

BIO  
DIVERSITY  
*NEXT*

# Digitisation and Imaging

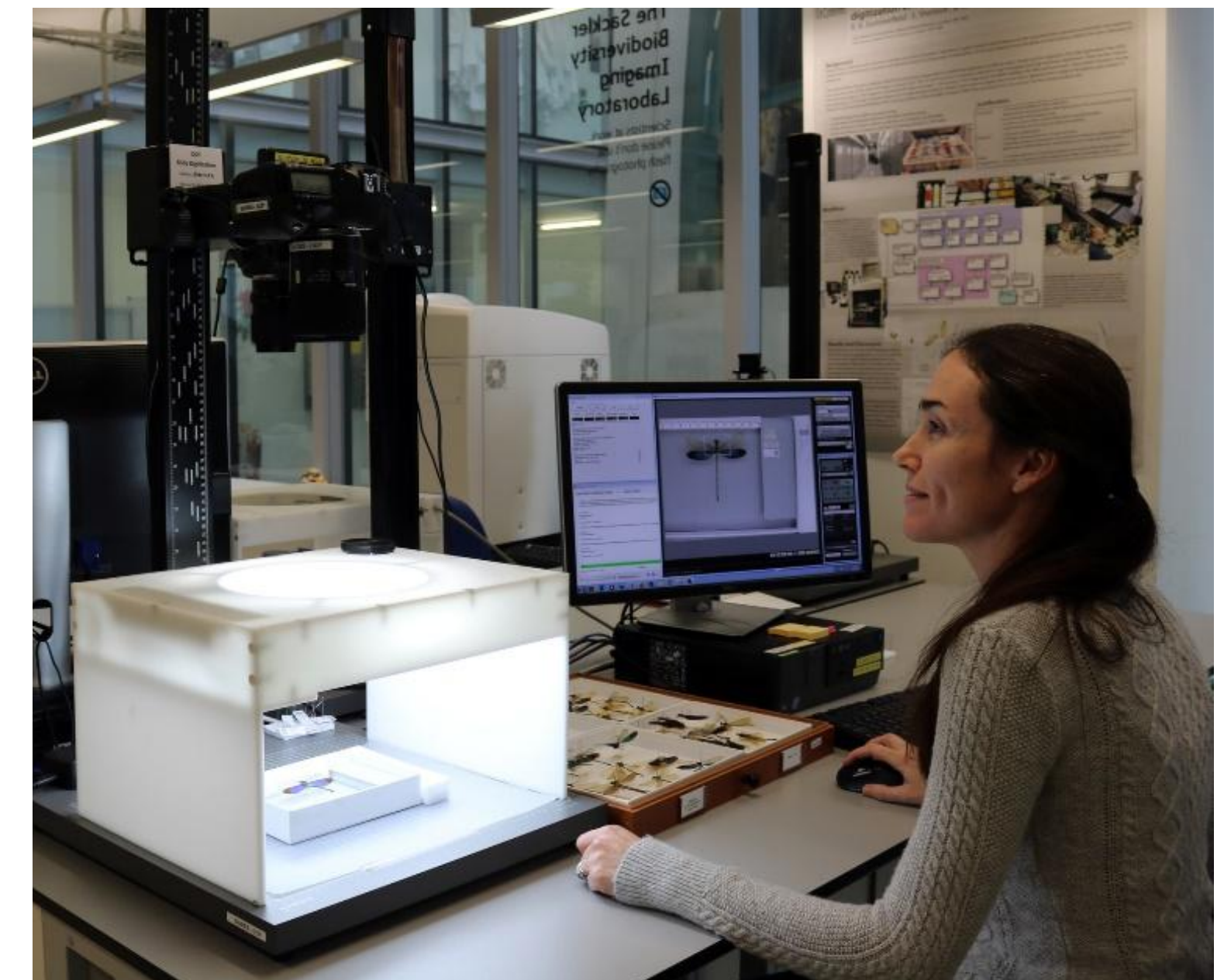
**Laurence Livermore | Natural History Museum,  
London**

# What is digitisation?

In terms of our collections it is the *process of creating digital representations of analogue specimens*

This can be done through:

- **Imaging** (visible, laser, UV, X-ray, electrons)
- **Transcription** (direct, from image)
- DNA sequencing
- Material analysis (radiometric dating, electron probes)





## Why digitise?

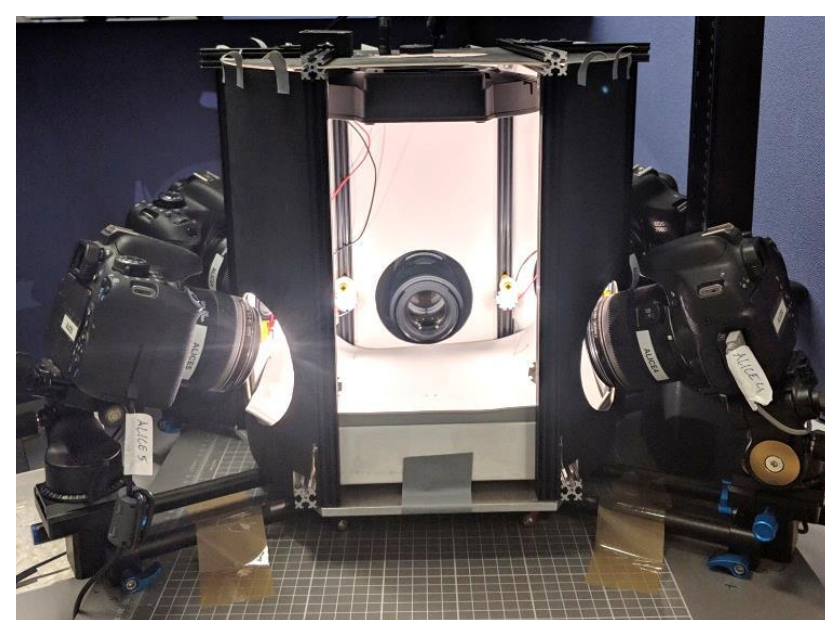
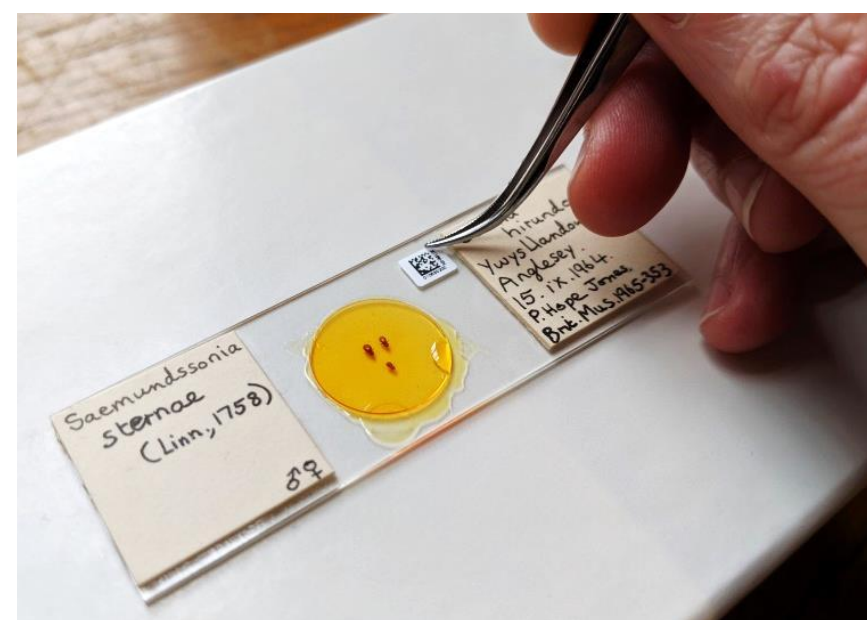
- Greater audience of the collections
- Findability and accessibility
- Funding opportunities
- Long-term preservation
- New forms of interaction
- Support new and traditional research
- Data integration and linkage
- Curatorial benefits
- and more...





## Who is digitising?

- Museums and herbaria
- Universities
- Large communities (iDigBio, SYNTHESYS+, DiSSCo and countries!)
- Thematic collection networks (TCNs – USA)







1931				
2-1	573	Amor. scutellatus	at. Basse	1543-1931
	4		at. Sangre	181-176
	5		at. -	211-176
	6		at. -	211-176
	7		at. Karpur	1-76
	8		at. -	2511-76
	9		at. -	1-76
538			at. -	2-76
1			at. -	1-76
2			at. Beni	176
3			at. -	176
4			at. Sambulpur	201-76
5			at. Madras	476
6			at. -	2-76





# A “typical” digitised specimen



## Higher Classification

Scientific name: *Ornithoptera victoriae regis* Rothschild, 1895

Family: Papilionidae

## Location

Locality: Bougainville

Country: Solomon Islands

Continent: Oceania

## Collection Event

Recorded by: A S Meek

## Specimen

Catalogue number: BMNH(E)102551

Preservative: Dry - mounted

Individual count: 1

Sex: Male

Life stage: Adult

Barcode: 013602485

### External Links

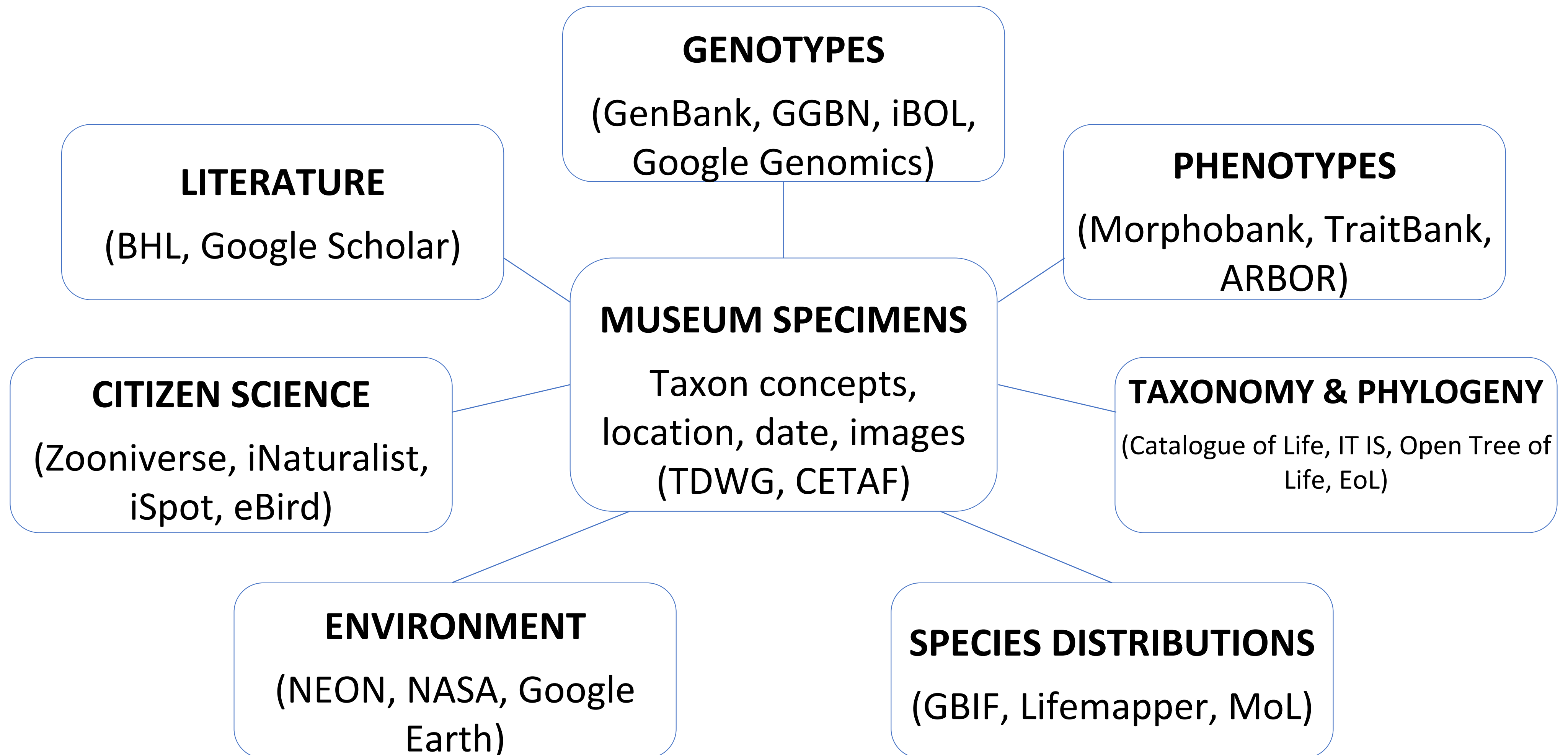
[BHL Biodiversity Heritage Library](#) ▼

[Catalogue of Life](#) ▼

[Find more links on the GBIF View](#) ↗



# The Extended Specimen (increasing linkage and uses)





# How can you find out more?

## Recommendations for the Acquisition, Processing, and Archiving of Digital Media

iDigBio has created recommendations for capturing, processing, and storing digital media.

[Recommendations for the Acquisition, Processing, and Archiving of Digital Media](#)

## Interest/Working Groups

The following links take you to Interest/Working Groups focused on Digitization. For other working groups please use the following links:

- [International Whole-Drawer Digitization Interest Group](#)
- [NANSH Working Group](#) (North American Network of Small Arthropod Collections)
- [Fluid-preserved Arthropod and Microscopic Slide Imaging](#)
- [Paleontology Digitization Working Group](#)
- [Small Collections Network Working Group](#)
- [Vertebrate Digitization Interest Group](#)
- [Field Station Interest Group](#)

## Digitization Avenue

The following links provide information on the task clusters that are part of the Digitization Avenue project. For more information on the clusters please read the following [Five task clusters that enable digitization](#)

- [Pre-digitization Curation and Staging](#)
- [Specimen Image Capture](#)
- [Specimen Image Processing](#)
- [Electronic Data Capture](#)
- [Georeferencing Locality Descriptions](#)
- [Digitization Workflows and Protocols](#)
- [More on digitization](#)

## Digitization Resources

This page provides resources and information for the series of digitization training workshops as well as a plethora of digitization information and resources. Included is a gallery of images, videos, presentations, and other important information related to biological collections digitization.

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- 6 iDigBio Workshops, Reports, and Wikis
- 7 Videos- Digitization Resources and Workflows

## Researchers

[Browse our specimen portal](#)



## Collections Staff

[Learn how your collection can benefit from our work](#)



## Teachers & Students

[Learning resources & opportunities to engage](#)



<https://www.dissco.eu/>

<https://www.idigbio.org/>

<https://icedig.eu/>

<https://spnhc.biowikifarm.net/wiki/Digitization>





**(Come find me later for Trainer Code!)**