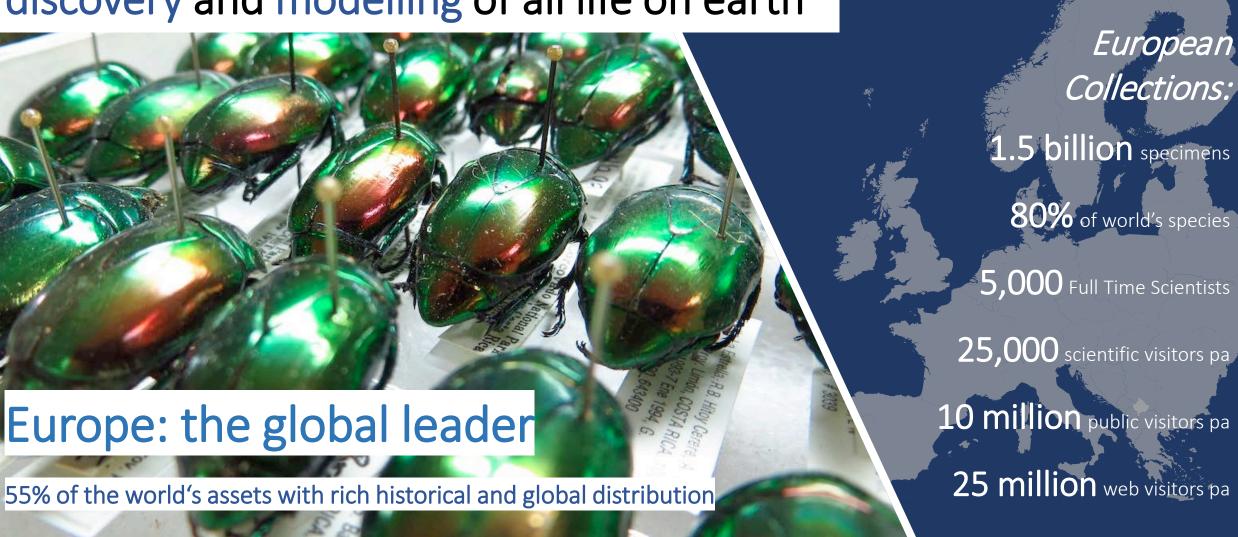




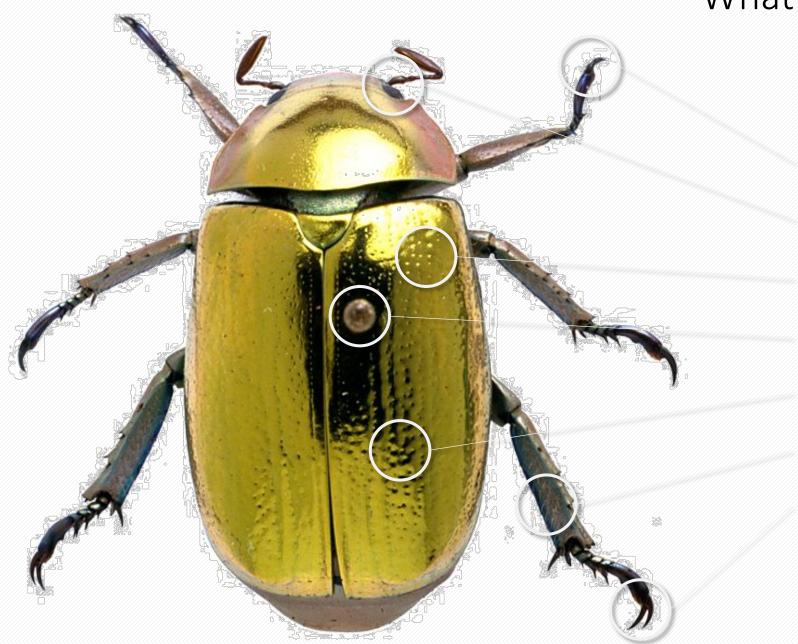
DiSSCo Information Day 25 Nov 2019 Vienna, Austria

Dimitris Koureas





What's in a Museum specimen?





Genomic data



Biochemical data



Morphological data



Geographical data



Taxonomic Information



Species Interactions data

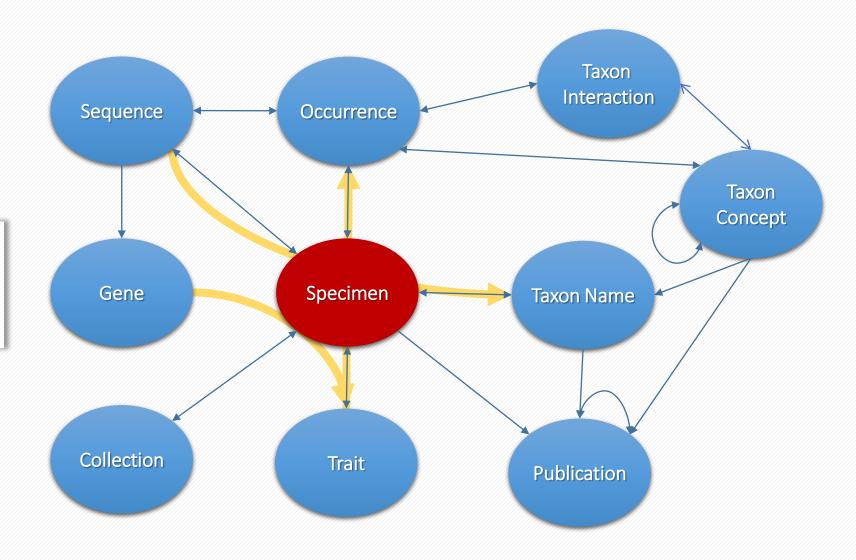


Ecological data

All data classes unambiguously linked to the physical objects they derive from



Specimens at the centre





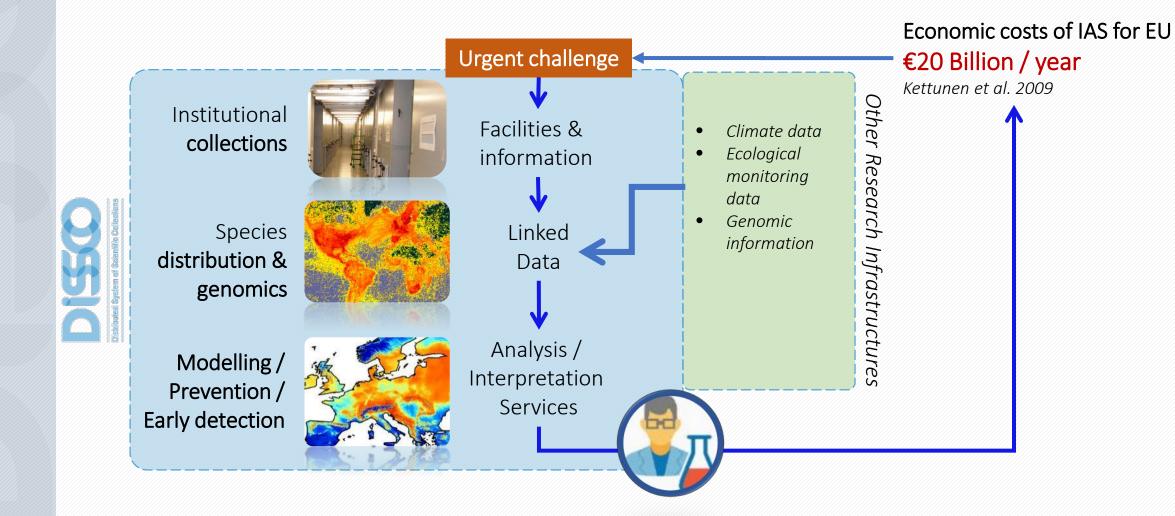
Case study – Invasive Alien Species

UN Sustainable Development Goals (Target 15.8)

EXAMPLE: Alligator Weed

(Alternanthera philoxeroides)
Negative impact on native species, ecosystem
services and infrastructure







a new business model: ONE EUROPEAN COLLECTION

- One European Collection of scientific assets
- Common Collections development strategy
- Economies of scope and scale
- Monitoring impact of collections (documenting ROI)
- Specialisation strategies

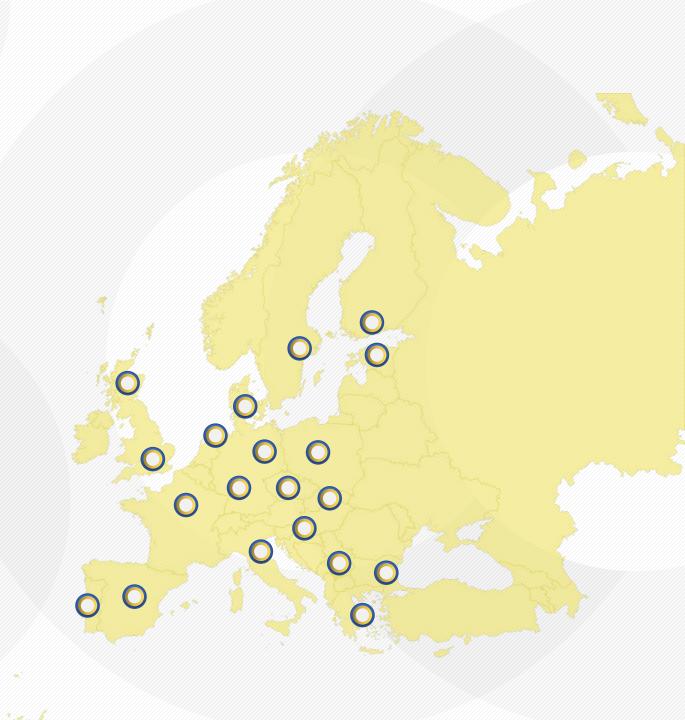
 (e.g. in alignment with national priorities, e.g. Smart
 Specialisation Strategies)
- Joint Research Agendas

Measurable scientific, financial & organizational benefits for each of the participating institutions

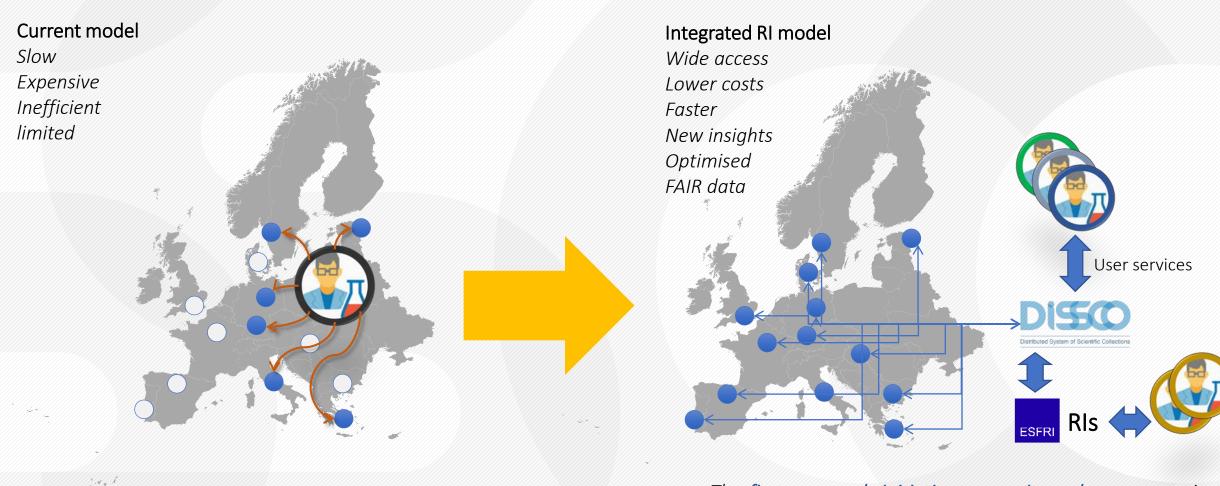


Not all collections are at the same maturity level

- Difference priorities digitization levels
- Different funding sources and business models
- Different policies / practices / workflows



Streamlining access to European collections



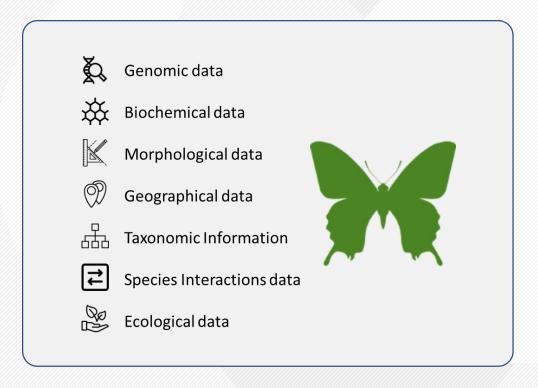
The first mass scale initiative to re-unite and serve genomic, chemical, geographical, morphological and taxonomic information and link it to collections objects

Creating digital curation spaces

Physical Object



Digital Surrogate FAIR Digital Object



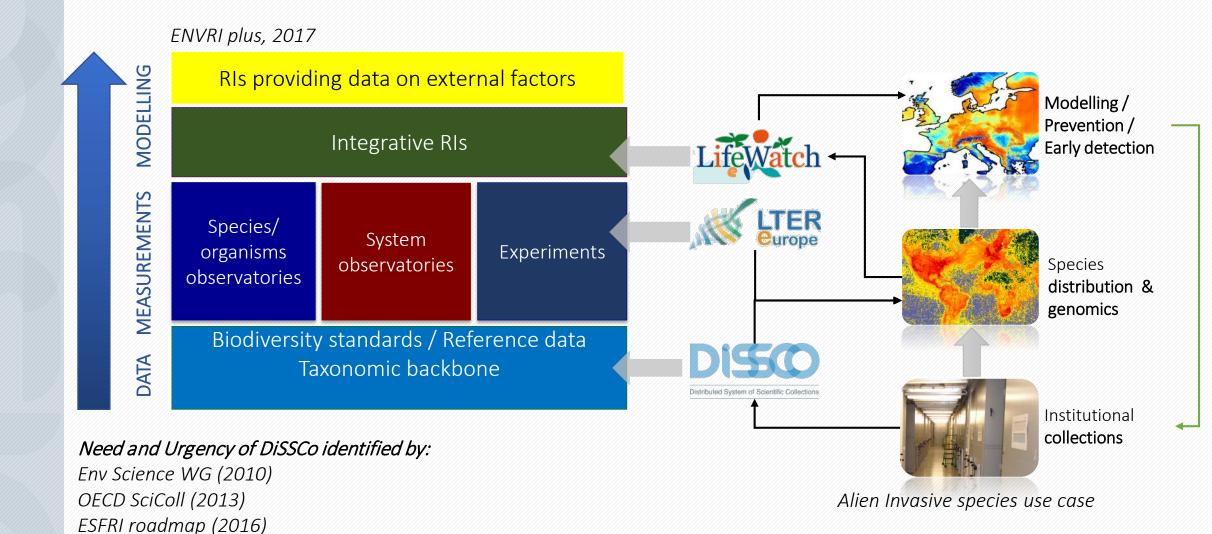
An actionable knowledge unit

Added value of DiSSCo



Without DiSSCo	With DiSSCo
Disconnected information sources	Linked and open information with semantic annotation
Slow and fragmented access	Coordinated physical and virtual access through a single entry point
Bio- and geo-diversity data invisible to other Ris	Cross-disciplinarity facilitated through RI systems interoperability
Provenance and quality difficult to ensure	Provenance and quality assurance embedded in services/processes
Big data science questions unresolvable	Bio- and geo-diversity data brought to the big data pool
Institutional based digitisation activities	Coordinated digitisation programmes: One EU collection
Disconnected efforts	Coordinated investments - Economies of Scale

DiSSCo services to other infrastructures



- DiSSCo delivers services on bio- and geo- diversity reference data to other RIs (especially in the Environmental domain).
- DiSSCo occupies a foundational layer in the Research Infrastructure landscape

DiSSCo service portfolio by 2025



e-Science services

A one-stop shop for services providing unified discovery, access, interpretation and analysis of complex linked data

Physical and remote access services

A universal harmonised physical access service and digitisation on demand service

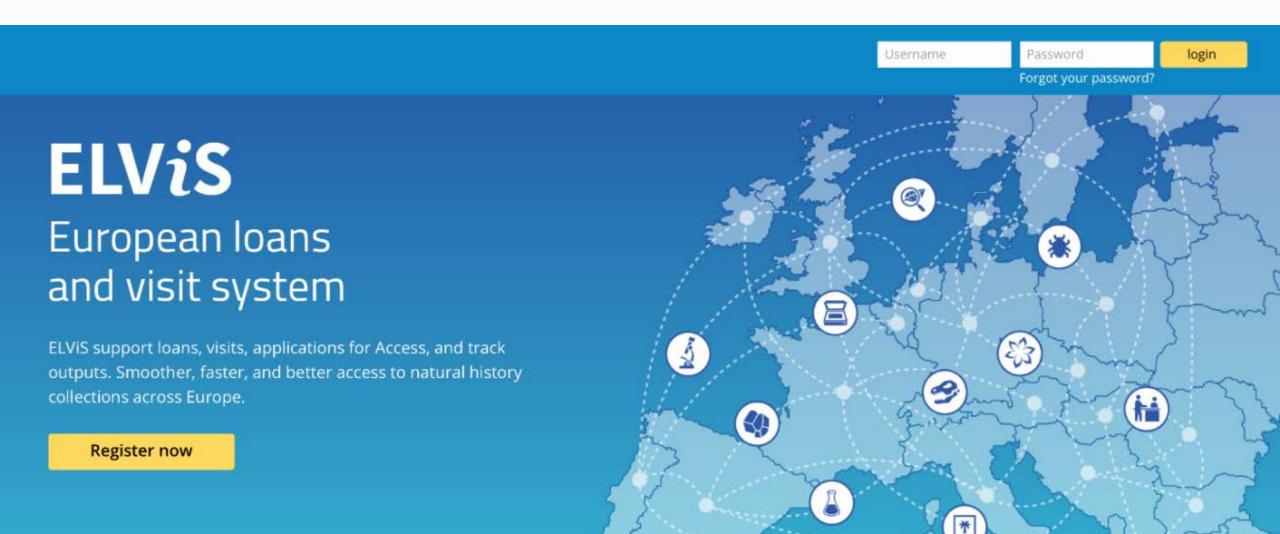
Support & Training services

Integrated user support desk and implementation of multi-modal training programmes to enhance skills & competencies

First products

European Loans and Visits system (ELViS) –

Streamlines physical and digital access and monitors outputs of access events









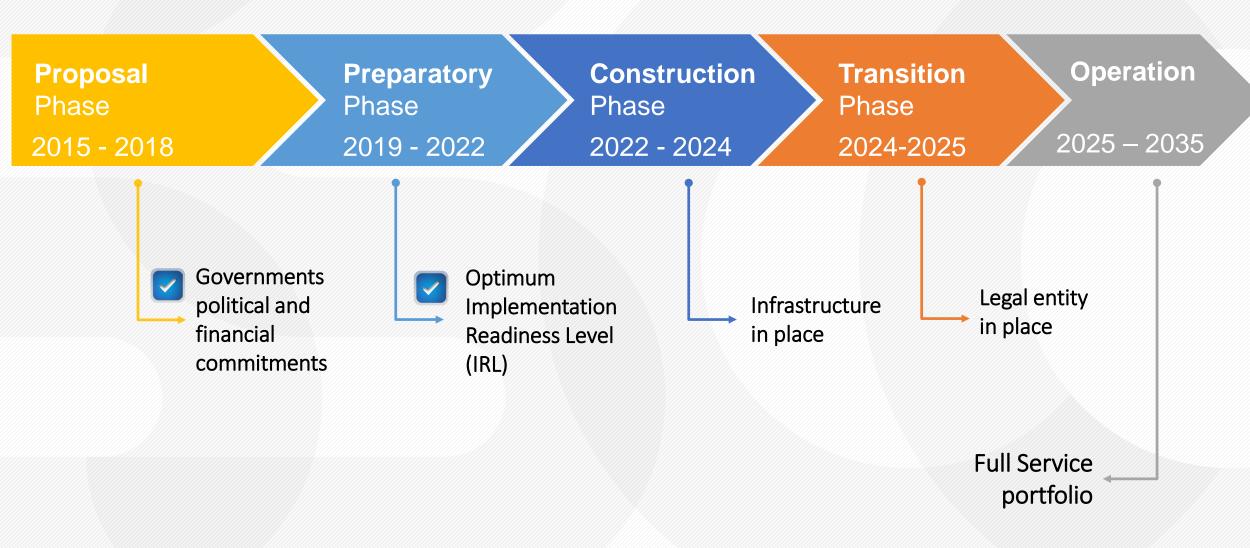
Scotopteryx luridata plumbaria (Fabricius, 1775)

1 2 3 Catalogue Data id: 20.5000.1025/71a37bc0fb81602b141c creationdatetime: 2019-08-06T07:55:11.127Z creator: 20.5000.1025/60c6d277a8bd81de7fdd midslevel: 2 Institution code (GRSciColl): NHMUK Physical specimen identifier: BMNH(E)1613533 Basic Data 3 Regular Data 1 2 3 Extended Data

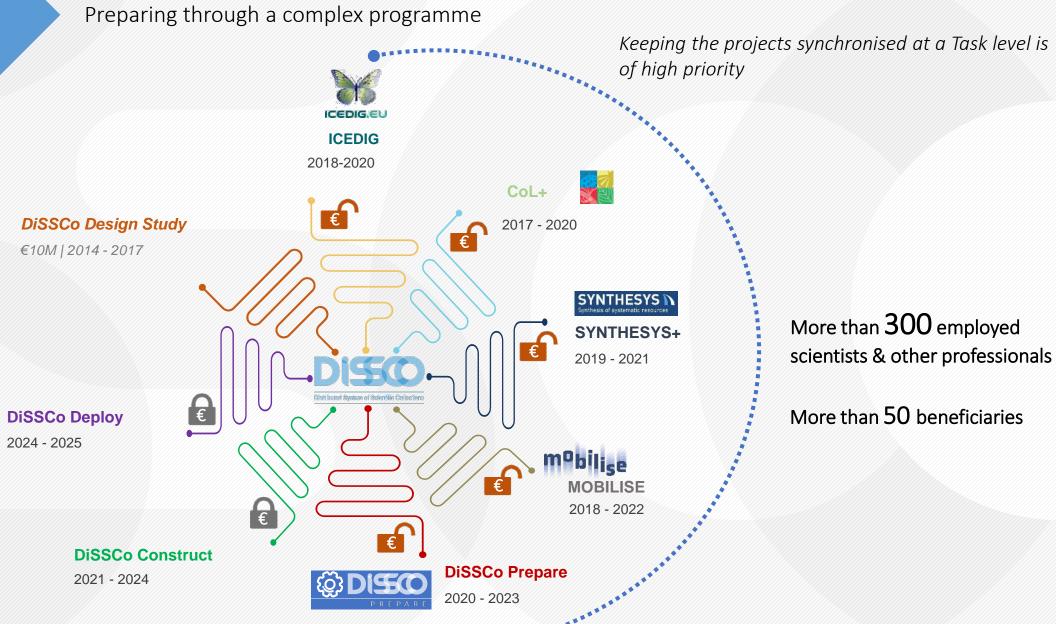
The information is organised in line with the Minimum Information Standard about Digital Specimen (MIDS)

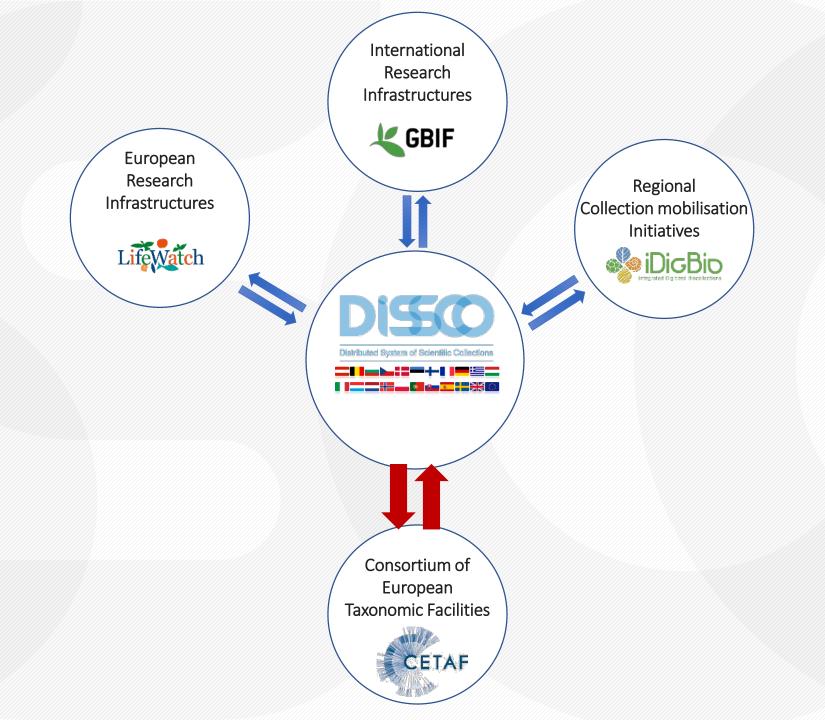


Simple DiSSCo implementation timeline



PreparatoryPhase





DiSSCo Funding Framework

