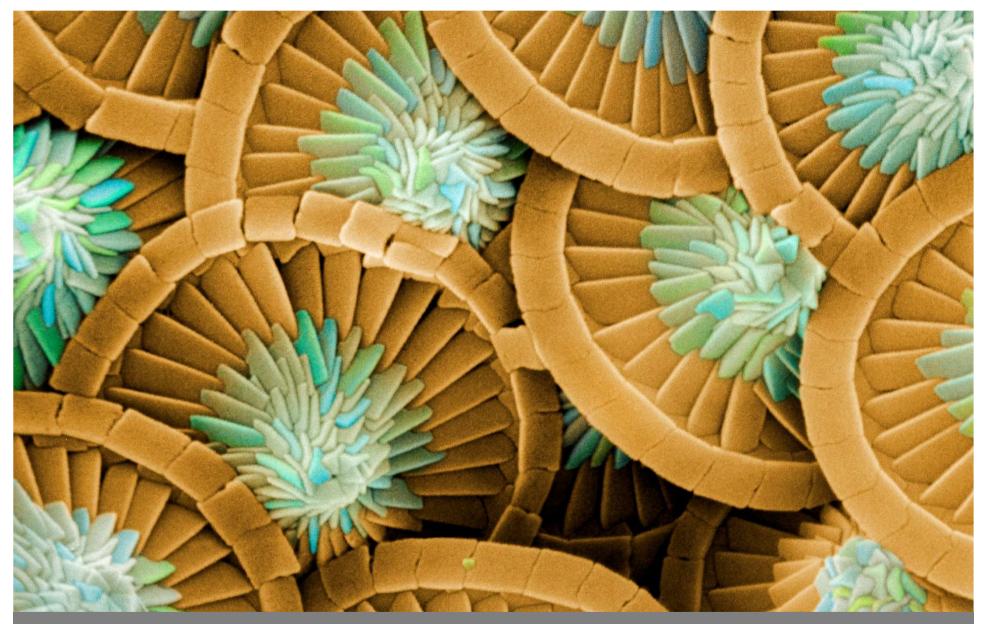


Distributed System of Scientific Collections DissCo Proposal – ESFRI ROADMAP 2018



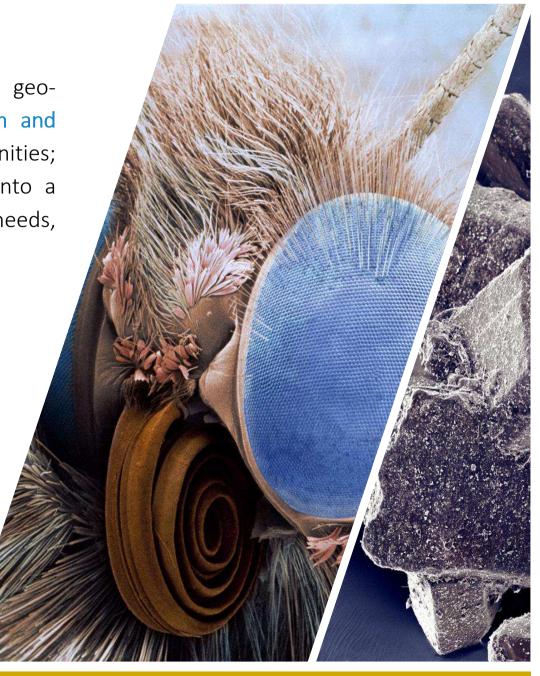
Building the future of Natural History Collections

Mission

Mobilise, unify and deliver bio- and geodiversity information at the scale, form and precision required by scientific communities; transforming a fragmented landscape into a coherent and responsive, to changing needs, research infrastructure.

Vision

Unlock the full potential of natural science collection-derived information as a pillar of scientific innovation and excellence in climate change, food security, health, bio-economy and other key areas of societal interest.





Participation

111 Organizations21 Countries

Dissco represents the largest ever agreement between European natural science collections related institutions

More than **150 individuals** involved in building DiSSCo proposal (incl. 30+ authors and 15 reviewers)

Letters of collaboration have been signed with BHL, Species2000, iDigBio, eLTER



Governmental Support

11 Countries / 2 required



Michelle Price (CJBG), CETAF Chair

DiSSCo, a Gateway to Nature's data Taxonomic skills Data skills **Policies** Analytical skills Access Data **Skills Data**



Labels

Traits •

Imaging

Molecular/chemical •

Spatial/temporal



DiSSCo in the environmental landscape

MODELLING RIs providing data on external factors **Integrative RIs MEASUREMENTS** Species/ **System Experiments** organisms observatories observatories **Biodiversity standards / Reference data** CETAF **Taxonomic backbone** DATA **E-Infrastructures**



DissCo offer of services



Access to collections and data

Less than 10% widely available



Joint research programming

Data-driven innovations



Integration and interoperability

Standards, protocols, workflows



Digital skills and competencies

Training, support awareness







Access to collections and data

No Service class

Indicative services

ACCESS: Mass digitization programmes

OPEN OUR DATA for its use by other science domains and users

Physical (transnational) and digital (virtual) access to collections

- European Collections Data Portal;
- Visualisation and analytics digital services;
- Standing and on-demand digitisation services;
- Transnational access to physical collections services;
- Co-design and co-creation platforms (incl. Virtual Research Environments and citizen science platforms).







Distributed System of Scientific Colle

Joint research programming

No Service class

Indicative services

Joint Research Programming

CONTRIBUTE TO FOSTER INNOVATION

2 Joint Research Programming for datadriven scientific innovation

- Landscape analysis and strategic steering;
- Design and implementation of Joint Research Programming (JRP) activities;
- Resourcing;
- Monitoring and impact assessment.





Services Classes



Integration and interoperability

No Service class

Indicative services

HARMONIZATION: Policies and procedures

FACILITATE THE INTER-CONNECTIVITY for researchers worldwide

A Clearing House mechanisms for all specimen-related data types

Policy harmonisation

- International alignment;
- European policies synchronisation platform.









Digital skills and competencies

No Service class

Indicative services

Digital skills and competences

Community of data providers and a cluster of practitioners

Training, support and engagement

- Development and implementation of standardised training modules on digital skills and competencies;
- User support centres;
- Industrial engagement liaison office;
- Stakeholder engagement office;
- Public outreach and dissemination.



4 DiSSCo governing model

Hub and spoke model



In this model **decisions** over the implementation and operation aspects of provisioned services are **taken centrally**. **Resources**, however, are handled by the national nodes (or facilities) in a **distributed manner**.

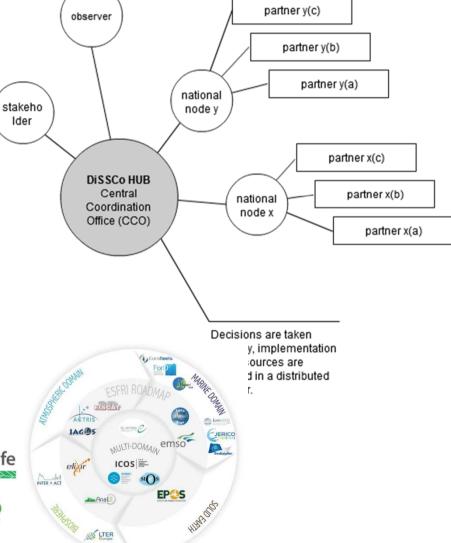
A central facility/headquarters retains part of the invested resources to support its coordination mission

In support of DiSSCo

ICEDIG MOBILISE SYNTHESYS

• • •

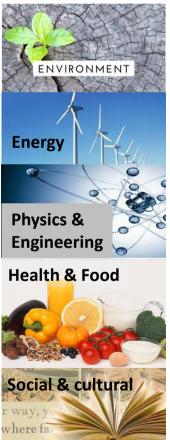






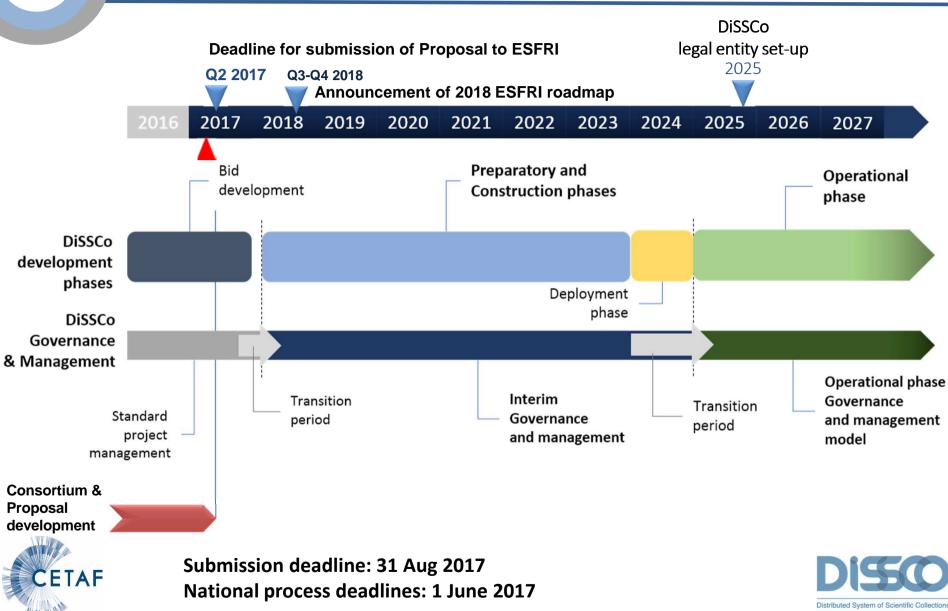
- ESFRI is **not a EU institution** but is run by the **member states**. Thus, one country needs to officially submit a proposal
- Following the leadership of NATURALIS and The Netherlands as leading country of the proposal, the **Dutch ESFRI Delegation was** engaged to submit the DiSSCo proposal to the ESFRI Forum
- DiSSCo was submitted on the 31 August 2017
- 2 proposals were submitted (DISSCo, eLTER) for 2 open spots in the environmental domain





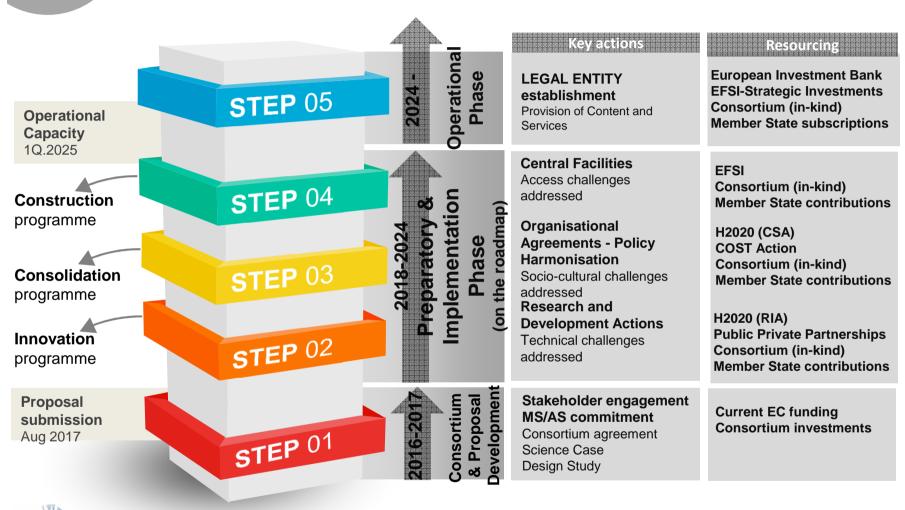


DiSSCo Project development timeline



7

DiSSCo Project development process





ETAF

DiSSCo Project development costs

Preparatory, Construction and Operational estimated costs



Design Study (& Proposal preparation) already invested

€10M (€0.6M)



Capital Investment
Preparatory & Construction phases
55% already committed

ca. **€110M**



Operational phase

ca. **€9M**/year



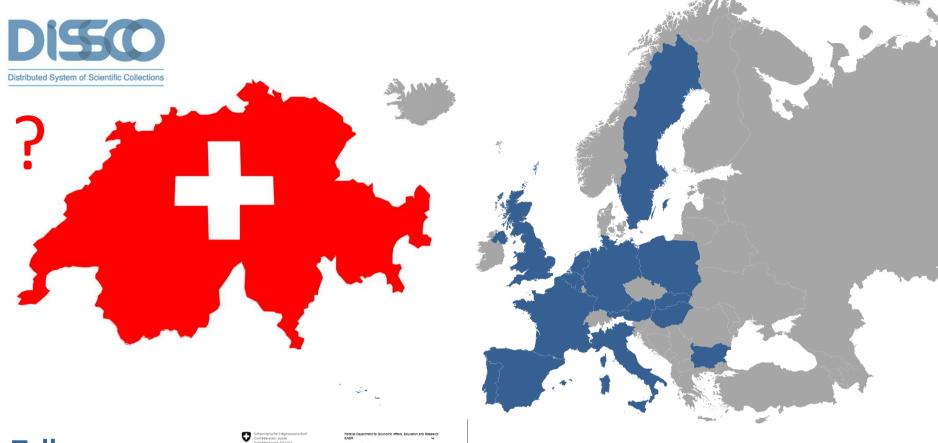
2018



CETAF full member of DiSSCo

CETAF represents the interest of the entire community and its shared goals in the development of the DiSSCo proposal





Talk
Mobilize
Collaborate
Lobby

Schwarzeriche Edgrassusenhalt
Certifferation union
Certifferation union
Certifferation regis
Certifieration regis
Certifferation regis
Certifferation regis
Certifieration regis
Certifferation regis
Certifieration regis

https://ec.europa.eu/research/infrastructures/ind ex_en.cfm?pg=esfri-national-roadmaps

-> Swiss NHC Research Infrastructure for Natural History Collections



Distributed System of Scientific Collections

