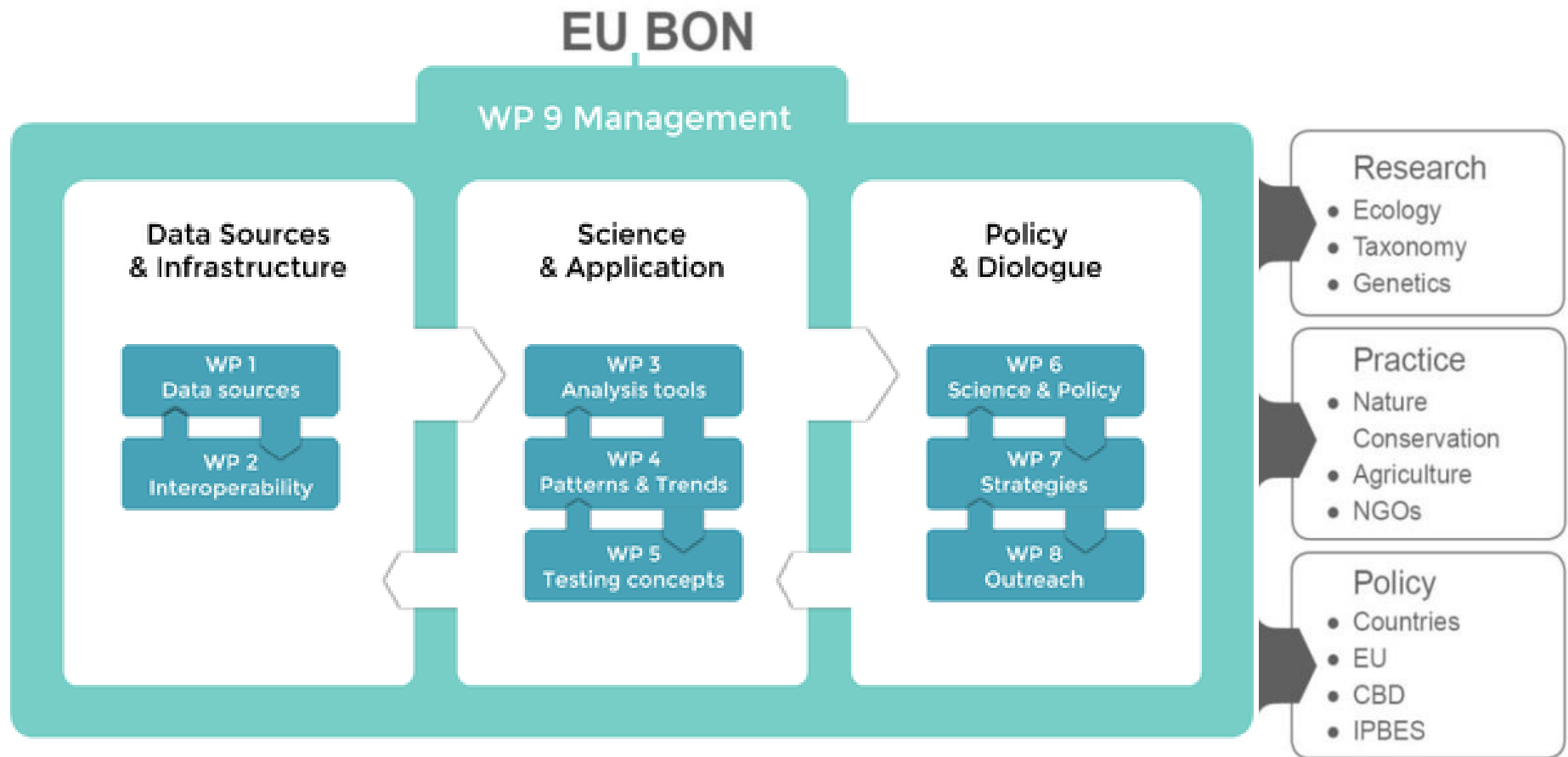


EU BON: core elements for an integrated biodiversity information system !?!



EU BON : core elements for an **integrated** (European) Biodiversity Observation Network / System

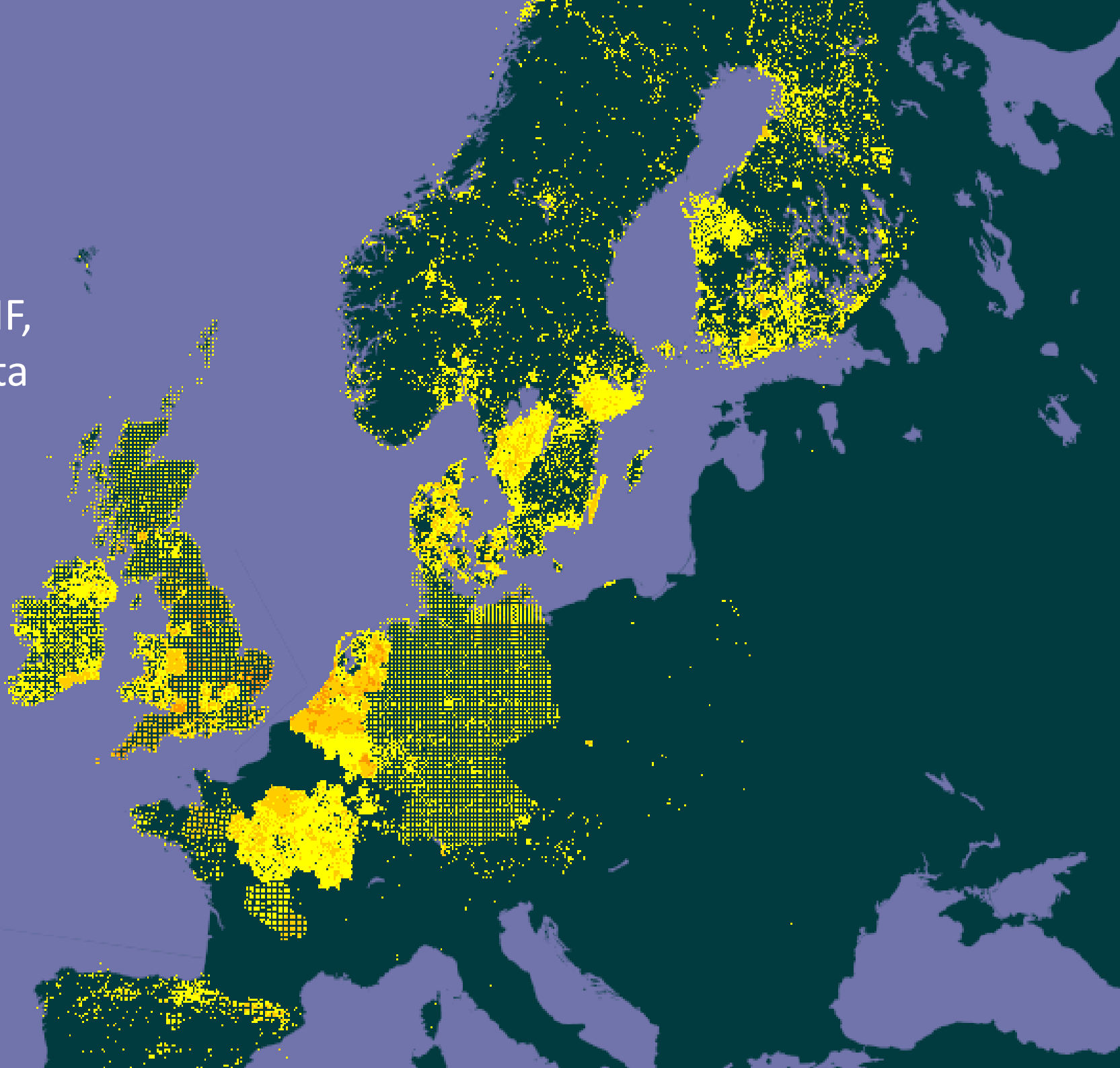


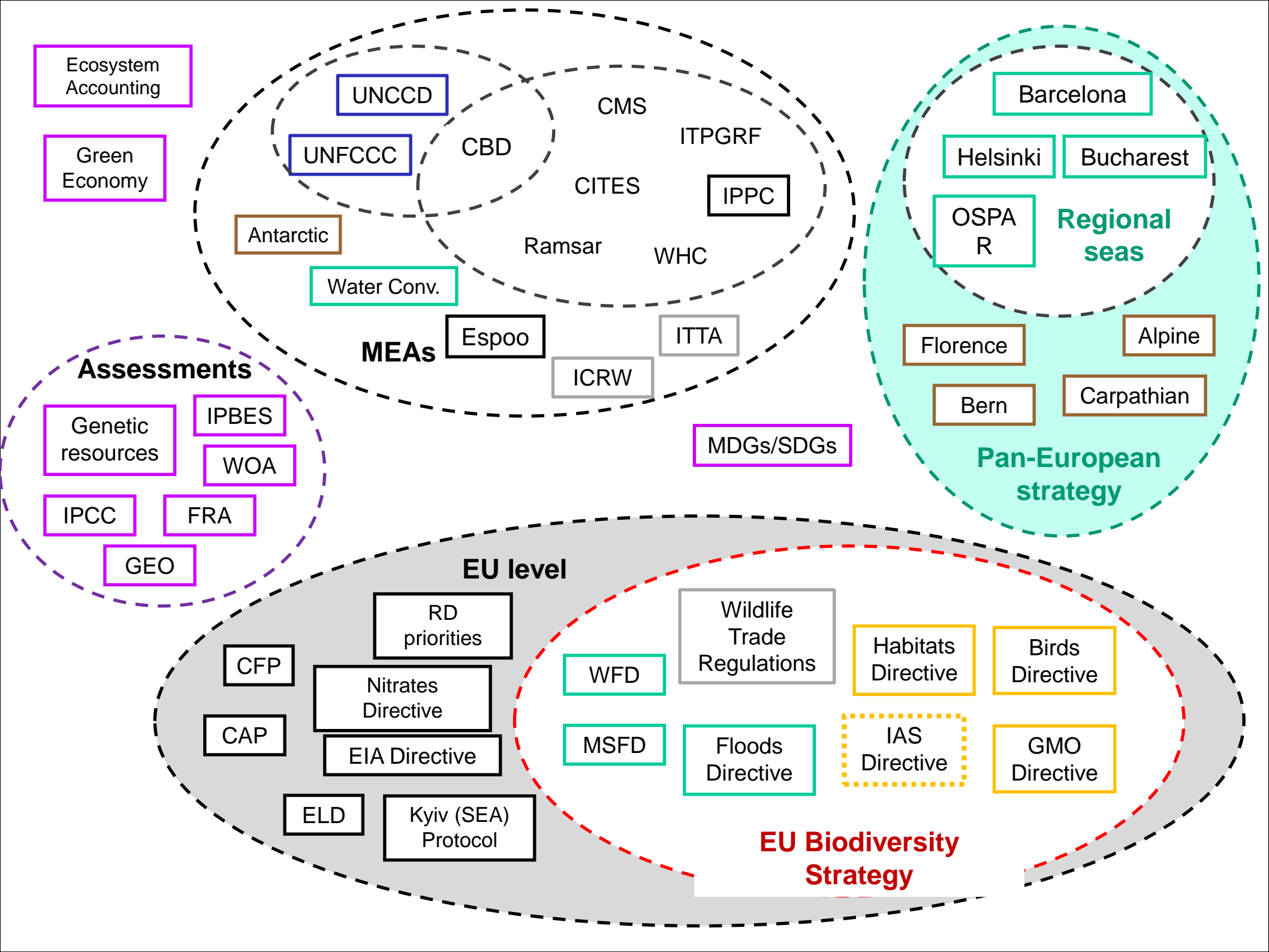
Fragmented
data from GBIF,
visualising data
gaps,
+ needs for
common data
recording
standards



Picture © Ondřej Zicha, via EoL

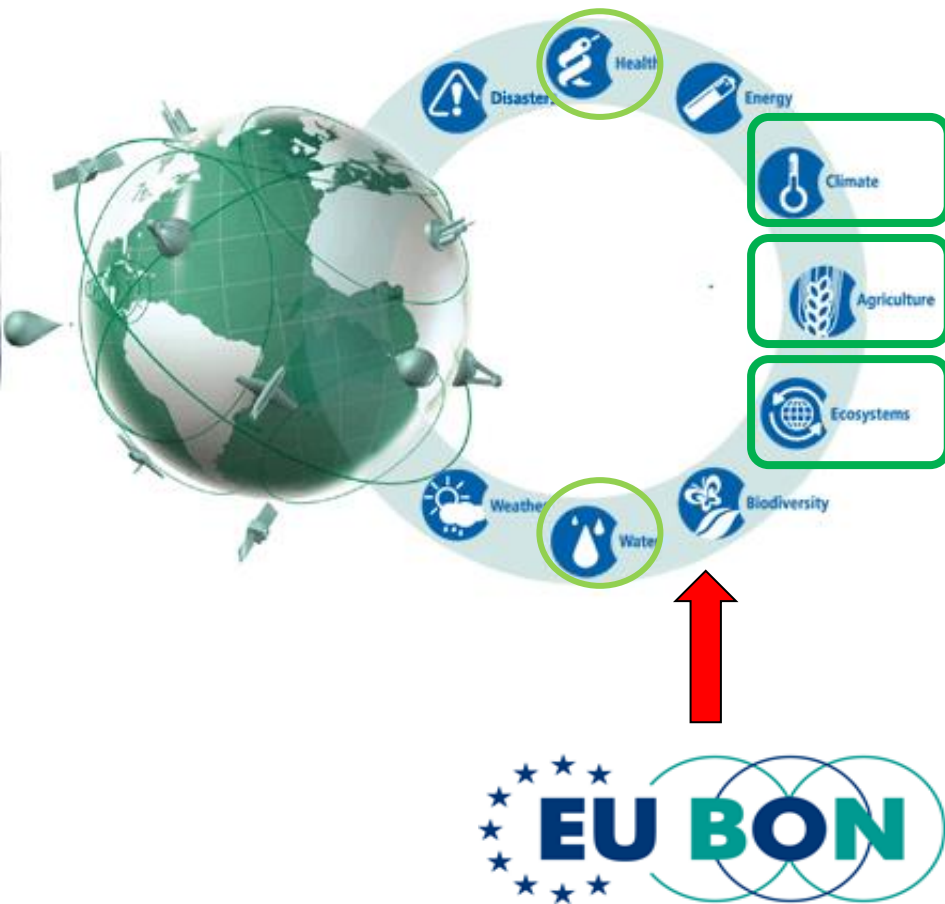
Achillea millefolium





EU BON – GEOSS linkages

Expected **EU BON** contributions to **GEO/ GEOSS** :



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 Project landscape - and safeguard long-term access of data !?

H2020 Projects: 2399 projects listed in Cordis (05/2015)

FP7 Environment: 499 projects

FP7 Earth Observation:

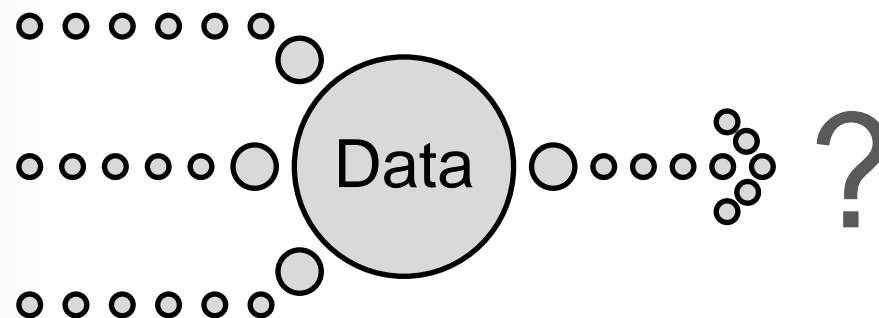
> 50 projects,
EU contribution > 200 million €

FP5-7 programmes: 156 projects from Earth Observation / Biodiversity identified as relevant for EU BON

- Biodiversity 83 projects
- Earth Observation 39 projects.

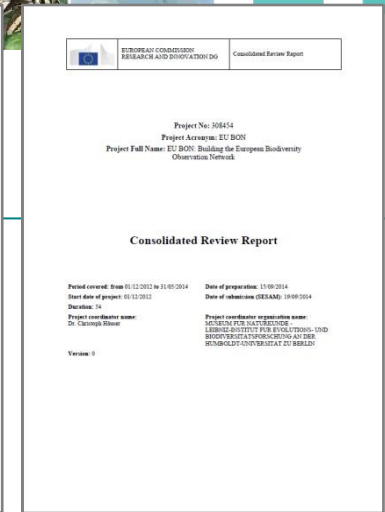


FP 5-7 Projects



EU BON: delivered products

- 1 Periodic report (+ 1st project review!)
- 3 Interim reports
- 5 Deliverables
 - D8.1 Project branding, website and online libraries M08 (10/09/2013)
 - D8.2 Dissemination and Communication Strategy M10 (01/10/2013)
 - D2.1 Architectural design, review and guidelines for... (03/02/2014)
 - D5.1 (R) Principles and guidelines for establishing and... (02/02/2015)
 - D3.1 Application software implementing remote sensing,... (31/05/2015)
- 63 Milestones
- 1 Overview article & many publications
- Successful review, amendment of DoW

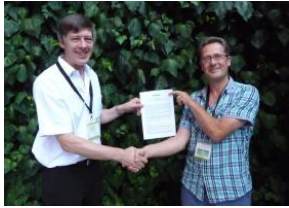


Dissemination

- 120 Conferences (by Nov. 2014)
- Web page (updated)
- Newsletter (4 issues)
- Flyer (updated)
- 3 Policy briefs



Associates



25 signed
 4 in preparation (Globis-B, CNR-IGG, Ecopotential, Pangaea)
 Networking with other EU projects

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Associated Partners

The listed institutions/projects have signed the Memorandum of Understanding (template below) and became official associated partners of the EU BON consortium

Institution / Project	Country	Logo	Contact
GFBI - German Federation for Biological Data	Germany		Michael Diepenbroek
Societize (University of Zaragoza-BIFI) - Ibercivis Foundation	Spain		Fermin Serrano Sanz
Museum National d'Histoire Naturelle	France		Vanessa Demanoff
Norwegian Institute for Nature Research (NINA)	Norway		Roald Vang
LTER-Europe (the European Long-Term Ecosystem Research Network)	Poland		Michael Mirtl
Museo de Historia Natural UNMSM	Peru		Betty Millán Salazar
Natural Environment Centre / SYKE (Finnish Environment Institute)	Finland		Martin Forsius
Atlas Florae Europaeae (AFE)	Finland		Pertti Uotila



EU BON study: available data sources and EBVs

Data source	Scale	Realm	Access	GC	SP	ST	CC	EF	ES
GBIF	Global	M/T/F	U	0	1	0	0	0	0
GenBank	Global	M/T/F	U	1	0	0	0	0	0
IUCN Knowledge Products - Red list's spatial data	Global	M/T/F	U	0	1	1	0	0	1
Biofresh	Global	F	P	0	1	0	0	0	0
Pangaea	Global	M/T/F	P	0	1	0	0	1	1
Fishbase	Global	M/F	U	0	1	1	0	0	0
Trait databases (Polytraits, Try, YouTHERIA ...)	Global	M/T/F	P	0	1	1	1	0	1
Movebank	Global	M/T/F	P	0	1	1	0	1	0
Landsat	Global	M/T/F	U	0	0	0	1	1	1
ENVISAT	Global	M/F/T	U	0	0	0	1	1	1
LTER	Regional*	M/T/F	P	1	1	0	1	1	1
ICES (Datras)	North East Atlantic	M	U	0	1	1	1	1	0
Delivering Alien Invasive Species Inventories for Europe (DAISIE)	Europe	M/T/F	P	0	1	1	0	0	0
Pan-European Species directories Infrastructure (PESI)	Europe	M/T/F	P	0	1	0	1	0	0
European Red deer genetic monitoring program	Europe	T	P	1	1	0	0	0	0

I.R. Geijzendorffer, E.C. Regan, H. M. Pereira, L. Brotons, N. Brummitt, Y. Gavish, P. Haase, C.S. Martin, J.-B. Mihoub, C. Secades, D.S. Schmeller, S. Stoll, **F. T. Wetzel**, M. Walters (2015): Bridging the gap between biodiversity data and policy reporting needs: An Essential Biodiversity Variables perspective
Journal of Applied Ecology, 2015

Project timeline

EU BON Project Months												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2012												1
2013	2	3	4	5	6	7	8	9	10	11	12	13
2014	14	15	16	17	18	19	20	21	22	23	24	25
2015	26	27	28	29	30	31	32	33	34	35	36	37
2016	38	39	40	41	42	43	44	45	46	47	48	49
2017	50	51	52	53	54							



General Assembly Meetings



Submission of the Periodic Reports



Project Review Meetings

EU BON key output and products

- **Strategies** for targeted **data mobilization** – *in / for Europe*
- **Software tools** & improved **models** - for better biodiversity data recording / mapping and **analysis** / **visualization** of patterns & trends
- New **European Biodiversity Portal** – *for new functionalities*
- Results & lessons learnt from **EU BON (& other) sites**: for regional/global network of long term recording/monitoring sites (LTER / ILTER)
- Recommendations for integrated **national / regional biodiversity recording/monitoring schemes and information infrastructures (BIFS / BONs)**, including business plan – at least for Europe
- *Blueprint for a **global biodiversity monitoring scheme / infrastructure (GEO BON)***

EU BON : core elements

- **Biodiversity inventories / thesauri** [background data]
- **Biodiversity observation / recording schemes & long term monitoring programmes / schemes**
- **Best practice / standard analytics, models, and indicators** (“EBVs”)
- **Targeted information delivery** (“translation”) **services** (regular + ad hoc)

- **Infrastructures & resources:**
 - organization/support for data generation activities/programs
 - sites, especially for long-term monitoring
 - data / information infrastructures

- **Organizational aspects/challenges:**
 - political/scale: local vs. national vs. regional (EU)
 - integration/use of existing infrastructures / institutions vs. new ones

EU BON : core elements for an **integrated** Biodiversity Observation Network!!





EU BON General Meeting
Cambridge, 1 – 4 June 2015

museum für
naturkunde
berlin

