International Opportunities for Expanding Our ADBC Reach

Part I of: *Evolving relationships plenary session*

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ADBC Summit 8, Oct 1-3, 2018

@idbdeb @DimitrisKoureas @vsmithuk

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2019 OPEN DIGITAL SCIENCE WEEK ON BIOLOGICAL & GEOLOGICAL DIVERSITY

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better Data - better Science - better Policies

Jointly organised by

Biodiversity Information Standards TDWG

GBIF Global Biodiversity Information Facility

CETAF Consortium of European Taxonomic Facilities

DiSSCo Distributed System of Scientific Collections

iDigBio Integrated Digitized Biocollections

21-25 October 2019

Leiden, NL

Hosted by Naturalis Biodiversity Center

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Who should attend?

- **early career and established scientists** working in data-intensive disciplines of biological and geological diversity science
- **Informaticians / data experts**
- **data managers**
- **e-infrastructure** operators
- **science policy** makers

Disciplines covered?

All data-intensive biodiversity and geodiversity disciplines, including (but not limited to):

e-taxonomy, biodiversity and ecological informatics, biodiversity and geodiversity data standards, natural science collections information, citizen science, etc.

A milestone event with more than 600 delegates expected

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Innovative formats

Including

High profile keynotes
TED-style talks
Elevator pitches competition
Live debates

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DiSSCo

Distributed System of Scientific Collections

115 National Facilities

21 Countries

- **Largest ever formal agreement** between natural science collection facilities
- **A system of distributed facilities**
- **Centralised shared governance** model in place
- Supporting network of **working groups**

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**

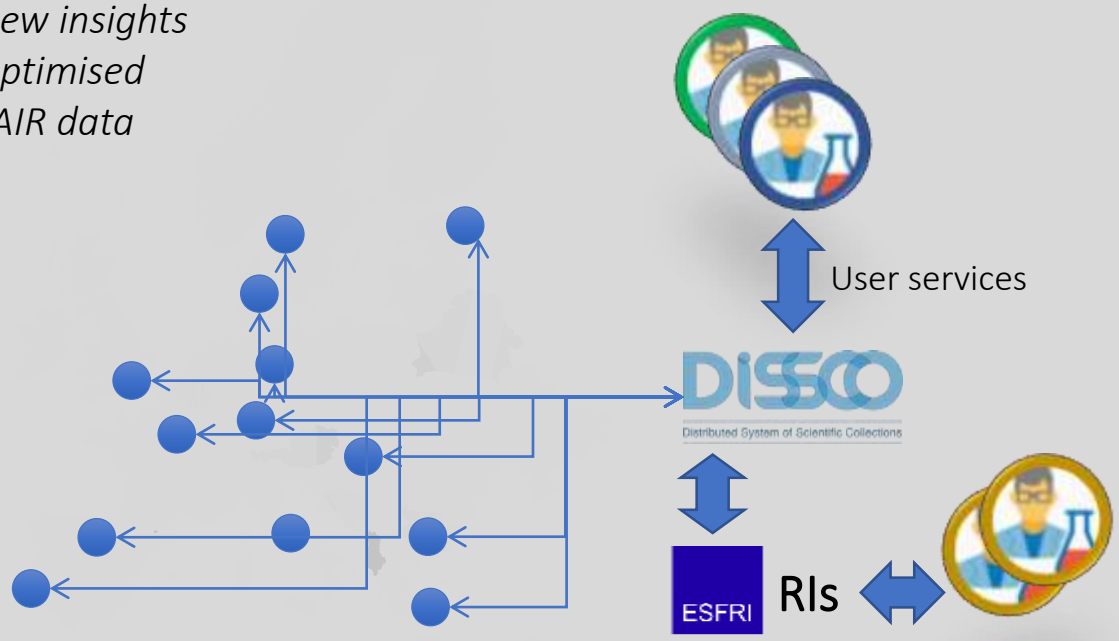
Find out more at www.dissco.eu

ESFRI 2018 Roadmap Launch

Current model
Slow
Expensive
Inefficient
limited

Example of current mode of operandi
***25,000 researchers** travel every year to physically access scientific collections and **800k objects** are packed and shipped (at an annual public cost of more than €70M)*

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

Informing

DiSSCo
Distributed System of Scientific Collections

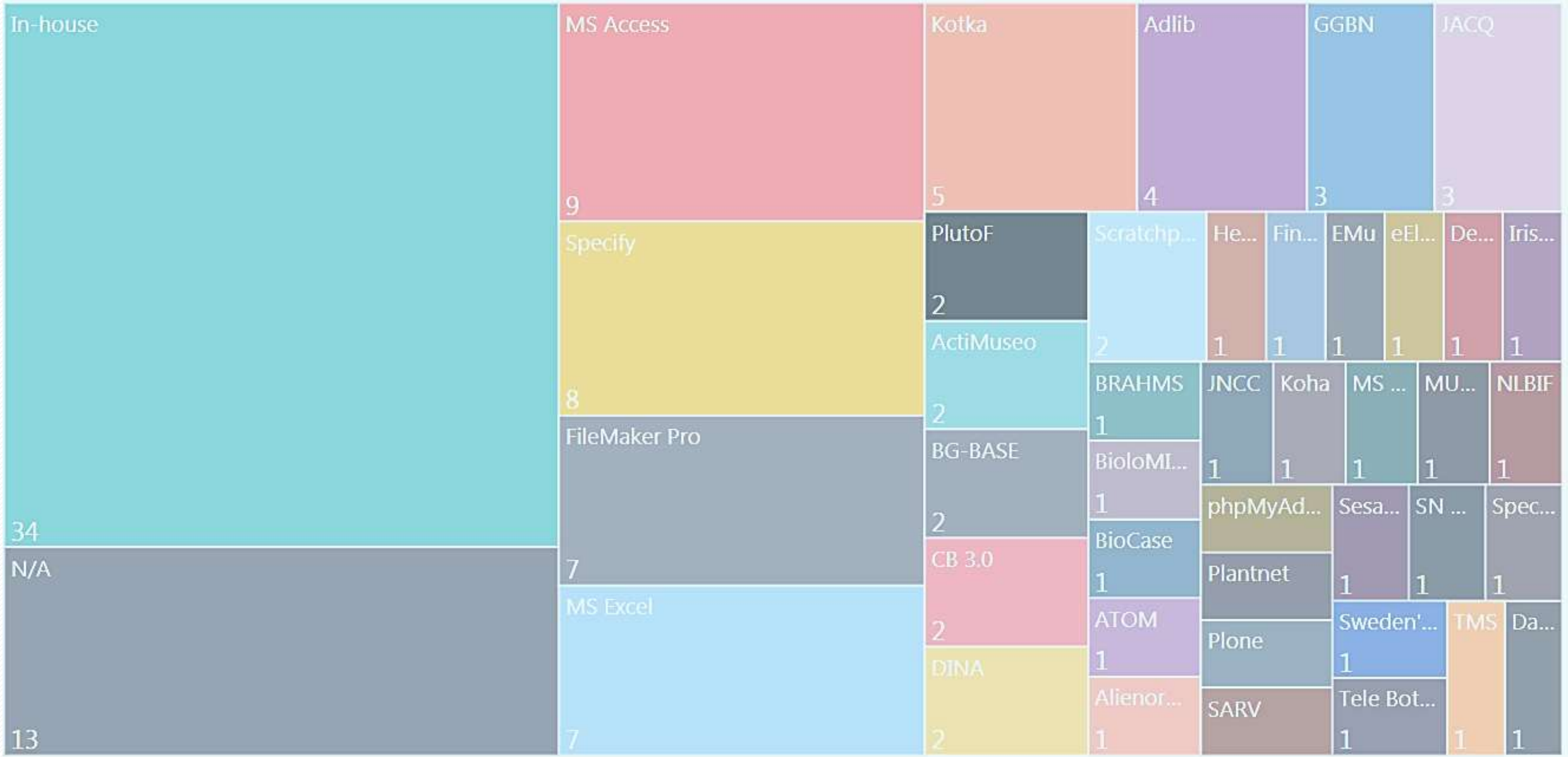
SYNTHESYS
Synthesis of systematic resources

working groups

Topic	Lead person / institution
Management	Kari Lahti (University Helsinki)
Scientific and societal needs for digitised data	Luc Willemse (Naturalis)
Imaging and other physical extraction	Picturae BV – The Netherlands
Data capture	Quentin Groom (APM)
Citizen science	Veljo Runnel (UTARTU)
Data infrastructure	Alex Hardistry (U Cardiff)
Policy and legal aspects	Vince Smith (NHM)
Design alternatives and economics	Alex Hardisty (U Cardiff)
Communication and dissemination	Ana Casino (CETAF AISBL)
Ethics requirements	Kari Lahti (University Helsinki)

DiSSCo
Distributed System of Scientific Collections

Collection Management Systems (CMS)



About SYNTHESYS+ an EU NH Consortia

Who

- NHM Leads:
  - Vince Smith, SYNTHESYS Coord.
  - Kristina Gorman, Project Mgr.
- €28.2m since 2004
- SYNTH+ €10m Aug. 2018
- Goals aligned with DiSSCo ESFRI initiative

What

- Common themes
  - **Access, Networking, Research**
- example – collections digitization dashboard
- example – Specimen Data Refinery - AI toolkit to automate extraction of specimen data & traits
- example – ELViS
- example – DoD

Linked with DiSSCo goals & supported by CETAF, GGBN, TDWG & GBIF

Kiitos paljon, Kia ora, Merci, Obrigado,
Gracias, Vielen Dank, 谢谢, Thank you!

Looking forward to your input for all of these and hope to See You at biodiversity_next!

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