Welcome to iDigBio/ADBC Summit VII

PIs: Larry Page, Director
  Greg Riccardi, Digitization
  Jose Fortes, Cyberinfrastructure
  Pam Soltis, Research
  Bruce MacFadden, Education & Outreach
  Project Manager: David Jennings

iDigBio: Digitizing the Past and Present for the Future

The goal of ADBC and the national digitization effort as outlined in NIBA Strategic Plan in 2010:

To digitize and make available online data associated with all specimens in all natural history collections in the U.S.
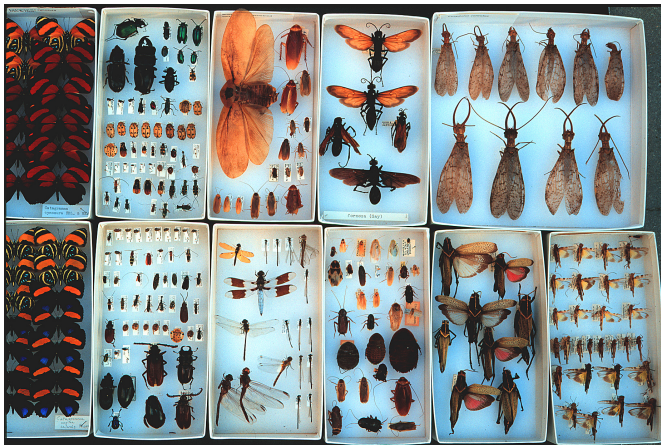
Number of specimens ~1 billion

Goal requires:
(1) Finding the specimens,
(2) Putting associated data into digital format,
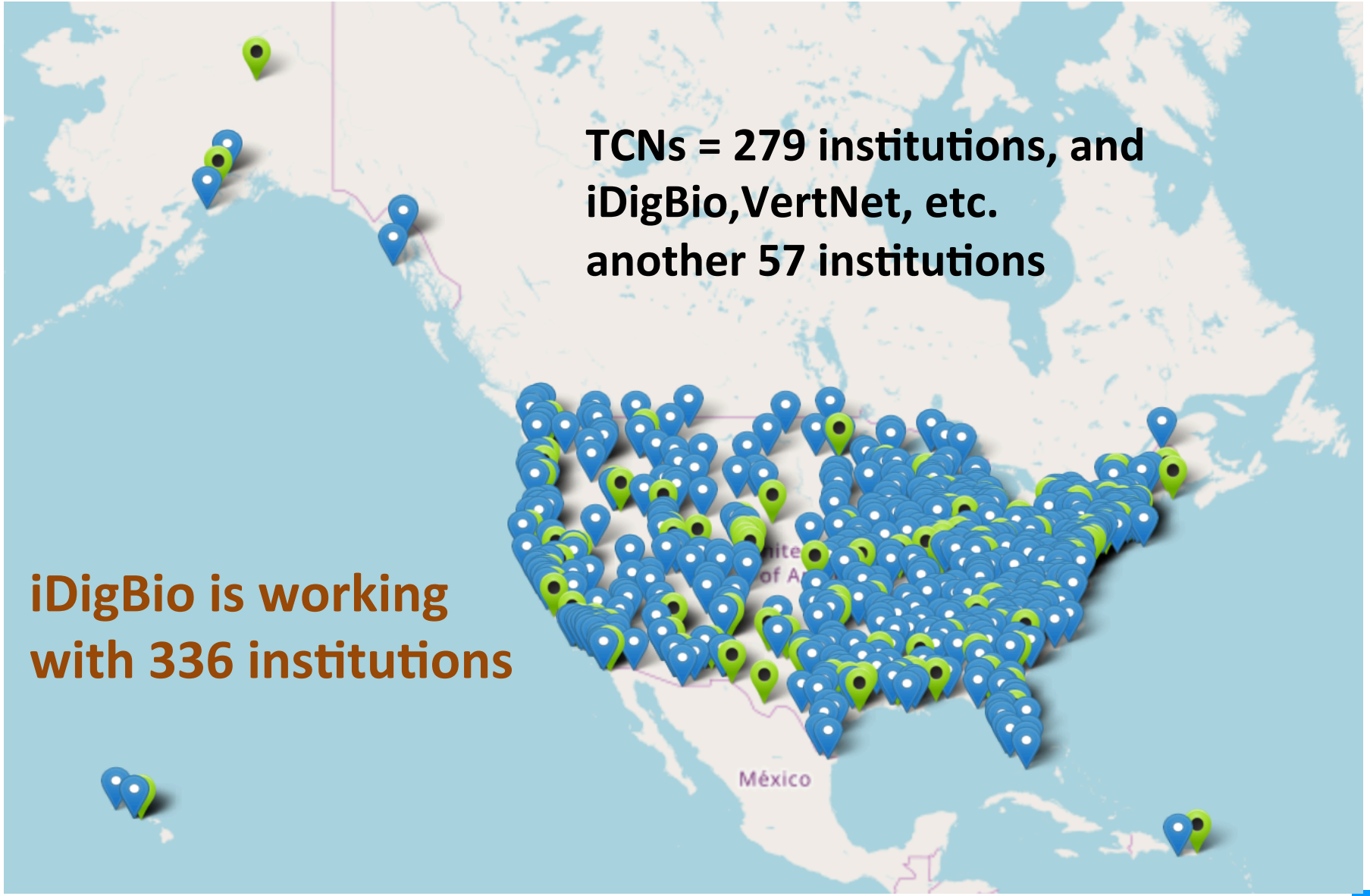# (3) Making data available online.

(1) Finding the specimens,
(2) Putting associated data into digital format,

NSF launched this effort by funding Thematic Collections Networks (TCNs) = groups of institutions with natural history collections organized around a research theme.

No. TCNs = 20
No. institutions in TCNs = 279

TCNs = 279 institutions, and iDigBio, VertNet, etc. another 57 institutions

iDigBio is working with 336 institutions

(3) making data available online.

Specimen records and data on associated media (2D, 3D images, audio recordings, tissues, etc.) are ingested by iDigBio

iDigBio Portal has 105M records for ~315M specimens with 22M associated media records

iDigBio Search Portal:

- **Aggregation of data across publishers and collections for research.**

- **Query creation using a point and click interface with support for indexed search criteria using dwc terms as well as custom fields.**

- **Interactive mapping with geospatial coordinates for display of results and restricting results via map bounding.**

- **A curated list of collections.**
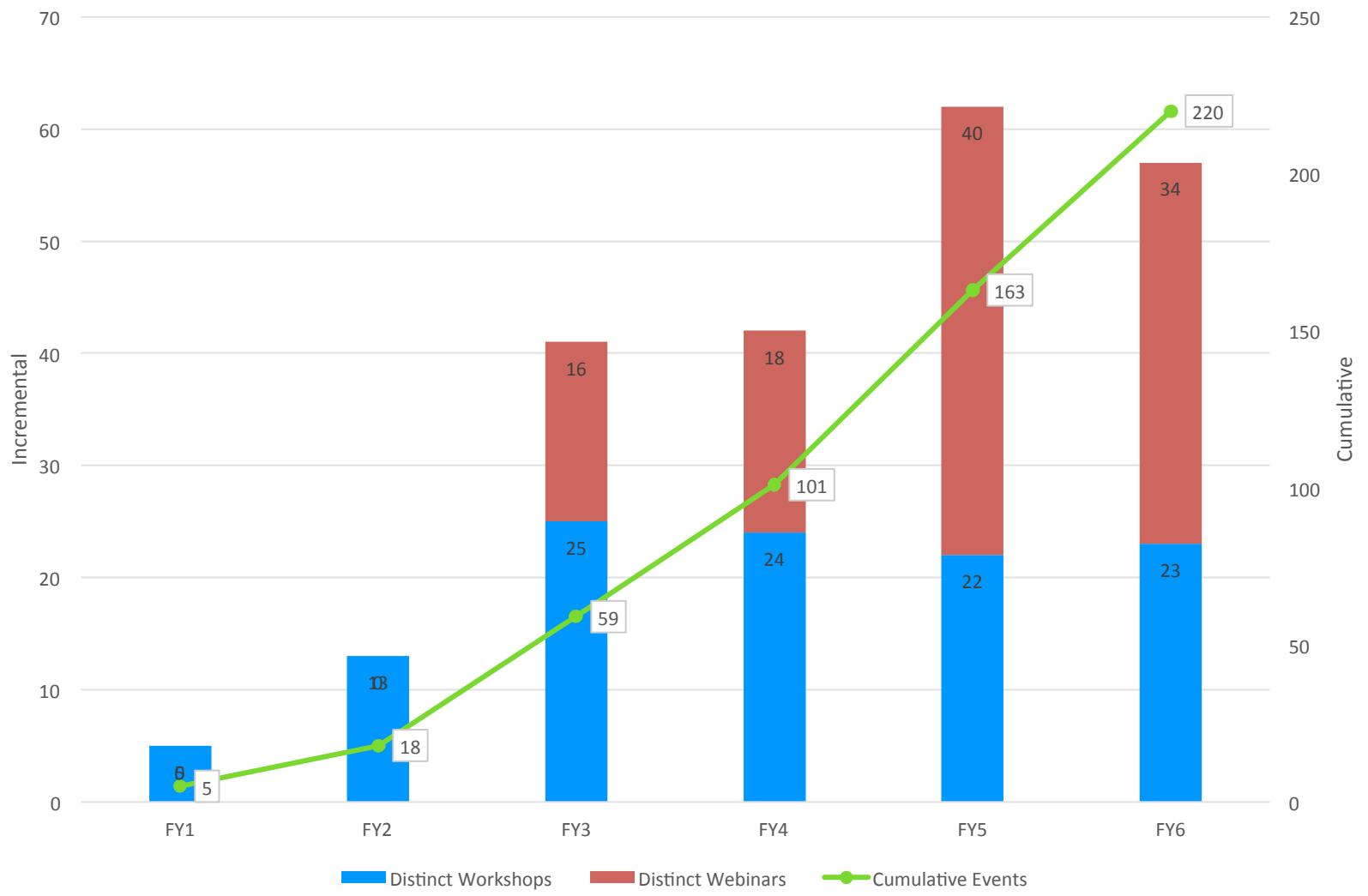
iDigBio Search Portal:

- **Ability to download customized results for offline processing.**

- **A robust media viewer that allows side by side viewing of specimen images using various image formats.**

- **Data standards and corrections are applied and displayed; changes made are quantified across an entire record set.**

- **Usage statistics reporting the number of times a specimen is accessed.**

All of this has required iDigBio to engage the collections community through workshops, webinars, and other events to develop workflows, train IT and collections staff, mobilize data, etc.
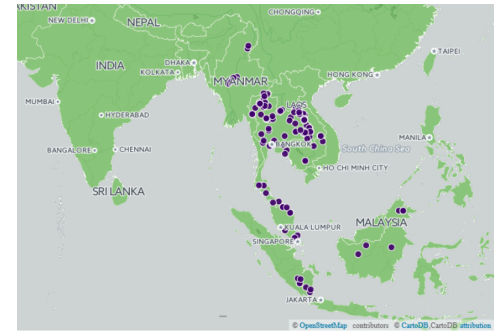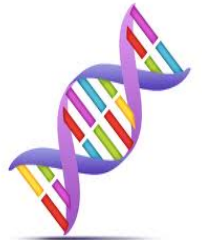
Number of Workshops and Webinars

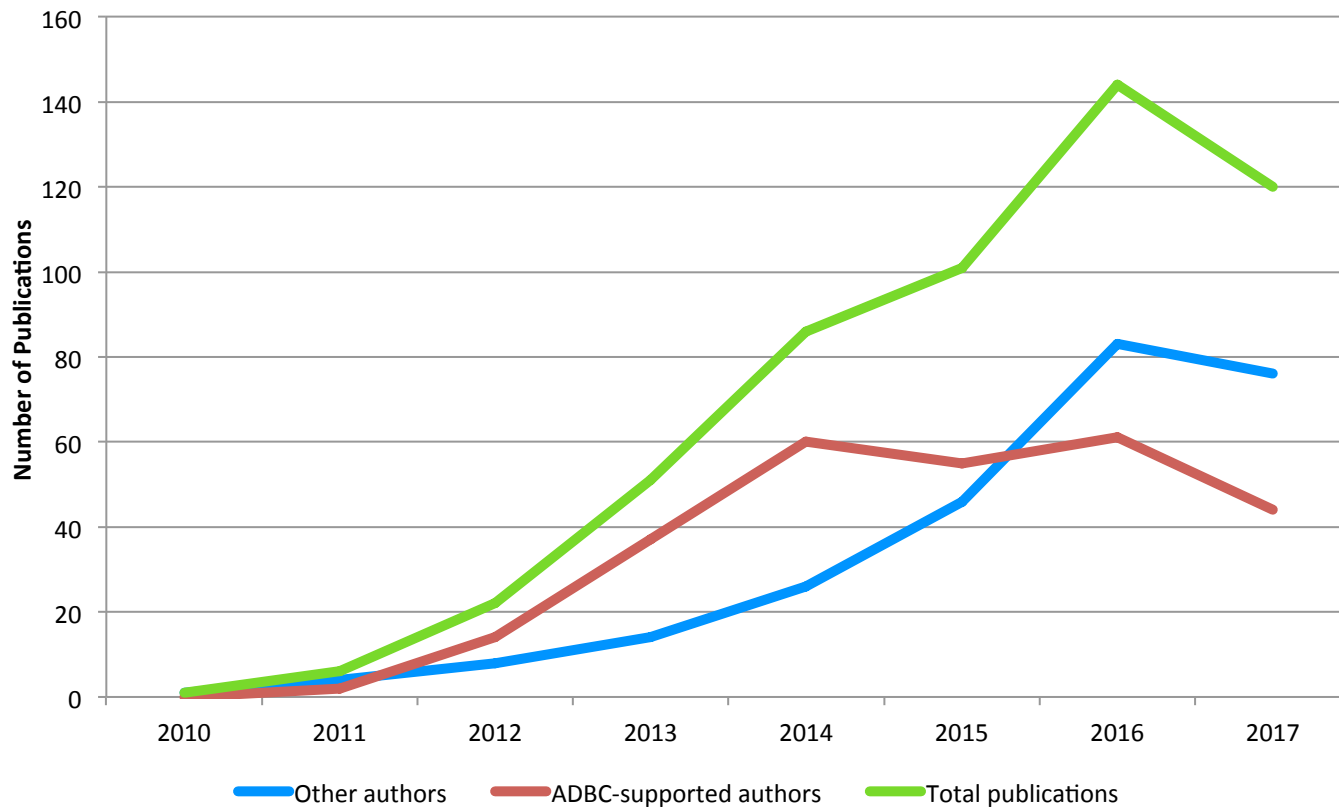iDigBio also promotes and coordinates data use in research, education and outreach.

This summit -- and other recent activities -- have increasingly concentrated on data use.
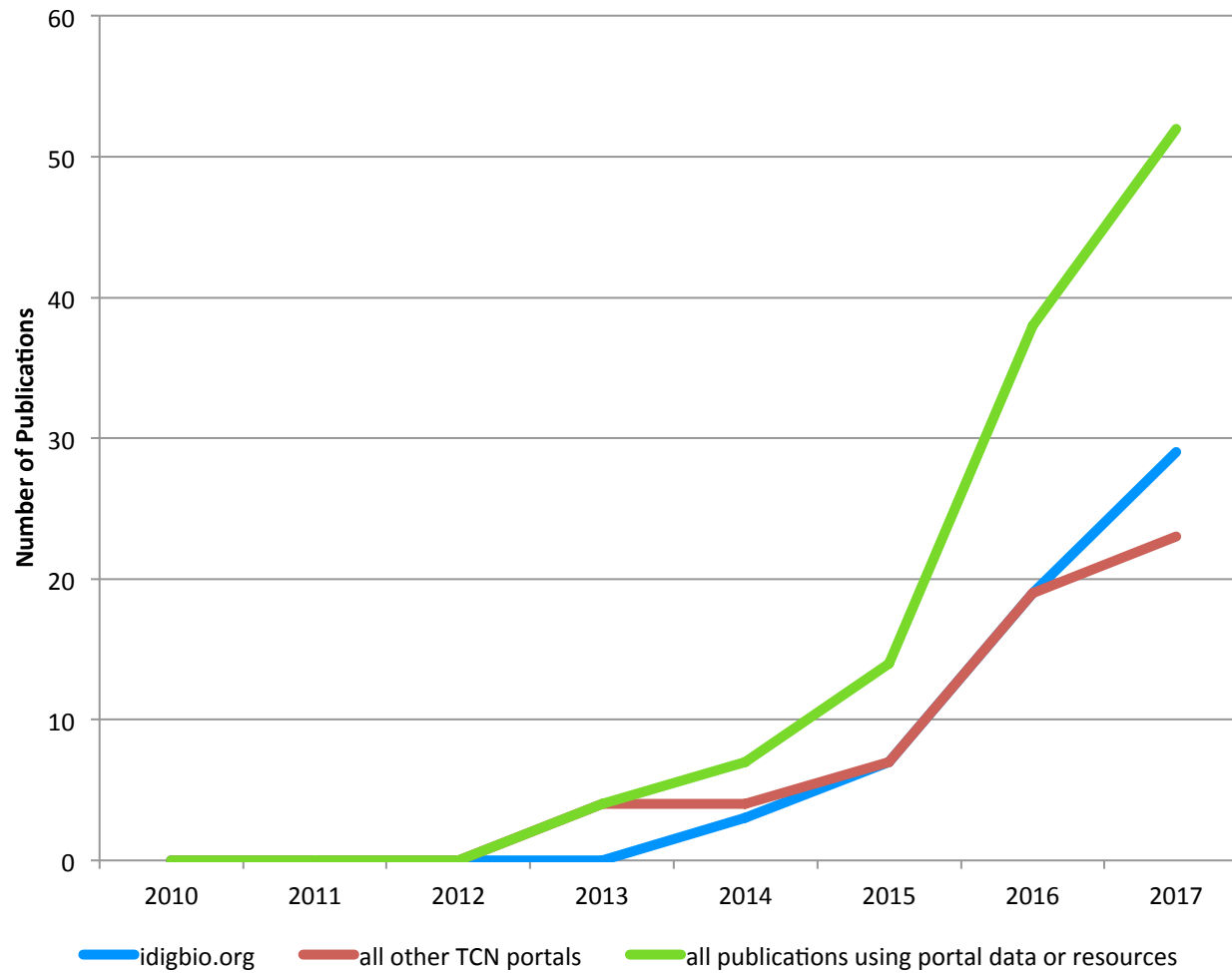

eudicots
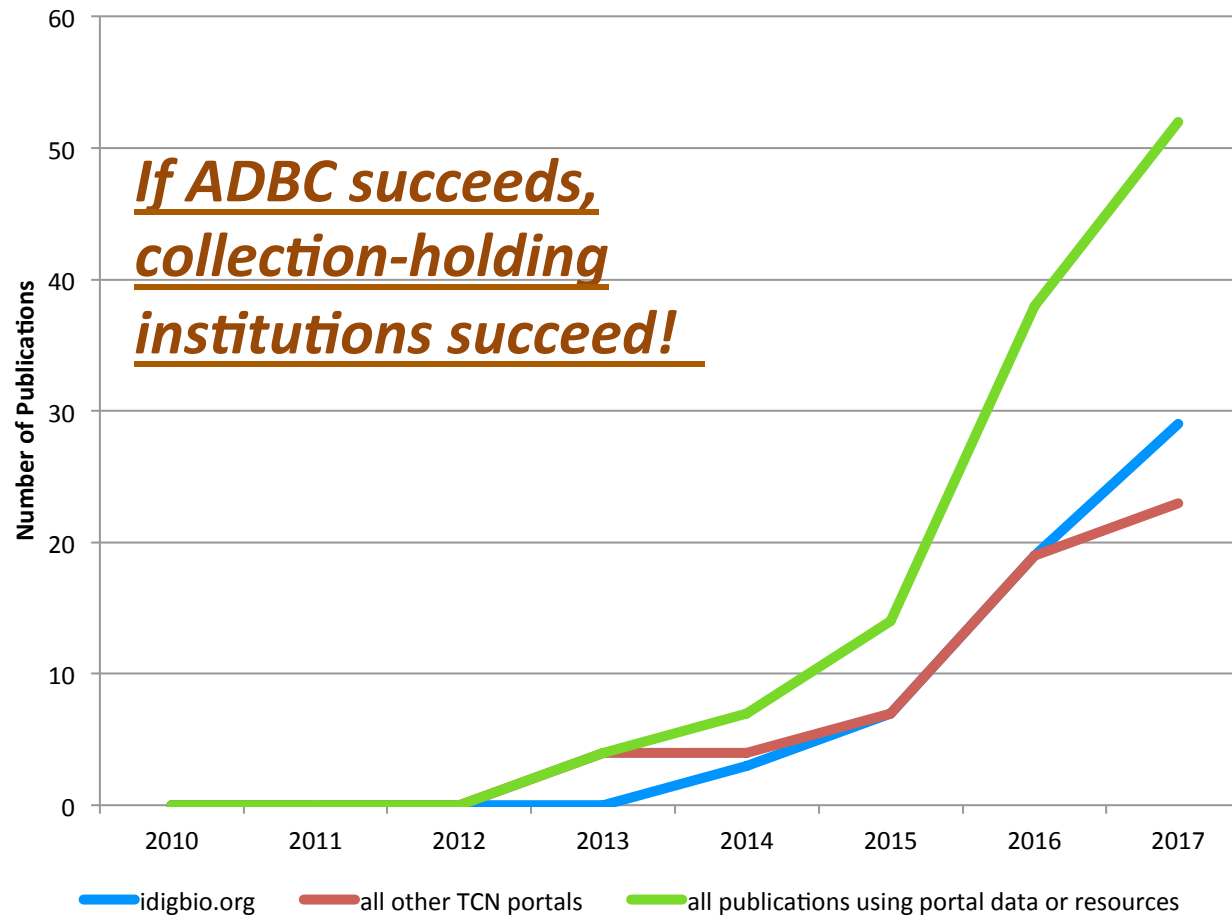(e.g. *Arabidopsis*, *Populus*, *Vitis*, *Carica*)

Ceratophyllum
monocots
(e.g. *Oryza*, *Zea*)
magnoliids
Chloranthaceae
Austrobaileyales
Nymphaeales
Amborella
Gymnosperms

Publications by Year

Publications Using idigbio.org or TCN portals

That we know of!

Publications Using idigbio.org or TCN portals or resources

If ADBC succeeds, collection-holding institutions succeed!

Legend: idigbio.org — all other TCN portals — all publications using portal data or resources

Y-axis: Number of Publications (0–60)
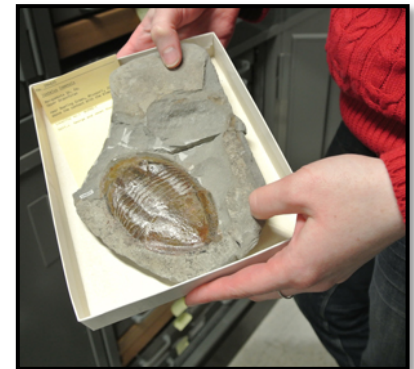X-axis: 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017

Where are iDigBio & ADBC headed?

- **Digitized data from ALL vouchered biodiversity collections**

- **Improve data access & discoverability**

- **Promote broad & diverse uses of biodiversity data**

- **Promote/improve data quality & standards**

- **Facilitate public participation in digitization**
  - e.g., **WeDigBio**
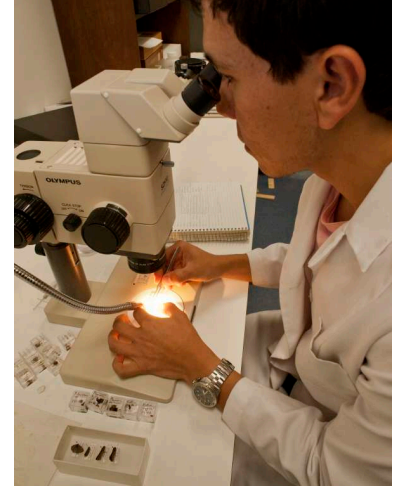
Where are iDigBio & ADBC headed?

iDigBio is working with 561 collections in 336 institutions

Of how many?
Currently 1,386 collections in iDigBio's Catalog of U.S.
Collections (561/1,386 collections in U.S. = 41%)

Specimen records: 106 million
(315 specimens of 1 billion) *one-third?*

Remaining institutions are <u>mostly</u> small.
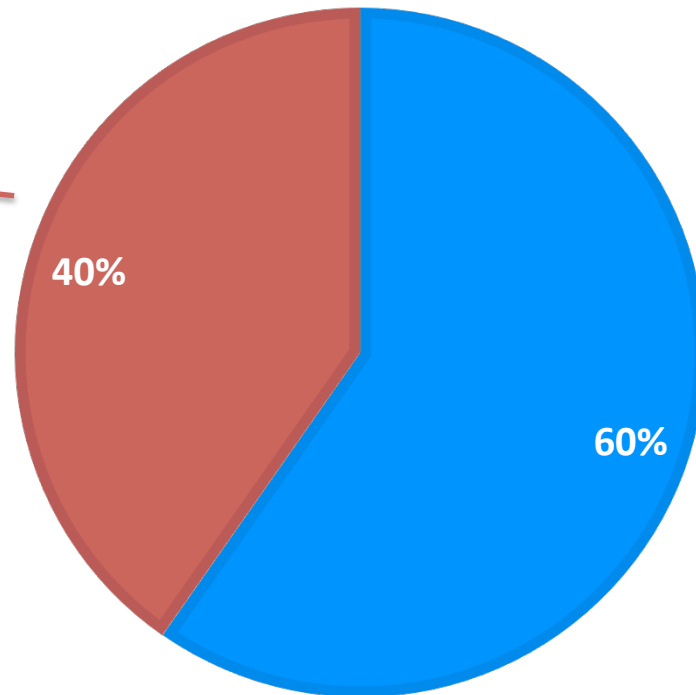Many remaining collections are not!

Progress in National Digitization Effort

1,386 TOTAL KNOWN U.S. COLLECTIONS

■ Have NOT provided data in iDigBio

■ HAVE provided data in iDigBio

561 collections from 336 institutions

40%

60%

Much work to be done. Summit VII will move us forward.

ENJOY THE SUMMIT!

Photos: M. Jeffords & G. Paulay