ICEDIG

LARGE-SCALE DIGITISATION OF NATURAL HERITAGE

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Slides by LEIF SCHULMAN, FI

Innovation and consolidation for large scale digitisation of natural heritage ICEDIG

Call: H2020-INFRADEV-1-2017 (Development and long-term sustainability of new pan-European research infrastructures), as a RIA Action

Date of submission: 29 March 2017

Term: 27 months

Total Budget: 2.99 M€

Objective: To promote new research and technological innovation required to solve the challenges of digitising and seamlessly accessing over one billion objects, which will form a data pool of petabyte scale.

Project Coordinator: Finnish Museum of Natural History LUOMUS

Partners: Coordinator +11 partners from 6 other European countries, including CETAF and SEM

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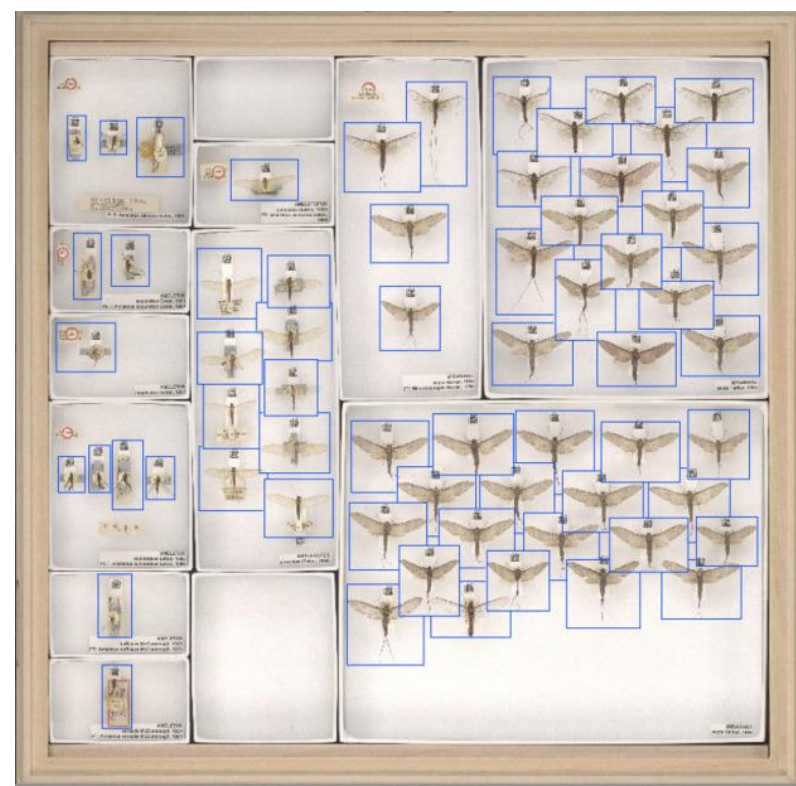**Project Coordinator:** Finnish Museum of Natural History LUOMUS
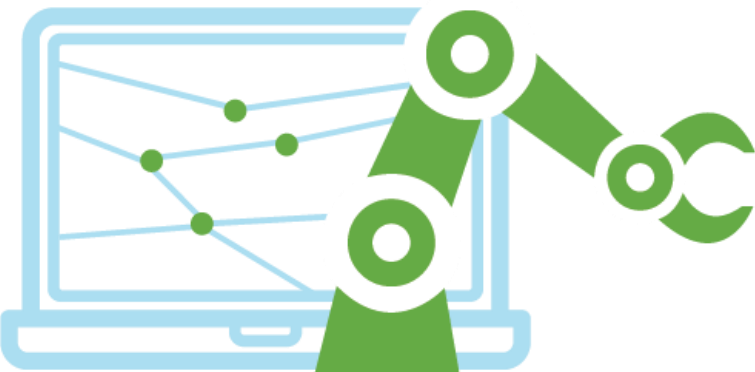**Partners:** Coordinator +11 partners from 6 other European countries, including CETAF and industry

APPROVED

WHAT IS **ICEDIG**?

- Premise: Only around 10 % of natural sciences collections have been digitally catalogued and 1-2 % imaged

- Scale and complexity of digitising and providing access → technological, socio-cultural, and organisational **capacity enhancement** required.

- Challenges of efficiently digitising and seamlessly accessing the collections → **new research and technological innovation** required
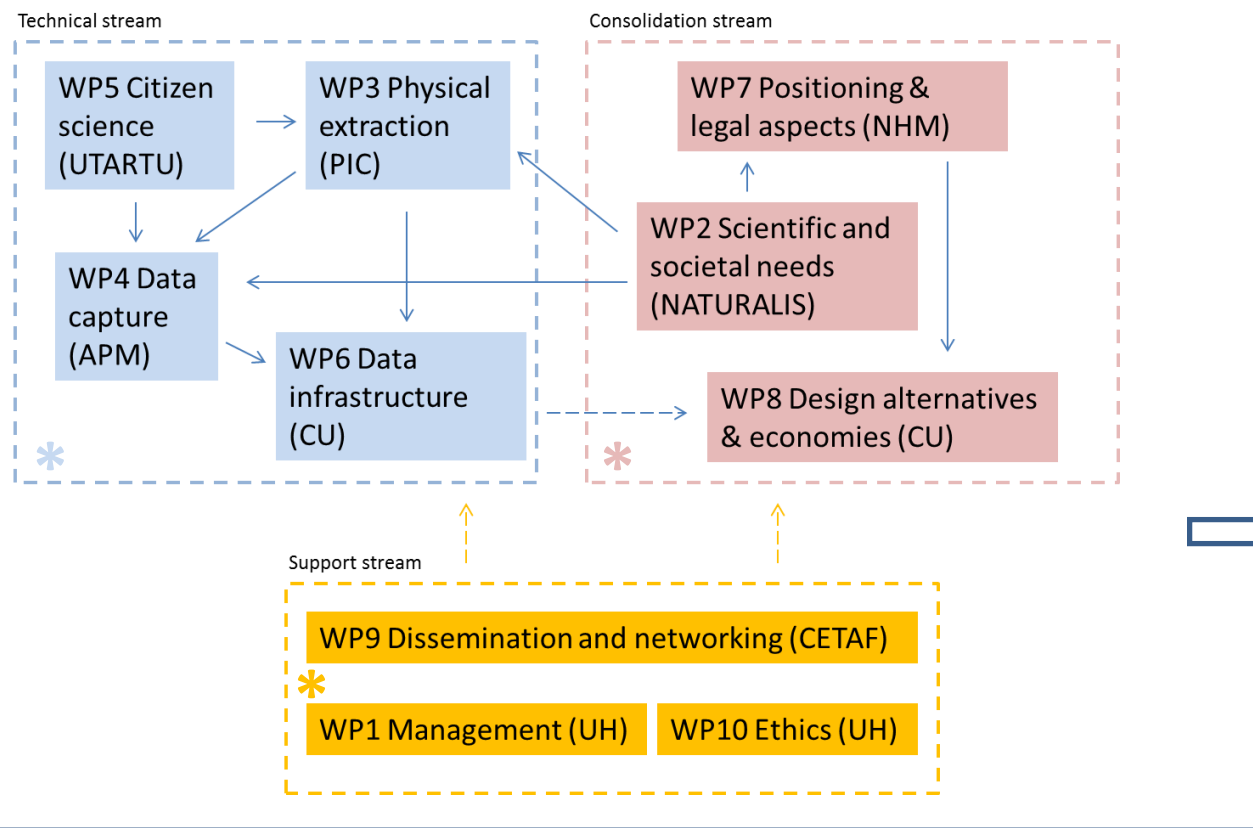

Tray of mayflies (Ephemeroptera) with bounding boxes from the Inselect programme at NHM
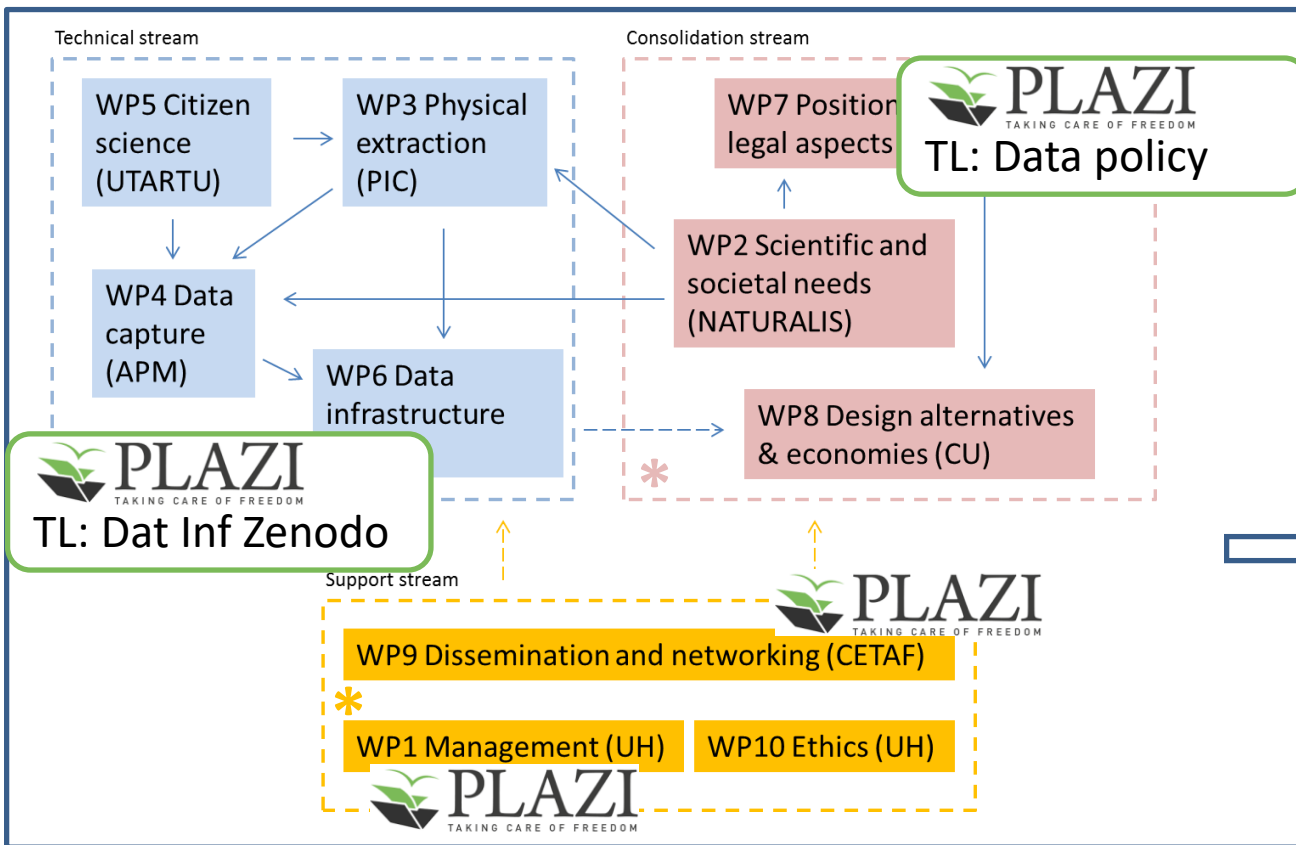

ICEDIG will **design** all necessary **technical, financial, policy and governance** aspects **for** developing and operating **DiSSCo** (*prototypes, blueprints, novel workflows, new industry partnerships, and citizen involvement models*)

ICEDIG work packages and their linkages

- **Technology stream:** Innovations to digitize a significant part of the 1.5 billion objects in a foreseeable future, at acceptable cost, and to manage petabyte-size data.
- **Consolidation stream:** Develop a shared governance model to support all aspects of service unification *(implementation of open access principles, incentive schemes, planning and prioritization, capacity development, etc.)*
- **Support stream:** Ensure embedding the project into the infrastructure conceptual and governance design; administration; communication.

ICEDIG work packages and their linkages

Technical stream

- WP5 Citizen science (UTARTU)
- WP3 Physical extraction (PIC)
- WP4 Data capture (APM)
- WP6 Data infrastructure

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TL: Dat Inf Zenodo

Consolidation stream

- WP7 Position legal aspects
- WP2 Scientific and societal needs (NATURALIS)
- WP8 Design alternatives & economies (CU)

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TL: Data policy

Support stream

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- WP9 Dissemination and networking (CETAF)
- WP1 Management (UH)
- WP10 Ethics (UH)

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DiSSCo preparatory/ implementation phase

- ✳ <u>Technology stream:</u> Innovations to digitize a significant part of the 1.5 billion objects in a foreseeable future, at acceptable cost, and to manage petabyte-size data.
- ✳ <u>Consolidation stream</u>: Develop a shared governance model to support all aspects of service unification *(implementation of open access principles, incentive schemes, planning and prioritization, capacity development, etc.)*
- ✳ <u>Support stream:</u> Ensure embedding the project into the infrastructure conceptual and governance design; administration; communication.

Partners:

Project Coordination:
Leif Schulman, Kari Lahti
& Hannu Saarenmaa

ICEDIG
NEXT STEPS:

Grant Agreement: Expected for November 2017

Publicity material: logo and website: http://ICEDIG.EU

Starting date: January 2018 (27 months)

Kick-Off Meeting: Montpellier, FR (15-16 January 2018)

Opening Conference: Helsinki, FI (5-6 March 2018)

For further questions about ICEDIG and DiSSCo

Ana Casino (CETAF): acasino@naturalsciences.be
Donat Agosti (Plazi): agosti@plazi.org

Thank you!

Donat Agosti
agosti@plazi.org