



# First EU BON Stakeholder Round Table

EU BON - Integration of biodiversity data  
for Europe and requirements for Policy

Brussels, 18 June 2013

Dr. Christoph L. Häuser

*Museum für Naturkunde - Leibniz Institute for Research  
on Evolution and Biodiversity*

*Berlin, Germany*

[www.eubon.eu](http://www.eubon.eu)



# Some initial thoughts ... and aims for the workshop!

## Main obstacle for reaching the 2020 biodiversity goals / implementing the European Biodiversity Strategy :

Knowledge gaps in biodiversity data / information :

→ lack of timely integration of (well informed) biodiversity aspects & issues into actual political, economic, and management decisions ....

## Basic aims of the workshop:

- identify existing gaps of current biodiversity information
- determine current needs regarding biodiversity information by policy / stakeholders
- potential of EU BON to develop solutions to overcome existing knowledge gaps:

→ reliable, relevant, up-to-date, and publicly available biodiversity information - through the EU BON [GEO BON] data portal ...

# Agenda Stakeholder Round Table – Morning Session

11:00 **Welcome** *Christoph Häuser / Jane Shiel (EC)*

11:15 **General overview of EU BON and its targets** *Christoph Häuser*

11:30 **Synergies and contributions from other EU projects**

Chair: Dirk Schmeller (UFZ)

- *Kris Verheyen (University Gent; FunDivEurope)*
- *Jörg Freyhof (IGB; BioFresh)*
- *Lyubomir Penev (Pensoft; STEP)*
- *Rudolf May (German Federal Agency for Nature Conservation; INSIPRE)*
- *Peter Galbusera (KMDA; CONGRESS)*

BREAK

12:30 **Gap-analysis of existing biodiversity information with regard to the European Biodiversity Strategy and its indicators**

Chair: Dirk Schmeller (UFZ)

- *Urmas Kõljalg (University Tartu)*
- *Christina Secades (UNEP-WCMC)*

Discussion

13:30 **LUNCH**

# Agenda Stakeholder Round Table – Afternoon Session

14:15 **EU BON and global governance** Chair: Rob Doubleday (Univ. Cambridge)

**(1) Perspectives for biodiversity policy** *Georgios Sarantakos (GEO), Anne Teller (EC)*

**(2) Perspectives for citizen science** *Veljo Runnel (University Tartu), Cigdem Adem (EEA)*

**(3) EU BON Biodiversity Portal** - content creation and integrating key datasets for policy, science and citizens *Patricia Mergen (RMCA)*

Discussion

15:30 **Resume (Expectations for EU BON from European Policy Bodies)**  
Chair: Christoph Häuser

16:00 **End of event**

## Global challenges:

### The **big** issues:

- **Biodiversity,**
- **Climate,**
- **Water & Food,**
- **Poverty.**



The ***Knowledge Society*** is based on science and technology, i.e., the availability of sound & reliable scientific data, analysis and tools

# Biodiversity – challenges:

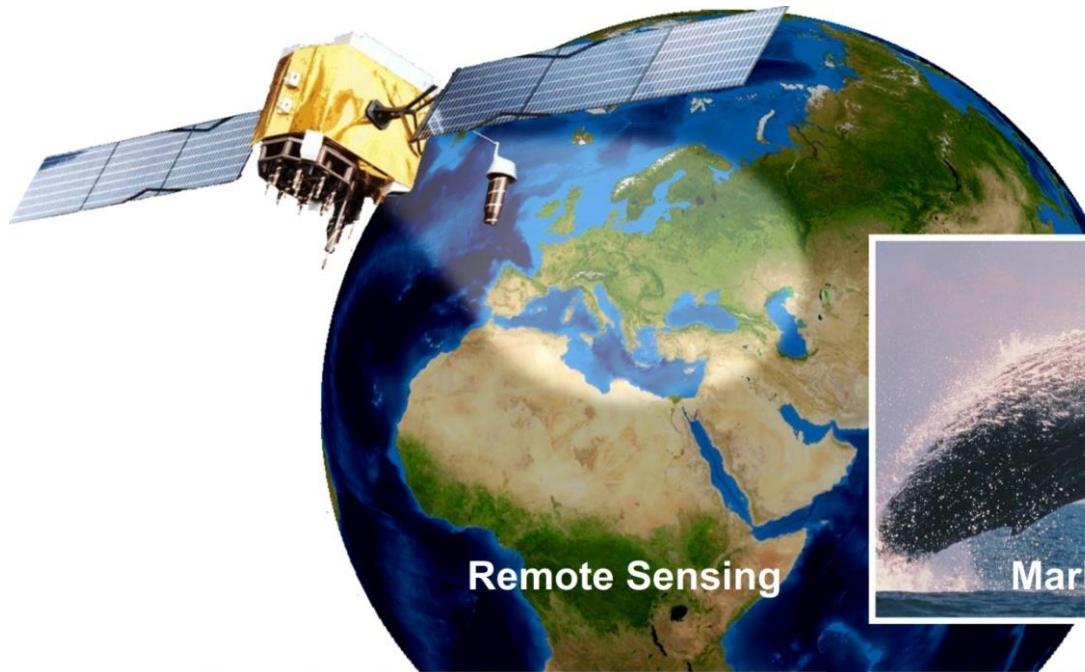
- ongoing biodiversity loss – continued / increased extinction rates / habitat losses
- missing baseline data – lack of basic knowledge
- fragmentation of available information – problems accessing/using existing knowledge
- targeted information delivery – limited impact of scientific data on policy and individual behaviour

# The real threat: biodiversity loss

- **Mammals:** [IUCN „red lists“ - [www.iucnredlist.org](http://www.iucnredlist.org)]
  - (1990): threatened + endangered: 647 spp.
  - (2008): threatened (CR, EN, VU): 1141 spp.
  - (2012): threatened (CR, EN, VU): 1139 spp.
  - (= 23% of all mammal species known)!
- **Reptiles:**
  - (1990) : threatened (+ endangered): 207 spp.
  - (2003) : threatened: 293 spp.
  - (2008) : threatened: 423 spp.
  - (2012) : threatened: 807 spp.
- **Increases from:**

	2000	-	2003	-	2008
– plants:	5,611	:	6,774	:	8,457 spp.
– vertebrates:	3,507	:	3,524	:	5,966 spp.
– invertebrates:	1,928	:	1,959	:	2,496 spp.
- n.b.: **insects** (= 950,000 spp.): only 0.02% of all insect species could yet be evaluated!!

# The challenge: diversity & fragmentation of *biodiversity* data



© Wanetta Ayers



© Johannes Penner



© Johannes Penner



# EU BON project – key information

**EC FP7 - Cooperation Theme 6: Environment (incl. climate change)**  
**(ENV.2012.6.2-2): Assessing global biological resources: the European contribution to GEO BON**

**EC funding mechanism:** Collaborative Project

**Project start:** 1st December, 2012

**Duration:** 54 months (48 + 6)

**Consortium:** 30 partners (18 countries)

**Budget:** 11,6 mio Euro, <9 mio Euro EC contribution

[www.eubon.eu](http://www.eubon.eu)

# EU BON consortium partners

**Museum für Naturkunde, Berlin (MfN) – Germany**

**University of Tartu (UTARTU) – Estonia**

**University of Eastern Finland (UEF) – Finland**

**Global Biodiversity Information Facility Secretariat, Copenhagen (GBIF) – Denmark**

**University of Leeds (UnivLeeds) – UK**

**Helmholtz Centre for Environmental Research, Leipzig / Halle (UFZ) - Germany**

**The Spanish National Research Council: MNCN, Madrid (CSIC) – Spain**

**University of Cambridge (UCAM) – UK**

**Centre National de la Recherche Scientifique (CNRS: IMBE) – France**

**Pensoft Publishers, Sofia – Bulgaria**

**Senckenberg Research Institute and Natural History Museum, Frankfurt (SGN) - Germany**

**Vizzuality, Madrid – Spain**

**FishBase Information and Research Group (FIN), Los Banos – Philippines**

**Hellenic Centre for Marine Research, Iraklion (HCMR) – Greece**

**The Natural History Museum, London (NHML) – UK**

**Freie Universität Berlin (FUB: BGBM) – Germany**

**University of Copenhagen (UCPH) – Denmark**

**Royal Museum for Central Africa, Tervuren (MRAC) – Belgium**

**Plazi, Bern – Switzerland**

**GlueCAD Ltd. , Haifa – Israel**

**Institute for European Environmental Policy (IEEP) – UK**

**Instituto Nacional de Pesquisas da Amazônia (INPA), Manaus – Brazil**

**Swedish Museum of Natural History (NRM), Stockholm – Sweden**

**Institute of Botany, Slovak Academy of Sciences (IBSAS), Bratislava - Slovak Republic**

**European Bird Census Council (EBCC) – Spain**

**Norwegian Biodiversity Information Centre (NBIC) – Norway**

**Edmund Mach Foundation (FEM)– Italy**

**TerraData environmetrics – Italy**

**European Academy of Bolzano (EURAC) – Italy**

**UNEP World Conservation Monitoring Centre (WCMC) , Cambridge – UK**

# EU BON work packages

**WP1: Data sources:** requirements, gap analysis & data mobilization

*[University Tartu];*

**WP2: Data integration & interoperability** *[Univ Eastern Finland - Digitalium];*

**WP3: Improving tools** and methods for data analysis & interface *[Univ Leeds];*

**WP4: Link environment to biodiversity: analyses** of patterns, processes & trends *[UFZ];*

**WP5: EU BON testing** and validation of concepts, tools, and services *[CSIC];*

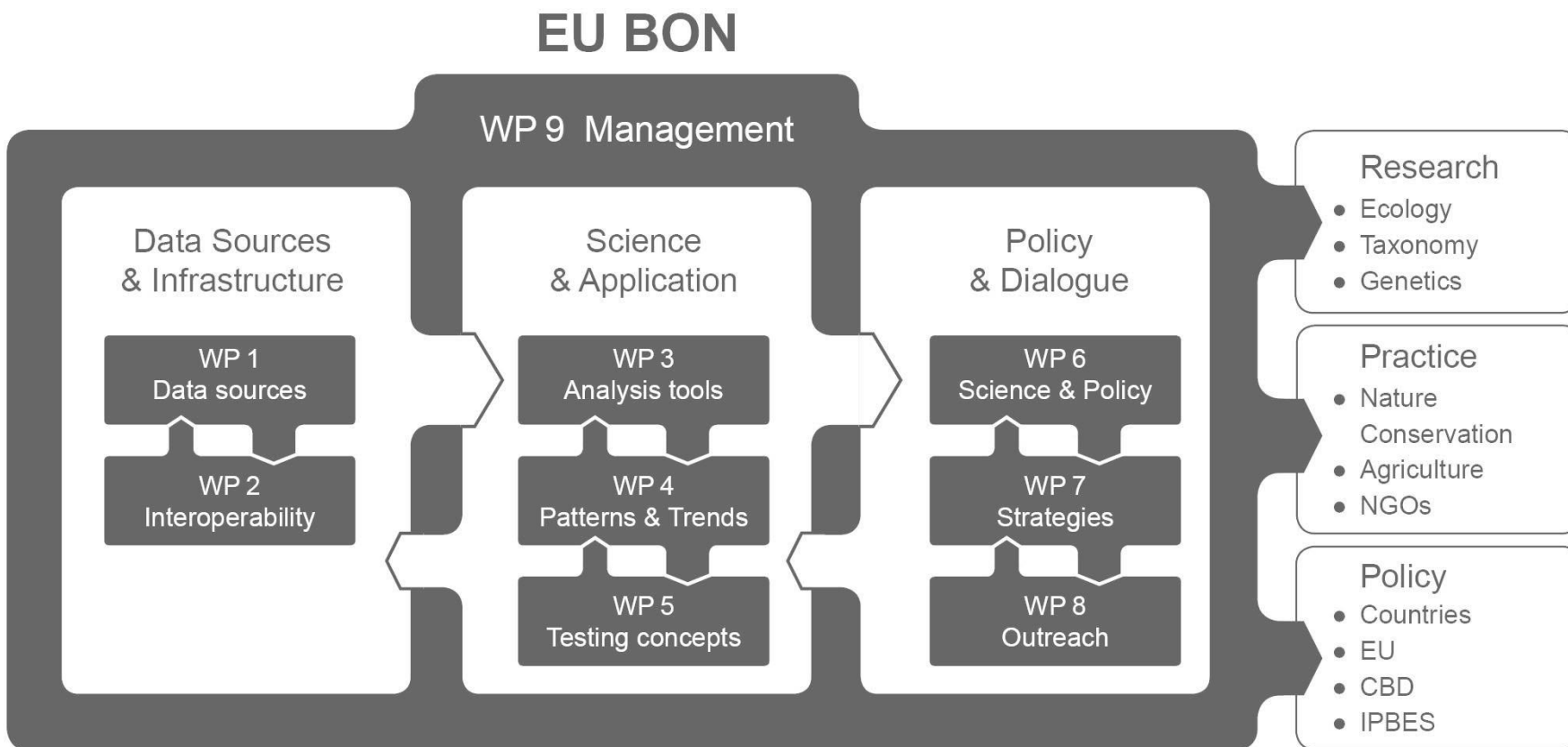
**WP6: Stakeholder** engagement & science-policy dialogue *[Univ Cambridge];*

**WP7: Implementation of GEO BON: strategies** & solutions at European (& global) levels *[CNRS: IMEB];*

**WP8: Dissemination** and outreach *[Pensoft];*

**WP9: Consortium management** & organization *[MfN].*

# EU BON workflow / organization



# EU BON characteristics

A **key feature** of EU BON will be the delivery of **integrated**, near-real-time **relevant data** – both from **on-ground** observation and **remote sensing** – to the various stakeholders and end users ranging from local to global levels.

**This will require:**

- (1) the establishment and adoption of **new data standards and integration techniques**,
- (2) **harmonized data collection** and management,
- (3) the development of **new approaches** and strategies for **future biodiversity monitoring and assessment**,
- (4) providing **practical indicators** and **interpretation tools** for end-users - from, e.g., agriculture to nature conservation.

## Main *objective* of EU BON => building a *European* contribution to **GEO BON**

The main objective of EU BON is to build a substantial part of the Group on Earth Observation's Biodiversity Observation Network (**GEO BON**), also in light of the new Intergovernmental science-policy Platform on Biodiversity and Ecosystem Services (**IPBES**).





## Expected **EU BON** contributions to **GEO WP / tasks:**

IN-01 Earth Observing Systems (C1)

IN-02 Earth Data Sets

**IN-03 GEOSS Common Infrastructure**

ID-01 Advancing GEOSS Data Sharing Principles

**ID-02 Developing Institutional and Individual Capacity (C1, C2)**

ID-03 Science and Technology in GEOSS

SB-01 Oceans and Society: Blue Planet (C1, C2)

EC-01 Global Ecosystem Monitoring

**BI-01 Global Biodiversity Observation (GEO BON)**

# EU BON outputs and products (1)

- **gap analysis** for available data layers at different scales, mainly in/for Europe (WP1)
- **strategies** for targeted **data mobilization** (WP1)
- new and improved **data standards** for advancing **interoperability** (WP2)
- new, scalable/customized **European Biodiversity Portal** (WP2 / WP8)
- **software tools** for improved recording / mapping of **habitats, species distributions** and **patterns** (WP3)
- Improved **models** for impacts of different drivers on abundance & distribution, applicable at different scales (WP4)
- **guidelines** for improved, integrated **monitoring schemes** at different scales / levels (WP4)



## EU BON outputs and products (2)

- results & lessons from **operating EU BON test sites**: template and recommendations for **global network of GEO BON sites** (WP5)
- recommendations for future integrated **national / regional biodiversity information infrastructures** (BIFS / BONs), including business plan (all, WP7)
- blueprint for a **global biodiversity monitoring scheme / infrastructure** (all, WP7)
- contribute to **IPBES** (information) needs at European and national levels (WP6 / WP7)



# Symposium and EU BON kickoff meeting

Berlin, 11-15 February 2013

## Symposium : “Nature and Governance: Biodiversity Data, Science, and the Policy Interface“

### Topics (16 invited speakers, >120 participants)

- Which data does policy need?
- The future of biodiversity information: new ways for generating, managing, and integrating biodiversity data
- How new approaches can link scales and disciplines
- Broadening the base: new ways to engage the public and stakeholders in biodiversity monitoring and assessments



# First WP5 Meeting at the EU BON test site Doñana

2-4 April 2013, Doñana Biological Station



## Goal:

- Sharing data resolution and format among testing sites
- Build a draft on principles and guidelines for establishing and operating EU BON test sites

## Participants:

- 23 people from 10 institutions (6 countries) met in the field station of the CSIC, Doñana Biological Station, Andalusia, Spain

# EU BON Task Groups are getting established

## Informatics and Data Standards Task Force (ITF)

1st Meeting: **29-31 May 2013**, Trondheim (Norway)

Coordination by WP2 (Data Integration & Interoperability; Lead: Hannu Saarenmaa)

- Getting to know GEOSS and GEO BON
- Detailed discussion and group work on the EU BON WP2 tasks
  - Architectural design – how to integrate with GCI, LifeWatch, and other networks
  - EU BON portal
  - Review and guidelines for using data standards
  - Data sharing tools – how to cover more data types and implement wider standards
  - Gap analysis and priorities for filling identified gaps in data coverage and quality – WP1
  - Registry and metadata catalogue
  - Helpdesk and training programme

## Policy/Stakeholder Round Table

1st EU BON Stakeholder Round Table: **18 June 2013**, Brussels (Belgium)

Coordinated by WP6 (Stakeholder Engagement & Science-policy Dialogue; Lead: Rob Doubleday)

- Expectations from the EC & political stakeholders
- Gap-analysis with regard to the European Biodiversity Strategy and its indicators
- The contribution of EU BON to support the EC with regard to IPBES
- Perspectives for citizen science

# EU BON – Science-Policy and Stakeholders WP 6

## Objectives:

- review **policy requirements for biodiversity data** at European and national levels
- **engagement with relevant political authorities** and other stakeholders at European and national levels in support of the delivery of the EU BON project
- identify and pilot **new approaches to overcome barriers** to the effective use of biodiversity data in conservation policy at European and national levels
- to build up **stakeholder dialogue** with exemplar sector-specific user communities (including business)
- to test and refine **interactive visualization** and **decision support tools**

# Tasks – Science-Policy and Stakeholders WP 6

- Review policy and stakeholder requirements for biodiversity data
- EU BON stakeholder round table
- In-depth analysis of biodiversity data use in conservation policy
- Sector specific stakeholder engagement with user communities
- Testing and refining interactive visualization and decision support tools

## WP 6 Partners:





# Thank you very much for your attention!

[www.eubon.eu](http://www.eubon.eu)

