



# Marine Invertebrate Digitization Workshop #DigIn

Host @FloridaMuseum Gustav Paulay, et al

Organizers: Gustav Paulay, Deborah Paul, and all of you!

4-5 February 2019

Dickinson Hall



## Logistics

- Wiki <https://bit.ly/DigInWiki>
- Folder <https://bit.ly/DigInFolder>
  - upload talks to presentation folder
- Group notes (see link on wiki)
- **Twitter** @Bri\_Varnerin @RbcmHydroids @nature\_jmgagnon @kmkocot @libbyellwood @mccullermi @soltislab @mar\_inv @trinaeroberts @Zach\_Randall @mud\_lark @StellarSquirrel @idbdeb
- 5-630 IZ Collection Tour (Sunday / Monday)
- Monday – dinner at The Swamp



# What is iDigBio?

- ... the **coordinating center** for the 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
  - Network of institutions organized by theme to focus research, drive digitization efforts, and build community
    - **Thematic Collection Networks (TCNs)**
    - **Partners to Existing Networks (PENs)**



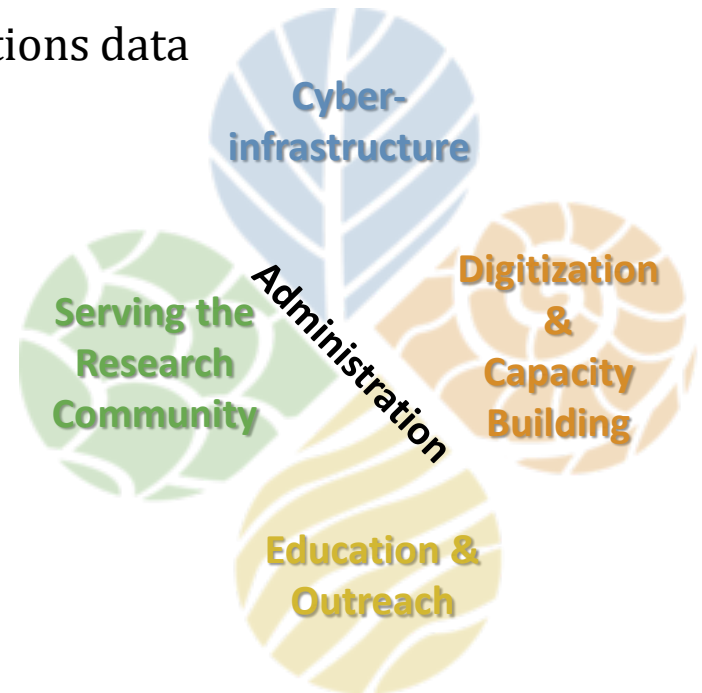
*“...advance scientific knowledge by improving access to digitized information in vouchered scientific collections...”*





# What does iDigBio do?

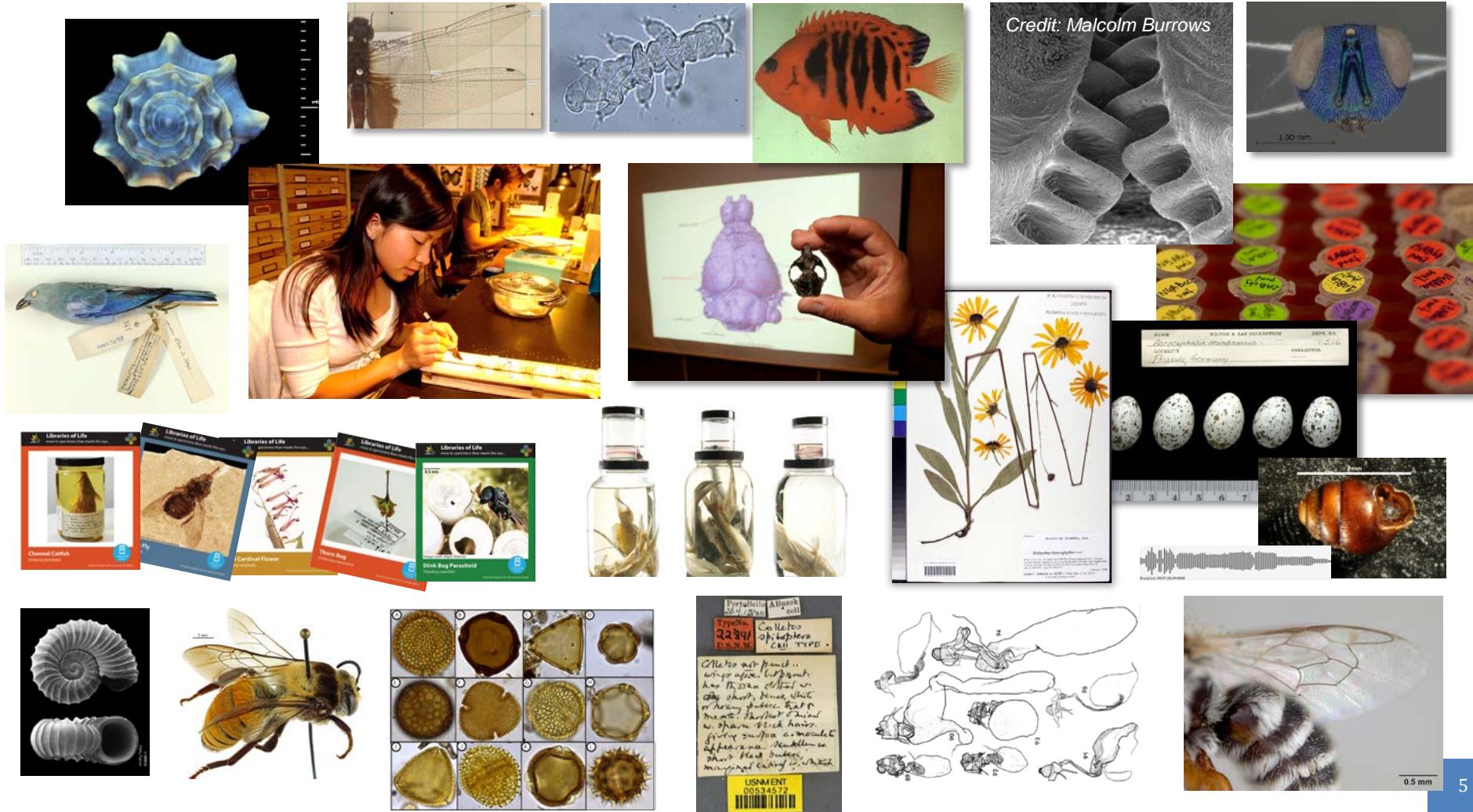
1. **Engage the collections community** – find the specimens
2. **Facilitate digitization** of biodiversity collections data
  - Standards & workflows
  - Workforce education & training
3. Provide **access** to and **discoverability** of biodiversity data in a cloud computing environment
4. **Facilitate use** of biodiversity data to address key research, environmental, educational, and economic challenges
5. Envision and assist in planning the long-term **sustainability** of the **national digitization** effort
  - Expand participation
  - Proliferate & broaden uses of biodiversity data







# Advancing the Digitization of Biodiversity Collections ADBC iDigBio and the Thematic Collection Networks (TCNs)

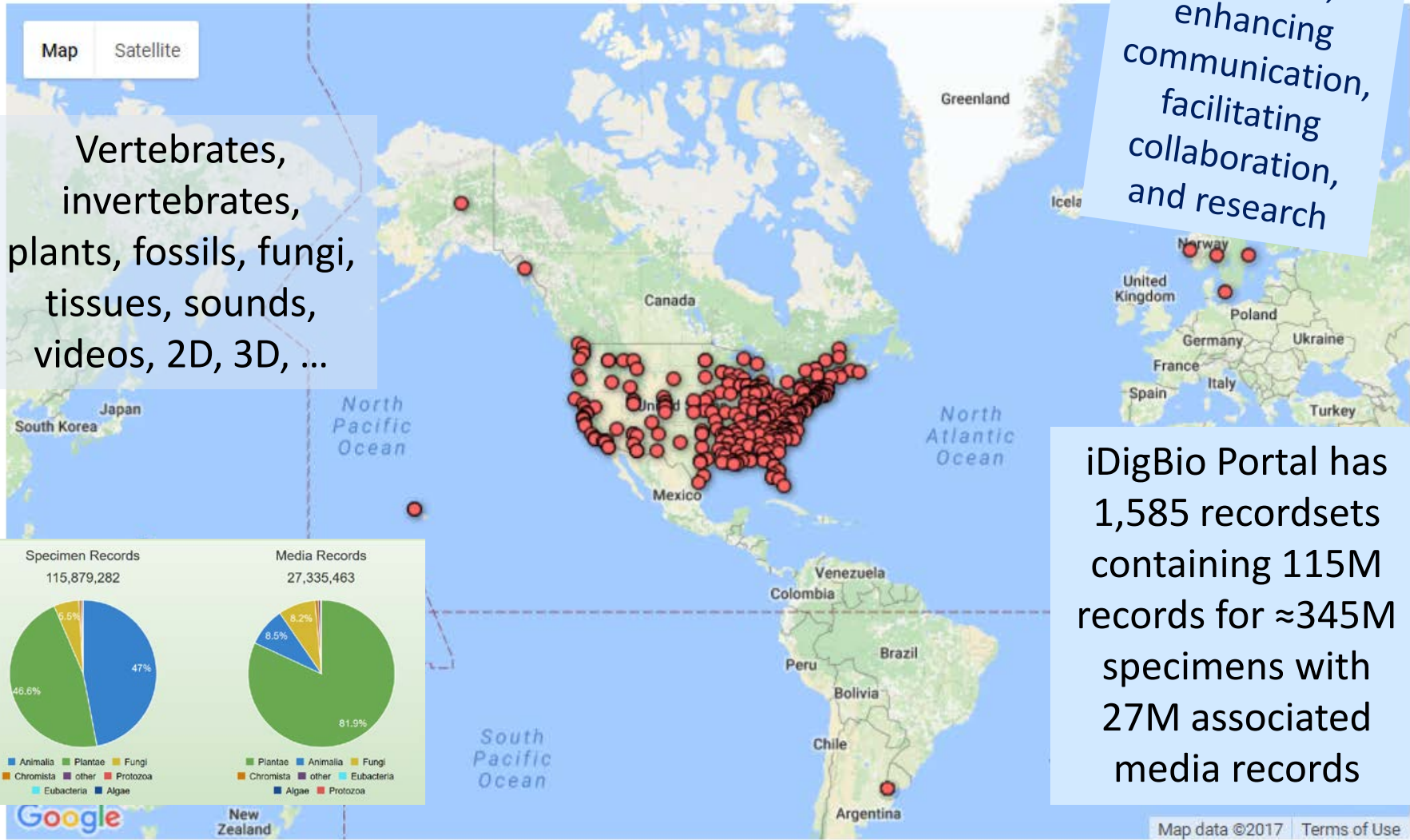




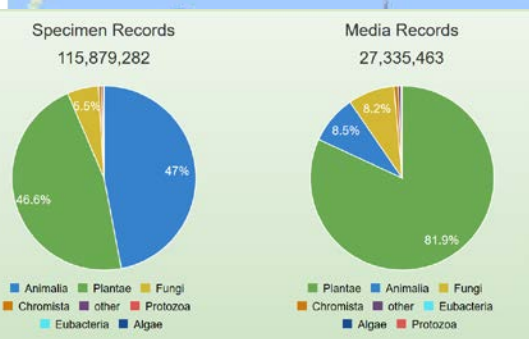
# Advancing Digitization of Biodiversity Collections ADBC National Digitization Network

Developing networks, enhancing communication, facilitating collaboration, and research

Vertebrates, invertebrates, plants, fossils, fungi, tissues, sounds, videos, 2D, 3D, ...



iDigBio Portal has 1,585 recordsets containing 115M records for  $\approx$ 345M specimens with 27M associated media records



750 participating collections in 411 institutions (23 TCNs + 29 PENS)



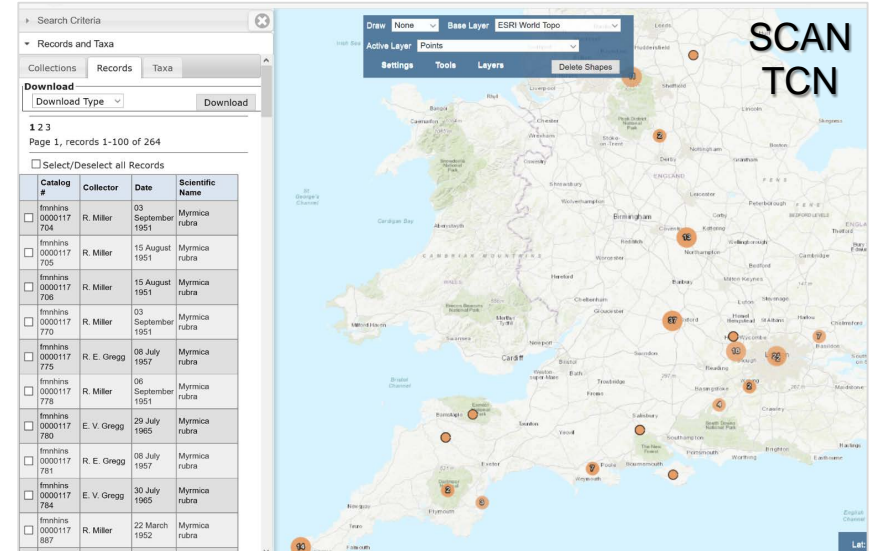
# ADBC Thematic Collection Networks

Collaborating across institutions to digitize strategically

|                                       |  |
|---------------------------------------|--|
| Capturing California's Flowers        | Macroalgal Consortium                  |
| Endless Forms                         | Macrofungi Consortium                  |
| Pteridological Collections Consortium | Microfungi Consortium                  |
| Cretaceous World                      | Mid-Atlantic Megalopolis (MAM)         |
| Fossil Insect Collaborative           | NEVP                                   |
| Fossil Marine Invertebrates (EPICC)   | PALEONICHES                            |
| Great Lakes Invasives                 | SCAN                                   |
| InvertEBase                           | SERNEC                                 |
| InvertNet                             | SoRo                                   |
| LepNet                                | Tri-Trophic                            |
| Lichens & Bryophytes                  | Vouchered Animal Communication Signals |
|                                       | oVert                                  |



Duration: 00:01:33.910000

| Catalog #                           | Collector   | Date              | Scientific Name |
|-------------------------------------|-------------|-------------------|-----------------|
| <input type="checkbox"/> 0000117704 | R. Miller   | 03 September 1951 | Myrmica rubra   |
| <input type="checkbox"/> 0000117705 | R. Miller   | 15 August 1951    | Myrmica rubra   |
| <input type="checkbox"/> 0000117706 | R. Miller   | 15 August 1951    | Myrmica rubra   |
| <input type="checkbox"/> 0000117707 | R. Miller   | 03 September 1951 | Myrmica rubra   |
| <input type="checkbox"/> 0000117775 | R. E. Gregg | 08 July 1957      | Myrmica rubra   |
| <input type="checkbox"/> 0000117776 | R. Miller   | 08 September 1951 | Myrmica rubra   |
| <input type="checkbox"/> 0000117780 | E. V. Gregg | 29 July 1965      | Myrmica rubra   |
| <input type="checkbox"/> 0000117781 | R. E. Gregg | 08 July 1957      | Myrmica rubra   |
| <input type="checkbox"/> 0000117784 | E. V. Gregg | 30 July 1965      | Myrmica rubra   |
| <input type="checkbox"/> 0000117987 | R. Miller   | 22 March 1952     | Myrmica rubra   |

- Southwest Collection of Arthropods TCN *evolves*
  - *into* Symbiota Collections of Arthropods Network
  - From one project to many projects
  - Supported by a common platform
  - Customized based on community input
- 3 TCNs SCAN, LepNet, and InvertEBase
- Each museum or project is a separate collection in the database
  - but all collections searchable together

a Data Portal Built to Visualize, Manipulate, and Export Species Occurrences



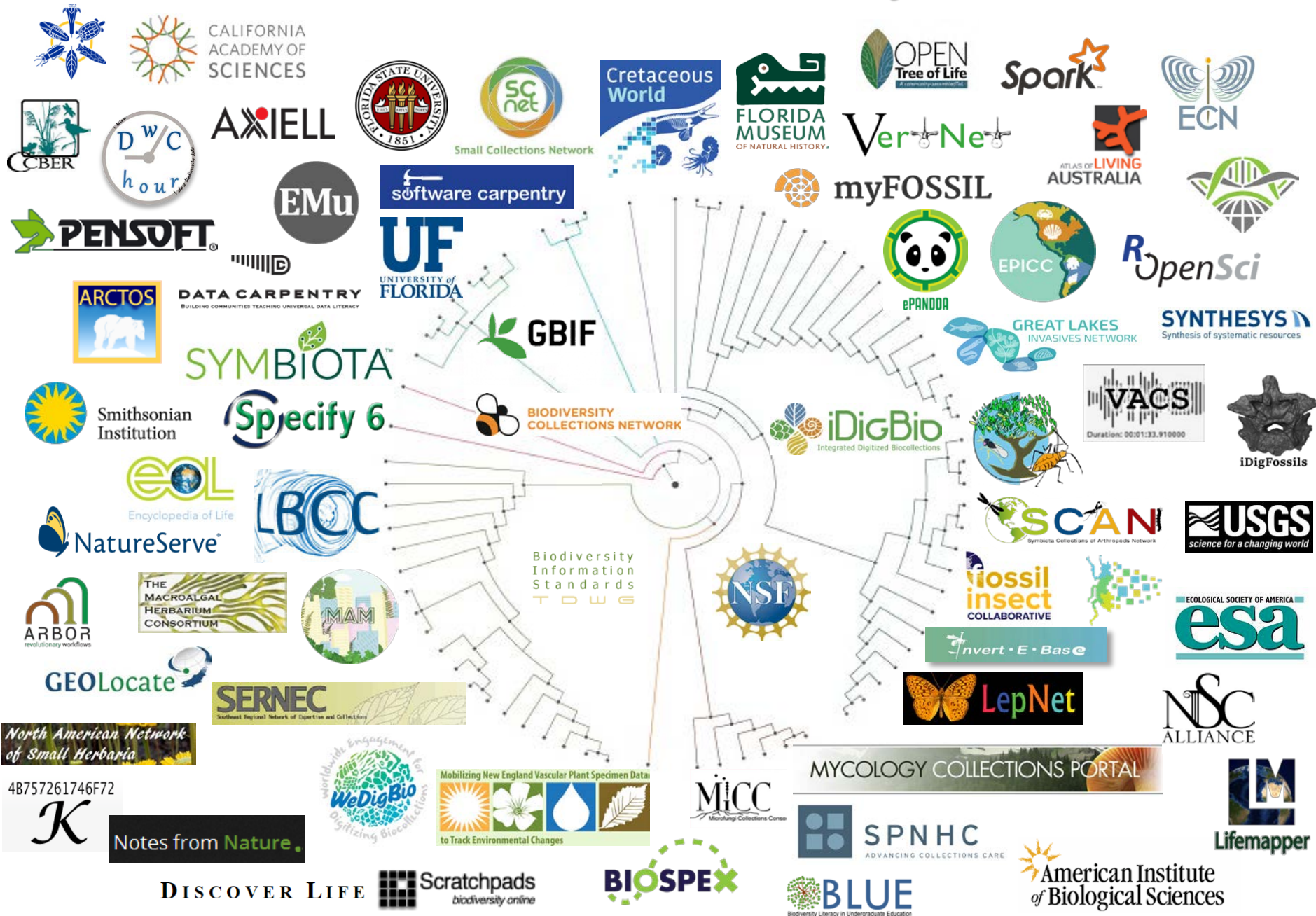


## Where are iDigBio & ADBC headed?

- Digitized data from **ALL** vouchered biodiversity collections
- Improve **data access & discoverability**
- Highlight/promote/facilitate **broad & diverse uses of biodiversity data**
- Promote/improve **data quality & standards**
- Develop **sustainability** strategies
- Facilitate **public participation** in digitization



# Collaboration is the key!





# Thank you!



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