

Pre digitization

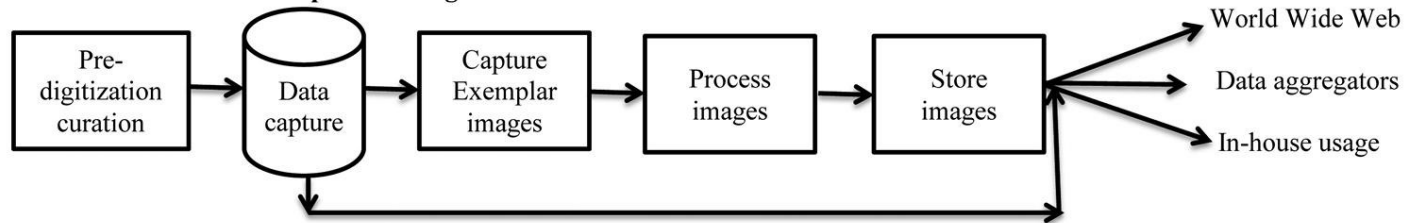
Brenda Nyaboke

Expert Workshop on GBIF Data Publication in Africa, 12.10.2023

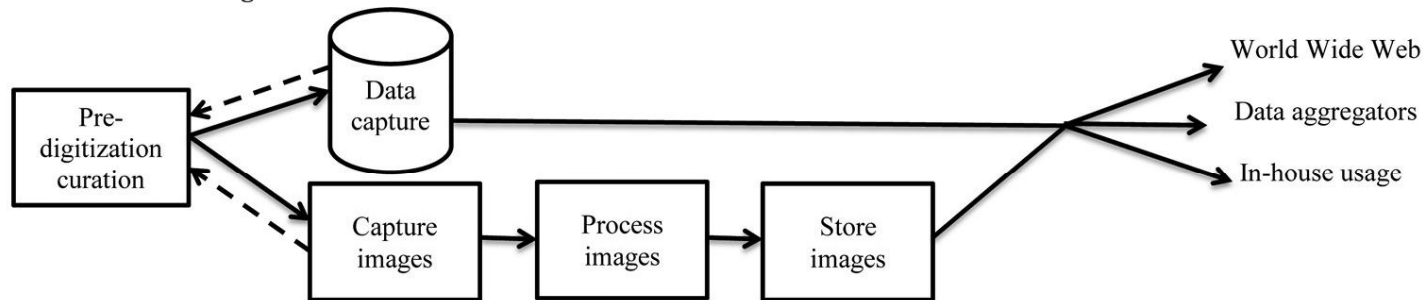
What is a digitization workflow?

“a sequence of tasks that are performed in order to create digital information that characterised individual specimens”
(Nelson et al. 2012)

a. Data to Occasional or Optional Image to Distribution



b. Parallel Data/Image to Distribution



c. Image to Data to Distribution

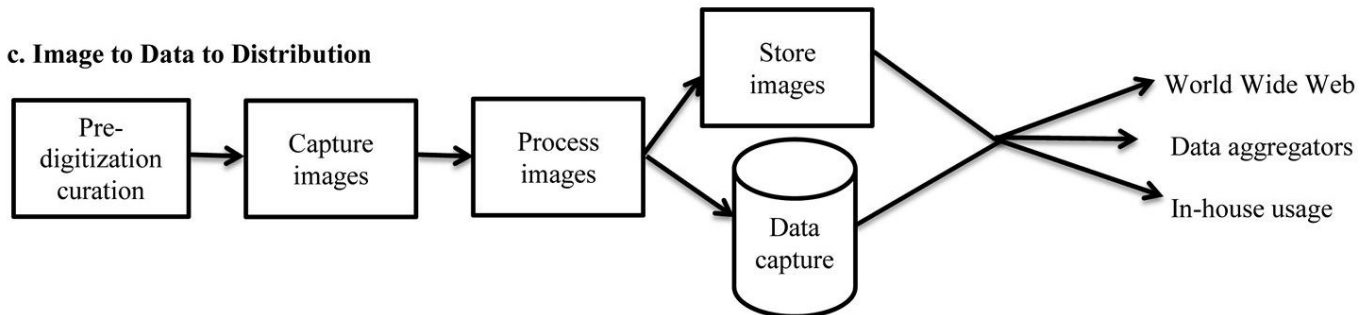


Figure 1 in Nelson G, Paul D, Riccardi G, Mast A. 2012. Five task clusters that enable efficient and effective digitization of biological collections. *ZooKeys* 209: 19-45. <https://doi.org/10.3897/zookeys.209.3135>

Order of workflow tasks varies based on...

- type of collection
- staff availability
- equipment
- space
- facilities
- institutional goals

Examples of pre-digitization curation tasks

specimen preparation



Chicago Academy of Sciences Entomology Collection



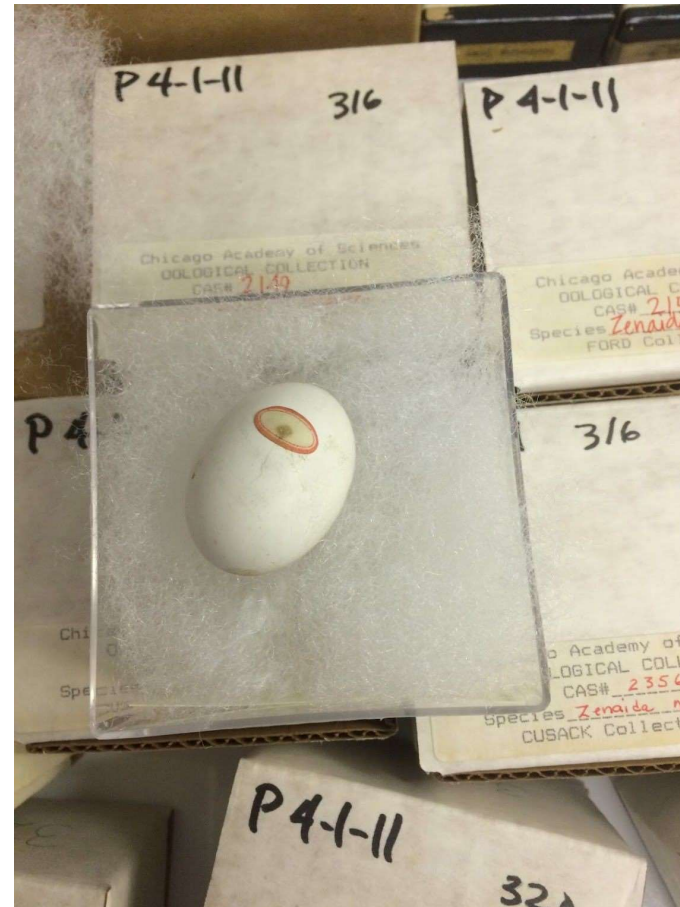
Caspers M, Willemse L, Miracle EG, van Niekerken EJ (2019) Butterflies in bags: permanent storage of Lepidoptera in glassine envelopes. *Nota Lepidopterologica* 42(1): 1-16. <https://doi.org/10.3897/nl.42.28654>

Examples of pre-digitization curation tasks

specimen repair and/or preservation



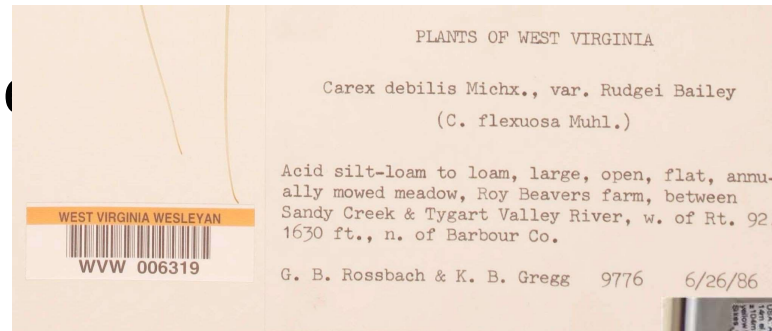
Chicago Academy of Sciences Malacology Collection



Chicago Academy of Sciences Oology Collection

Examples of pre-digitization curation tasks

attaching unique id



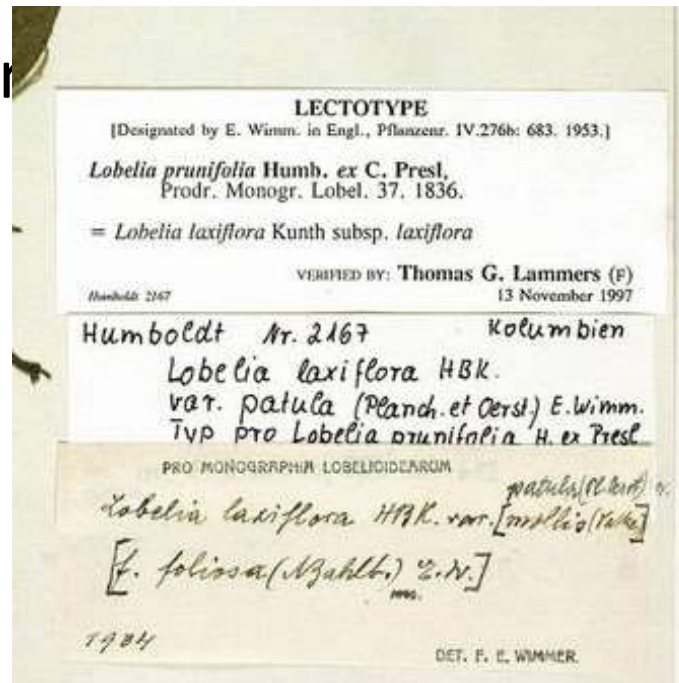
University of Colorado Museum of Natural History, Invertebrate Paleontology



University of Alaska Museum (UAM) barcoded flies

Examples of pre-digitization curation tasks

updating nomenclature



Güntsche, Anton & Berendsohn, Walter & Ciardelli, Pepe & Hahn, Andrea & Kusber, Wolf-Henning & Li, Jinling. (2009). Adding content to content – a generic annotation system for biodiversity data. *Studi Trent. Sci. Nat.* 84. 1123-128.

Examples of pre-digitization curation tasks

physical collection organization



Natural History Museum of Los Angeles Invertebrate Paleontology Collection



Chicago Academy of Sciences Entomology Collection

Examples of pre-digitization curation tasks

flagging exemplar specimen



Denver Museum of Nature and Science Mammals Collection