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2018 Roadmap Launch

DISCO

Distributed System of Scientific Collections





Natural Science Collections support
discovery and modelling of all life on earth

Europe: the global leader

55% of the world's assets with rich historical and global
distribution



*European
Collections:*

1.5 billion specimens

80% of world's species

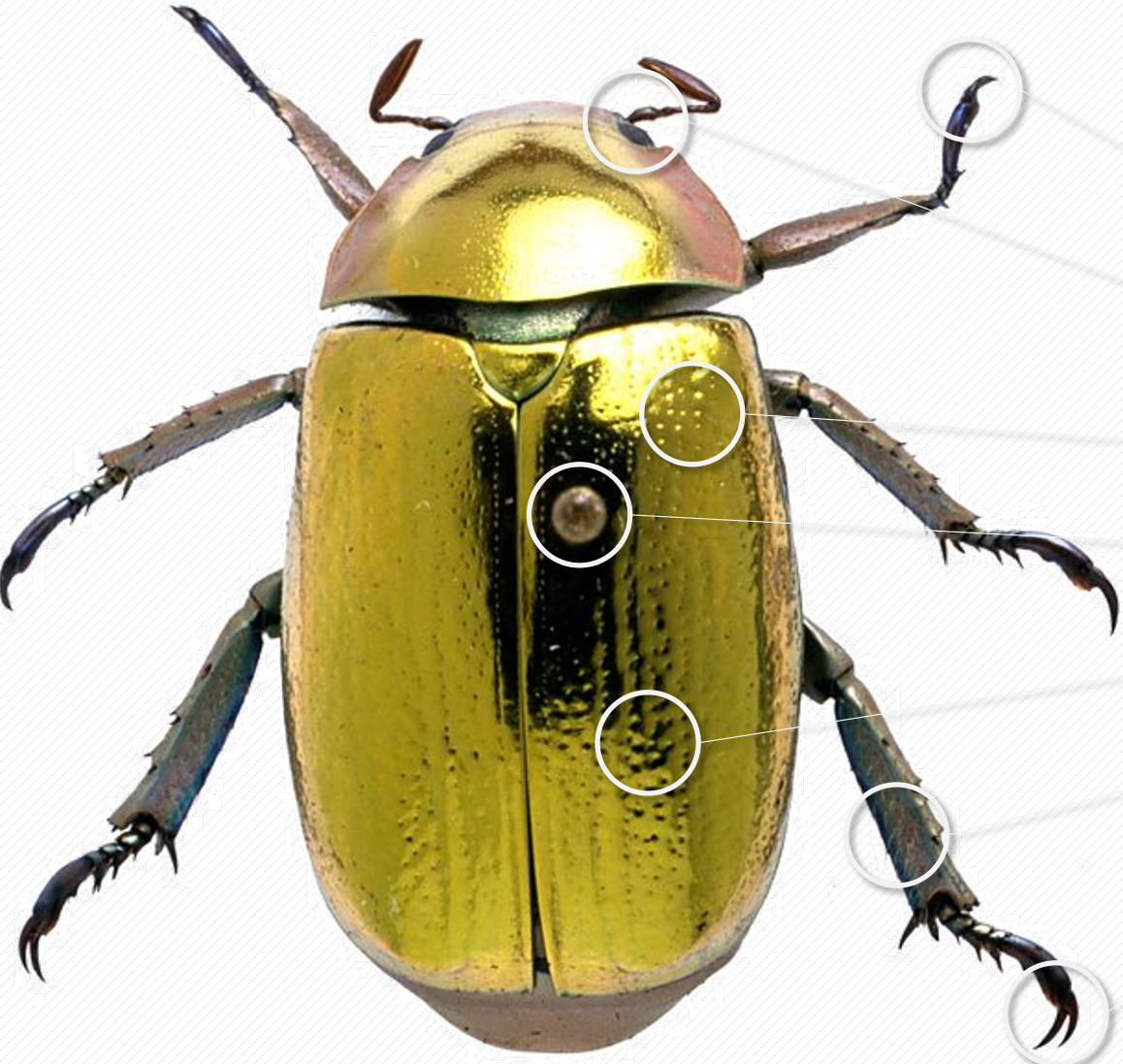
5,000 Full Time Scientists








25,000 scientific visitors pa

10 million public visitors pa

25 million web visitors pa

What's in a Museum specimen?



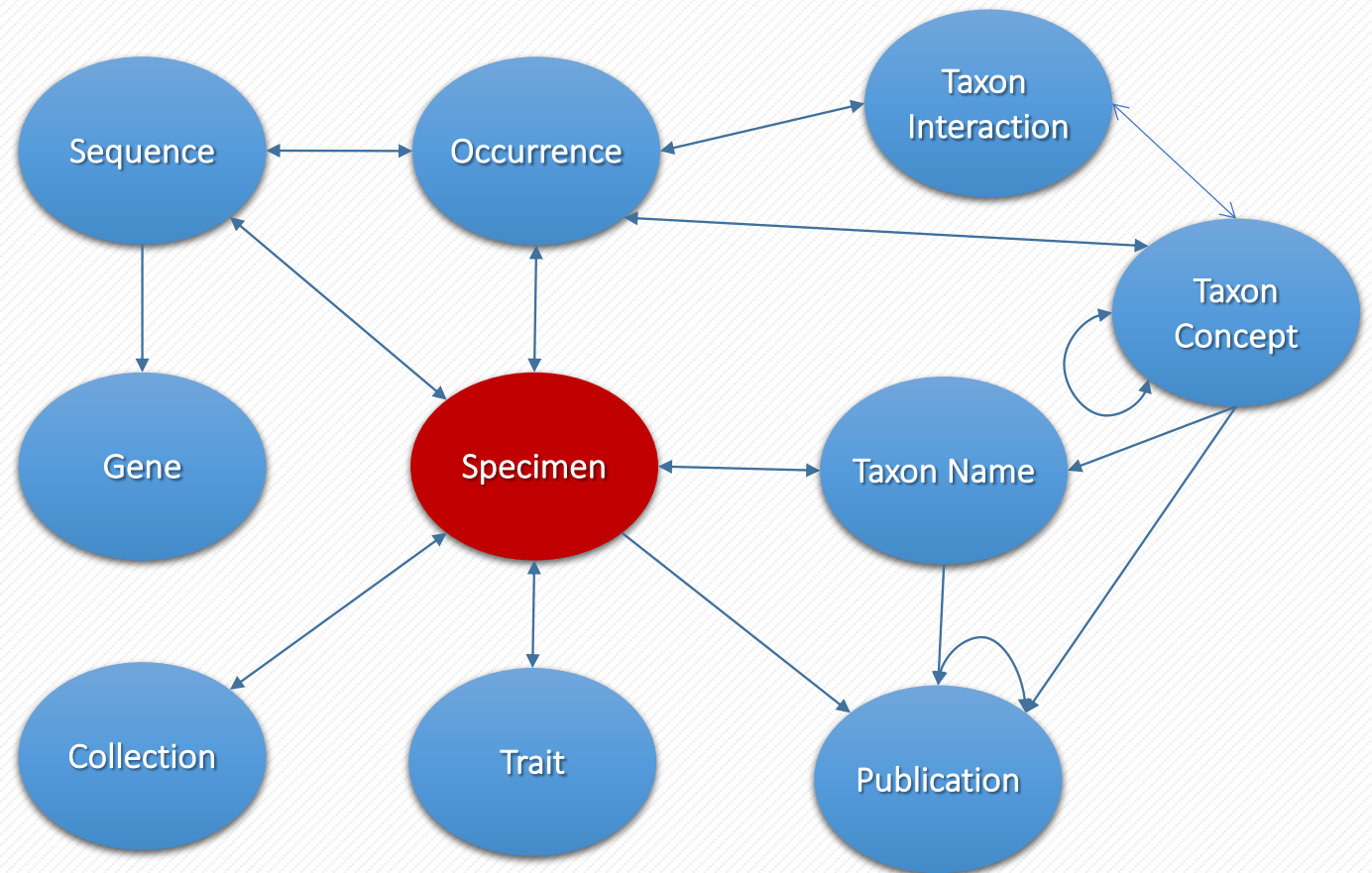
-  Genomic data
-  Biochemical data
-  Morphological data
-  Geographical data
-  Taxonomic Information
-  Species Interactions data
-  Ecological data



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



Specimens at the centre



117 National Facilities 21 Countries

- Largest ever formal agreement between natural science collection facilities
- Centralised shared governance model already in place
- Synchronisation of facilities at accession data and policy level

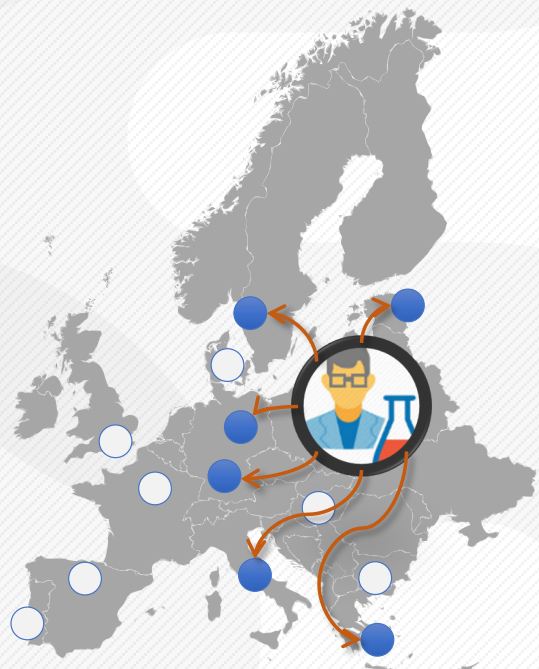
a new business model: ONE EUROPEAN COLLECTION

- 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



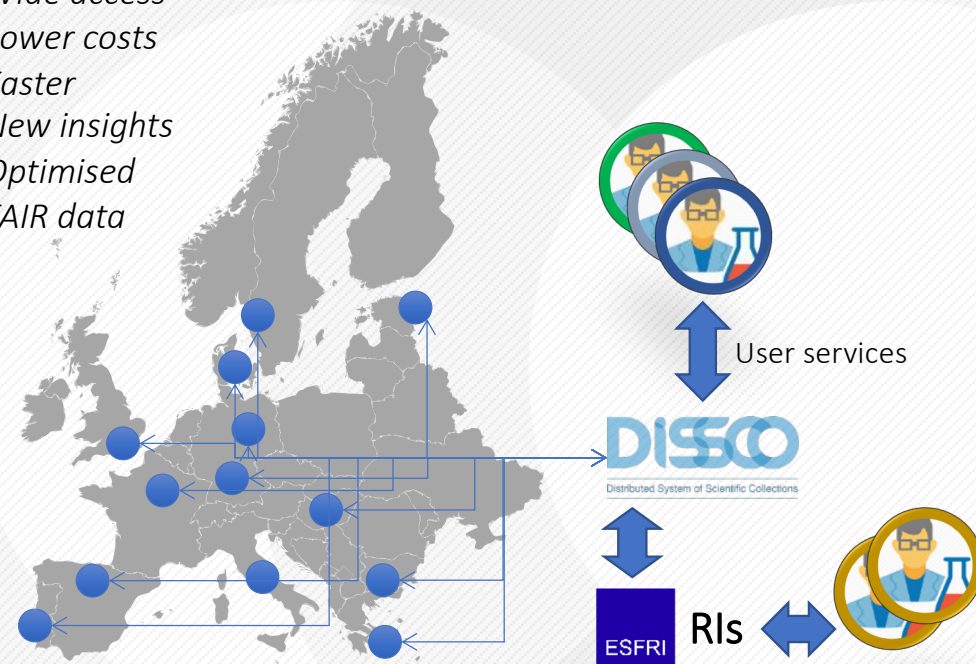
Current model

Slow
Expensive
Inefficient
limited



Integrated RI model

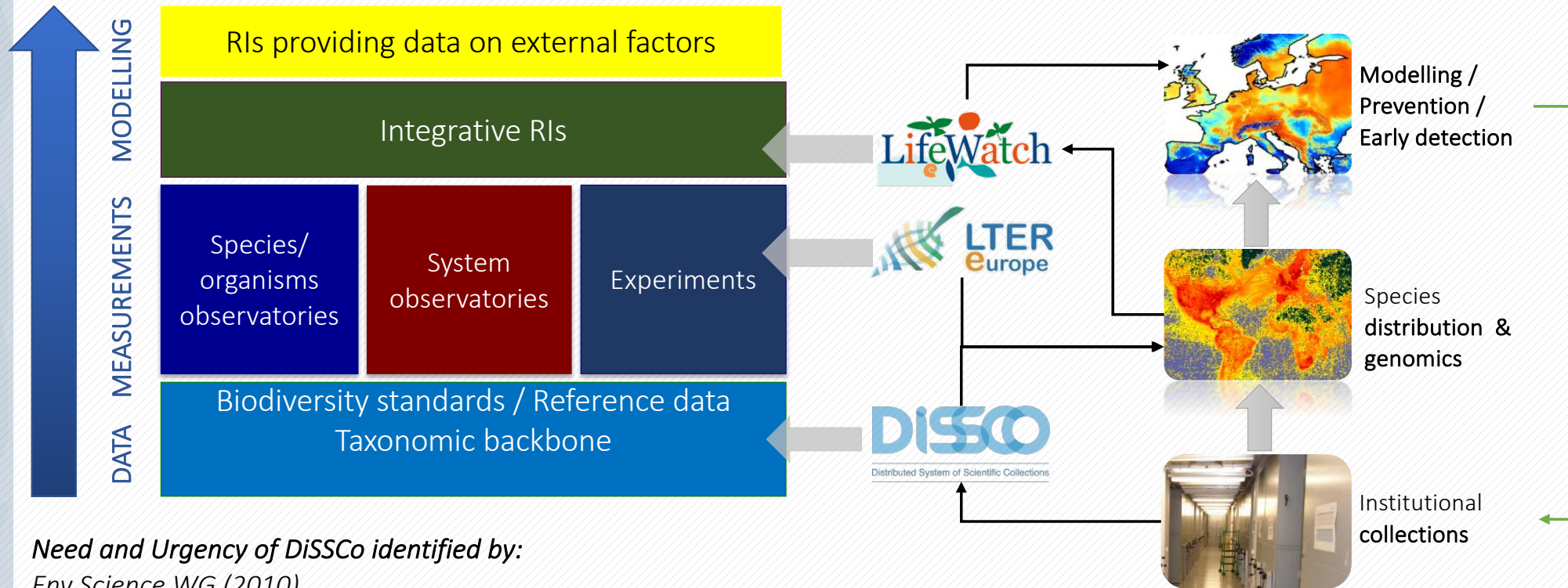
Wide access
Lower costs
Faster
New insights
Optimised
FAIR data



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

DiSSCo services to other infrastructures

ENVRI plus, 2017



Need and Urgency of DiSSCo identified by:

Env Science WG (2010)

OECD SciColl (2013)

ESFRI roadmap (2016)

Alien Invasive species use case

- 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

single
entry point 

1 e-Science services

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

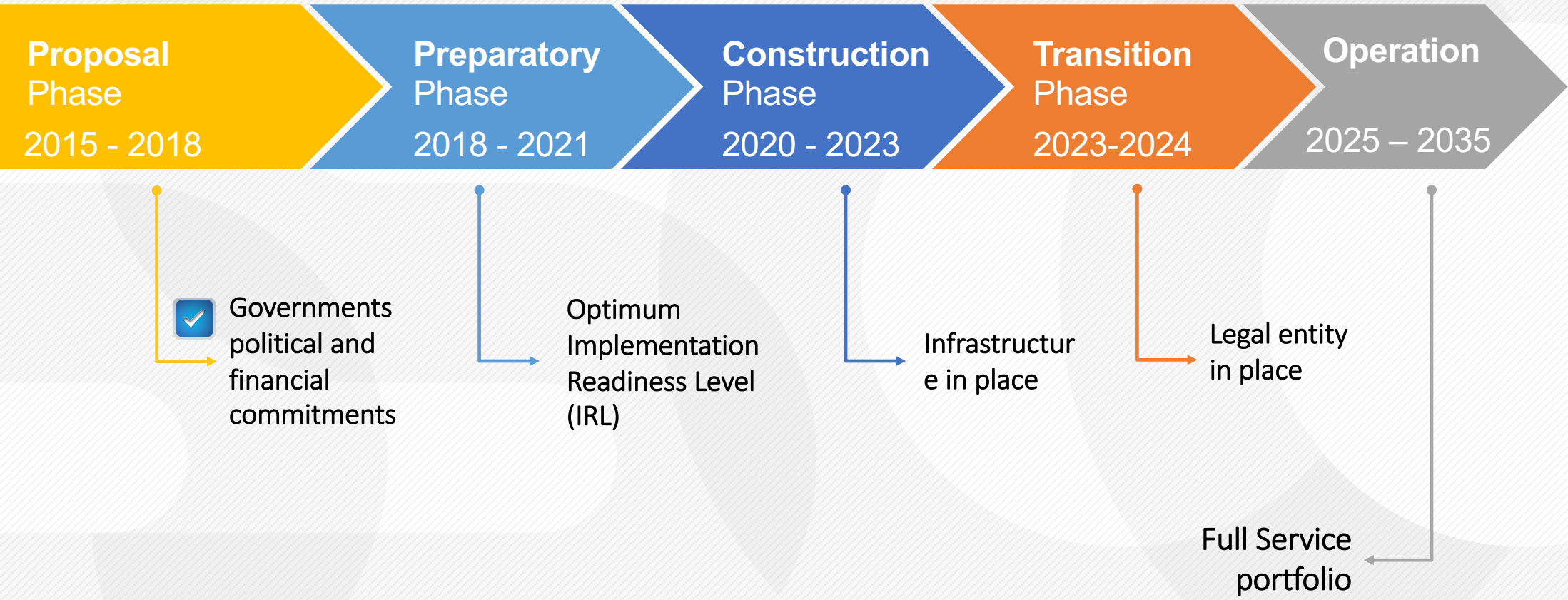
2 Physical and remote access services

A universal harmonised **physical access service** and **digitisation on demand** service

3 Support & Training services

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

Simple DiSSCo implementation timeline



DiSSCo Funding Framework



Institutional funding



European Commission



National funding



14 countries already committed

Financial Resourcing: Aligned Projects

SAP

Strategic
Alignment
of Projects

ICEDIG



Funded by the Horizon 2020
Framework Programme of the
European Union

2018-2020

CoL+



2017 - 2020

DiSSCo Design Study

2014 - 2017

DiSSCo Deploy

2024 - 2025

DiSSCo Construct

2023 - 2025

DiSSCo Prepare

2020 - 2023

SYNTHESYS+

2019 - 2022

MOBILISE

2018 - 2022



DISCO

Distributed System of Scientific Collections

All facets of Partnerships



One world – One collection

Find out more at www.dissco.eu