

iDigBio is the Coordinating Center for the NSF's Advancing Digitization of Biodiversity Collections Program



Larry M. Page, Director





Goal of ADBC



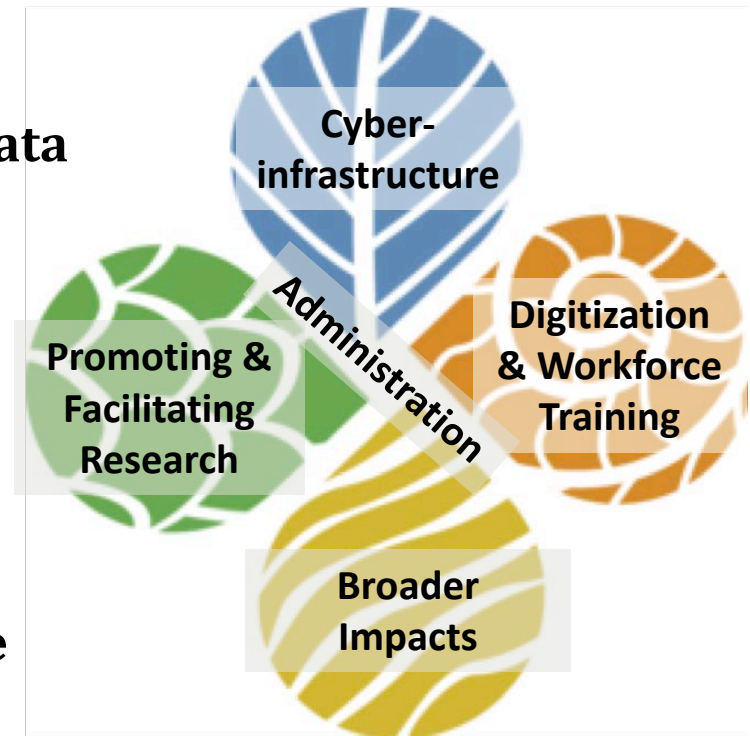
- *To remove the inaccessibility of specimen-based data in natural history collections* through **digitization**: information online for researchers, educators, policymakers, etc.

**\$100 million over 10 years
non-federal collections
(1st funding in 2011)**



What does iDigBio do?

- **Engage the collections community and facilitate digitization of biodiversity collections data**
- **Provide portal access to biodiversity data in a cloud computing environment**
- **Facilitate use of biodiversity data to address key environmental and economic challenges**
- **Plan for long-term sustainability of the national digitization network & effort**





Thematic Collections Networks (TCNs)



Groups of non-federal institutions

- **Digitize specimen-based data
around a research theme**

Digitizing = databasing, georeferencing, imaging

- **Provide data to iDigBio's search portal**



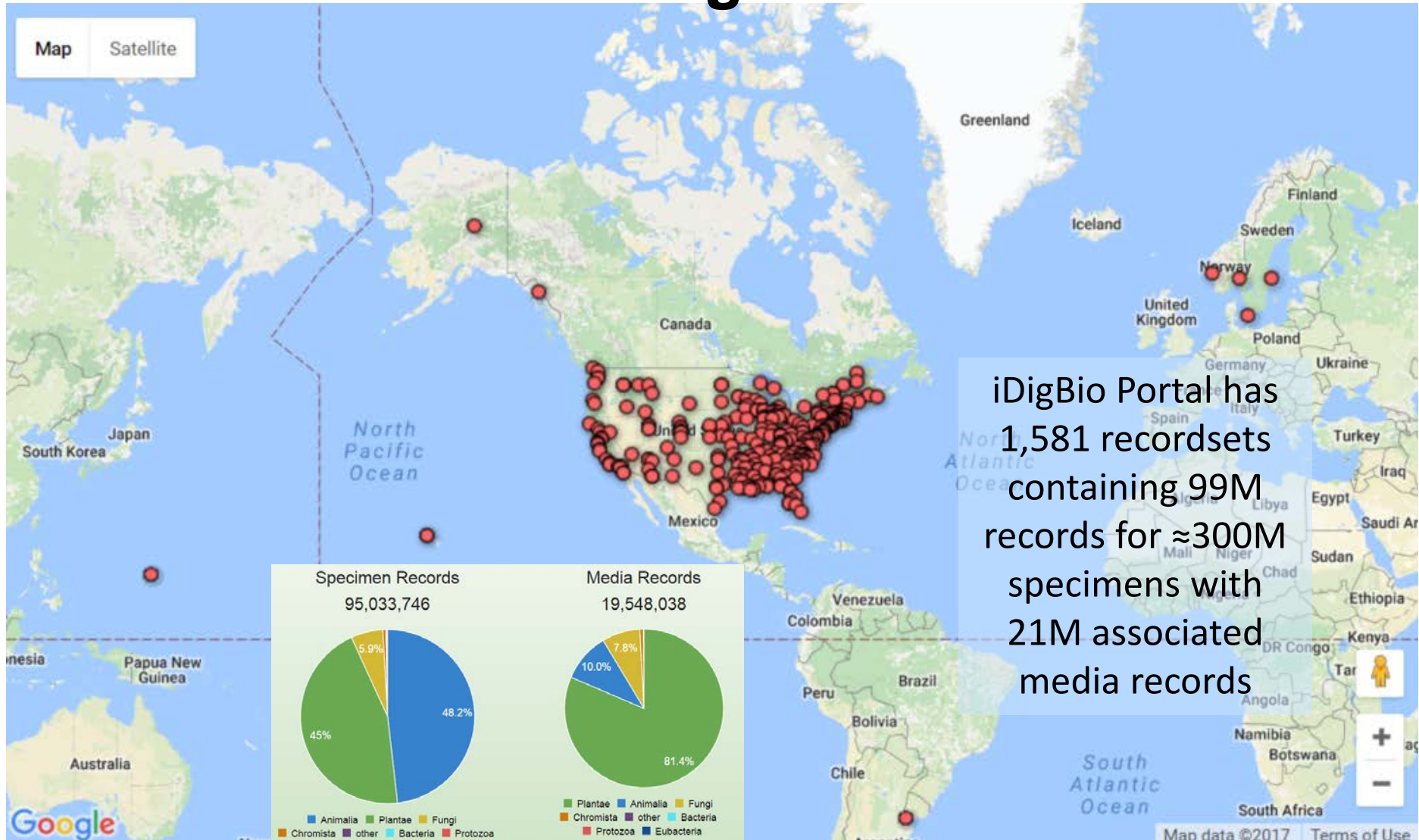


Thematic Collections Networks (TCNs)

- **18 TCNs funded**
- **495 collections at 289 institutions**



ADBC National Digitization Network



612 participating collections in 313 institutions

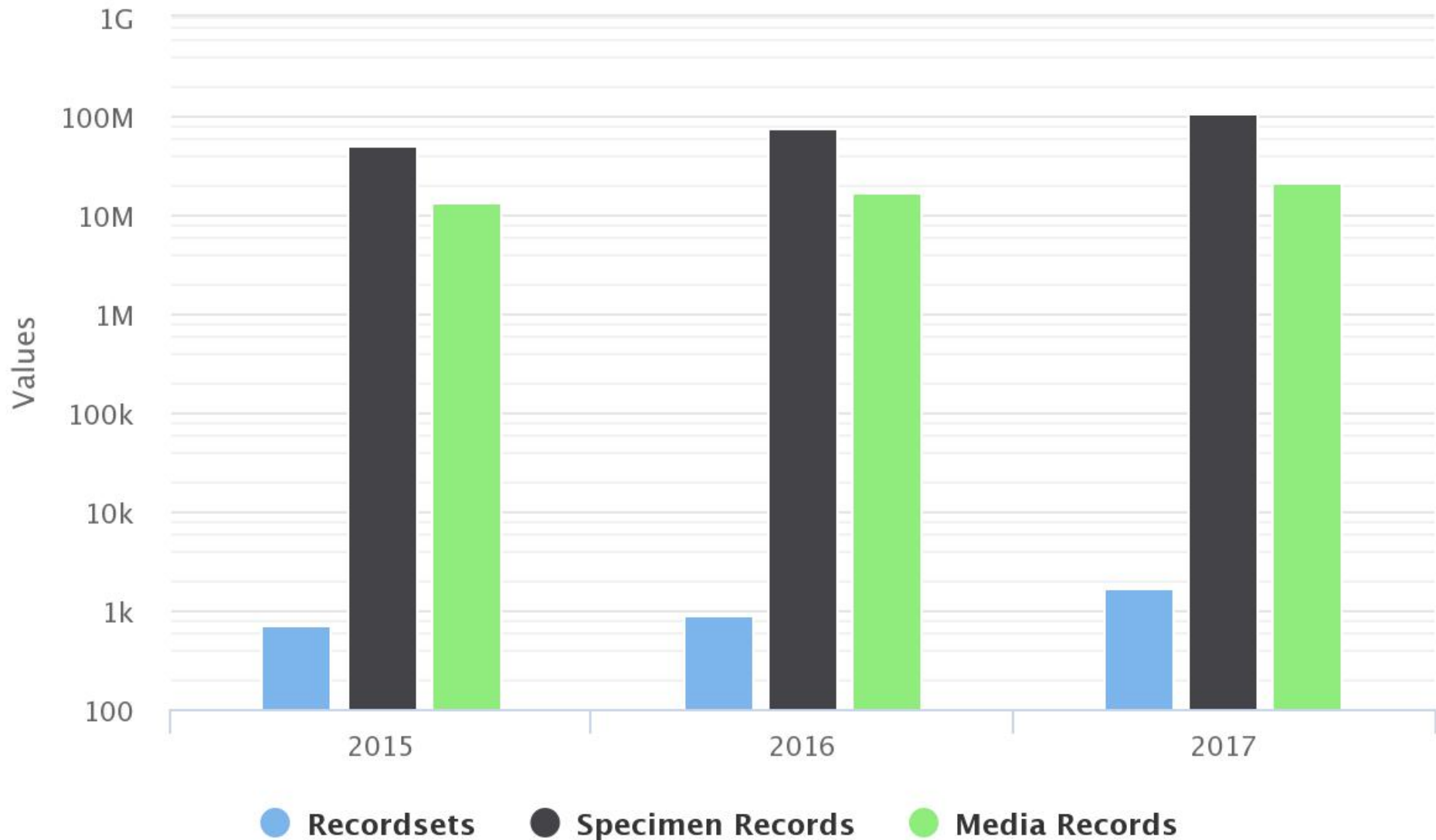


Progress

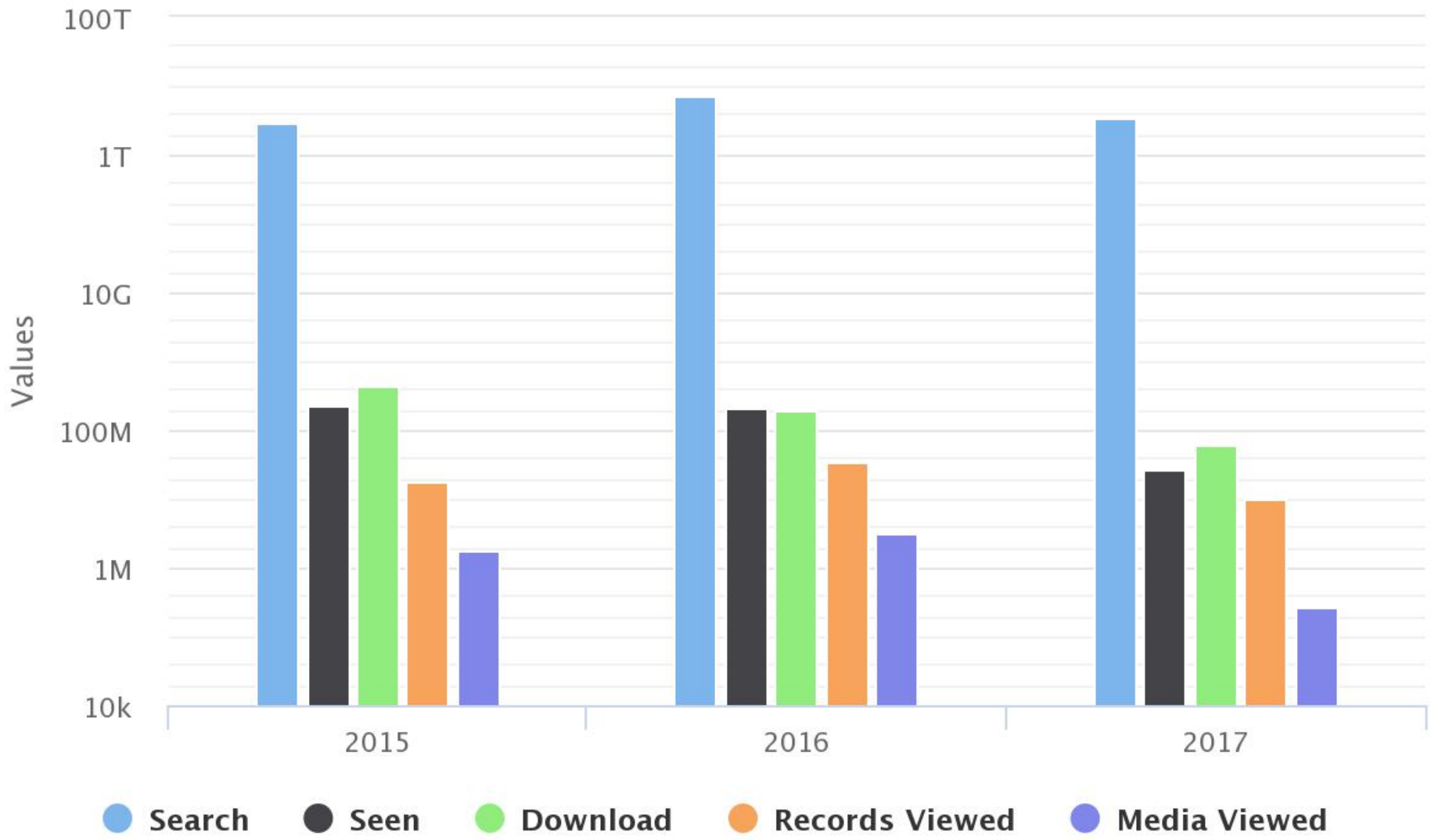
- Engage the collections community
- Facilitate digitization and mobilization of data
- Provide a search portal
- Promote research and outreach



Cumulative Data Ingested by Year

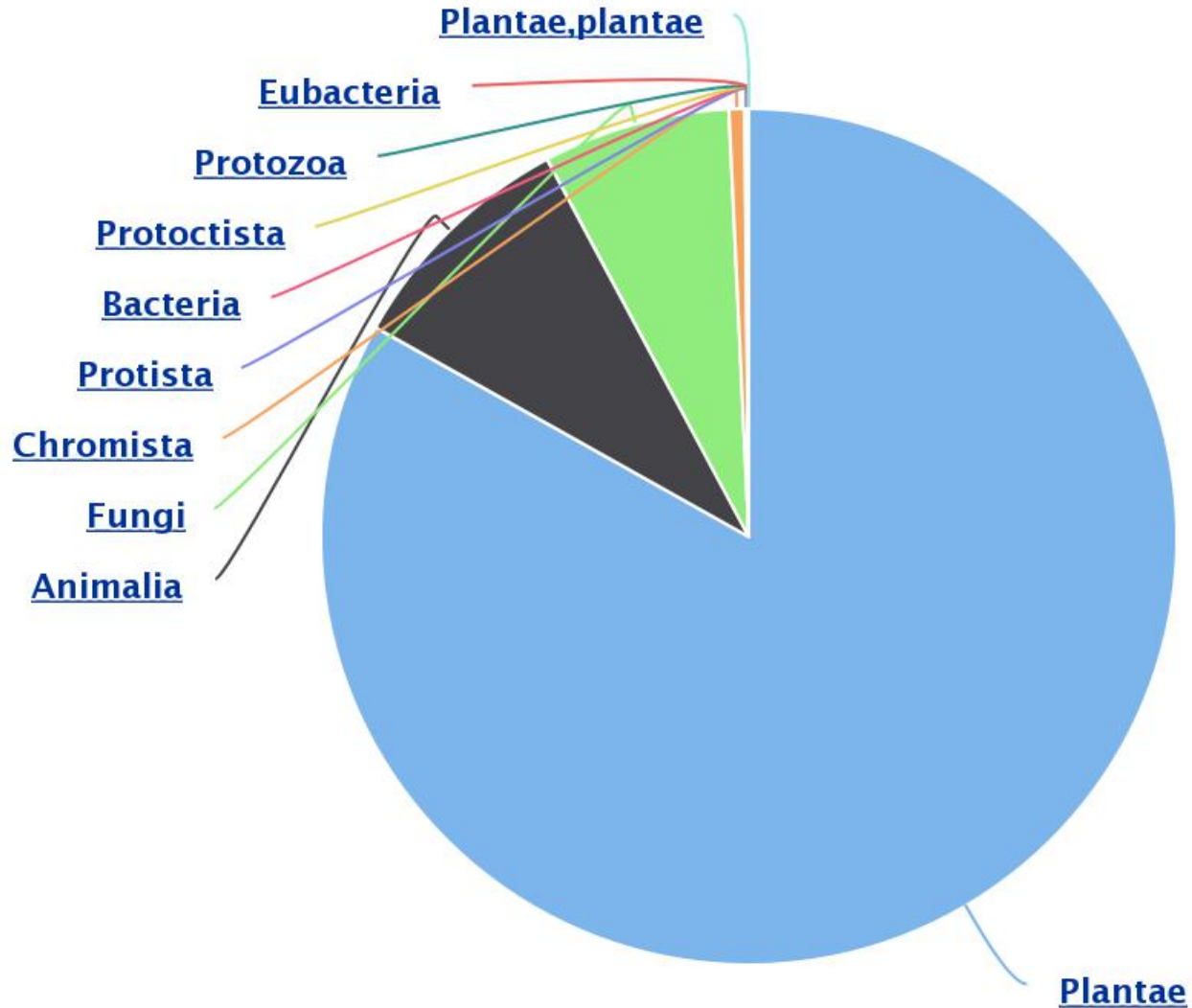


Data Use by Year

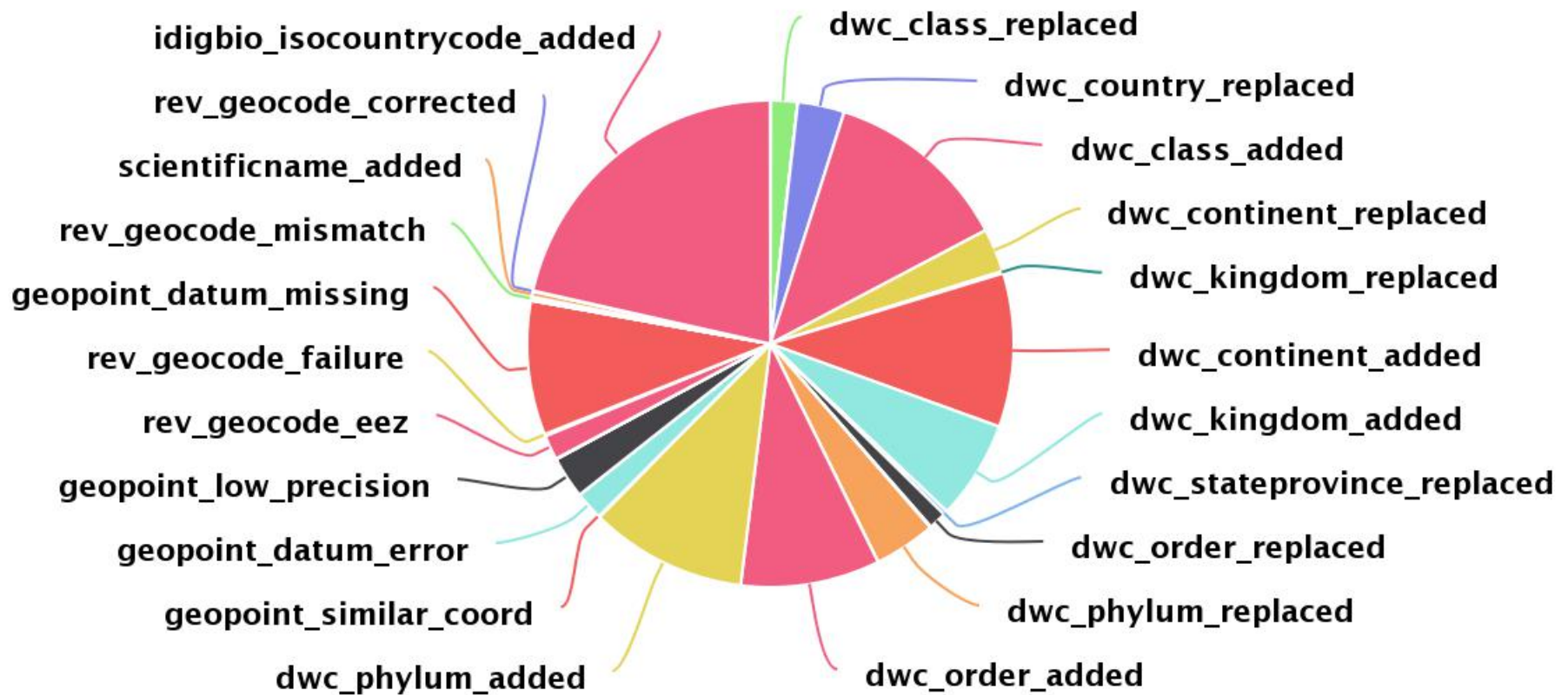


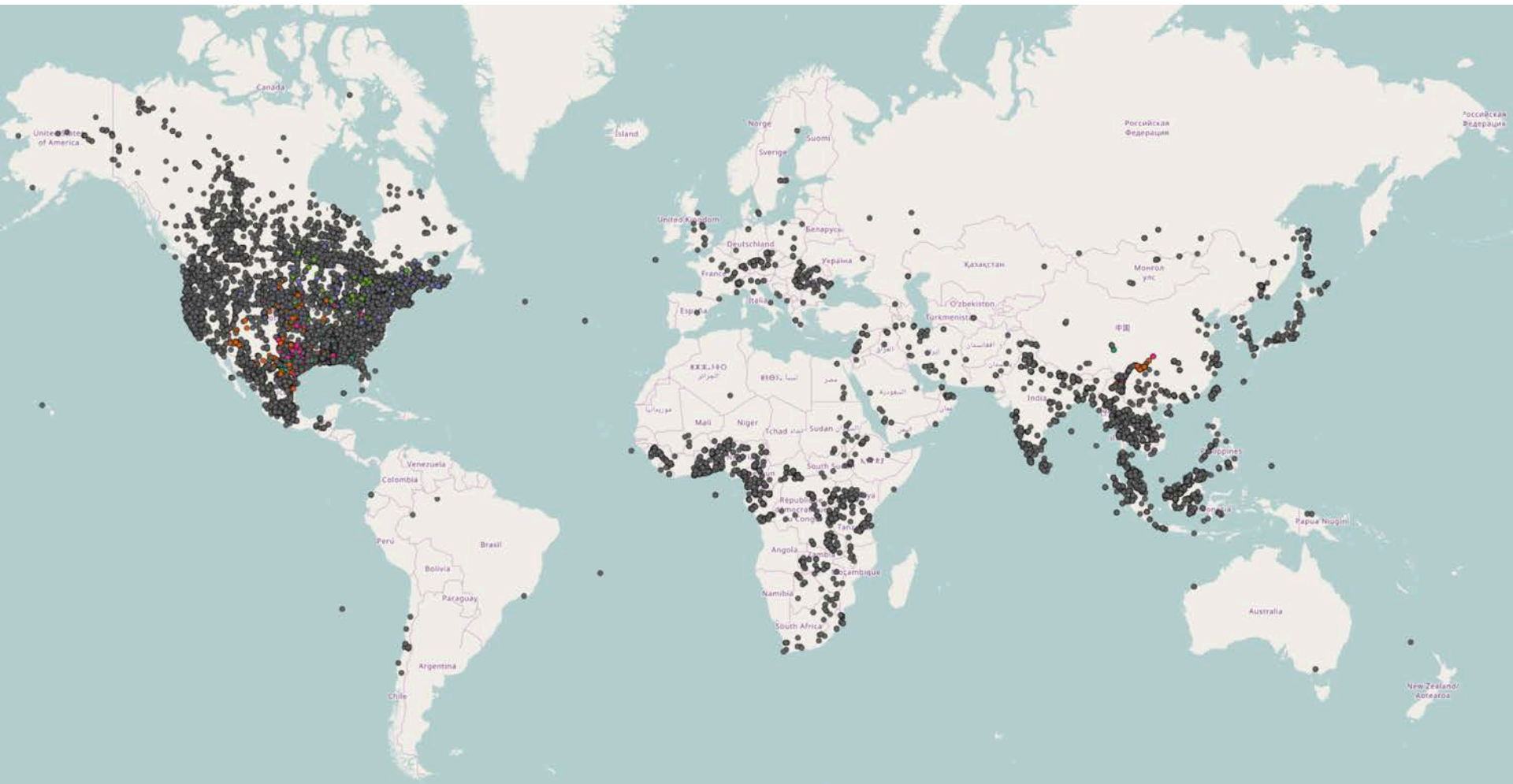


Top 10 Kingdoms and Families in Media Records

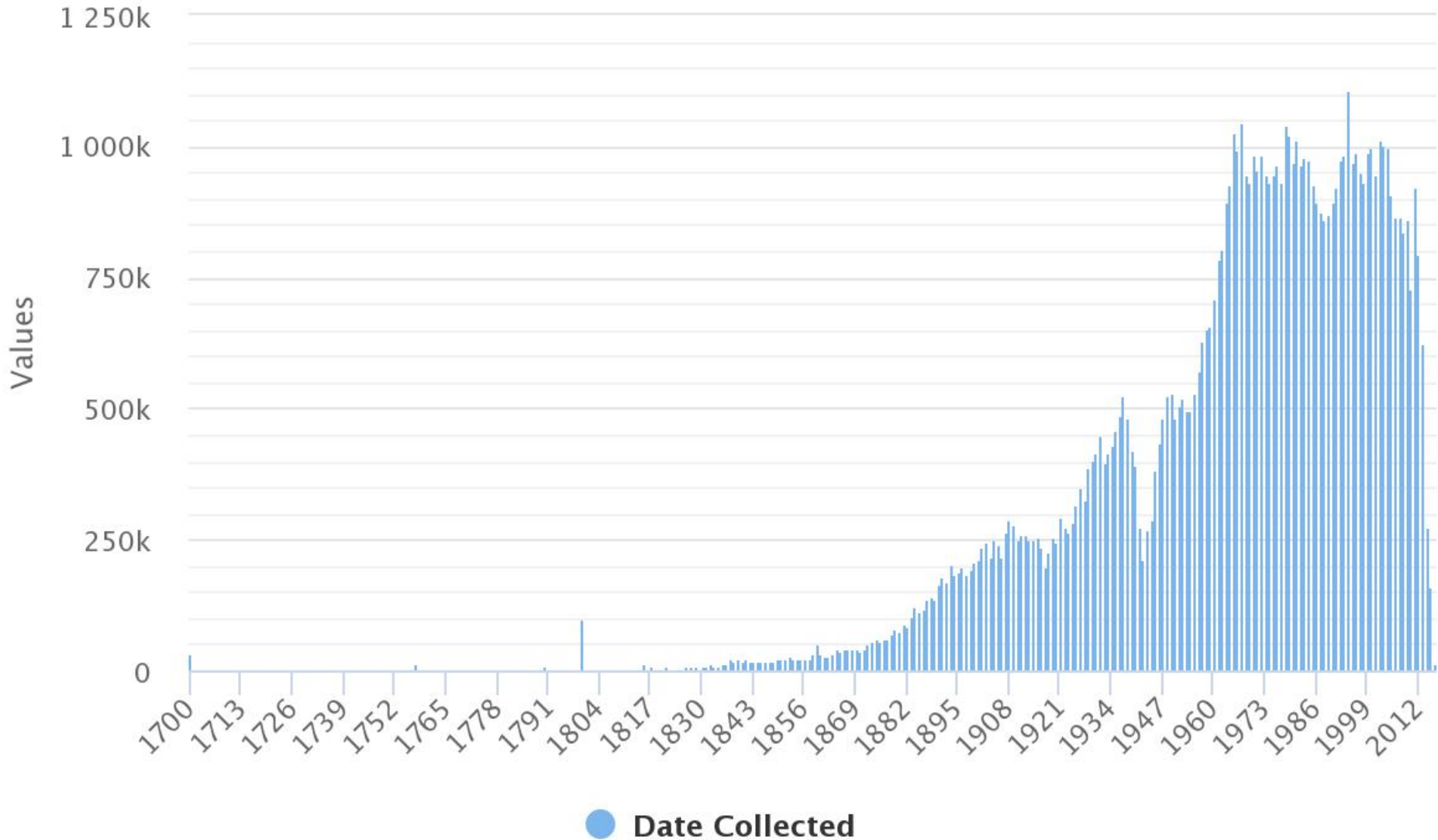


Records with Data Quality Flags





Temporal Coverage by Year





Progress

- Engage the collections community
- Facilitate digitization and mobilization of data
- Provide a search portal
- Promote research and outreach





- Engage the collections community
- Facilitate digitization and mobilization of data
 - **3,184 participants from 482 institutions at 85 workshops**
 - **2,586 participants at 78 webinars**



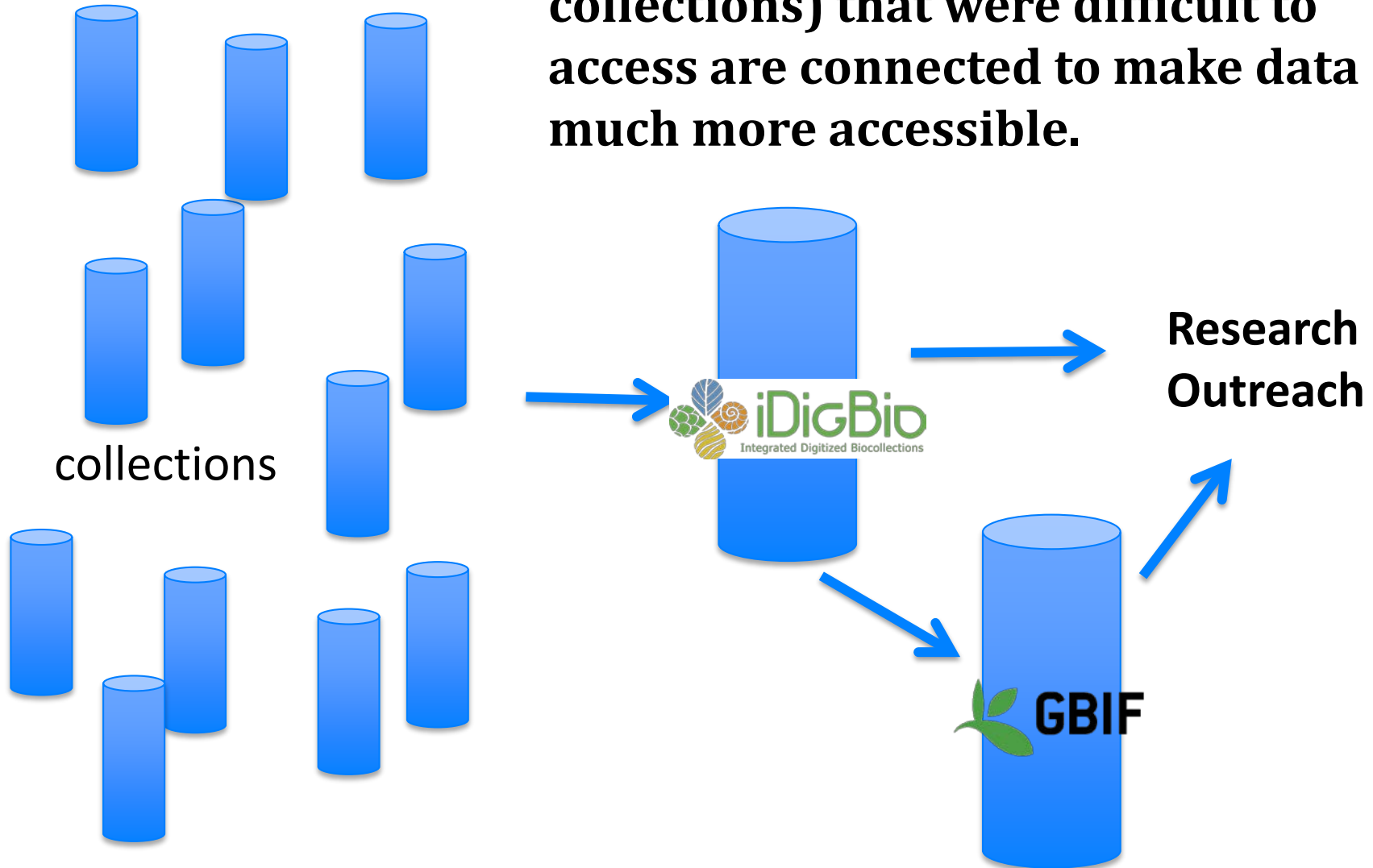


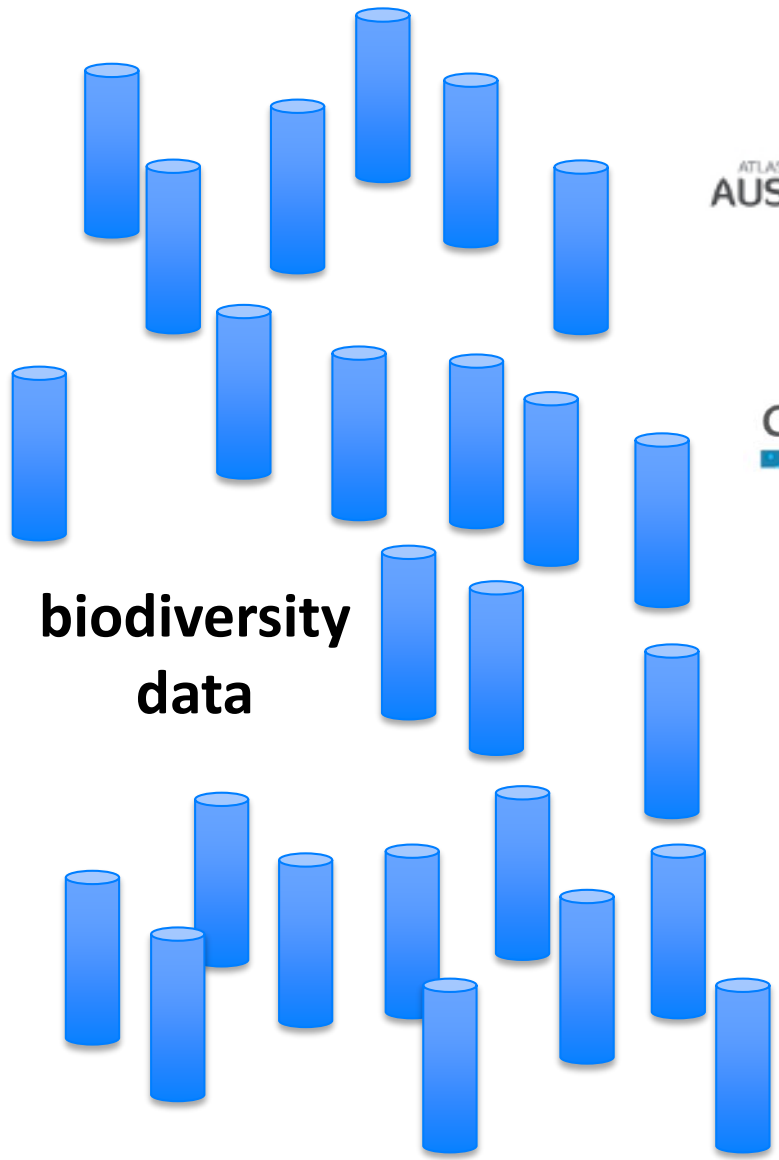
Future



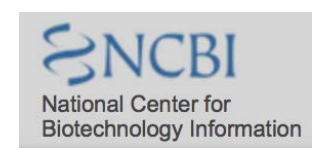
- ***Continue to engage collections community***
 - *Go international?*
- ***Improve quality of the data***
 - *(e.g. taxonomy; linking to other data)*
- ***Reward data providers***
 - *(Credit for use in publications, etc.)*
- ***Demonstrate value through research and outreach***
 - *(e.g., this conference)*

Small silos of data (institutional collections) that were difficult to access are connected to make data much more accessible.





Biodiversity Information Systems

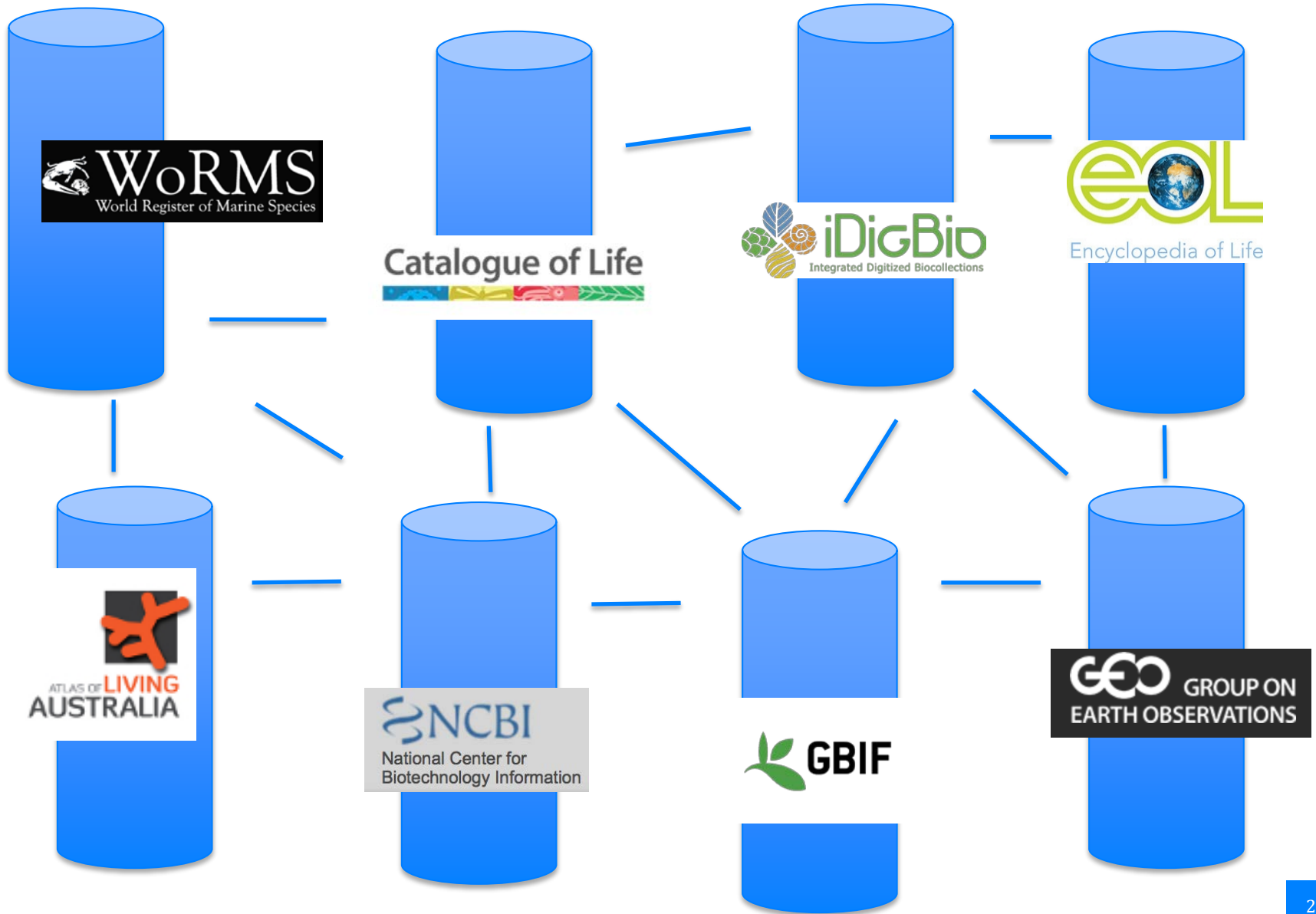


Good news:

Small silos of data (e.g., institutional collections) that were difficult to access are connected to make data much more accessible.

Bad news:

Small silos replaced by larger silos that are difficult to cross-search to combine data in ways required for integrative research.



International Collaborations



Exploring Synergies for Biodiversity Information Systems



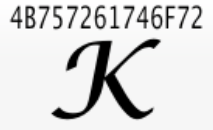
- R**OpenSci
- Compare the structure and goals of the various BIS
 - Enhance collaboration and interoperability,
 - Globally connect information for research and outreach



Collaboration!



Biodiversity
Information
Standards
TDWG



BIODIVERSITY
COLLECTIONS NETWORK



Smithsonian
Institution



NatureServe®



DISCOVER LIFE



Puerto Rico
Science, Technology
& Research Trust



Encyclopedia of Life

Symbiota



Notes from Nature.