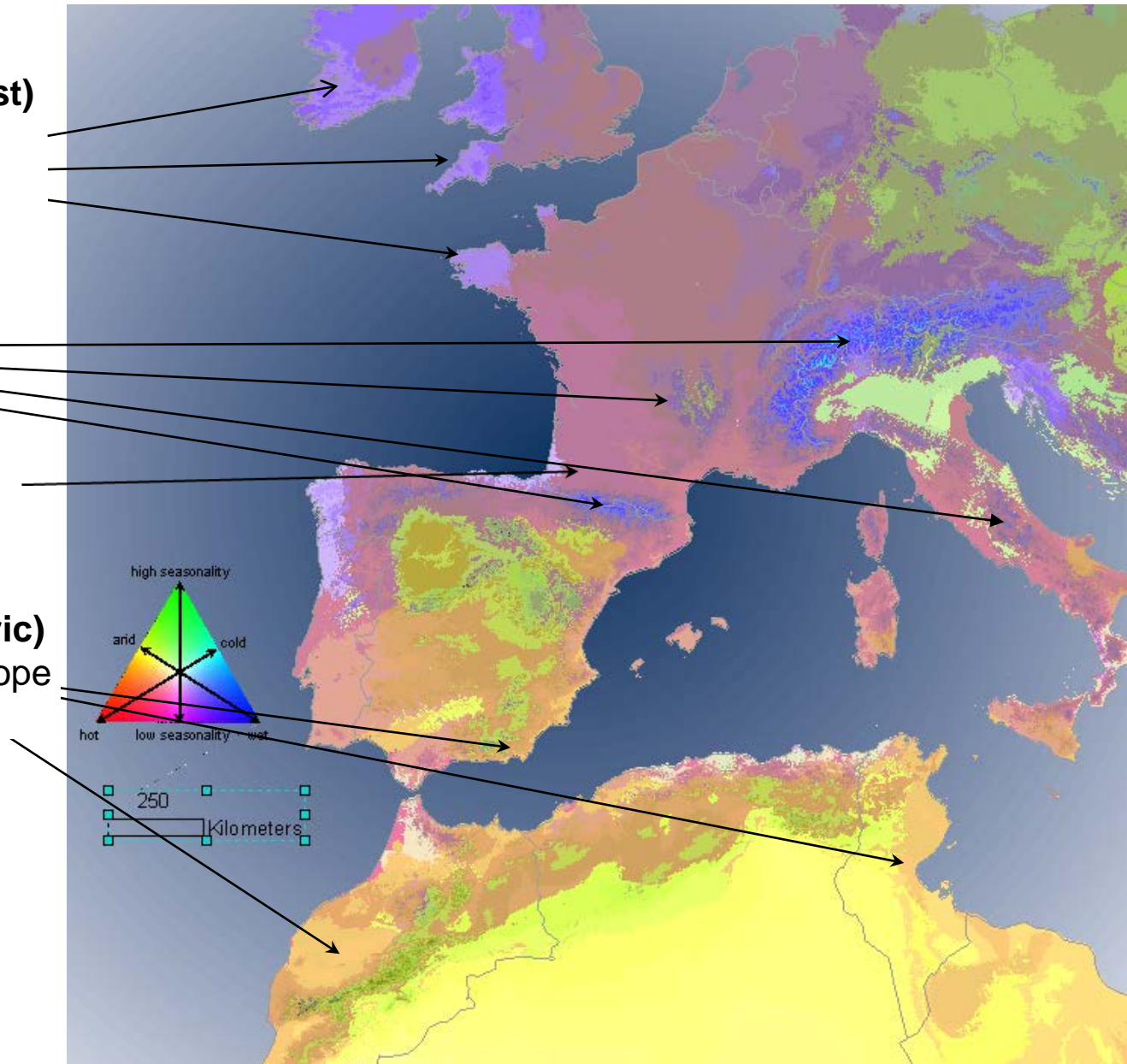
Links Bretagne, Cornwall and western Ireland

G8 (cold mesic)

Links Apennines with other Mountains regions

L6 (warm temperate and xeric)

Links the hottest parts of Europe with Africa



Even between continents

R9 (extremely hot and moist)

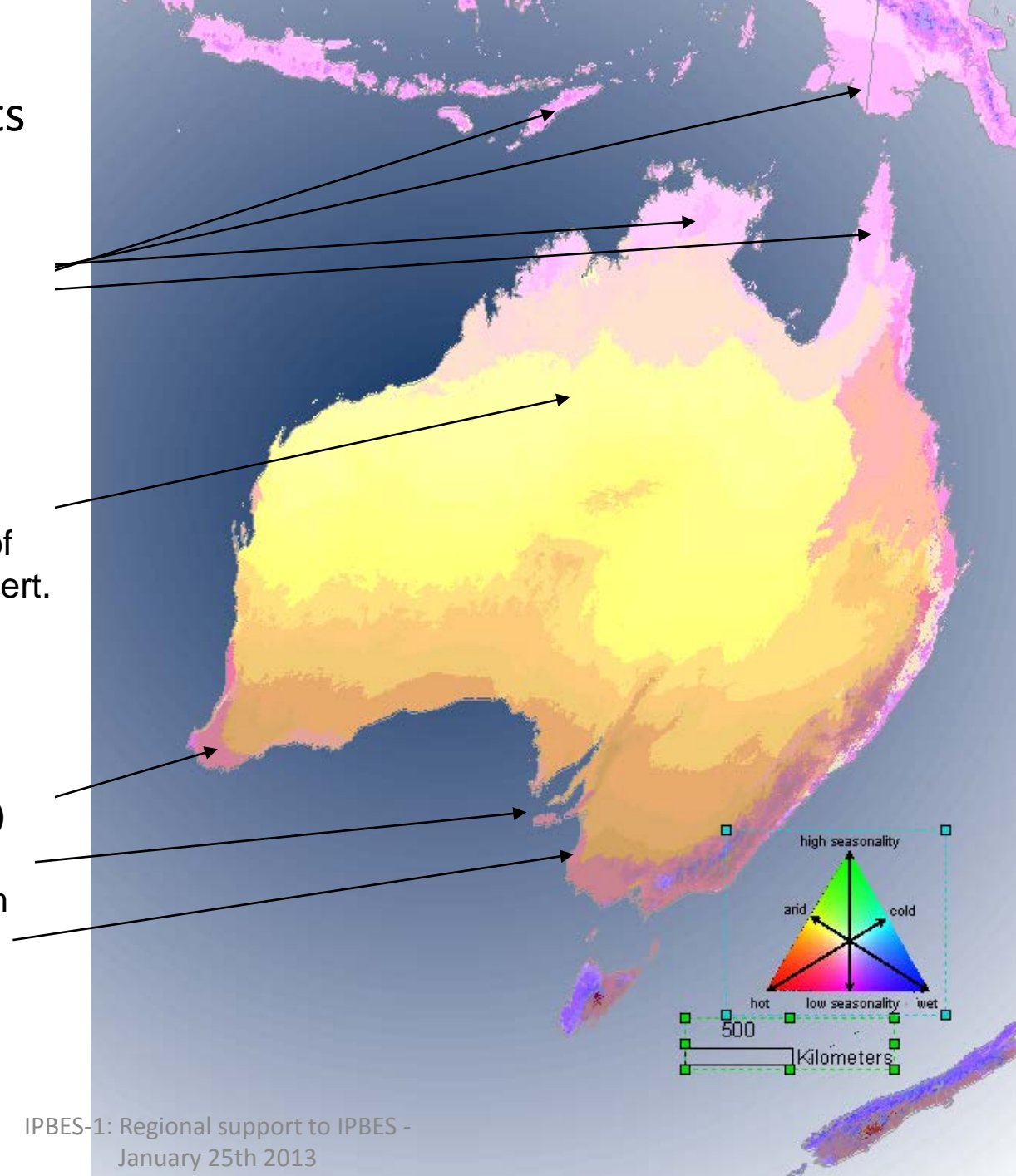
Links Australian tropics to SE Asia and beyond

P2 (extremely hot and arid)

Links the Gibson with the deserts of Arabia, the Sahel and the Thar desert.

K10 (warm temperate and mesic)

Links Mediterranean regions in Australia with those in Chile, South Africa, California and Europe.



We have developed linkage between in situ and Remote Sensing mapping data: LCCS and GHCs

- Both General Habitat Categories (GHC) for in situ mapping and the FAO Land Cover Classification System (LCCS) are based on plant Life forms and therefore exchangeable
- They allow harmonisation of different national approaches as tested in Europe
- The approaches are being tested and used in projects in Europe and sub-Saharan Africa.

Next step: EU BON (2013-2018), integration of biodiversity information systems

- Enabling greater interoperability of data layers and systems
- Advancing data integration and increasing data mobilization (from science and society)
- Harmonizing and mainstreaming biodiversity recording and monitoring schemes
- Improving analytical tools and services
- Supporting (biodiversity) science policy interfaces
- Linking integrated information to relevant stakeholders
- Strengthening European capacities and infrastructures for environmental information management

Thank you for your
attention

Further discussion on
EBVs:
side event tomorrow



<http://www.earthobservations.org/geobon.shtml>

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Challenges of multi-level science-policy interactions

Juliette Young, Sybille van den Hove
and Allan Watt

MEDIA



Centre for
Ecology & Hydrology

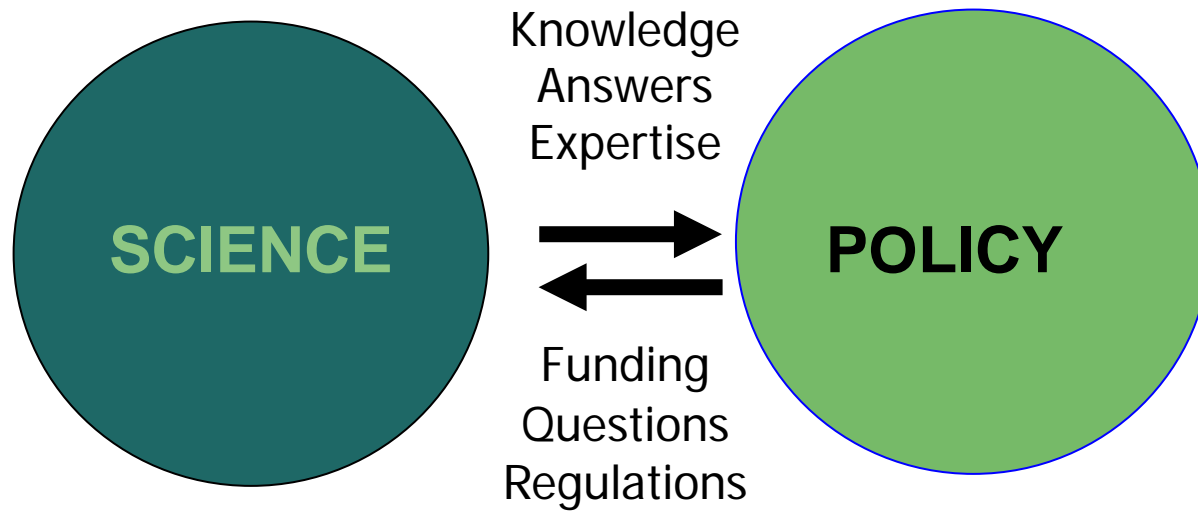
NATURAL ENVIRONMENT RESEARCH COUNCIL



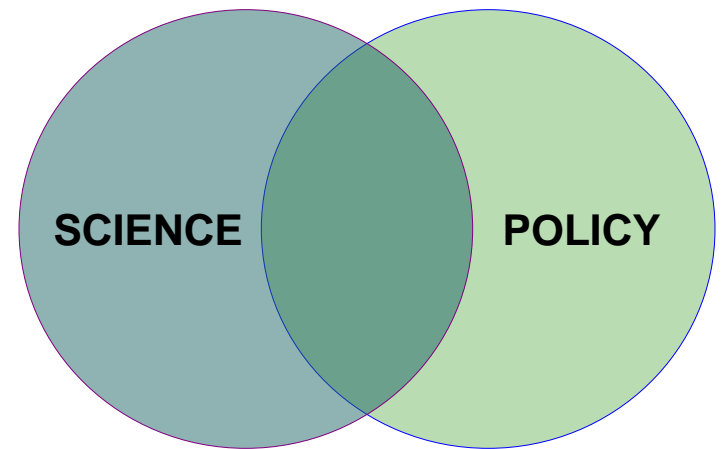
SPIRAL

Interfacing Biodiversity and Policy

Science-policy interfaces



Science-policy interfaces – the challenge



The intersection: ***science-policy interfaces***



SPIRAL: *Science-Policy Interfaces for Biodiversity: Research, Action and Learning*

- **Research** project:
 - Improve our knowledge and understanding of Science-Policy Interfaces for biodiversity
- **Action** project:
 - Contribute to designing or improving real-life science-policy interfaces: Test cases, recommendations
 - Resource group

Challenges of multi-level SPIs

- Uncertainty, complexity, ignorance
- Lack of links, or difference, between disciplines and sectors – challenges of interdisciplinarity & trans-disciplinarity
- Divergent implicit norms, values and worldviews
- Limited incentives for increased interactions
- Multiplicity of existing SPIs

Mapping existing science-policy interfaces

Interfaces of specific projects or networks



Face to face communications

Scientific advisory bodies and councils



International or regional assessment processes



Subsidiary bodies



Strategic initiatives



Interfaces with research policy



A multiplicity of SPIs

- at local, national, regional and international levels;
 - can be closer to the policy or to the scientific processes;
 - can be formal and institutionalised, or informal and more flexible;
 - many of them are intertwined or embedded in one another;
 - operate at different stages of the policy process (early warning, issue identification, policy design, implementation, assessment, review)
- No 'one size fits all' \Rightarrow cherish diversity and build on existing interfaces to improve, link, complement, innovate.

Improving interfaces between EU research projects and policy-making

- Recommendations to policy-makers
 - Integration of research results into policy making
- Recommendations for research funding institutions
 - Adding and sustaining the value of research
- Recommendations to EU research projects
 - Improving the use and impact of your research
- Recommendations on BISE and Eye on Earth
 - Making better use of existing and emerging tools

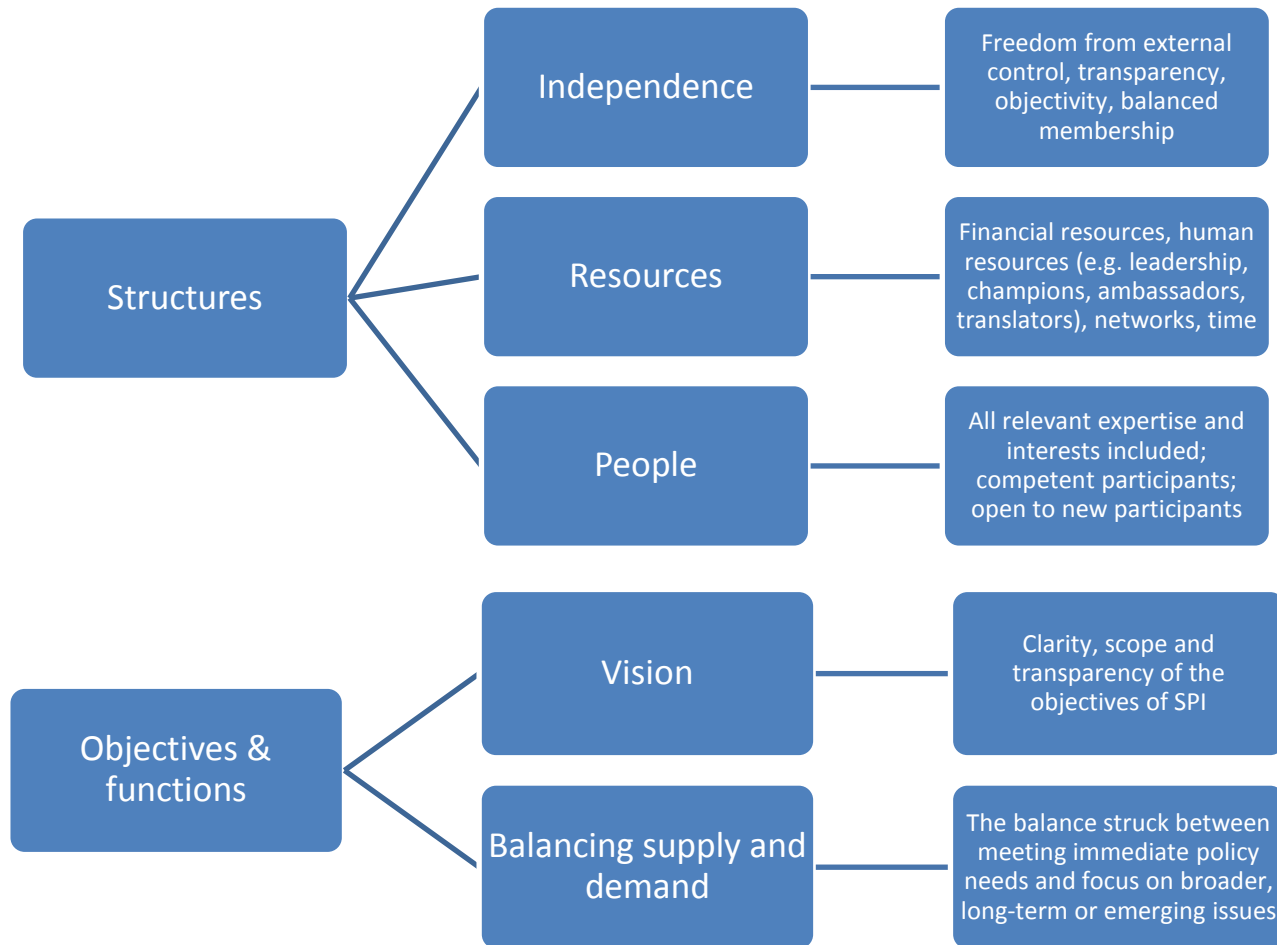


Recommendations for communication

	Individual	Teams	Organisation
Science	<ul style="list-style-type: none"> Look for training courses and other opportunities to learn about policy processes. Recognise that 'policymakers' are diverse and have diverse views. Some have science backgrounds. Use visual materials. Use different communication tools, e.g. scenarios, user guides, videos or online best practice guides, maps, social media. Be prepared to adapt approaches according to your audience. Plan to publish reviews. These are helpful to non-researchers, and can fit with academic motivations. Contextualise the presentation of research or specific findings. 	<ul style="list-style-type: none"> Discuss plans and outputs throughout projects, and from the design stage, not just at the end. Policy briefs can be useful but must be disseminated and linked to other communication outputs. Organise field trips and practical demonstrations. Allow communication strategies to evolve and be flexible. Learn from experience in interdisciplinary research. Proactively seek out ways to present research and its implications to different audiences. Preface all reports with accessibility-written executive summaries. 	<ul style="list-style-type: none"> Research and fund training for communication skills and understanding of policy processes for scientists. Explore potential for broader assessment of impact, and create and publish in high journals aimed at policy. Encourage scientists to get acquainted with policy processes and support those who wish to operate at the science-policy interface.
Both science and policy	<ul style="list-style-type: none"> Seek out events where other disciplines and sectors will attend. Explore job-shadowing, i.e. scientists and policy-makers observing the day-to-day job of the other. Cultivate personal contacts though recognise that everyone is under time pressures. Look for training courses and opportunities to improve communication and networking skills. 	<ul style="list-style-type: none"> Plan projects and budgets to spend time and resources on science-policy interfaces and communication. Explore the use of scenario-building and other tools as a process for building shared understanding. Provide directories of experts /subject-specific contacts. Consider the merits of cross-reviewing: for example in addition to academics reviewing academic papers (peer-review) and policy-makers reviewing policies, explore the merits of academics reviewing policy, or policy-makers reviewing academic outputs. Plan topic-focused events that allow mingling from those with different backgrounds. Organise field trips to bring together researchers and stakeholders across levels (e.g. from policy to land-manager). 	<ul style="list-style-type: none"> Promote general understanding about science and its role in society. Provide incentives (monetary and career) for interaction between science and policy. Promote discussions about career structures and motivations. Fund and support interdisciplinary research. Fund training or resourcing for "linker/broker/facilitator" individuals and "linker" events to build science-policy relationships (do not just focus on tangible "Knowledge Exchange outputs"). Develop a communication strategy to help identify and prioritise audiences and partners. Provide funding for networking events.
Policy	<ul style="list-style-type: none"> Recognise that many researchers are personally motivated to see their research used and valued. Recognise that 'scientists' are diverse and do not have knowledge of all issues relating to biodiversity and ecosystem services. Subscribe to feeds about relevant news and policy brief sites. Seek out opportunities to learn how science works in general, as well as to learn about specific job-related topics. 	<ul style="list-style-type: none"> Be transparent about questions, and expected needs for current and/or future knowledge. Putting this into a briefing note for researchers can be a helpful starting point for discussion. Welcome conversations about defining questions or problems. Consider developing a list or network of scientific experts and researchers to help you. Provide space and resources to allow teams and individuals to learn and to build contacts beyond the policy sphere. 	<ul style="list-style-type: none"> Promote transparency and wider understanding (e.g. through training course) of policy and decision-making and implementation processes. Explore if and why science is valued compared to other forms of evidence. Liaise with funders to ensure funded projects (i) are clearly aware of policy priorities, and (ii) encourage communication e.g. enforce clearly written summaries from tender stage. Liaise with funders to develop projects that allow flexibility for interaction between science and policy.

- We need **flexible & adaptive communication approaches**
- Communication involves a **broad range of stakeholders**
- We need a **change in mindsets & behaviours**

Attributes of successful SPIs



SPIRALLING out

General briefs:

A beginner's guide to understanding challenges of communicating about biodiversity

What's so special about biodiversity?

A myth-busting-guide to science-policy interfaces (SPIs)

Case study reflections:

Recent reflections on science-policy communication in the context of deer management in Scotland

Reflections on recent experiences with the UK National Ecosystem Assessment

Recommendations:

Recommendations for improving science-policy communication

Designing for success: SPI structures

Goals and roles: SPI objectives and functions

Keep it CRELE: credibility, relevance and legitimacy for SPIs

CRELE Choices: trade-offs in SPI Design



Thank you

For more information about the SPIRAL project, please visit our website: www.spiral-project.eu or contact us at info@spiral-project.eu



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GEO BON



Creating a Network of Knowledge for
biodiversity and ecosystem services

www.biodiversityknowledge.eu

BiodiversityKnowledge

An approach to network knowledge on biodiversity across Europe to support decision making

Carsten Neßhöver & Marie Vandewalle (UFZ)
Barbara Livoreil (FRB) & Estelle Balian (RBINS)
& BiodiversityKnowledge partners

Dept. of Conservation Biology &
Science-Policy Expert Group
UFZ, Germany

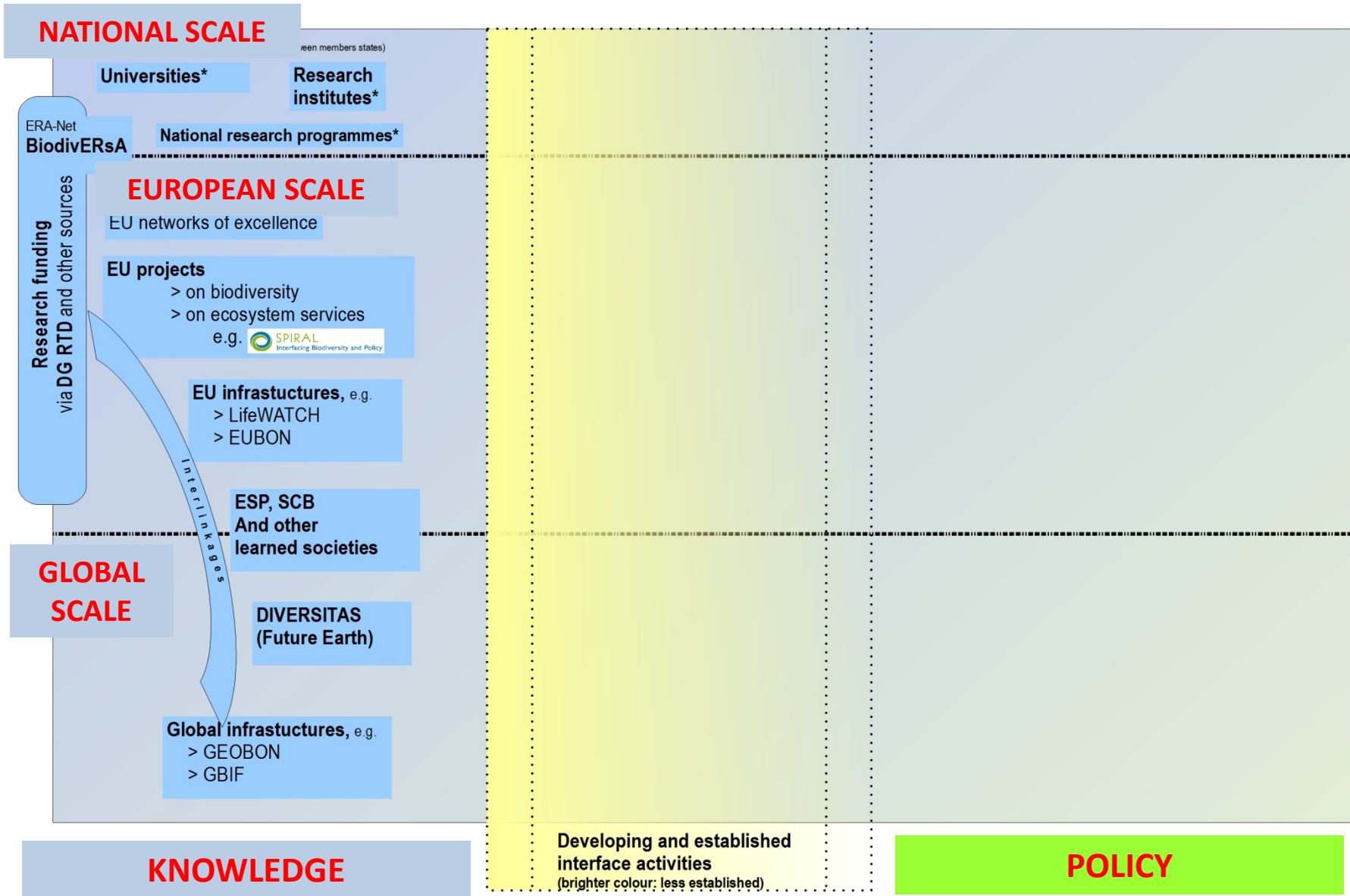


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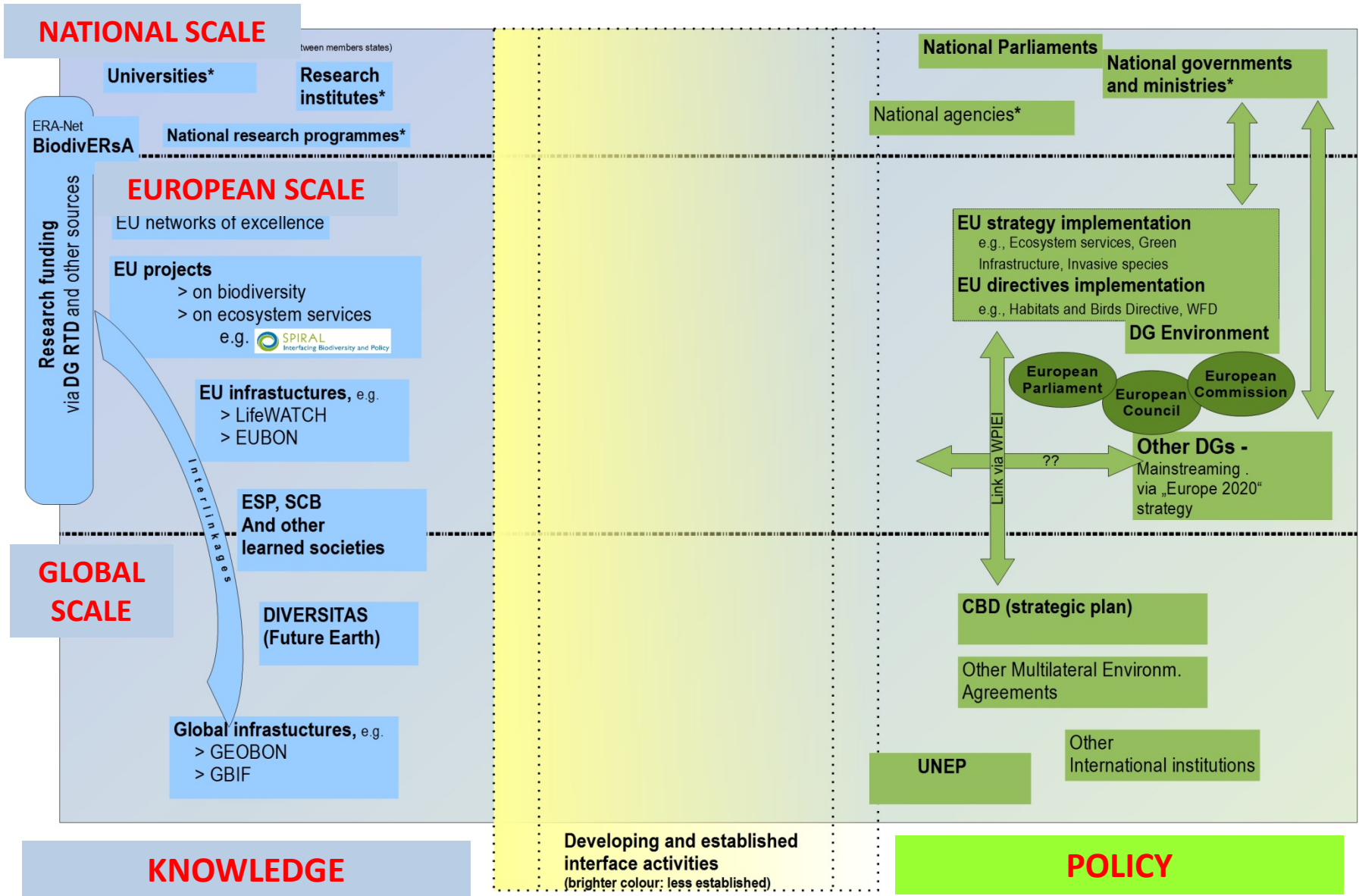
IPBES-1: Regional support to IPBES -
January 25th 2013



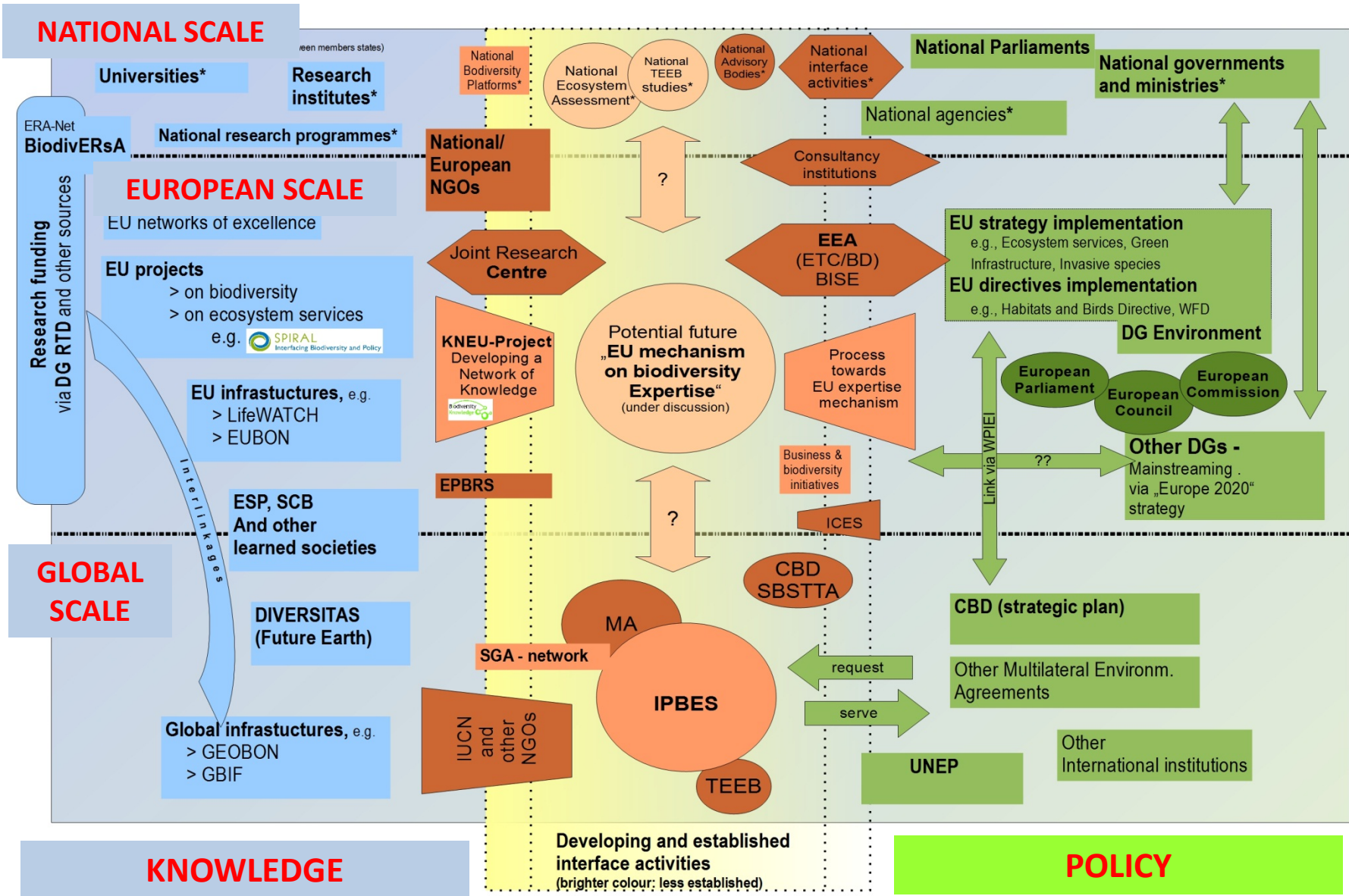
A sketch of the “science-policy landscape” of the EU (and beyond)



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A sketch of the “science-policy landscape” of the EU (and beyond)



Potential functions for the science-policy interface in the EU

1. Network-function:
Building a BES
community of Interest



“Capacity Building”

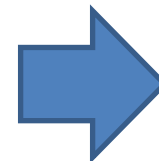


2. Policy implementation
support function



“Assessment” and
“policy support”

3. Research strategy
function



“Knowledge
generation”



4. Support mechanism for
IPBES from a regional
perspective





Ensuring that the best Knowledge on biodiversity and ecosystem services is made available to Governments and other decision makers in Europe.

funded by the European Commission via the project KNEU (Coordination action, FP7)

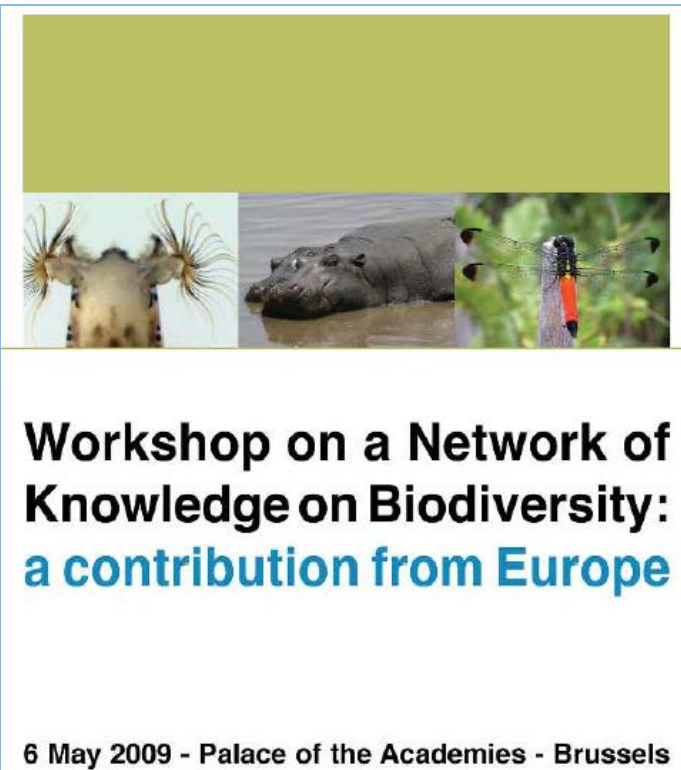
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January 25th 2013



Network of Knowledge (NoK)

a structure that improves access to reliable and timely information, and

- **asks for contribution of various stakeholders**
- **benefits from existing processes**



Elements of the NoK



- **Orchestrate the European „community of interest“ for exchange and mutual learning**



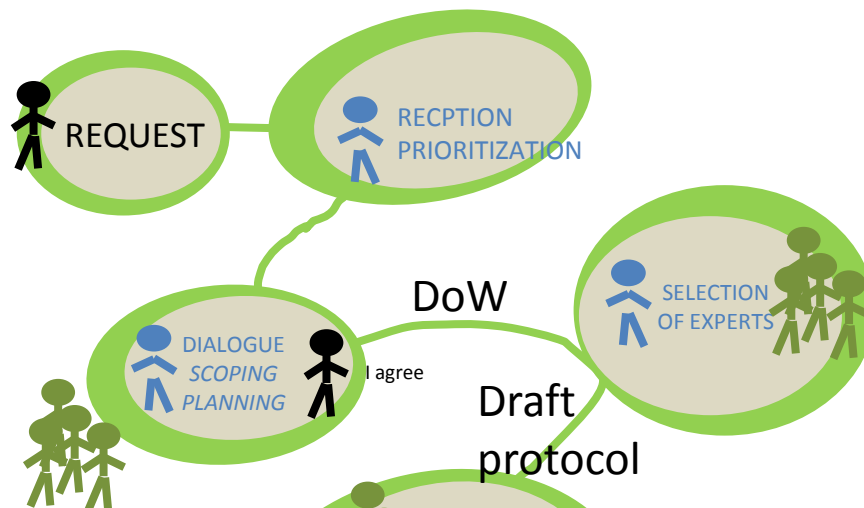
- **Propose rules and procedures for request formulation, scoping, assessment of feasibility, and establishment of procedure of work between the requester and the NoK**



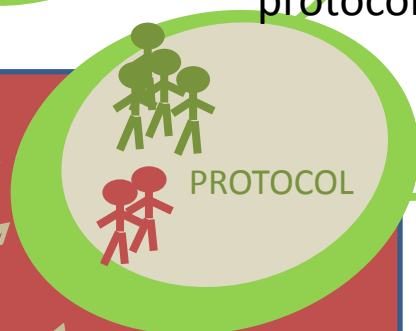
- **Open consultation, review and validation at different stages**

Providing a process for request-driven advice

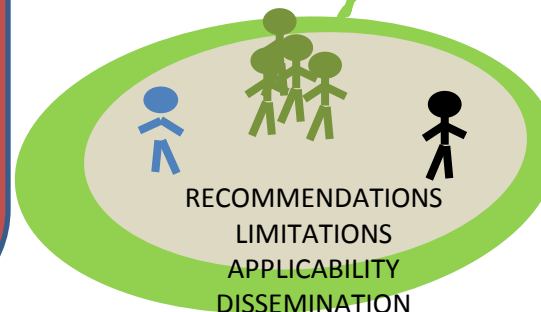
PREPARING



CONDUCTING



FINALISING



EXPERT CONSULTATION

EVIDENCE BASED

ADAPTIVE MANAGEMENT

...

TESTING the prototype : 3 demonstration cases



GREEN INFRASTRUCTURES

Impact of multifunctional floodplain management on biodiversity



NATURAL PEST CONTROL

Which types of landscape/habitat management are effective at maintaining or restoring populations of natural pest control agents?



KELP FORESTS

What are the current trends in kelp forests in Europe and what is the evidence that these trends will affect the ecosystem's biodiversity and the provision of ecosystem services?

Our next steps in Europe

- **NoK Prototype consultation**
 - **Open consultation in spring 2013**
 - **Conference September 24-26, 2013**
- **Link to the implementation of the European Biodiversity Strategy 2020, and the 7th Environmental Action Programme**
- **How to use the approach to support IPBES**



! Why regional networks are essential for IPBES

- **Easier level of stakeholder engagement**
- **Knowledge overview:** experts, data, relevant forms of knowledge, best practices
- **Collaboration:** (often) better networks, shorter ways of interactions
- **Close link to policy:** institutions, procedures, decision-makers, cultural specificities
- **Increase impact:** good linkage & buy-in by policy needed to make IPBES results relevant: regional specification needed





Get engaged!

Learn more on our flyer and website:

www.biodiversityknowledge.eu

Thank you for your attention!



BiodiversityKnowledge is funded by the European Commission via the project KNEU
(Coordination action, FP7, Grant No. 265299)



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Some lessons learned ...

- Data integration & sharing happens at the regional level but needs to be harmonized at the global level
- Multiplicity of SPIs should be embraced, learned from and built upon
- Ongoing external monitoring & evaluation
- Possible win-win situation for regional hubs & stakeholders engagement

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