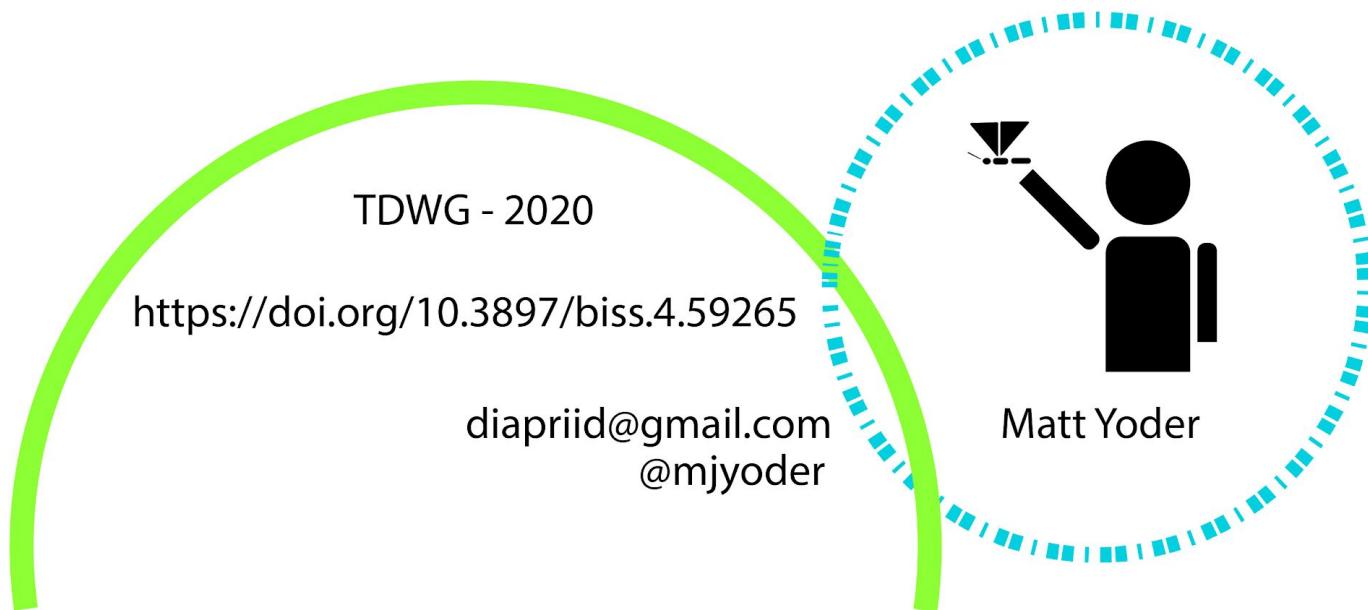


# Meeting In-Between: Moving beyond the buzz, bottlenecks, and bubble to collaboratively develop digitization tooling



# Science?!

What hypothesis are we testing?

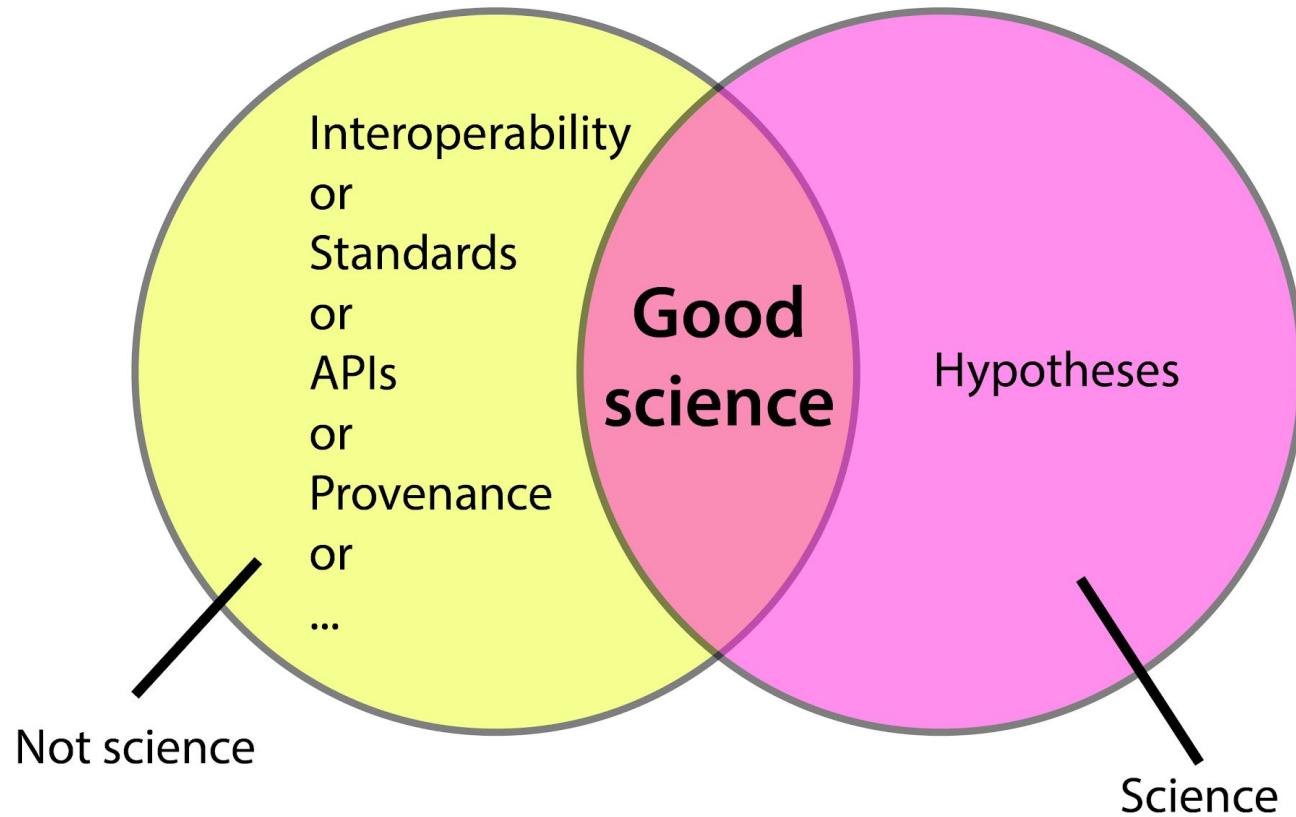
Higher up:

"I need to know how many specimens Karen collected on full moons landing on oddly numbered days. Format it in XML... I mean JSON, maybe Excel, big fonts please."

You:

"Interesting, what hypothesis are you testing?"

H in chat if you you've been tasked with similar



**1 - The bubble**

**A spooky story**

type in chat

**2 - Together!**

**Unicorns and rainbows**

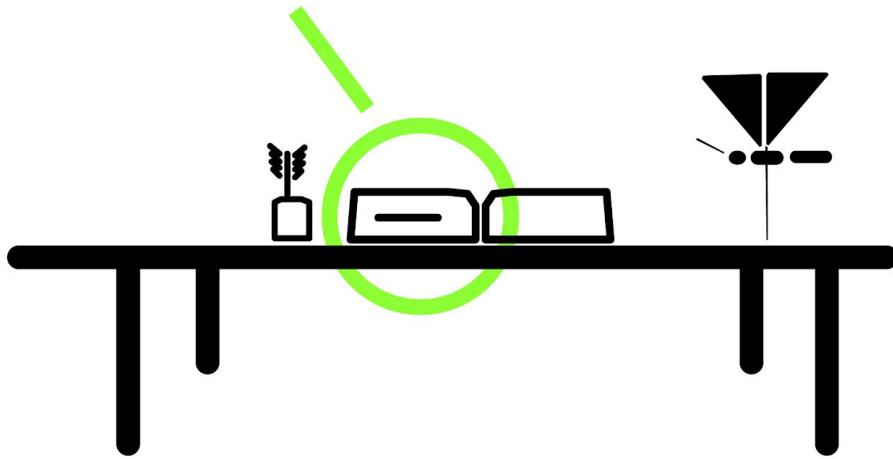
3- this dude is crazy

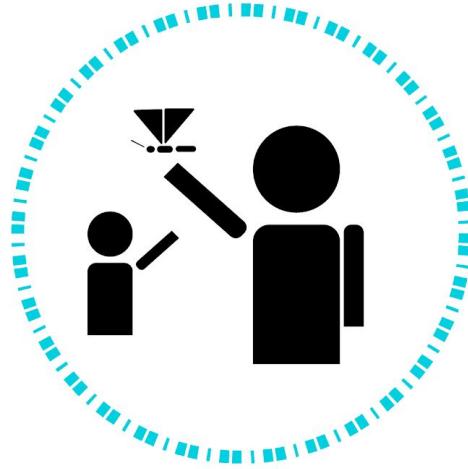
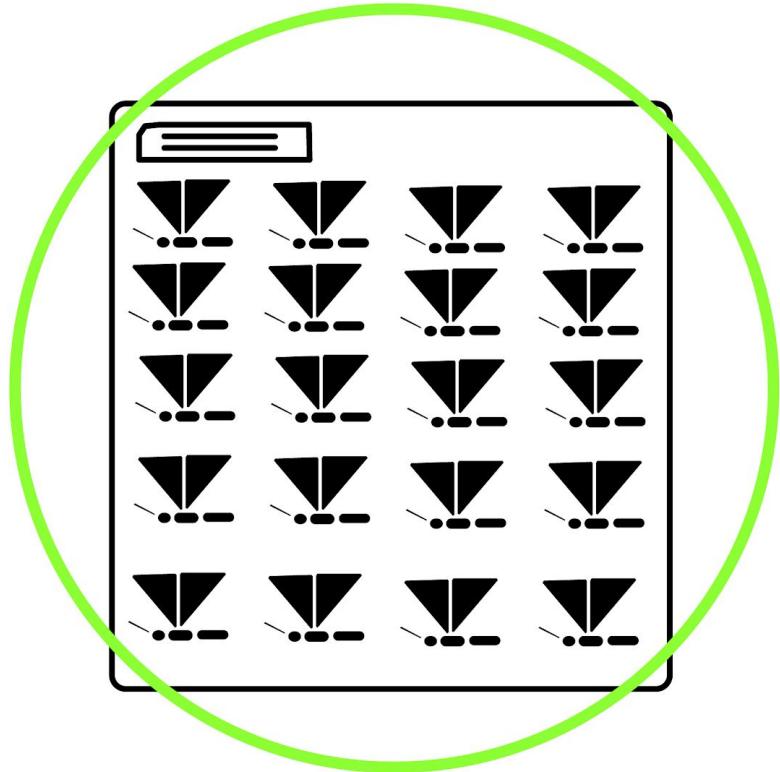
# Bubble?

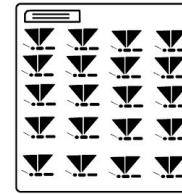
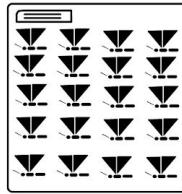
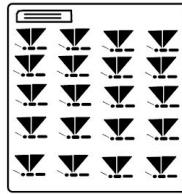
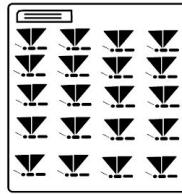


Meatspace bubble

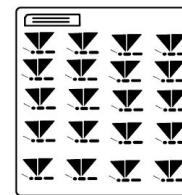
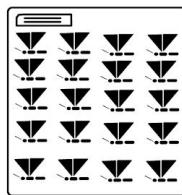
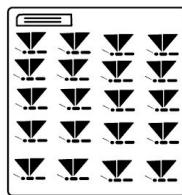
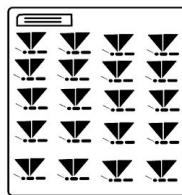
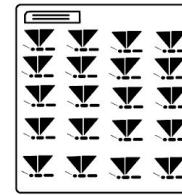
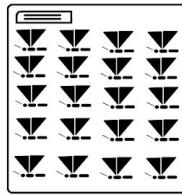
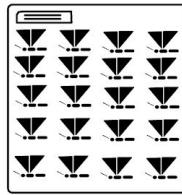
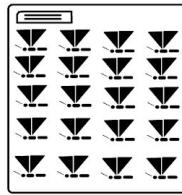
## Biodiversity informatics bubble







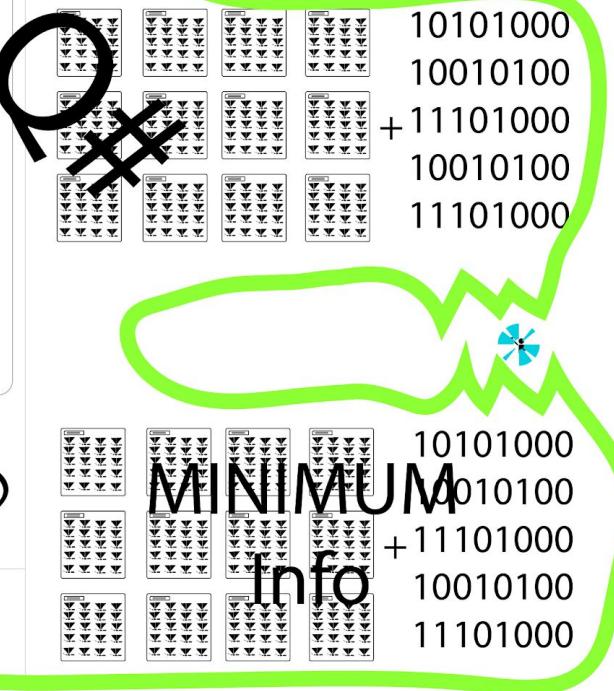
10101000  
10010100  
+ 11101000  
10010100  
11101000

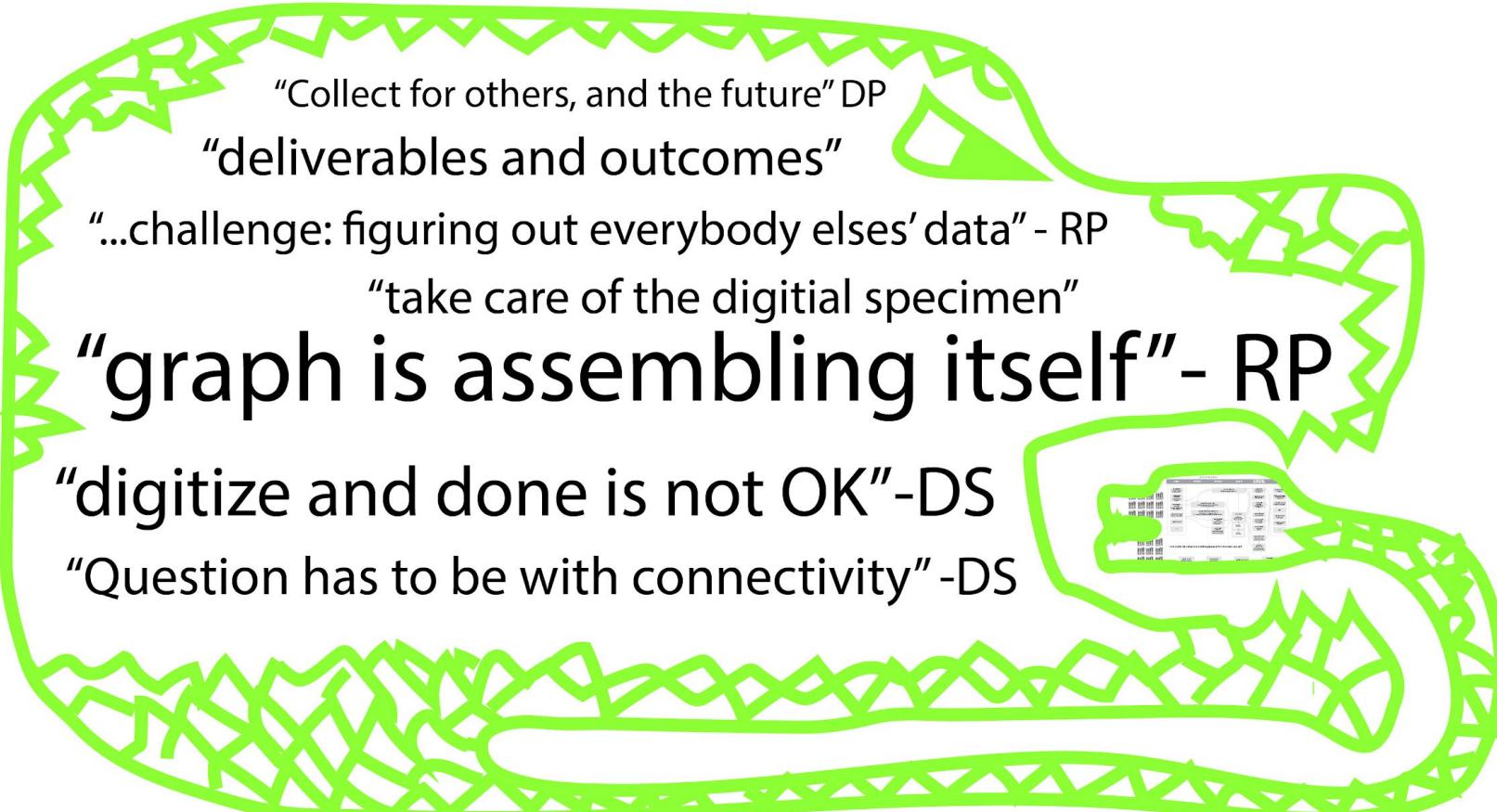


## A Unified Data Infrastructure Architecture



1 in chat if this is in your nightmares too



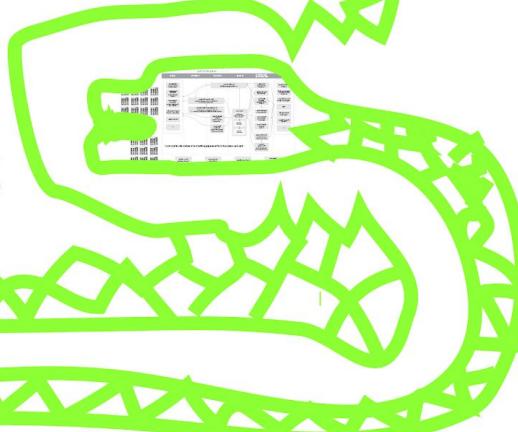


"Collect for others, and the future" DP  
"deliverables and outcomes"

"...challenge: figuring out everybody else's data" - RP  
"take care of the digital specimen"

**"graph is assembling itself"- RP**

"digitize and done is not OK"-DS  
"Question has to be with connectivity" -DS



1 in chat if this was you recently.



# I am

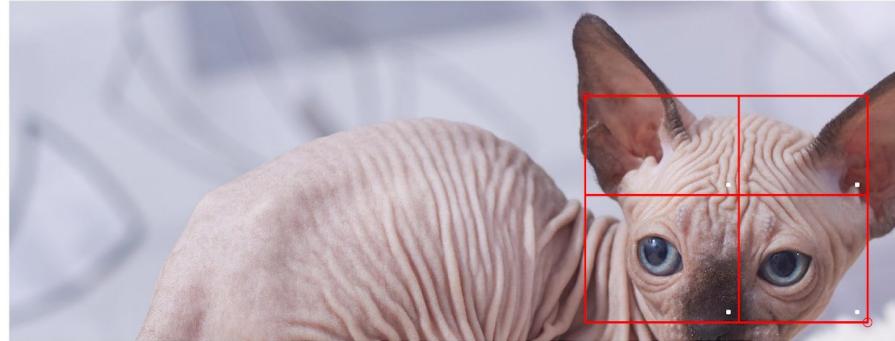
- \* typing in my field labels
- \* renaming.my.image.files
- \* typing my loan forms
- \* printing labels from Word
- \* formatting my bibliography
- \* making barcodes in Excel
- \* fixing *that* error in FileMaker
- \* typing my material examined sections
- \* trying to filter records for the annual report
- \* and manually typing catalog numbers,  
... so, so many catalog numbers

**Together!**

# 1- Share widgets

45,886 slides processed

<https://github.com/SpeciesFileGroup/sled>



# C in chat if this is your cat

[https://commons.wikimedia.org/wiki/File:Cat\\_Sphynx,\\_Kittens,\\_img\\_11.jpg](https://commons.wikimedia.org/wiki/File:Cat_Sphynx,_Kittens,_img_11.jpg) - CC BY-SA 4.0

1 in chat if one of these is your issue

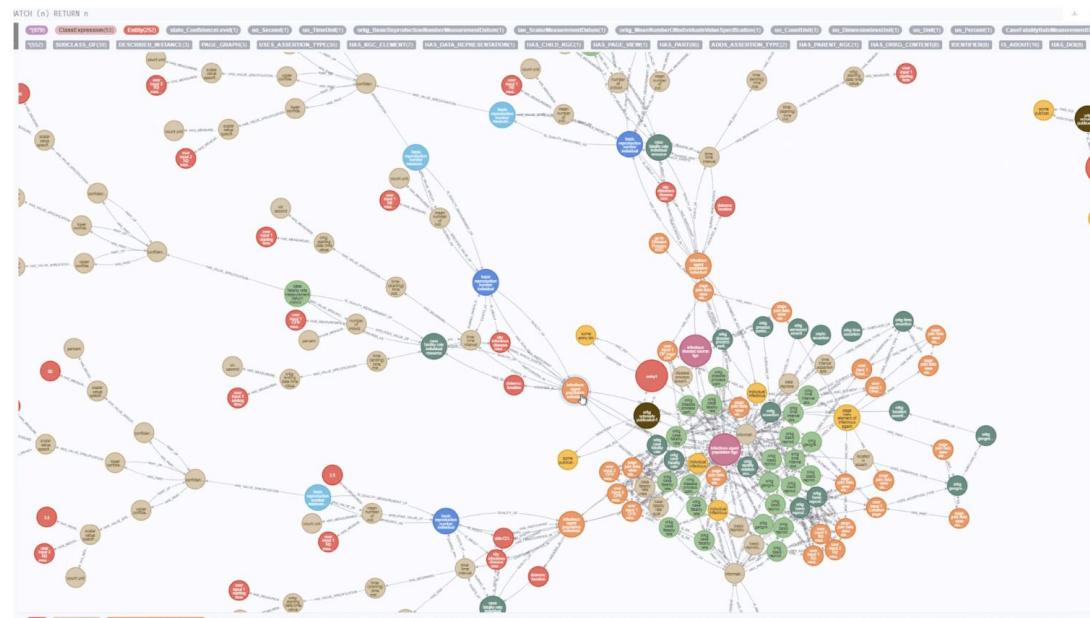
## 2- Mine reality

	Github Issues	
	Open	Closed
ALA	-many -	
Arctos	783	2315
iNaturalist (webapp)	409	1478
Scratchpads2	197	4049
Specify (6)	398	417
Specify (7)	313	404
Symbiota (Symbiota)*	89	24
TaxonWorks	470	1,231
vertnet (webapp)	52	459



\*but see listserv

## 3- Macros / persistence vs. on-demand use



small binaries, purpose built to expand assertions

Chat, how many user inputs? 1: 1, 2: 2-10, 3- 11-50, 4: 50+

**FAIR.ReD** Lars Vogt et al.

# 4- Join an existing project

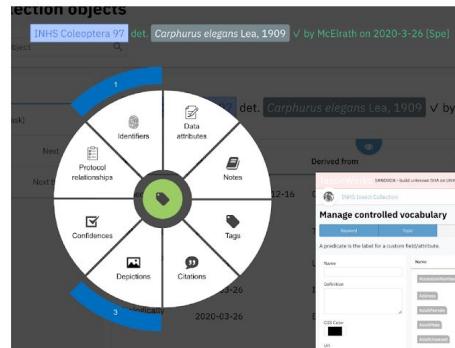


# TaxonWorks

**50 data concepts**  
**9 annotation types**

**6 collections**  
**701,784 images**  
**1,217,248 collection objects**  
**660,384 taxon names**

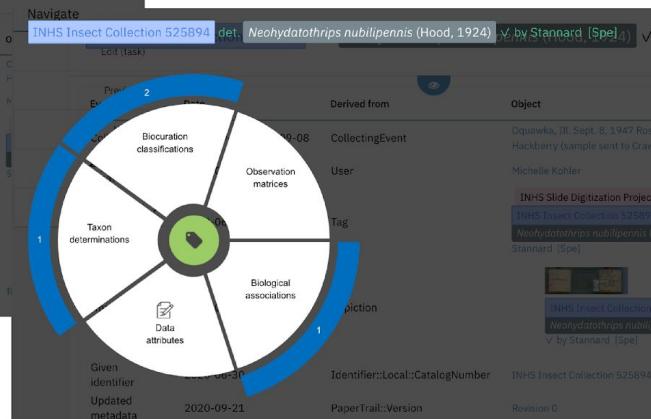
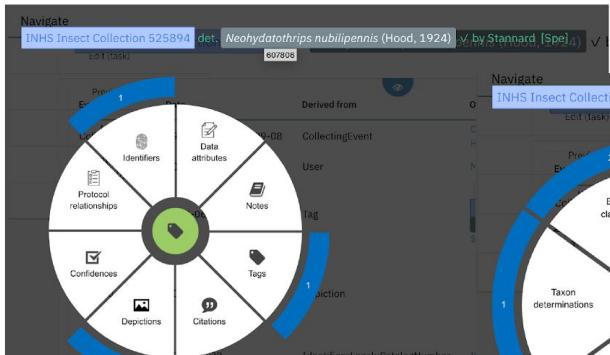
## New DwC import, extended DwC output



? in chat if you've never heard of TaxonWorks. ! if you have

# Digital specimens in TaxonWorks

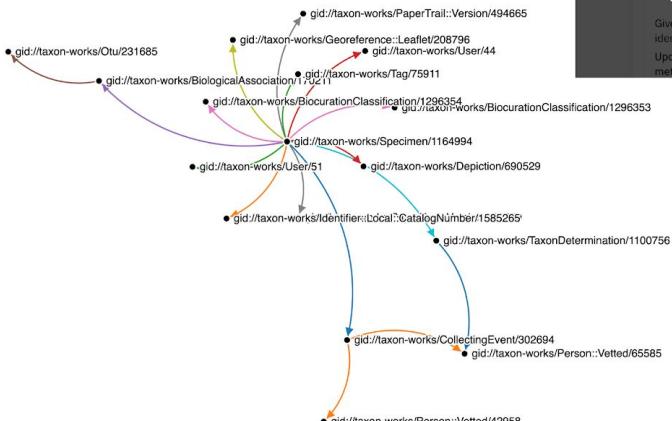
Screenshot of the TaxonWorks interface showing a collection object page. The top navigation bar includes 'TaxonWorks Collection' and 'Browse collection objects'. The main content area shows a detailed view of a specimen record, including fields for 'Event', 'Data', 'Relationships', and 'Object'. The 'Object' tab is active, displaying information such as 'INHS Insect Collection 525894 det. Neohydatothrips rubilipennis (Hood, 1924) v. by Stannard [Spec.]'. Below this, there are sections for 'Event' (with details like 'Collected on 1947-09-08'), 'Data' (with 'Protocol relationships' and 'Confidences'), 'Relationships' (with 'Identifiers', 'Notes', 'Tags', 'Depictions', 'Citations', and 'Protocol relationships'), and 'Object' (with 'Image').



```

id: 1164994
total: 1
preparation_type_id: 1
collecting_event_id: 302694
repository_id: 3667
types: "Specimen"
+ buffered_collecting_event: "Oquawka, Ill., Dept. B, 1947 (v.Moss + Stannard); leaves of Hackberry (sample sent to Crawford)" 
+ buffered_determination: "Sericonophilipennis"
+ buffered_label: "Higher med."
+ buffered_rangefit_category_id: null
+ accessioned_at: null
+ deaccessioned_at: null
+ deceased_at: null
+ created_by_id: 31
+ updated_by_id: 44
+ project_id: 1
+ created_at: "2020-09-21T08:55:41Z"
+ updated_at: "2020-09-21T08:45:23Z"
+ contacted_at: null
+ object_img: "<span><input type='checkbox' checked='checked' />Feedback</span><span>Feedback-thru</span><span>Feedback-primary</span>"<br/><span title='Catalog number'>INHS Insect Collection Object 1164994, INHS Insect Collection 525894</span><span>Open</span><span>Edit</span><span>Delete</span><span>Details</span><span>View</span><span>Download</span><span>Print</span><span>Email</span><span>Share</span><span>Report</span><span>Feedback</span><span>Feedback-thru</span><span>Feedback-primary</span>"<br/><span>CollectionObject</span><span>CollectionObject</span><span>CollectionObject</span><span>CollectionObject</span>
+ object_labels: "INHS Insect Collection Object 1164994"
+ global_id: "urn:node:taxonworks.org:collection_objects:1164994"
+ base_class: "CollectionObject"
+ url_fref: "https://sys.taxonworks.org/collection_objects/1164994.json"
+ collection_object: "collection_objects/1164994"

```



INHS Insect Collection  
1 millionth Collection Object

Welcome  
Debbie Paul,  
Species File Group's  
new  
Community Liason

1 in chat to greet!

---



# Thanks

Species File Group team. TaxonWorks collaborators.

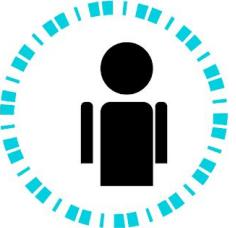
Digitization in TaxonWorks - Zoom, Tuesdays 08:00 UTC *weekly*  
contact Matt or Deb for details

Watch for a week of  TaxonWorks hack events *this fall*

Follow @TaxonWorks on Twitter







## Thanks! But now i'm

- \* figuring out your interfaces
- \* where do I click again?
- \* writing Github issues (!?)
- \* waiting till my Github issue is prioritized
- \* wondering how that bad data was batch loaded
- \* waiting for that "easy" thing to get added
- \* wondering why you broke that perfectly functional bit  
    when you made it "better"
- \* adding your 20 new fields and retroactively going  
    back to fill them out

...I think I'll go outside and collect!