View From the Field

One Museum’s Perspective on Storage.

Sharon Grant
Janeen Jones
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Integrating Institutional Archives with Disciplinary Web Repositories 2020
Questions

● How do you handle DAM and collections records? Are the systems well integrated?

● Are there different approaches for 3D and 2D?

● What important role does integration with external resources play in achieving your goals.

● What are the biggest challenges and grandest aspirations for having a digital presence?
  ○ Are different collections/departments idiosyncratic in solutions or is there top-down protocols
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Yes. We use EMu...
Review of Digital Assets at the Field Museum

Total in EMu:
- 1,893,058 media records
  - 1,671,145 images
  - 210,726 pdfs
  - 2,736 audio
  - 617 videos
  - + others
Review of Digital Assets at the Field Museum

This month in EMu:
- 43,578 new pieces of media
- 20.4 GB of web quality media
- 0.36 TB of archive media

All centralised Museum media:
- 2010 ~50TB
- 2014 ~120TB
- To date ~250TB
What a CT scan looks like in EMu...
What a 2D image looks like in EMu...

This is the 2d data structure

Catalogue:
Cat # FMNH 345687
Taxon Brachypteracias

Catalogue:
Cat # FMNH xxxxxx
Taxon Aus bus

Event:
Project specific.

Catalogue:
Cat # FMNH xxxxxx
Taxon Aus bus

Catalogue:
Cat # FMNH xxxxxx
Taxon Aus bus

Catalogue:
Cat # FMNH xxxxxx
Taxon Aus bus

Multimedia:
PDF - for text documents
JPG - for images
MP4 - for moving images/video
CSV - for spreadsheets

Images: Archive format - DNG

Attachment

EMu Record (public)
Supplementary File

EMu Record (private)
Supplementary File (private)

Field Museum of Natural History EMu 2020: 3D data structure: https://docs.google.com/document/d/18HEldcDrJTlFRe-sUOZvKzuF6NJZ2m3Qq7BCb3Vp3I
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What is looks like when it flies freeeeee...
What is looks like when it flies freeeee...

https://www.gbif.org/occurrence/1427517131
What is looks like when it flies freeeeee...

https://www.gbif.org/occurrence/1427517131
What is looks like when it flies freeeeeee...

https://mm.fieldmuseum.org/119f5415-4aef-4ace-b844-4c32b1bdd80a

https://www.morphosource.org/Detail/MediaDetail/Show/media_id/22129
Where does all the media go..?
Where does all the media go..?

Field Museum of Natural History 2020: FM 3D data in the world: https://docs.google.com/document/d/18HEldcllrJT1FRA-aUCoZruF6NJZ2m3Qp7BCb3Vp3I
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Eggs...
Eggs in one basket...
Orphic Eggs..?
Replicated connected baskets of Orphic eggs..?
"Explain all that," said the Mock Turtle.

"No, no! the adventures first," said the Gryphon in an impatient tone:

"explanations take such a dreadful time."
How we are licensing our collections data and images

Per these documented Conditions and Suggested Norms for Use of Collections Data, the Field Museum of Natural History ("the Field Museum") is releasing its collections data under a public domain waiver (CC0) and making multimedia served publicly from its authorized Collections Management System available under a Creative Commons Attribution-Noncommercial 4.0 International (CC-BY-NC) license.

A CC0 waiver marks our intent to place our data in the public domain and decline to enforce any intellectual property rights we may have in it. The CC-BY-NC license allows the distribution, publication, and remixing of these
FIELD MUSEUM OF NATURAL HISTORY

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For further information, see frequently asked questions (https://tiqurp.com/z2ahv76).

As a condition of borrowing or accessing Collections Items, you, the undersigned, agree to the following terms and conditions.

A. Definitions.

Access Agreement refers to a Loan Agreement, Research Access Agreement, or similar document specifying the Collections Items you will be working with, the purpose of your use, and other details of your loan or research visit.

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Attribution and agreement...
Attribution and agreement...
I’m Late....

“Oh my fur and whiskers.

I’m late, I’m late, I’m late!”
Incorporate into existing workflows....
"Oh my fur and whiskers.

I’m late, I’m late, I’m late!"
Lost costs... On the data side

- **Storage** - hardware maintenance.
  - Short-term - need more storage to process than to store the data (exacerbated by scope creep)
  - Long-term - most funding bodies won’t fund this, but institutions must store data afterwards (and maintain the hardware)

- **Preservation** - maintaining current archival standards
  - Short-term - handling formats you did not know how to handle before (requires figuring out workflows and processes for doing so)
  - Long-term - format preservation/migration

- **Transfer/Bandwidth** - infrastructure for moving giant files around
  - Short-term - shock of sudden/new/massive files puts a burden on existing infrastructure.
  - Long-term - technology acclimates to the size/variety of the files but the files keep getting bigger.

- **Standards** - appropriate identifiers and permanent associations.
  - Short-term - Expedited workflow
  - Long-term - Loss of data & context; broken connections affects reproducibility; Solutions to fixing and cleaning up become slower if not impossible to implement.
Lost costs.... *On the people side*

- IT Professionals
  - Systems, Network, Informatics, Web

- Collections Professionals
  - Collection Management, Assistants, Interns, Trainers

- Project Management
  - Team coordination between fields, departments, and institutions to maintain scope, deliverables, and timelines
Questions, comments, thoughts?

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2020 oVert
The Cast

Egg-thing

Eggs in a basket thing

Lewis-thing

Egg-be-free-thing