



European Biodiversity Portal Summary

EU BON Project

Building the European Biodiversity Network

Francisco Antonio García Camacho (EBD-CSIC)

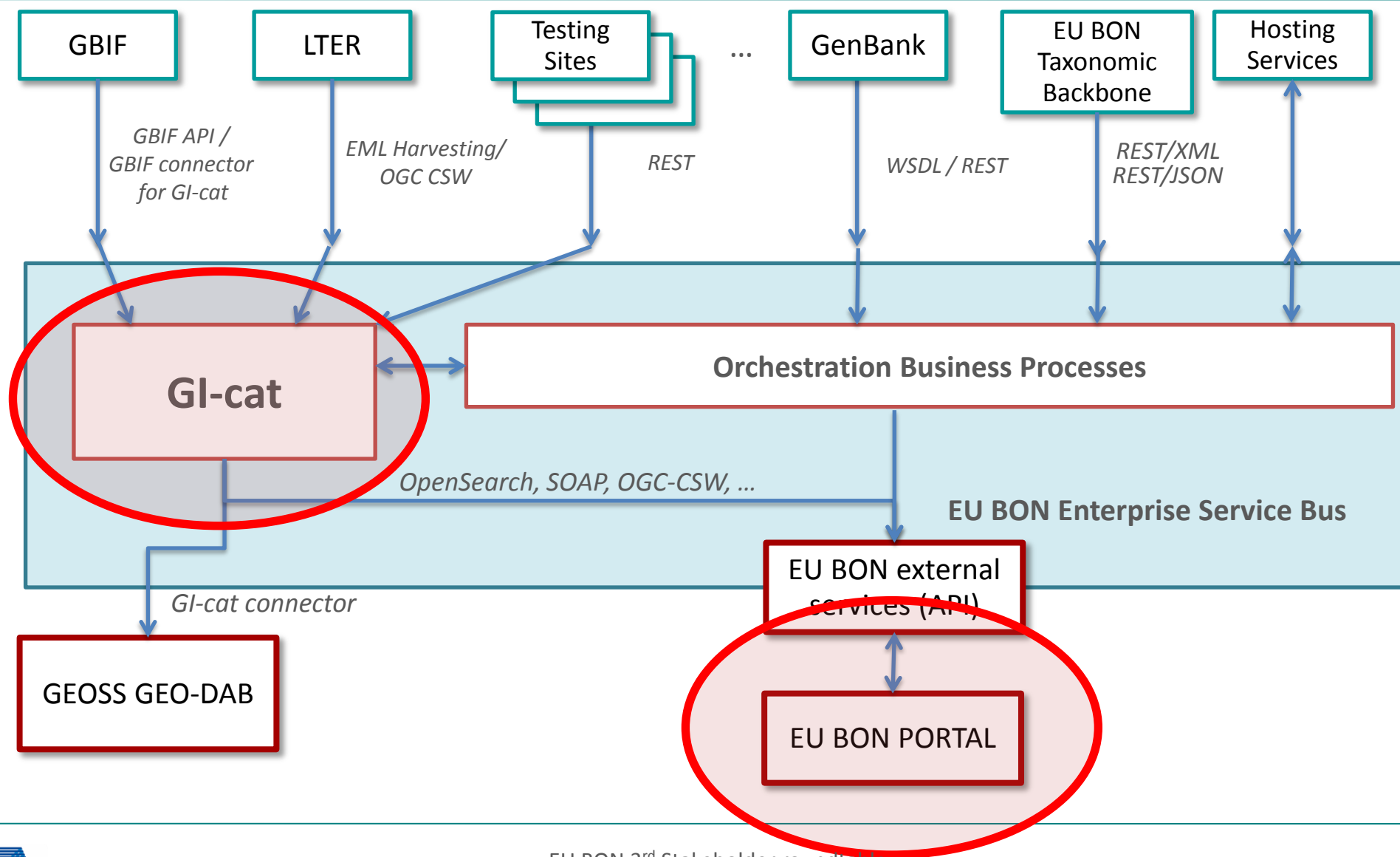




EU BON Biodiversity Portal Goals

- Integrate biodiversity, ecosystem and genetic data repositories → **registry**
- Showcase of EU BON analytical tools and results → **portal**
- Provide output interfaces to other initiatives (GEOSS, DataONE, ...)

EU BON SW Arch Diagram





Registry and metadata catalogue

- **GEOSS GI-cat as main broker**
 - Input: each provider's endpoints (Metadata Sharing)
 - Transform into a common metadata model.
 - Output: standardised endpoints providing **integrated** metadata.
- **GBIF main data repository**
 - Not only metadata, but also standardised data (DarwinCore).

[Link to EU BON GI-cat configurator](#)

[Link to EU BON GI-cat GI-portal](#)



Task 2.4 Metadata registry and catalogue. GI-cat

- Process:
 - Consume directly connected or harvested metadata sources.
 - Translate metadata into a common metadata model (ISO 19115 + profiles)
 - Provide endpoints to consume the entire GI-cat instance (e.g. OpenSearch, OGC CSW).
- Instance deployed for EU BON
 - GBIF: problems with the specific GBIF accessor. Now harvested through its OAI-PMH interface
 - Some risks:
 - GI-cat consume EML files one to one. How to consume EML harvest lists?
 - EML-to-CSW taxonomic coverage loss

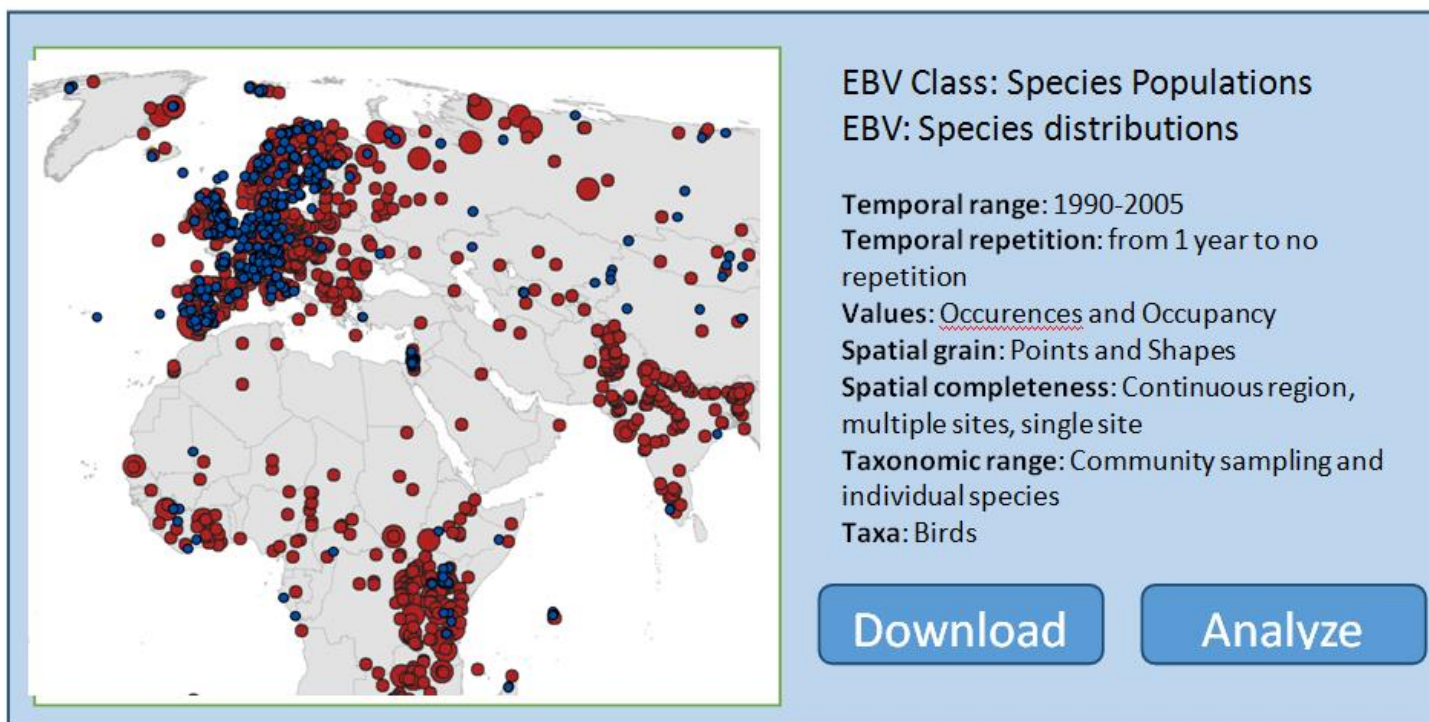


EU BON Biodiversity Portal

- **Redefined after 2nd General Meeting (Cambridge, June 2015)**
- **Portal: showcase of EU BON products**
 - Decided to use Liferay portal CMS (September 2015)
 - UI can be adapted per role (researcher, decision maker, user)
 - Subsites (citizen science, site-specific subsites...)
- **Dataset search tool interface**
 - 1st EBP prototype is being transformed into a UI for GI-cat.
 - Future: EBV Browser??

[LINK TO TEST PORTAL \(in development\)](#)

Spatial EBV Browser



“Our vision for this portal is of an **EBV Spatial Browser**, which would allow users to discover multiple datasets for each Essential Biodiversity Available for any region in the world. These datasets could be published by different data providers using discoverable data standards (e.g. GBIF model with Darwin Core), and the GEO BON portal could index those datasets. In many cases, no discoverable data standards exist and datasets (or at least the metadata) would need to be manually uploaded to a GEO BON database supporting the backend of the portal.”

Henrique Pereira, GEO BON



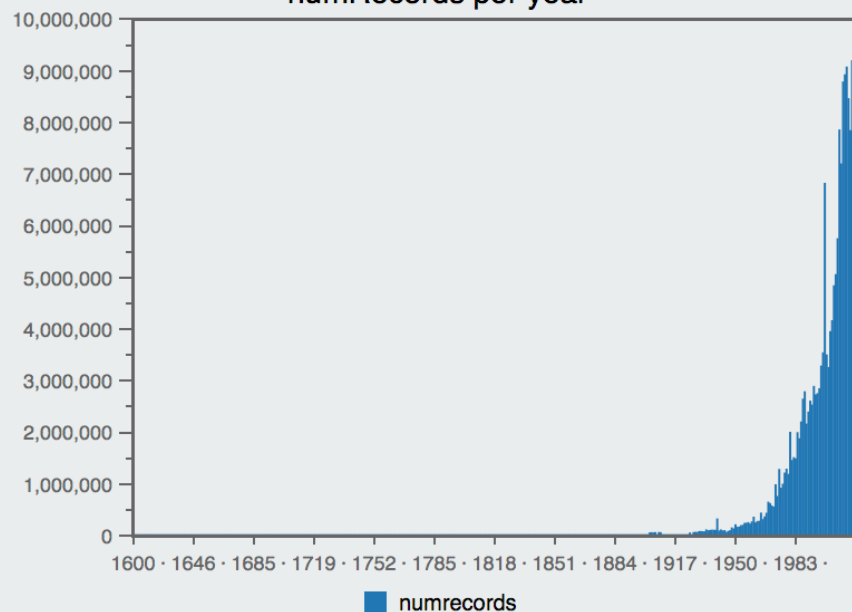
Other developments

- **Time based visualisations (30% aprox)**
 - CartoDB appliance almost deployed
 - GBIF data (227 million records)
 - More tests needed (performance?)
- **Species richness and trends (50% aprox)**
 - Desktop tool developed
 - Developing a web app.
- **Species occurrence analysis: dashboards (30% aprox)**
 - Pentaho deployed
 - GBIF summary data loaded (over 93 million records)
 - Some OLAP cubes and [dashboards implemented to test.](#)

Dashboards

GBIF occurrences dashboard

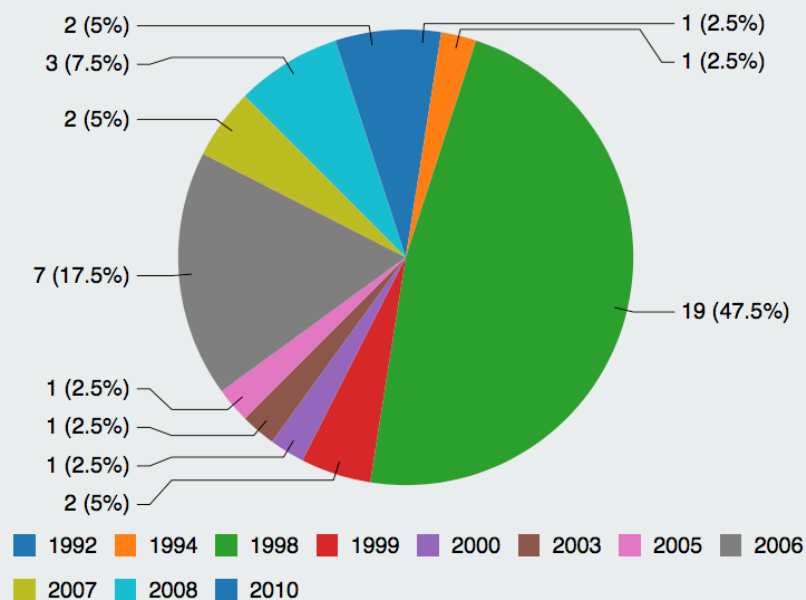
numRecords per year



Taxon key:

1000447

NumRecords per year and Taxon key





Thank you very much for your attention

www.eubon.eu



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