

## TCN/iDigBio Monthly Standing Meeting (Internal Advisory Committee)

May 15, 2013, 1:00 PM – 2:30 PM

**Onsite:** David Jennings, Joanna McCaffrey, Kevin Love, Larry Page, Shari Ellis, Cathy Bester

**Adobe Connect:** Toby Schuh, Corinna Gries, Robert Naczi, Chris Dietrich, Barbara Thiers, Bruce Lieberman, Neil Cobb, Deb Paul, Andrea Matsunaga, Bruce MacFadden

**Absent:** Katja Seltmann, Patrick Sweeney, Gil Nelson, Alex Thompson

## Action Items

May-June 2013: Neil would like an Adobe Connect meeting with Bruce M. to discuss outside E&O funding sources

May 2013: TCNs should add any new partners to the wiki page or contact Joanna

May 2013: David will provide links to the GUID guide and the iDigBio video.

May 25, 2013: Deb will contact Toby, Corinna, Chris, and Barbara for input on which of their TCN applicants to accept for the upcoming Georeferencing Train the Trainers workshop.

May 2013: The Tri-trophic TCN will write a blog on their Digitization short course

May 2013: Joanna will include Neil in upcoming discussions, meetings, and decision-making in regards to data ingestion and versioning

## Minutes

### General Updates/Housekeeping

- TCN Progress Reports are due – still need a report from SCAN (Neil Cobb)
- Next meeting – July 10, 2013, 1-3pm
- Upcoming events listed below and also on the website with more detail:
  - SPNHC 2013 – Symposium                      Jun 17-22              Rapid City, SD
  - Botany 2013 – 3 Symposia                      July 27-31              New Orleans, LA
  - Georeferencing Train-the-Trainer II              Aug 12-16              Gainesville, FL
  - Progressive Specify Workshop              Aug 12-16              Lawrence, KS
  - Invertebrate Imaging Workshop              Sept 16-18              Ann Arbor, MI
  - Paleocollections Digitization              Sept 23-26              New Haven, CT
  - iDigBio Summit III                      Nov 18-21              Tallahassee, FL

### iDigBio Progress Updates

- **NSF Site Visit & iDigBio Retreat**
  - We are working on our strategic plan based on feedback during our NSF visit
  - NSF suggestions included: tracking communications – we are looking at customer relationship feedback management software.
  - David presented a powerpoint that covered iDigBio's progress, feedback from the community survey, and recommendations from the External Advisory Board (EAB) and the NSF site review panel (see attached).

### Discussion Items

- **Education and Outreach**
  - iDigBio E&O Subcommittee was recently formed to ramp up our efforts. Goals include initiating and facilitating along with coordinating the activities of the HUB/TCNs for mutual benefit. Bruce MacFadden is the chair of this subcommittee. iDigBio is hiring an education outreach coordinator to facilitate E&O activities in the next month.

- First E&O Workshop has tentatively been scheduled for January 2014; E&O will become a regular item on the TCN/iDigBio monthly meeting agenda.
- TCN Representatives - all TCNs are encouraged to have point person to participate in this subcommittee (see attached). The TCNs have little to no funding for broader impacts/E&O and as such the TCNs will need to locate other funding sources. Bruce is willing to participate in a brainstorming session with the TCNs in search of addition funding sources. Neil would like to participate in such a session.
- We are planning to create more Explore Research videos in the future and welcome the TCNs input on topics. Link to the first video about iDigBio (low resolution): <https://www.idigbio.org/sites/default/files/internal-docs/retreat/idigbio-explore-research-video1.mp4>
- **Tracking data ingestion more closely**
  - iDigBio is actively ingesting data.
  - Joanna will be participating in individual discussions with each TCN in regards to data ingestion, which will help iDigBio plan ahead.
- **Maintaining TCN wiki pages and updating TCN contributor lists**
  - If the TCNs have additional partners, please be sure to add them to your wiki page or email Joanna
  - The GUID guide has been republished and is available on the iDigBio web site. In addition, more technical (data) documents will be forthcoming in the near future. Link to the revised GUID guide: <https://www.idigbio.org/content/guid-guide-data-providers-0>
- **Sustainability of TCN Networks**
  - We need to consider how this will be addressed by TCNs as their funding comes to an end.
  - Everyone agreed that funding is the best insurance for sustainability.
  - In addition, the collaborations/partnerships that have been developed are key.
- **Closure plan for TCNs entering their 3<sup>rd</sup> year**
  - Toby: The entomology collection at AMNH is their largest collection with a relatively short track record of digitization. Assuming it's an institutional objective, significant progress will require additional outside funding.
  - Rob: NYBG is committed to digitization but as a non-profit, we have to search for outside funding.
  - Chris: The momentum being generated will hopefully carry us into the future. A community-wide effort hopefully will resonate with museum administrators.
  - Corinna: Our TCN is focused on involving a large network and will need support for community resource. Hopefully the younger generation will pick this up. There is a need for basic support of infrastructure which will require additional outside funding.
  - Bruce L.: There should be a policy for professional societies to include specimen numbers and systematics that publish in their journals.
  - Joanna: Everyone should use community relations and strengths to continue collaboration within the network.
  - Larry inquired about the possibility of each TCN requesting an additional year/no cost extensions. Toby does not intend to do so, their TCN started up 6 months following the award and will run over 6 months. Chris is not sure about asking for an extension at this point. Corinna reported that their TCN may run a little over (Note: the first year (3) TCNs are all four year awards).

**Other Topics:**

- **Georeferencing Train The Trainer Workshop II**

- Deb will contact Toby, Chris, Corinna, and Barbara for input on which of their TCN applicants should be accepted for the TTT workshop.
- **Data Management Plans**
  - Neil suggested that NSF include a data management plan as an unfunded mandate as an opportunity to ensure that they cover funds for items such as digitizing specimen data as part of the data management plan. This should be discussed with NSF. Toby stated that for example, during field work, one might collect thousands of specimens but not enough funds to digitize every one. There are limits as to what you can extrapolate from the data management plan. Neil sees this is a real opportunity for digitization to become part of NSF's mindset.
- **TCN Form**
  - David asked for input on the newly created online form. Issues included not being able to import a jpg file (Neil) and not easy to download in a readable format (Barbara).
- **Tri-trophic TCN digitization short course**
  - Rob informed us that the Tri-trophic TCN short course on digitization has started. There are 24 students out of 70 total applicants. Deb suggested that Katja write up a blog article about this course.
- **Data ingestion and versioning**
  - Neil asked what is the relationship between iDigBio and GBIF/BISON? ACIS and the iDigBio PIs are in discussion with GBIF and BISON, no plans yet but hopefully something will be firmed up in the next month or so.
  - In regards to versioning, data fields have been truncated in GBIF so it would be best to get data from the original sources. We are not ingesting data from GBIF yet; same applies to BISON. iDigBio is talking to the Map of Life but unsure as to what the future relationship will be with them. Walter would like iDigBio data; he would rather serve his product with our data through his own portal. Neil brought up that having three portals - iDigBio, GBIF, and BISON is useful but creates problems and confusion. Neil would like to be included on the list to be involved with this aspect of the project (decision process/related meetings) – Joanna will add him – this topic needs to be a priority.

**TCN Updates – see attached**

**Adjourned at 2:20 PM**

## Agenda for May 2013 Internal Advisory Committee Meeting

**Date/Time:** May 15, 2013 1:00 - 3:00 PM Eastern  
**Invitees:** Toby Schuh, Katja Seltmann, Corinna Gries, Robert Naczi, Chris Dietrich, Shari Ellis, Cathy Bester, Gil Nelson, Deb Paul, Andréa Matsunaga, Alex Thompson, Kevin Love, Larry Page, Joanna McCaffrey, David Jennings, Bruce Lieberman, Barbara Thiers, Patrick Sweeney, Neil Cobb

**Additional participation from TCNs is welcomed and encouraged.**

**Meeting Location:** Building 105, Room 310

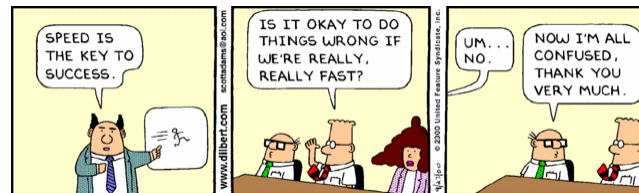
**Remote Access:** <http://idigbio.adobeconnect.com/iac/>

*VoIP access is available through Adobe Connect, or you may alternatively dial 866-284-8871 (less preferred due to per-minute charges).*

Time	Item	Owner																					
1:00 PM	<p><b>General Updates/Housekeeping:</b></p> <ul style="list-style-type: none"> <li>• TCN progress reports to iDigBio are now due:  <a href="https://www.idigbio.org/content/tcn-bi-monthly-progress-report-idigbio">https://www.idigbio.org/content/tcn-bi-monthly-progress-report-idigbio</a></li> <li>• Next meeting: Wednesday, July 10, from 1-3 pm Eastern</li> <li>• Upcoming iDigBio sponsored meetings/workshops/events:               <table border="0" style="margin-left: 20px;"> <tr> <td>○ SPNHC 2013 – Symposium &amp; DemoCamp</td> <td>Jun 17-22</td> <td>Rapid City, SD</td> </tr> <tr> <td>○ Botany 2013 – Symposia (3) &amp; Exhibit</td> <td>July 27-31</td> <td>New Orleans, LA</td> </tr> <tr> <td>○ Georeferencing Train-the-Trainer II</td> <td>Aug 12-16</td> <td>Gainesville, FL</td> </tr> <tr> <td>○ <i>Progressive Specify Workshop ??</i></td> <td><i>Aug 12-16 ??</i></td> <td><i>Lawrence, KS ??</i></td> </tr> <tr> <td>○ Invertebrate Imaging Digitization</td> <td>Sept 16-18</td> <td>Ann Arbor, MI</td> </tr> <tr> <td>○ Paleocollections Digitization</td> <td>Sept 23-26</td> <td>New Haven, CT</td> </tr> <tr> <td>○ iDigBio Summit III</td> <td>Nov 18-21</td> <td>Tallahassee, FL</td> </tr> </table> </li> </ul>	○ SPNHC 2013 – Symposium & DemoCamp	Jun 17-22	Rapid City, SD	○ Botany 2013 – Symposia (3) & Exhibit	July 27-31	New Orleans, LA	○ Georeferencing Train-the-Trainer II	Aug 12-16	Gainesville, FL	○ <i>Progressive Specify Workshop ??</i>	<i>Aug 12-16 ??</i>	<i>Lawrence, KS ??</i>	○ Invertebrate Imaging Digitization	Sept 16-18	Ann Arbor, MI	○ Paleocollections Digitization	Sept 23-26	New Haven, CT	○ iDigBio Summit III	Nov 18-21	Tallahassee, FL	David
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3:00 PM	<b>Adjourn</b>	David																					

TCN	Award #	PI	email	Institution	Cohort	E&O contact	Institution	email
Lichens & Bryophytes	1115116	Corinna Gires	<a href="mailto:cgries@wisc.edu">cgries@wisc.edu</a>	U WI	1	John Brinda	Mo Bot Garden	<a href="mailto:john.brinda@mobot.org">john.brinda@mobot.org</a>
						Tom Nash	ASU	<a href="mailto:tom.nash@asu.edu">tom.nash@asu.edu</a>
Invert Net	1115112	Chris Dietrich	<a href="mailto:chdietri@illinois.edu">chdietri@illinois.edu</a>	U IL	1	Brendan Morris	U IL	<a href="mailto:brenolmorris@gmail.com">brenolmorris@gmail.com</a>
Tritrophic	1115144	Toby Schuh	<a href="mailto:schuh@amnh.org">schuh@amnh.org</a>	AMNH	1	Katja Seltman	AMNH	<a href="mailto:enicospilus@gmail.com">enicospilus@gmail.com</a>
PaleoNICHES	1206757	Bruce Lieberman	<a href="mailto:blieber@ku.edu">blieber@ku.edu</a>	U KS	2	Jonathan Hendricks	San Jose State U	<a href="mailto:jonathan.hendricks@sjsu.edu">jonathan.hendricks@sjsu.edu</a>
SCAN	1207371	Neil Cobb	<a href="mailto:neil.cobb@nau.edu">neil.cobb@nau.edu</a>	N AZ U	2	Melody Basham	AZ State U	<a href="mailto:Melody.Basham@asu.edu">Melody.Basham@asu.edu</a>
Macrofungi	1207526	Barbara Thiers	<a href="mailto:bthiers@nybg.org">bthiers@nybg.org</a>	NYBG	2	Barbara Thiers	NYBG	<a href="mailto:bthiers@nybg.org">bthiers@nybg.org</a>
NE Vascular Plants	1209149	Parick Sweeney	<a href="mailto:patrick.sweeney@yale.edu">patrick.sweeney@yale.edu</a>	Yale	2	Richard Primack	Boston University	<a href="mailto:primack@bu.edu">primack@bu.edu</a>
TBD					3	TBD		
TBD					3	TBD		
TBD					3	TBD		

## iDigBio Project Progress



May 1, 2013



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## Key Accomplishments

- Digitization Resources  
[https://www.idigbio.org/wiki/index.php/Digitization\\_Resources](https://www.idigbio.org/wiki/index.php/Digitization_Resources)
- Workshops and Training  
[https://www.idigbio.org/wiki/index.php/IDigBio\\_Workshops](https://www.idigbio.org/wiki/index.php/IDigBio_Workshops)
- Working Groups  
[https://www.idigbio.org/wiki/index.php/IDigBio\\_Working\\_Groups](https://www.idigbio.org/wiki/index.php/IDigBio_Working_Groups)
- Collaboration
  - Resources
  - Community
  - TCN/PEN support
- Education & Outreach
  - Visiting Scholars
  - [Explore Research](#)
- Cyberinfrastructure
  - Website upgrade [www.idigbio.org](http://www.idigbio.org)
  - Portal upgrade [portal.idigbio.org](http://portal.idigbio.org)
  - Data ingestion



## Project Milestones & Progress – Part 1

High-Level Activity / Milestone	iDigBio Project Progression																	
	Status: ✓ Complete   ● On track   ● Off track but recoverable   ● Off track and not recoverable																	
	2012		2013				2014				2015				2016			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>Project Administration</b>																		
Improve iDigBio Branding & Conduct Website Design Review	●	●	✓		●	●												
Participate in NIBA Community Implementation Planning Process		✓																
Sustainability Planning & Sustainability Implementation																		
iDigBio Operates with Non-Governmental Funding																		
Conduct Annual Summit to Integrate New TCNs and Align AD/BC Plans		✓																
Establish Formal Outreach to Broader Stakeholder Community																		
Enhance Ongoing Activities with Broader Stakeholder Participation																		
Identify and Engage Strategic Partners in the Collections Community																		
Receive, Review and Conduct Approved Workshop Requests																		
<b>Education and Outreach</b>																		
Release University Education Materials ("Fossils in the Cloud")																		
Students Produce Published Papers and Downstream User Learning Materials																		
Release/Enhance "Explore Research" Educational Videos																		
Release/Enhance "Explore Research" Interactive Smartboard Content																		
Conduct Annual "Visiting Scholar Program" & Release Deliverables		✓	✓															
Coordinate & Consolidate E&O Activities Across AD/BC @ Annual Summit		✓																
Education & Outreach Workshop																		
Conduct a Stakeholder Front-End Survey																		
Complete a Comprehensive Downstream User Needs Assessment																		
Secure Additional E&O Funding & Disseminate E&O Information																		
<b>Serving the Research Community</b>																		
Conduct Digitization Tools & Practices Workshop		✓																
Produce Use Cases for Cyberinfrastructure Development																		
Research Team Project (Biodiversity Patterns, Integrated with Phylogenies)																		
Construct a National Network of Genetic Resources Repositories																		
Conduct a Linked Data Workshop & Release Deliverables to the Community																		
Produce Use Cases to Extend iDigBio Connections to External Partners																		
Conduct a Workshop to Engage Members of the Systematics Community																		

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## Project Milestones & Progress – Part 2

High-Level Activity / Milestone	iDigBio Project Progression																	
	Status: ✓ Complete   ● On track   ● Off track but recoverable   ● Off track and not recoverable																	
	2012		2013				2014				2015				2016			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>Digitization</b>																		
Expand Repository of Digitization Tool Documentation & Link to Public Forum																		
Finalize Minimum Information Standards for Collections (MISC)																		
Publish Modular Workflows by Preservation Method																		
Conduct Digitization Workshops & Publish Materials																		
Conduct Public Participation in Digitization Workshop																		
Conduct GeoReferencing Train the Trainer Workshop & Publish Materials																		
Publish & Maintain Documentation on Project Partnerships																		
Conduct Augmenting OCR Hackathons & Publish Results																		
Publish Public Authority Files																		
Develop Digitization Use Cases (Data Quality & Associated Data)																		
Provide Digitization User Services																		
<b>Cyberinfrastructure</b>																		
Release Specimen Portal v0 - Core Infrastructure		✓																
Release Specimen Portal v1 - Improved GUI																		
Release Specimen Portal v2 - TCN Data Ingestion and AAA Implementation																		
Release Specimen Portal v3 - APIs for iDigBio Data Access by Strategic Partners																		
Release Specimen Portal v4 - Bi-Directional Communication with Data Providers																		
Release Specimen Portal v5 - Enhanced Data Harmonization with Collections DB																		
Release Specimen Portal v6 - Data Linking and Federation																		
Release Specimen Portal v7 - Complex Data Retrieval and Visualization																		
Release Specimen Portal v8 - Complex Data Retrieval and Visualization																		
Release Image Ingestion Application v0																		
Implement Hosted Services for Strategic Partners																		
Seek Funding and Resources to Access to more Storage and Compute Capacity																		

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## Workshops & Training

- Sponsored roughly 528 total non-iDigBio attendees
  - At least 350 unique participants
  - At least 181 unique institutions represented

Grant Year	# of Sponsored Workshops & Summits	# of Sponsored Symposia	# of Sponsored non-iDigBio Attendees
Y1	4	0	160
Y2	9	3	368*
<b>TOTAL (Y1+Y2)</b>	<b>13</b>	<b>3</b>	<b>528*</b>
<i>Y3 (planned thru 12/13)</i>	6	3	206*

\* = best estimate

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## Y1 Sponsored Workshops

- Nov 2011 iDigBio Summit I
- Mar 2012 IT Standards Workshop
- Apr 2012 Paleocollections Workshop
- May 2012 DROID Workshop

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## Y2 Sponsored Workshops & Symposia

- Jul 2012 Workshop & Symposium at Botany 2012
- Sep 2012 Plant Collections Digitization Workshop
- Sep 2012 Public Participation in Digitization Workshop
- Oct 2012 Georeferencing Train-the-Trainer Workshop
- Oct 2012 iDigBio Summit II
- Oct 2012 OCR Working Group Workshop
- Feb 2013 OCR Hackathon & iConference Workshop
- Mar 2013 Georeferencing Materials Development
- Mar 2013 Wet Collections Digitization Workshop
- Apr 2013 Symposium at ASB 2013
- Apr 2013 Entomology Digitization Workshop
- Jun 2013 Symposium & Demo Camp at SPNHC 2013

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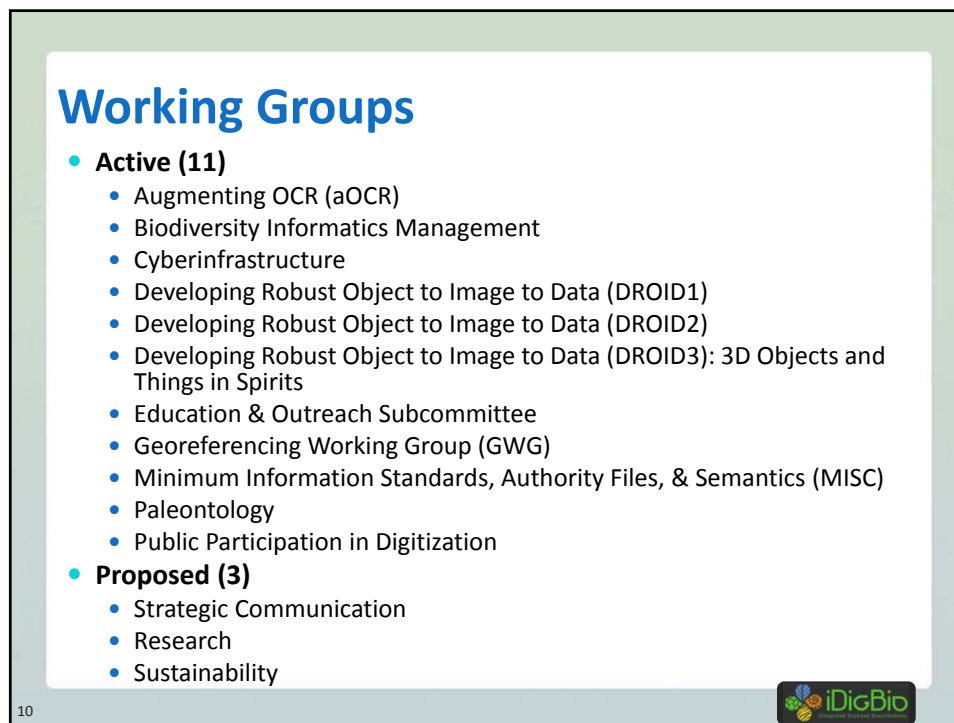
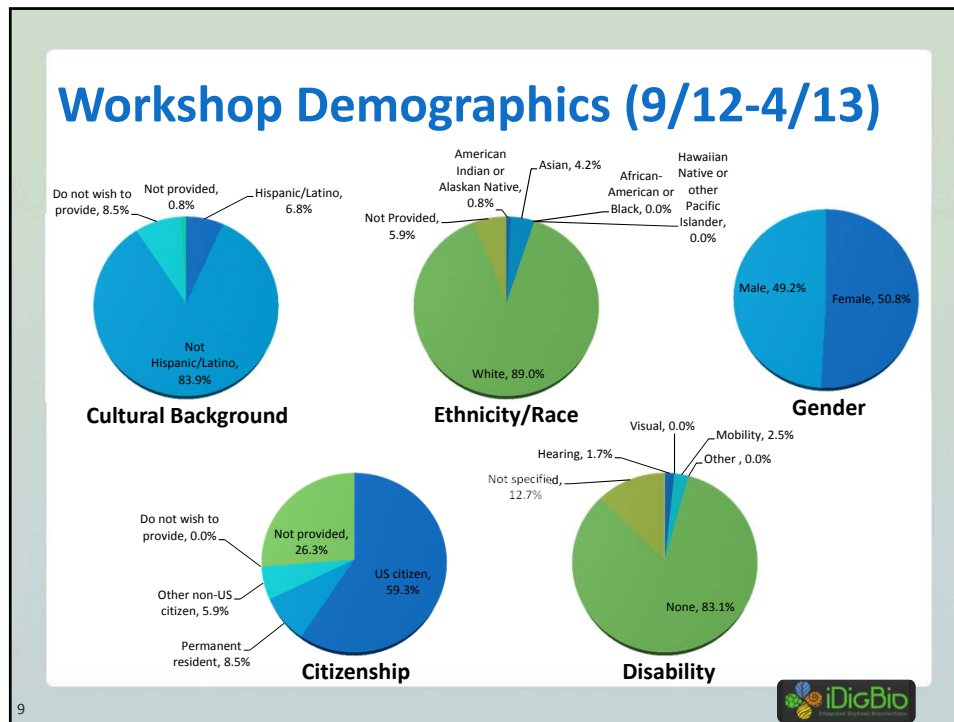


## Y3 Planned Workshops & Symposia

- Jul 2013 3 Symposia at Botany 2013
- Aug 2013 Georeferencing TTT Workshop #2
- Aug 2013 *Progressive Specify Workshop*
- Sep 2013 Invertebrate Imaging Workshop
- Sep 2013 Paleocollections Digitization Workshop
- Oct 2013 Symposium at TDWG 2013
- **Nov 18-21, 2013 iDigBio Summit III**
- On the radar:
  - Dec 2013 Small Herbaria Workshop
  - Jan 2014 Education & Outreach Workshop
  - Feb 2014 HBCU Workshop
  - Feb 2014 NPAC Symposium
  - Mar 2014 Field Notebook Workshop
  - TBD Biodiversity Informatics Workshop
  - TBD Linked Data Workshop

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## Resource Usage

Website Traffic	Year 1	Year2	%Change
Page Views	31,735	66,321	↑ 108%
Unique Visitors	5,454	8,568	↑ 57%
Registered Users	59	218	↑ 269%
Facebook Followers	102	191	↑ 87%

Website Visits	Year 1	Year 2	%Change
Returning Visitor	4,350	11,360	↑ 161%
New Visitor	3,029	8,174	↑ 170%
<b>TOTAL</b>	<b>7,379</b>	<b>19,534</b>	<b>↑ 165%</b>

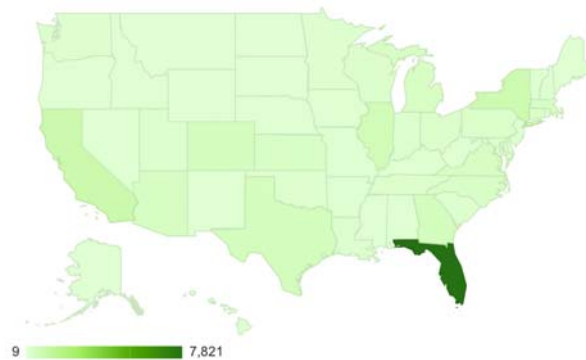
Adobe Connect	Year 1	Year 2	%Change
Total Users	40	65	↑ 62%
Total Hosts	12	26	↑ 117%
Distinct Meeting Rooms	37	62	↑ 68%
Total Meeting Time	767:58:00	4428:40:00	↑ 477%

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## Resource Usage – Domestic

Website Visitors	Year 2
State	50

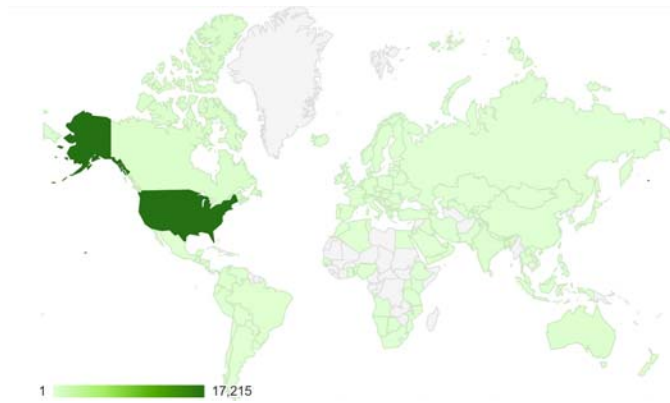


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## Resource Usage – Global

<b>Website Visitors</b>	<b>Year 2</b>
<b>Country/Territory</b>	127



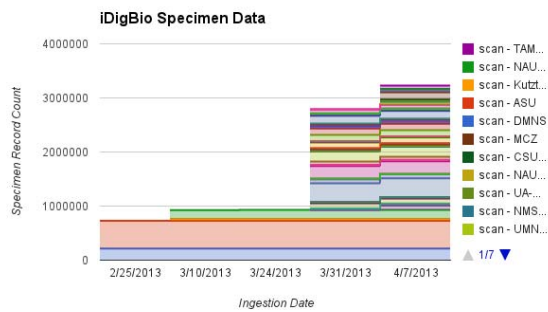
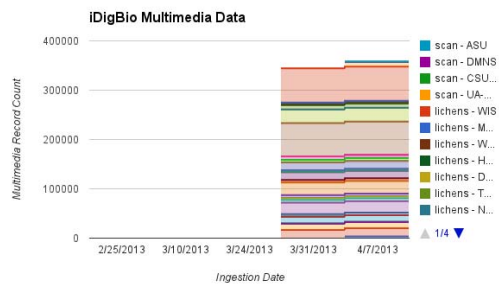
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## Data Ingestion

**As of 4/30/2013:**

- 3,270,330 Specimen Records
- 391,312 Media Records
- 80 Recordsets



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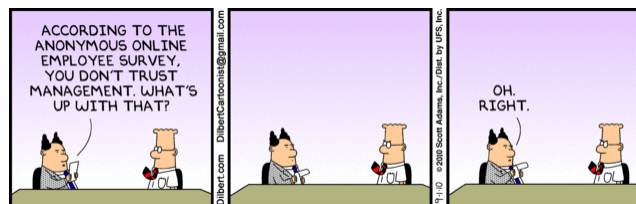
## Explore Research

- First is a series of videos about iDigBio
- Intended to be used as outreach
- Will be disseminated widely (YouTube, TeacherTube, etc.)
- Also available for TCN outreach efforts
- [Video](#)

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## Community Feedback Survey



April 29, 2013



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## Method

- Survey sent to 400 individuals
  - TCN participants
  - Workshop/symposia attendees
  - Working group members
  - Avoided direct associates of iDigBio, FLMNH, FSU
- 128 total respondents as of 4/29/2013
  - 30% response rate
  - 111 had either direct contact with iDigBio personnel or interacted with the iDigBio website and/or portal

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## What is iDigBio doing well? (n=96)

- Workshops, education, and/or outreach (40%)
- Other areas of strength include:
  - Providing resources, tools and information
  - Providing networking opportunities
  - Building community
  - “Spreading the word” about digitization

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## What is iDigBio doing less well? (n=74)

- “Real” n=55 → 5 responses noted insufficient information or experience with iDigBio and 14 responses on the order of “n/a”
- Website and/or portal (10 responses)
- Other areas of potential weakness include:
  - Communication (including communication about the overall vision of iDigBio)
  - Lack of broad involvement especially among smaller institutions

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## Most important activities and initiatives (n=79)

- Expanding reach
- Data portal
- Standards and compliance
- Workshops and training
- Tool development and other technological solutions
- Public outreach
- Creating simple resources
- OCR
- Funding

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## Greatest challenges and how iDigBio can help (n=89)

- Funding was the most frequently cited challenge (40%)
  - iDigBio could offer mini-grants to support interns that perform digitization
  - Take an advocacy role in seeking greater funding among federal agencies
  - Facilitate the formation of cooperative groups across institutions that could successfully secure funding from private and/or federal sources
- Coordination of efforts across institutions, disciplines, agencies
- Play a key role in bridging initiatives and facilitating networking
- Continue efforts to improve efficiency of digitization

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## Community Feedback Survey

- **Grading iDigBio** (n=82)
  - 84% gave "A" or "B"
    - Higher grades tended to be from content *contributors* (i.e., people with more involvement/contact with iDigBio)
    - Lower grades tended to be from content *consumers*

Answer	Response	%
F	0	0%
D	1	1%
C	12	15%
B	36	44%
A	33	40%
Total	82	100%

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## External Advisory Board Report



March 22, 2013



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## EAB Comments on iDigBio Progress

- Large amount of work produced in a short period of time
- Met its goals; stayed on track
  - Only a few items on the timeline delayed
- iDigBio workshops and symposia are of great value
  - Good outreach to community
- Digitization resources have had a significant impact
- Large potential for research with mobilized data

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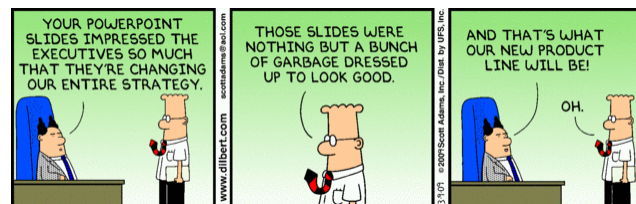
## EAB Recommendations

- Start working towards internationalization
- Mobilize TCN data into the portal
- Conduct user testing on the website and portal
- Continue integration with collections management tools
- Seek “dark data” from both large and small institutions
- Seek community feedback on the API
- Develop plan for GBIF data

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## NSF Site Review Report



April 4-5, 2013



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## Project Progress

- Significant progress since initiation of funding:
  - Begun implementation of a software & data storage system that is responsive to community needs
  - Dedicated significant resources towards integrating with TCNs and understanding their needs
  - Collaborating with existing projects that can be usefully integrated into iDigBio
  - Created significant synergies with existing TCNs
  - Greatly reduced barriers to digitization by other projects
  - Initiated and fostered a vast array of partnerships

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## Project Leadership

- Highly effective communication of expectations via the project implementation plan
- Appropriate flexibility to move project forward in partnership with diverse institutions and collaborations
- A highly collaborative environment has been developed among the staff and leadership
- Dedication to project success is highly evident

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## Scientific Outreach

- Very successful at engaging TCNs and collections community via working groups and workshops
- Cyberinfrastructure plans will enable a large community of users to access the mobilized data
- Results from first 2 years of the grant are being disseminated via publications, presentations, and newsletters published on the website

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## Educational Outreach

- Plan to facilitate enhanced outreach activities that will engage the public and highlight the uses of the data
- Still in planning stage, but team has set in motion the means for implementation

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## Human Resources

- Mentoring for post docs, grad students, and staff members include professional development and interactions across disciplinary boundaries
- Communication among all project participants is evident
- Commitment to achieving the project goals by all project participants is highly evident

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## NSF Panel Suggestions – Part 1

- Develop a strategic plan for iDigBio, including a prioritized listing of potential future sustainability options
- Maintain a communications database accessible to all project personnel
- Clarify the role of the EAB, develop transition plan for members, and enhance diversity of the board
- Develop an explicit evaluation plan linked to metrics for success to provide evidence of project impacts
- Develop a leadership evaluation plan
- Keep a strict focus on the job of getting more deposited data and providing access to data by more mechanisms

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## NSF Panel Suggestions – Part 2

- Enhance diversity in all aspects of working groups, workshops, and external advisory board
- Formal cross-training among grad students and post docs
- Open access to all workshop proceedings
- Ramp up educational outreach activities during the second half of the grant
- Develop educational modules and mechanisms to facilitate TCN outreach activities
- The website needs a major redesign, including testing and review by focus groups
- Careful consideration of iDigBio scope before engaging research communities not focused on collections digitization

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