



ICEDIG

Innovation and consolidation for large scale digitisation of natural heritage



The Details

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

Term: 27 months

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, Leif Schulman **Partners:** Coordinator +11 partners from 6 other European countries, including CETAF and Picturae

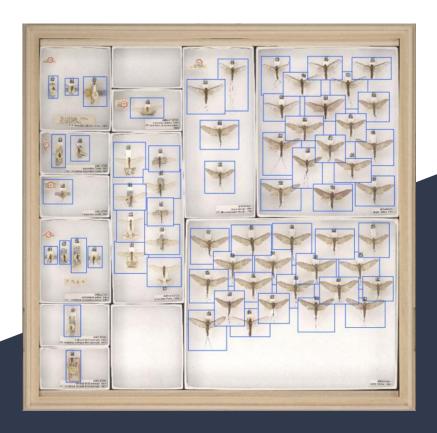






WHY ICEDIG?

- Only around 10% of collections have been digitally catalogued and 1-2% imaged
- Scale and complexity
 - Technological issues
 - Socio-cultural issues
 - Organisational issues
 - Capacity issues

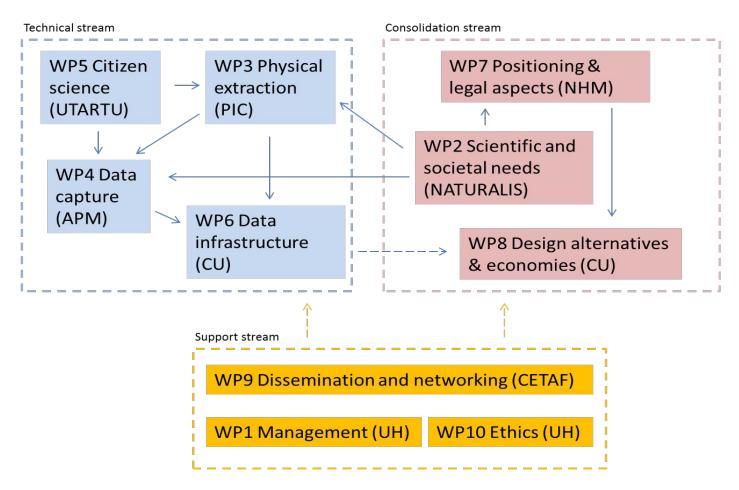


Efficiently digitising and making those data accessible

New research and technological innovation











The technical stream

WP3 - Imaging and other physical extraction

Lead - Picturae



- Task 3.1: Automated mass 2D imaging
- Task 3.2: Automated mass 3D imaging
- Task 3.3: Potential of robotics and automated warehousing
- Task 3.4: Image quality control



WP4 - Data Capture

Lead: Botanic Garden Meise



- Task 4.1 Methods for automated text digitisation
- Task 4.2 Data quality, verification, validation and enrichment of data
 - o Transcription methods
 - Georeferencing methods
 - Linking to nomenclature
 - O How do we assign work?
- Task 4.3 Interoperability with institutional collection management systems
- Task 4.4 A cost analysis of transcription systems



WP5 - Citizen science

Lead: University of Tartu



- Task 5.2: Working with citizens to transcribe and enrich data
- Task 5.3: Digitisation of small collections
- Task 5.4: Improving the detection of collection-based citizen science projects



WP6 - Data infrastructure

Lead: Cardiff University



- Task 6.1 Open access and data management plan
- Task 6.2 Requirement analysis for DiSSCo data infrastructure
- Task 6.3 Evaluation of EOSC-provided core services







The consolidation stream

WP2 - Scientific and societal needs for digitised data

Lead - Naturalis



 Task 2.1: Inventory of current criteria for prioritization of digitization
 Task 2.2: Inventory of content and incentives for digitisation of small and private collections
 Task 2.3: Design of a collection digitization dashboard



WP7 - Policy and legal aspects

Lead: Natural History Museum, London



- Task 7.1: Identification, consolidation and harmonisation of national and European policy / legal frameworks
- Task 7.2: The development of a common digital research agenda
- Task 7.3: International convergence



WP8 - Design alternatives and economics

Lead: Cardiff University



- Task 8.1: Social effects and capacity building
- Task 8.2: Making organizational and partnership design choices
- Task 8.3: Making technical design choices
- Task 8.4: Gathering costs of construction and operation
- Task 8.5: Governance and business model







The support stream

WP9 -Communication and dissemination

Lead: CETAF



- Task 9.1: Establishment of the engagement strategy
- Task 9.2: Operation of the communication and dissemination platforms
- Task 9.3: Deployment of networking actions
- Task 9.4: Link with cultural heritage
- Task 9.5: Liaising with the research infrastructure landscape



Transforming Natural Science Collections for the Digital Age

ICEDIG Opening Conference



Where: Helsinki, Finland

When: 5 – 6 March 2018

Hosts: Helsinki University, Finnish

Natural History Museum Luomus

Venue: Economicum











Project Coordination:

Leif Schulman, Kari Lahti & Hannu Saarenmaa









UNIVERSITY OF HELSINKI

















LUOMUS





Ana Casino & Karsten Goedderz of CETAF