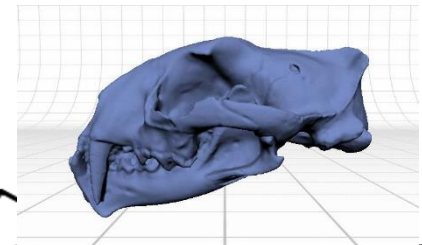
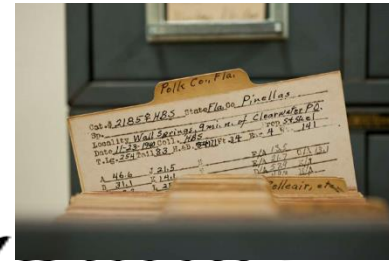




Digitizing the Past and Present for the Future



David Jennings, iDigBio Project Manager – djennings@flmnh.ufl.edu

Gil Nelson, iDigBio Digitization Process Expert – gnelson@bio.fsu.edu

OBFS Annual Meeting, 21 Sep 2018, Schoodic Institute at Acadia National Park



Why digitize?

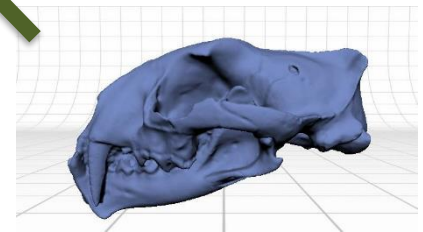
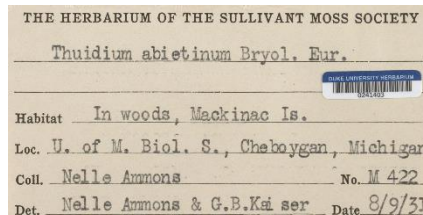
Estimates suggest there are between
500 million and 1 billion
 biological and paleobiological specimens
 in the United States and potentially
3-4 billion worldwide
 Many are digitized, but most are not.
A vast untapped source of information!





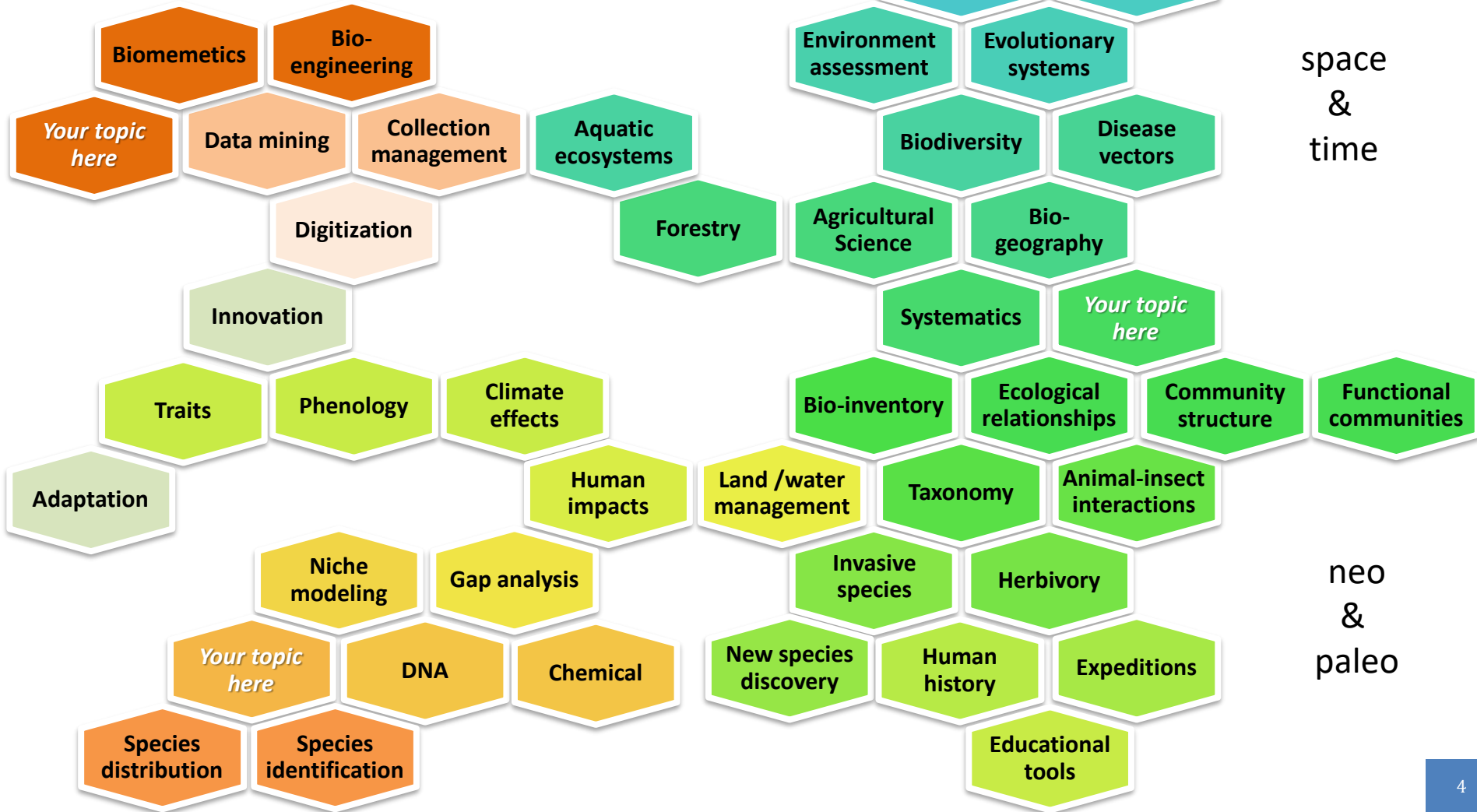
Why digitize?

- Digitization = Conversion of analog information (e.g., text, photos, sound, etc.) into digital information
- Principal benefits:
 - Generates **accessibility**
 - Enables **discovery**
 - Enables **sharing**
 - Facilitates **research**
 - Informs **policy**



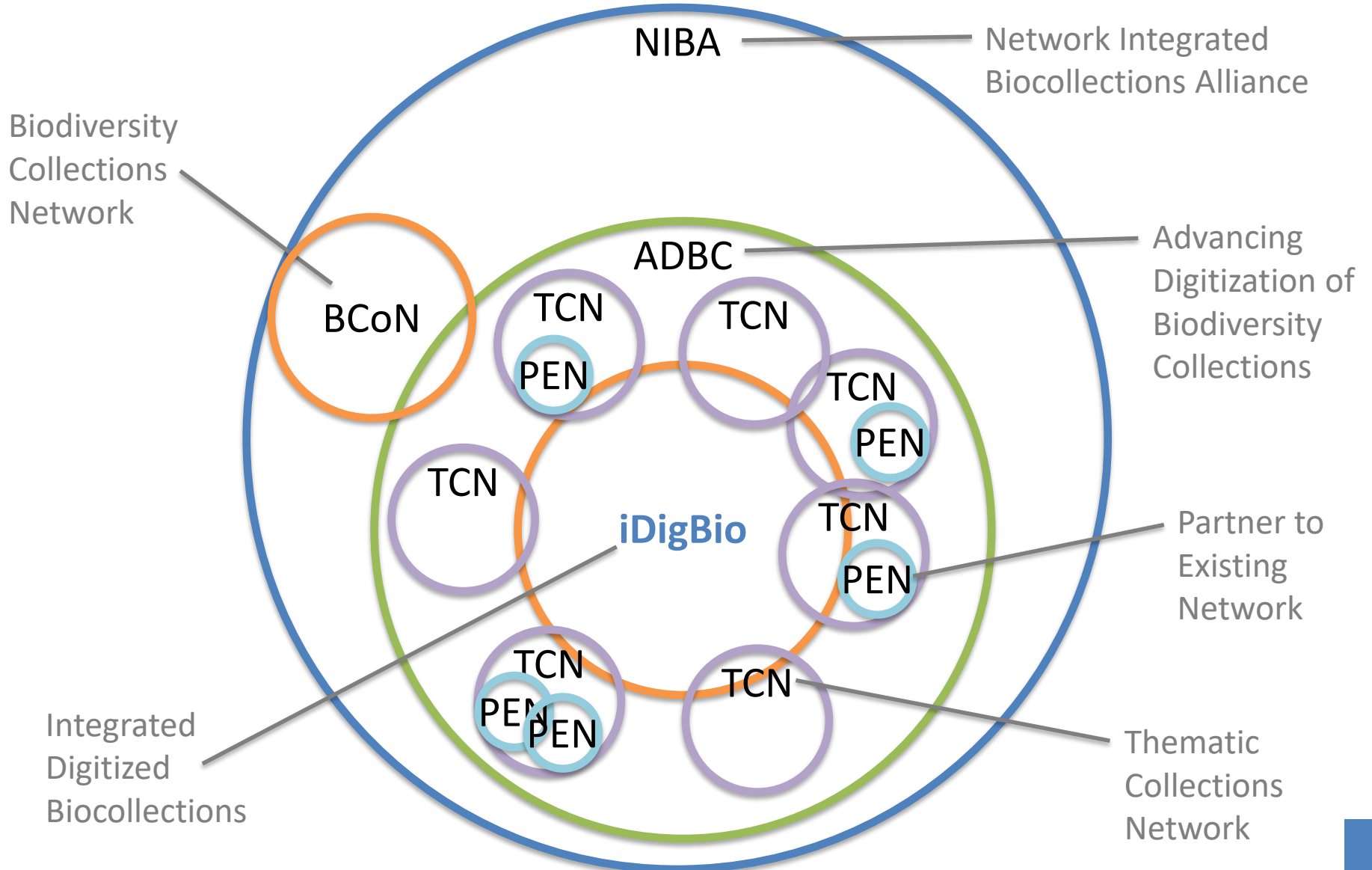


Myriad of potential uses for biodiversity specimen data





Improving data accessibility through digitization





What is iDigBio?

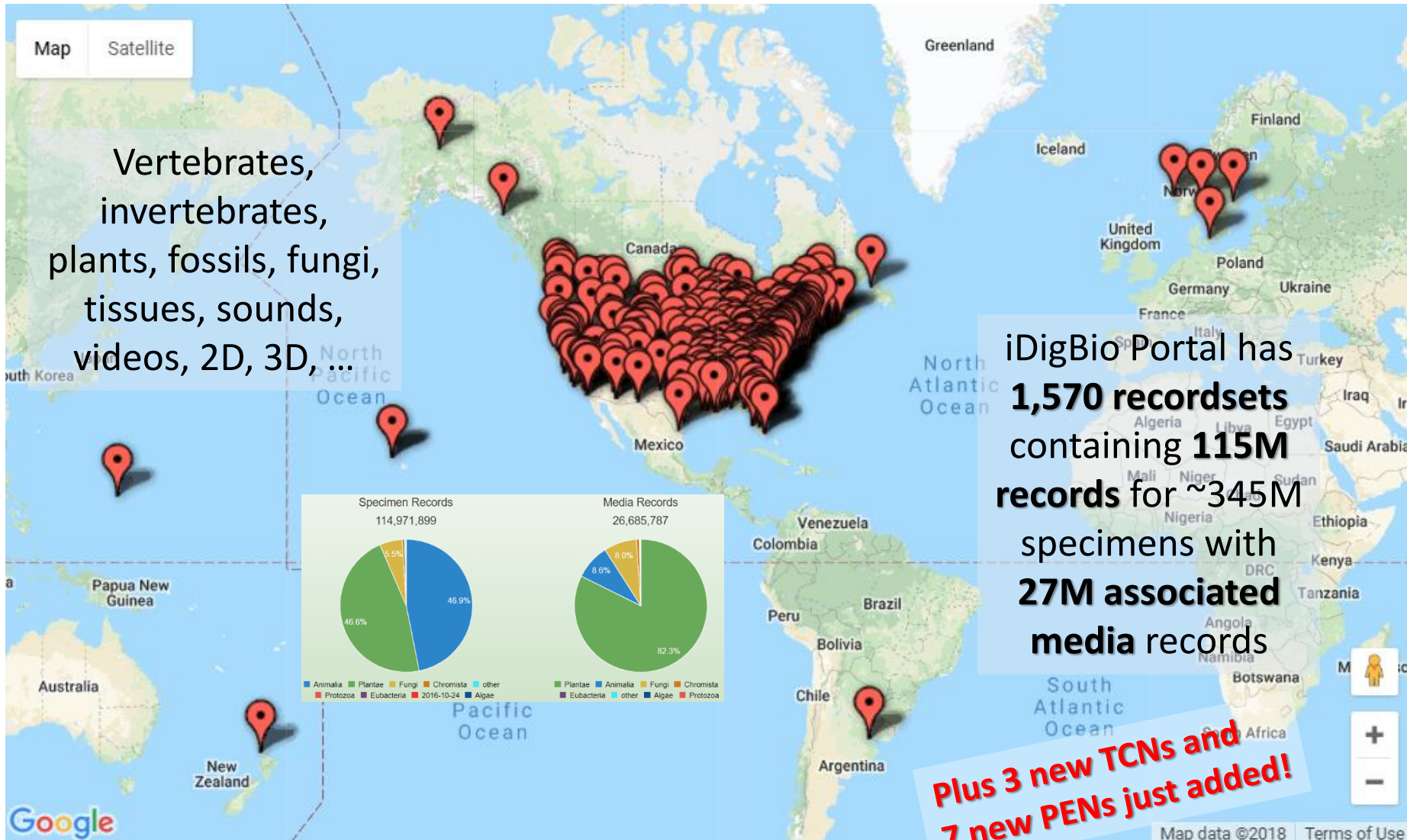
- ❖ iDigBio is the **coordinating center** for the national effort to **national effort to digitize** non-federal U.S. natural history collections.
- ❖ NSF's **Advancing Digitization of Biodiversity Collections (ADBC)** program
 - 10-year, \$100 million national effort
- ❖ **Networks of institutions organized by theme** to focus research, drive digitization efforts, and build communities
 - **Thematic Collection Networks (TCNs)**
 - **Partners to Existing Networks (PENs)**



“To advance scientific knowledge by improving access to digitized information in vouchered scientific collections across the U.S.”



ADBC National Digitization Network



709 participating collections in 397 institutions (18 TCNs + 17 PENS)



What does iDigBio do?

- 1. Facilitate digitization** of biodiversity collections data
 - Standards, workflows, protocols, task clusters
 - Workforce education, training, capacity building
- 2. Provide access to and discoverability** of biodiversity data in a cloud computing environment
- 3. Facilitate use** of biodiversity data to address key research, environmental, educational, and economic challenges
- 4. Envision the long-term sustainability** of the **national digitization** effort
 - Expand participation
 - Proliferate & broaden uses of biodiversity data

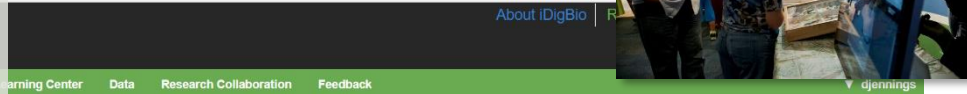




What does iDigBio do?

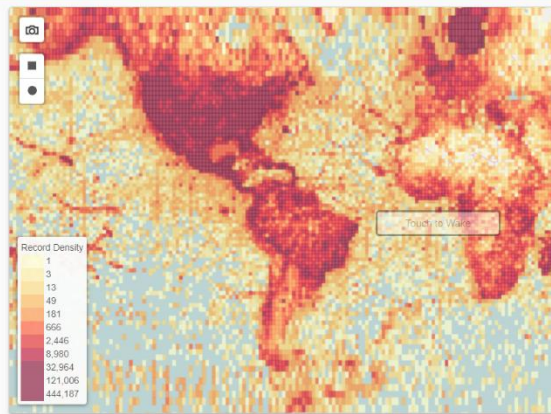
Data Liberation

- Flexible search
- Indexed fields
- Media
- Geolocation
- Synonyms
- Data use
- Collections



Research Use

- Tool collaboration
- Portal development
- Data quality feedback
- Research Spotlight



Training

- Data skills
- Data literacy
- Collections software
- Imaging
- Project management



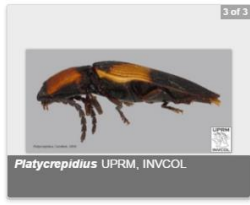
EO&D

- Citizen Science
- K-12 materials
- Undergraduate
- Mentor teachers

Abelmoschus moschatus medik. Medik.

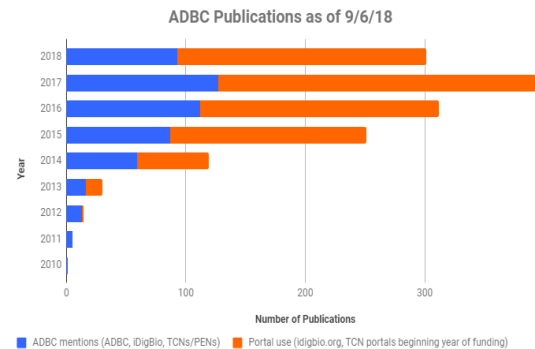
Puerto Rico, Mayagüez (MITA).
 Lat: 18°12' 15" Lon: -67°6' 1"
 NY, 01007392, A. H. Liogier

Malvaceae



Month of	Search	Download	Seen
01 / 2015	4,644,439	39,693	249
02 / 2015	14,478,408	18,174	872
03 / 2015	11,134,952	92,788	604

Flag
dwc_datasetid_added
dwc_parentnameusageid_added
dwc_taxonid_added
dwc_taxonomicstatus_added

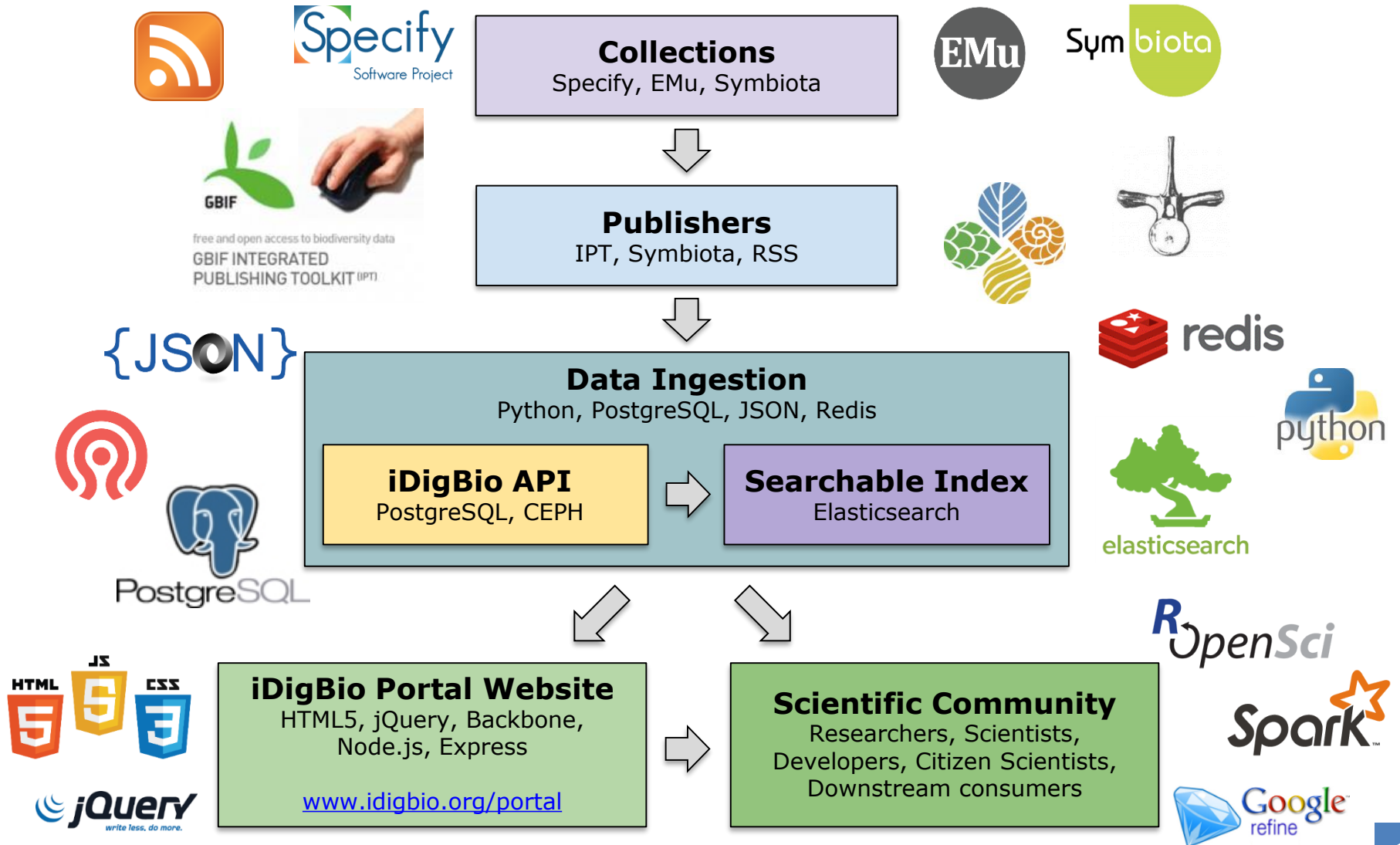


Digitization

- Workflows
- Protocols
- Task clusters
- Data standards

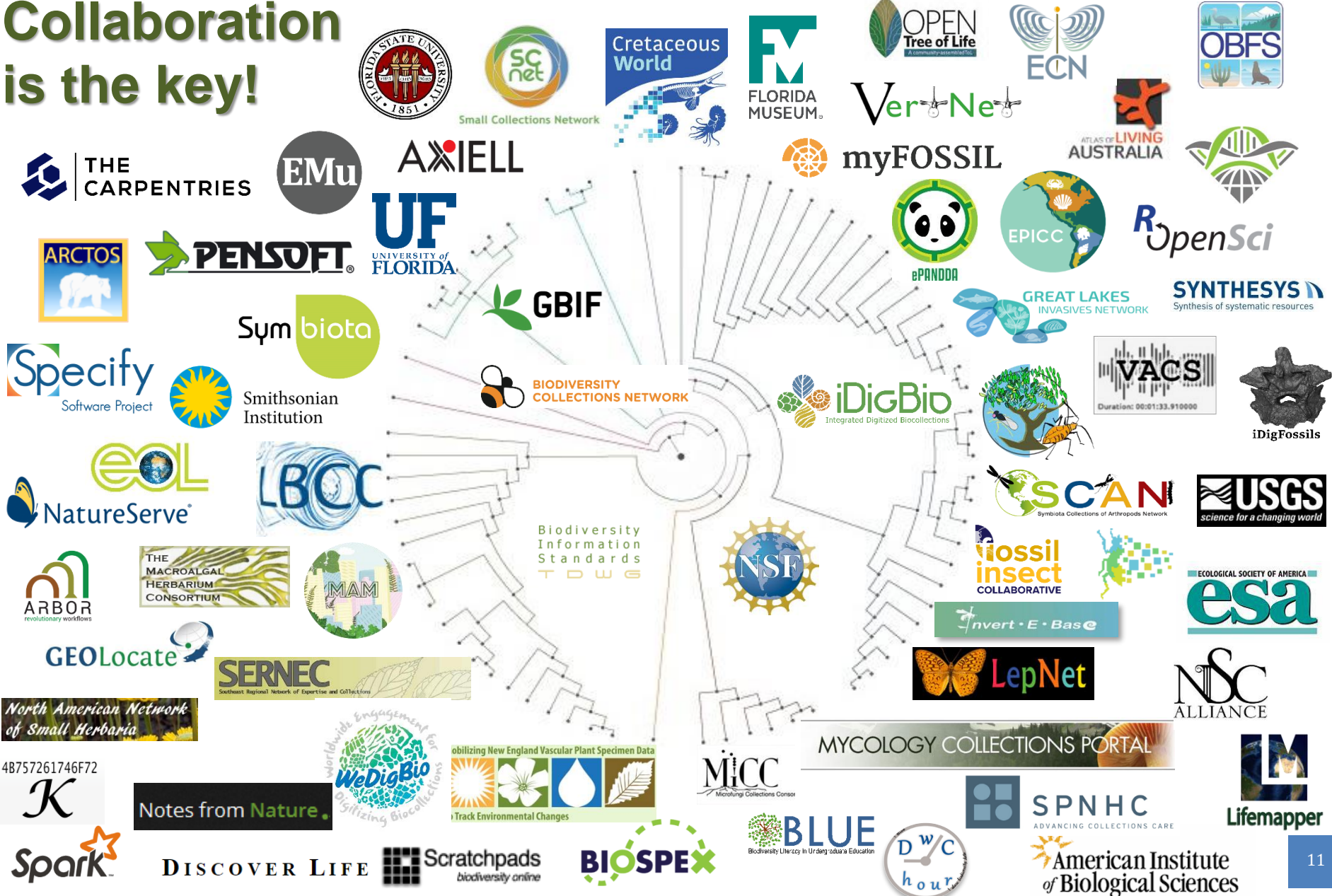


iDigBio Data Flow





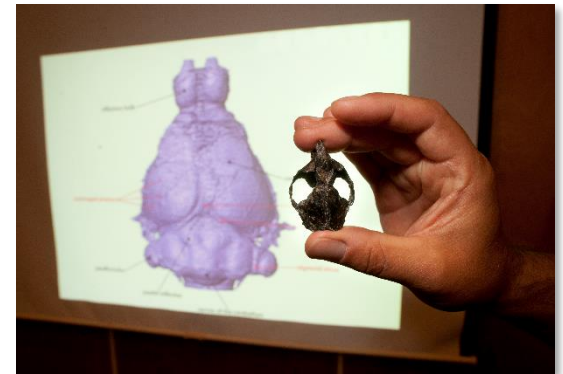
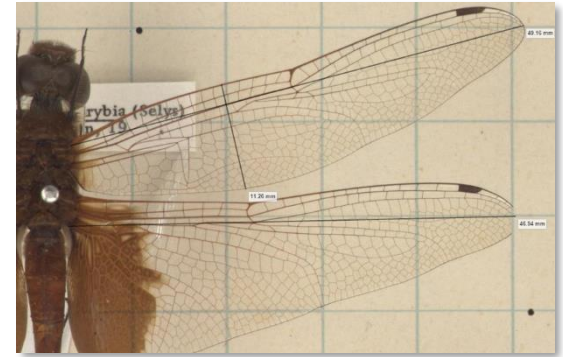
Collaboration is the key!





We want to engage with you!

- iDigBio provides **access to data** with the means to **answer research questions**
- Many opportunities for **collaboration** and potential **funding**:
 - **Public participation** in digitization
 - e.g., host a [WeDigBio](#) event, host a DwC hour
 - **Research** using the data already in the portal
 - e.g., niche modeling, conservation, etc.
 - **Data mining** the portal for new discoveries
 - e.g., extract measurements/characteristics
 - Gathering all of the “**dark data**”
 - Help us get “all” collections digitized and online!
 - e.g., proposals for TCN, PEN, CSBR, IMLS, etc.
 - **Enriching** the data
 - e.g., data linking, field notes, etc.





We want everyone involved!



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idigbio.org/events-calendar/export.ics



**Join us 18-21 October
for WeDigBio 2018!
Sign up at wedigbio.org !**