

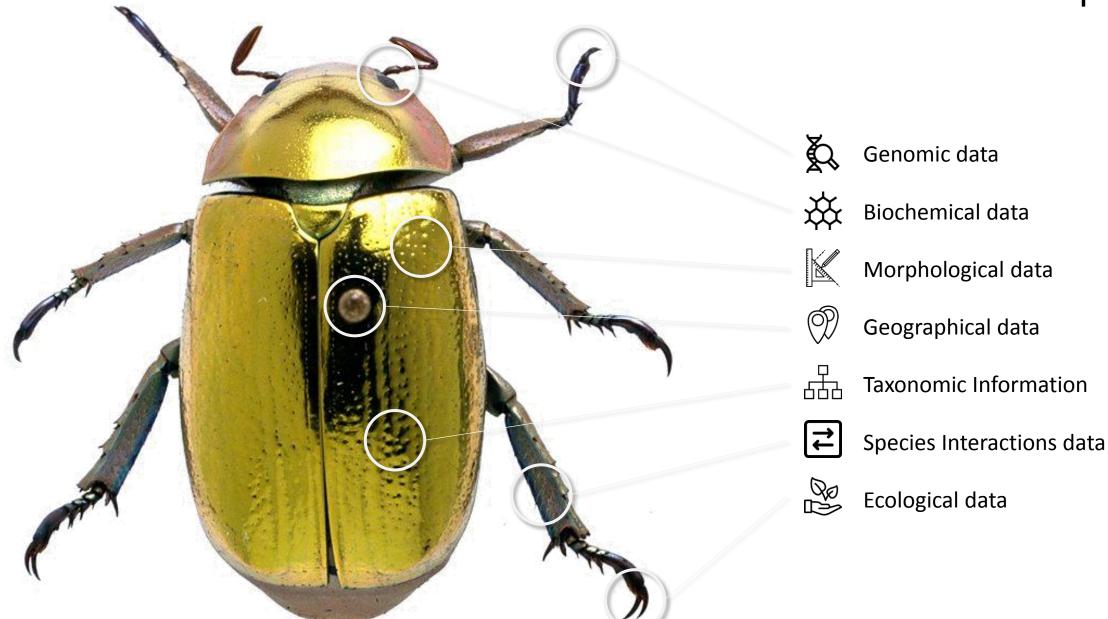
Digital Object Cloud for linking natural science collections information;

The case of DiSSCo

Dimitris Koureas

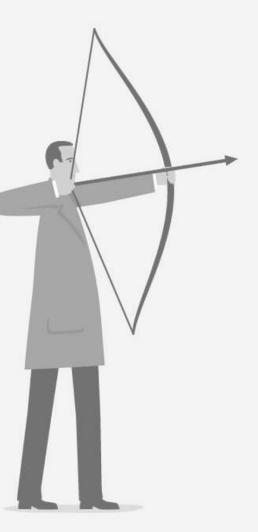
Director of International Biodiversity Infrastructures, **Naturalis Biodiversity Center**Coordinator, Distributed System of Scientific Collections (**DiSSCo**)

What's in a Museum specimen?









Trust lost when datasets disconnect from:

context in which they were created, or communities who created them.



GBIF

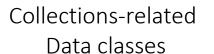


GloBI

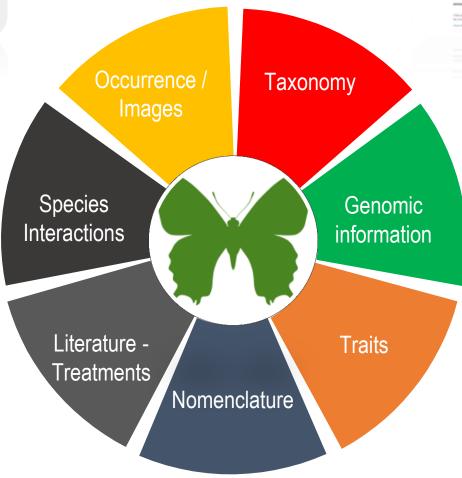


Plazi – TreatmentBank





Re-unite and Serve

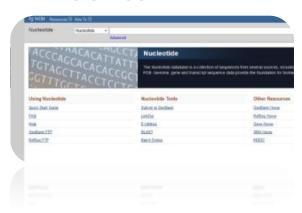


IPNI / Zoobank

Catalogue of Life



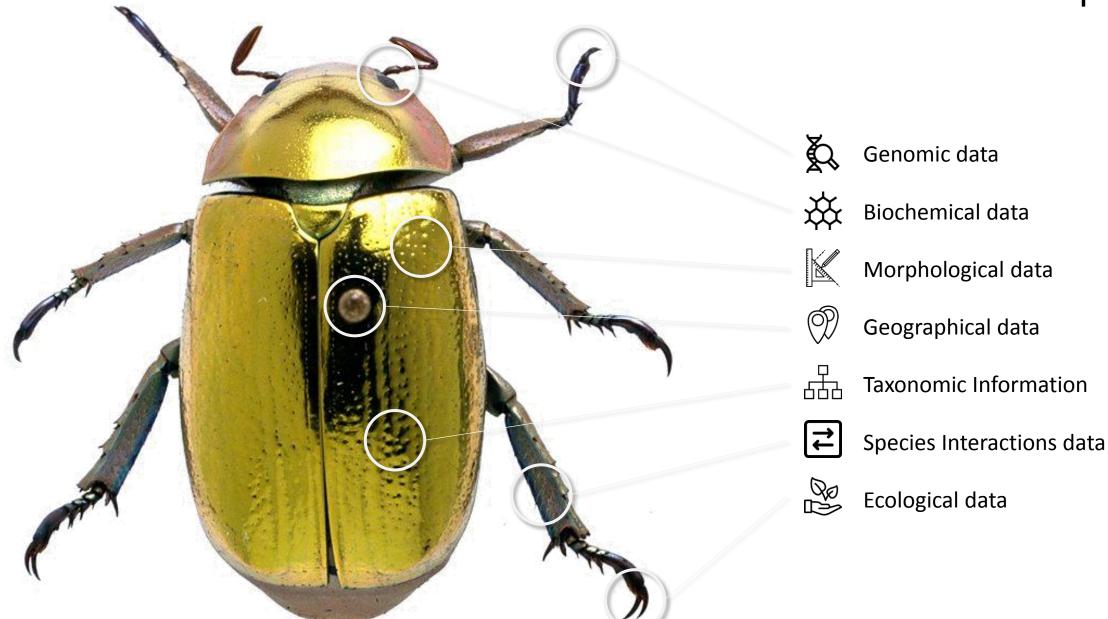
Genbank



EoL - TraitBank

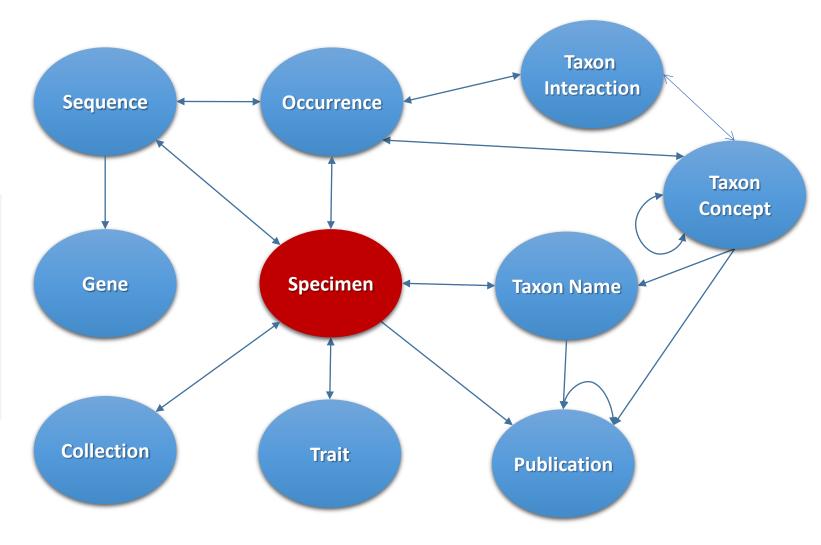


What's in a Museum specimen?





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

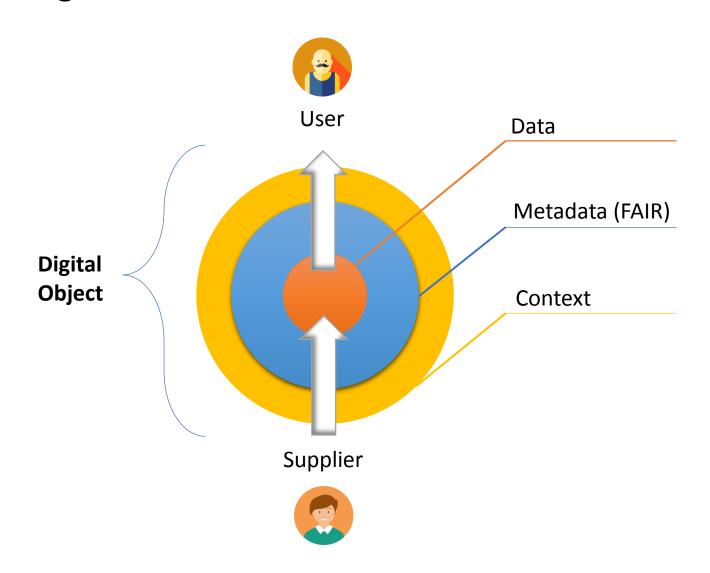


Specimens representations become the centrepiece of the DiSSCo knowledge base – They are used as anchoring points for disperse data classes

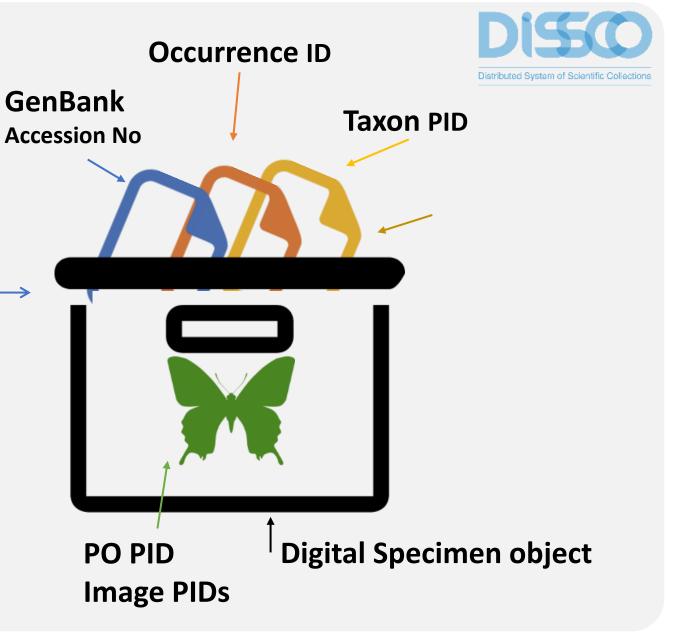
Transforming digital entities to meaningful entities

Need for robust mechanisms, which

- **Link** persistently **data** with its **metadata** (Data in context)
- Enable for data objects to become selfinterpretable, actionable and trusted entities
- Enable curation and annotation of objects to be performed across repositories and permanently attached to the object



<u>Digital Specimen</u>: A dynamic "box" collecting links to all core information about a thing in one place



Images (2D, 3D)



GET Image PIDs

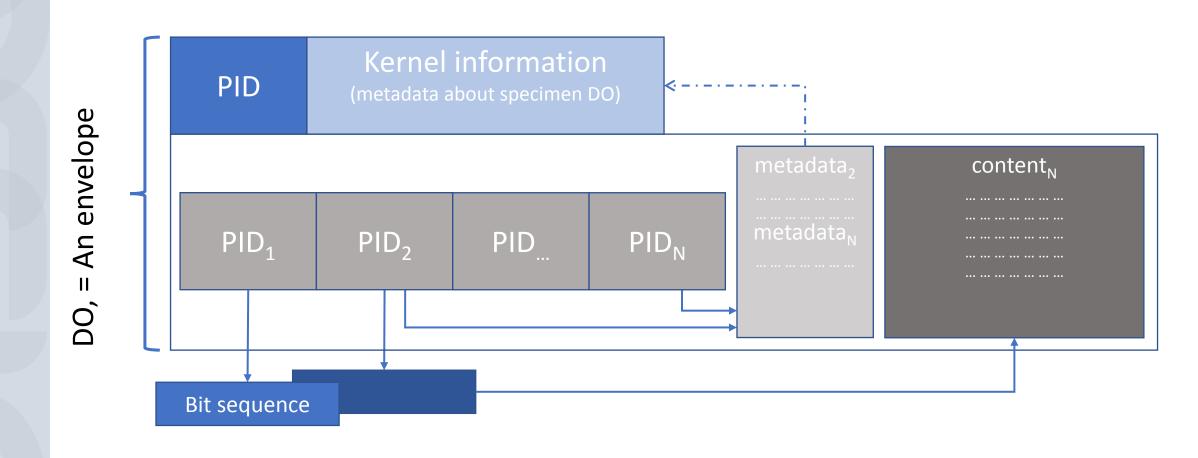
GET Image metadata



GET Physical Object (PO) PID

GET PO PID metadata

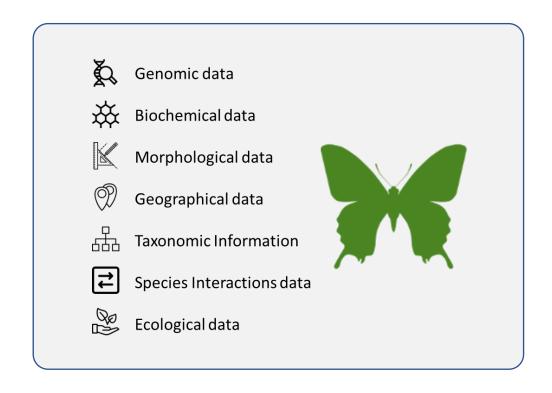
Structure of a Digital Specimen Object (DSO)



Physical Object



Digital Surrogate



An actionable knowledge unit

Piloting with Cordra

