



Sustainability of TCNs

Summit VI November 1-3, 2016 Chattanooga, TN









iDigBio is funded by a grant from the National Science Foundation's Advancing Digitization of Biodiversity Collections Program. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.



NSF Collections Programs

- Advancing Digitization of Biodiversity Collections (ADBC)
 - https://www.nsf.gov/funding/pgm_summ.jsp? pims_id=503559
- Collections in Support of Biological Research (CSBR)
 - https://www.nsf.gov/funding/pgm_summ.jsp? pims_id=503651



Advancing Digitization of Biodiversity Collections

Program Goals:

- Digitize existing, vouchered, curated specimens in nonfederal U.S. collections
- Include ancillary material available
- Build on existing resources
- Innovate to improve process
- Collaborate to increase numbers of specimens
- Research grand challenges as rationale
- Link to national resource (iDigBio)
- Train next generation and inform public

Thematic Collections Network (TCN)

- Research justification for specimens
- Assessment of importance of specimens for the chosen research theme
- Innovative methods to increase efficiency, lower cost
- Collaboration across institutions and across collection types
- Management plan, task analysis, data management
- 2-4 year awards
- Integration with iDigBio (data, outreach)

Partner to Existing Network (PEN)

- Add information to existing network projects
- Should fit the TCN why appropriate
- Fill in gaps for coverage and increase specimens to meet research theme
- Enhance outreach/training/education
- Improve data management of collection
- Increase collaboration and accessibility
- 2-3 years with active TCN





Collections in Support of Biological Research

Program Goals:

- Enhancements that secure and improve existing collections
- Improves the accessibility of digitized specimenrelated data
- Development of better methods for specimen curation and collection management
- Supported areas:
 - Established living stock/culture collections
 - Vouchered non-living natural history collections
 - Jointly-curated ancillary collections such as preserved tissues and DNA libraries

Funding provided for:

- Improvements to secure and organize collections that are significant to the NSF BIO-funded research community
- Secure collections-related data for sustained, accurate, and efficient accessibility to the biological research community
- Transfer ownership of collections.

Solicitation Notes:

- Digital data generated through the activities of funded
 Natural History projects must be integrated with iDigBio
- Letters of institutional support are no longer accepted for Natural History collections proposals
- Demonstrate clear and urgent need to secure the collection



Thoughts for Discussion

- Basics of TCN sustainability planning
 - Why sustain?
 - No replacement for TCN, it has a unique role
 - Job not done, reasons to grow (more data, research, education-outreach)
 - Strong community support
 - What needs sustaining and at what level
 - Programmatic leadership
 - Technical support
 - Sustainable collaborator efforts



Partnerships

- Obtaining critical mass of active cooperating
 TCN collections
 - Include enough good partners
 - Allow or solicit people to utilize their expertise
- Effective use of PENs
 - Tradeoff between TCN and PEN budgets
 - Extending the work of original collaborators in meaningful ways



Partnerships (cont.)

- Collaborating outside TCN
 - Relying on iDigBio support
 - Cyberinfrastructure including data hosting
 - Digitization workflows, working group support
 - Education/Outreach
 - Identifying commonality with other TCNs
 - Connecting Paleo & modern data
 - Education-Outreach needs



Partnerships (cont.)

- Collaborating outside TCN
 - Connecting with software and projects
 - Examples for SCAN (Visipedia, TaxonWorks, Pacific Northwest Moths, Atlas of Living Australia, National Park Service, Education specialists, Long-Term Ecological Research etc.)
 - Connection benefits
 - Funding
 - Cost reduction
 - Extended benefits



Partnerships (cont.)

- TCNs beyond 2021
 - Should a case be made for continuing the TCN model?
 - What other models (e.g., more centralized) should be considered for continued digitization efforts?