



# ***iDigBio External Advisory Board Summit 2017***

**State of iDigBio**  
**Primary issues for EAB**  
**Sustainability**  
**Data use**  
**Metrics**



## ***Sustainability of iDigBio***

***Issue: What is to be sustained and at what level?***

***How will sustainability be achieved?***

***What are the pressing issues now?***

## ***Data Use***

***Issue: What aggregated data are being used?***

***How are they being used?***

***How might use be increased?***

## ***Metrics***

***Issue: What's happening?***

# ***iDigBio***

- 1. iDigBio's cooperative agreement with NSF and budget extend to July 2021**
- 2. Budget decreases annually beginning in Year 8**

# ***iDigBio***

- 1. ADBC = 10 year program; \$100 million**
- 2. TCNs will be funded through year 10, with those in the final years likely to go at least through 2025**
- 3. iDigBio likely to receive funding by NSF to work with these TCNs and others in the collections community through 2025**



# ***Sustainability of iDigBio***

**A proposal**

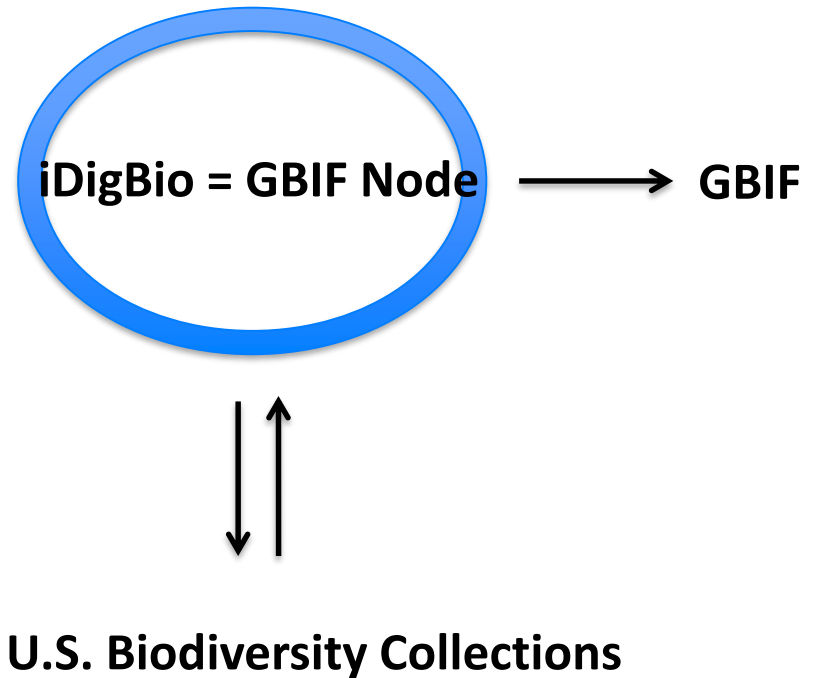
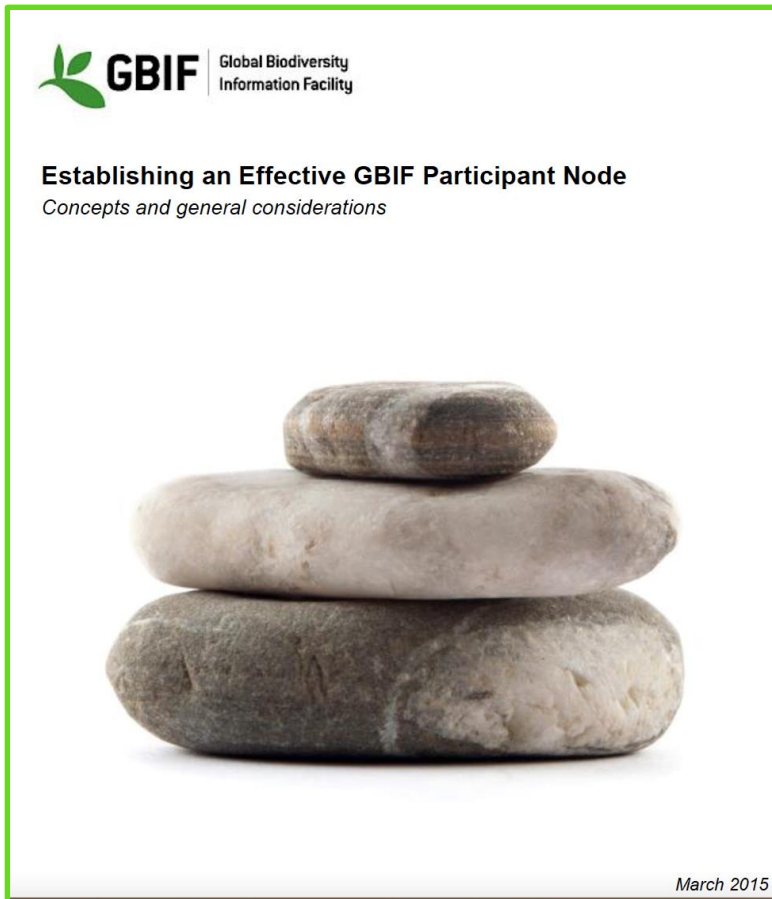


# ***Sustainability of iDigBio***

## **A proposal**

- 1. Become a U.S. node for GBIF**
- 2. Transition research, E&O to FLMNH**

# 1. Become a U.S. node for GBIF



## 1. Services provided by a GBIF node



**Establishing an Effective GBIF Participant Node**  
*Concepts and general considerations*



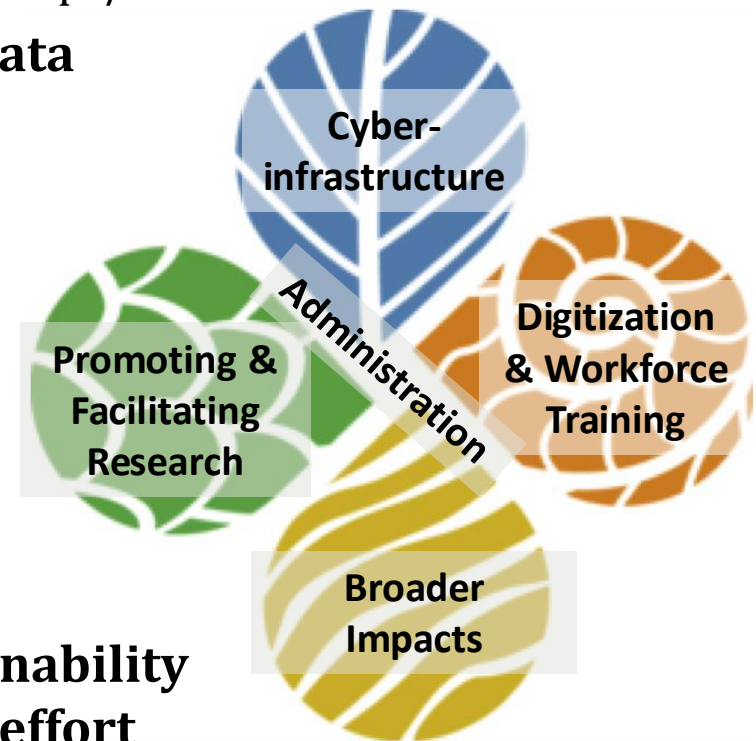
- 1. Support biodiversity data mobilization**
- 2. Support biodiversity data management and curation**
- 3. Support biodiversity data analysis and use**
- 4. Coordinate the landscape of biodiversity-related initiatives including participating in the GBIF network**

March 2015



# What does iDigBio do?

- **Enable digitization of biodiversity collections data**
  - Develop efficient & effective standards & workflows
  - Workforce education & training via workshops/webinars
- **Provide portal access to biodiversity data in a cloud computing environment**
  - Enable data access & discoverability
  - Respond to cyberinfrastructure needs
- **Promote use of biodiversity data to address key environmental and economic challenges**
  - Researchers, educators, general public, policy-makers, etc.
- **Assist in planning for long-term sustainability of the national digitization network & effort**
  - Expand participation: partners, data sources, general public, etc.
  - Proliferate and broaden uses of biodiversity data



# What does iDigBio do?

- **Enable digitization of biodiversity collections data**
  - ✓ **1. Support biodiversity data mobilization**
- **Provide portal access to biodiversity data**
  - ✓ **2. Support biodiversity data management and curation**
- **Facilitate use of biodiversity data**
  - ✓ **3. Support biodiversity data analysis and use**
  - ✓ **4. Coordinate biodiversity-related initiatives**

# ***Sustainability of iDigBio***

**A proposal**

**2. Transition research, E&O to FLMNH**



**Research**

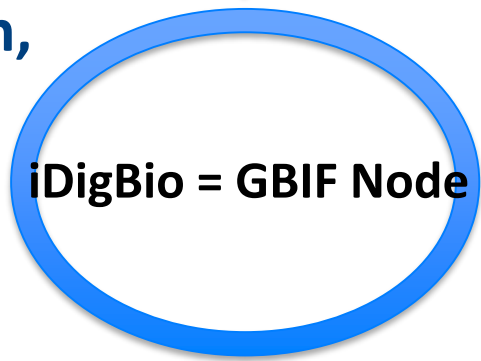
**Education**

**Outreach**

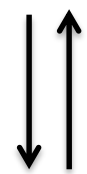
**FLMNH (or Biodiversity Institute or eMuseum)**

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**2. Transition research,  
E&O to FLMNH**



→ **GBIF**



**U.S. Biodiversity Collections**



**Research**

**Education**

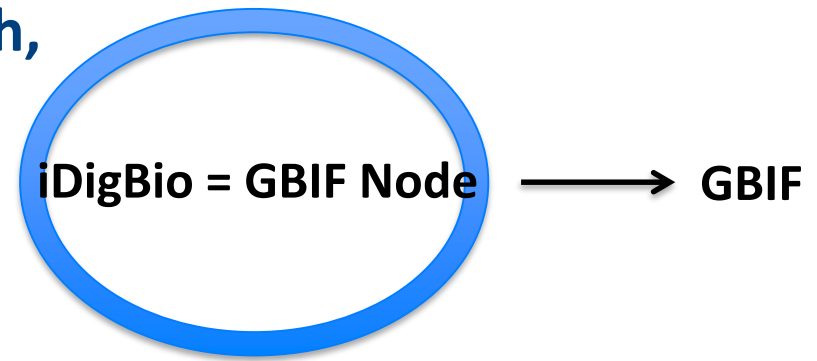
**Outreach**

**Museum and external funding sources**

**FLMNH (or Biodiversity Institute or eMuseum)**

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**2. Transition research,  
E&O to FLMNH**



**U.S. Biodiversity Collections**



**Research                      Education                      Outreach**

**FLMNH (or Biodiversity Institute or eMuseum)**

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*Minimal staffing requirements (iDigBio)*

**1. Project manager  
(Library of archived resources)**



**3. Database/Portal manager**

**2. Mobilization manager**

**4. Training and workforce development**

**U.S. Biodiversity Collections**

## ***Overall issues for iDigBio & ADBC***

- 1. Find and engage remaining collections**  
*(How many collections and specimens are there really?)*
- 2. Funding model for ADBC**
- 3. Improving quality of data in iDigBio, especially taxonomy**
- 4. More response from TCNs on research & E&O**
- 5. International collaboration**

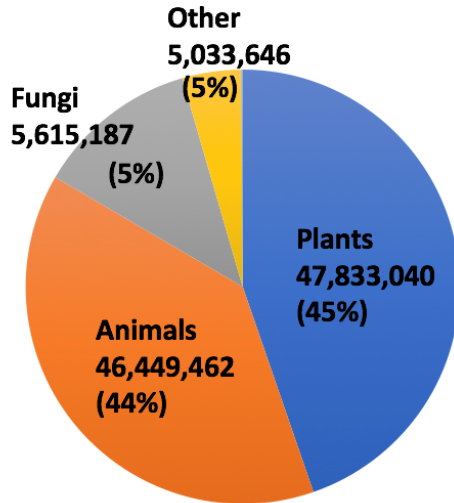


## ***Overall issues for iDigBio & ADBC***

- 1. Find and engage remaining collections**  
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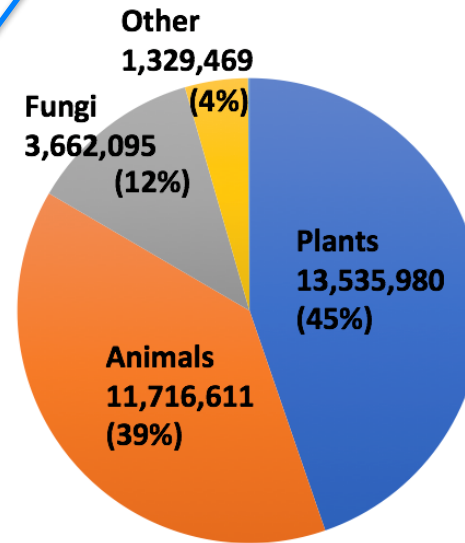


## Specimen records in iDigBio



Total portal: 106 million

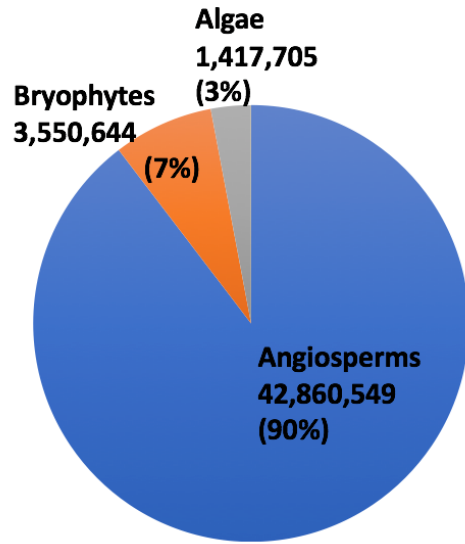
- Plants
- Animals
- Fungi
- Other
- Protista 143,086



ADBC-funded: 30 million

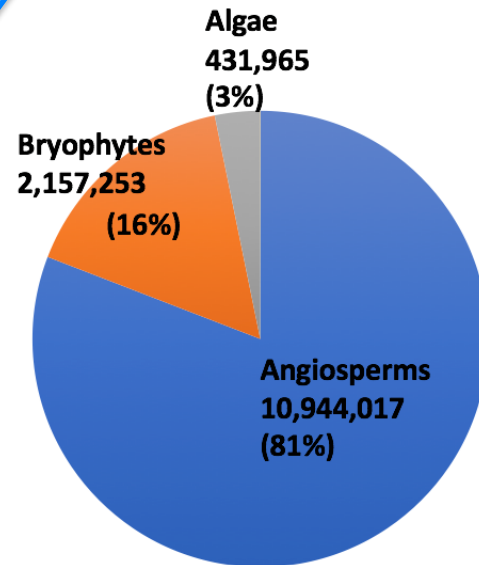
- Plants
- Animals
- Fungi
- Other
- Protista 30,211

## Plant records in iDigBio



**Total portal: 48 million**

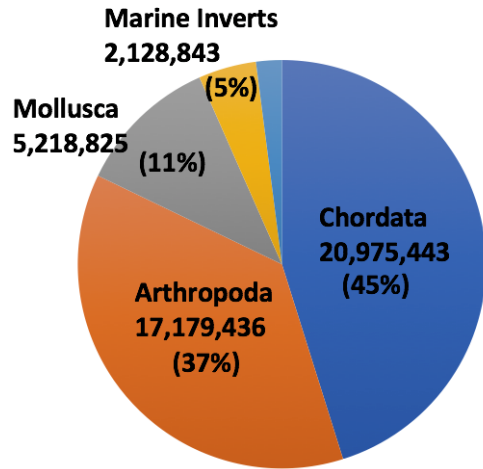
- Angiosperms
- Bryophytes
- Algae
- Ferns: 4,037
- Gymnosperms: 105



**ADBC-funded: 14 million**

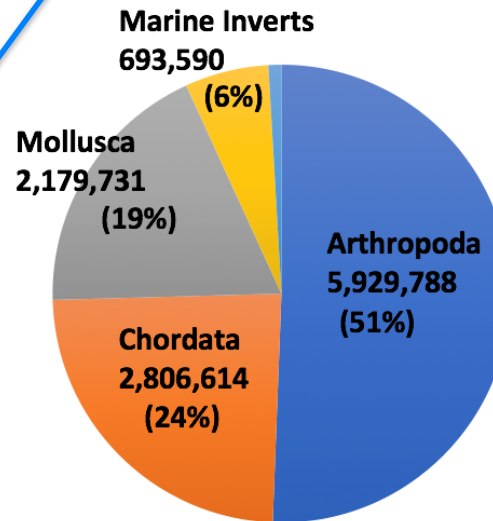
- Angiosperms
- Bryophytes
- Algae
- Ferns: 2,644
- Gymnosperms: 101

## Animal records in iDigBio



**Total portal: 46 million**

- Chordata
- Arthropoda
- Mollusca
- Marine Inverts
- Non-marine Inverts: **946,915**



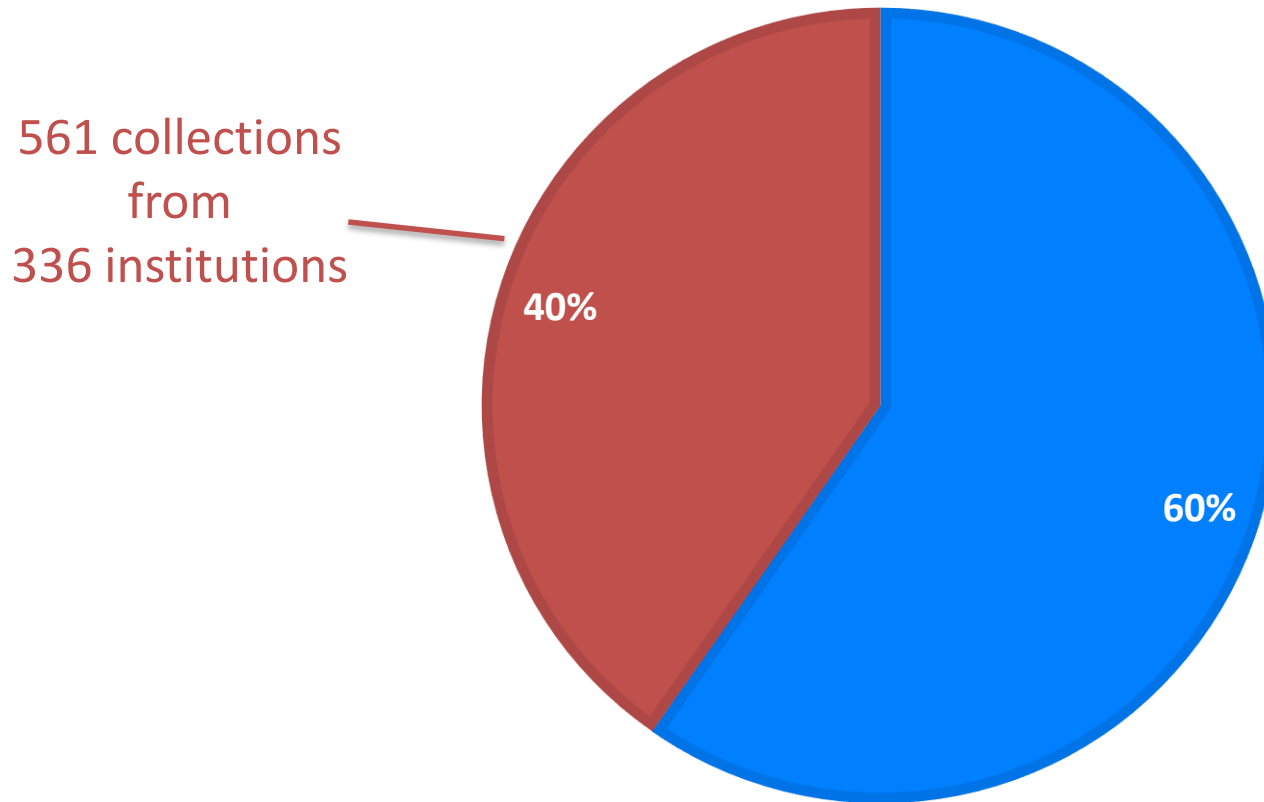
**ADBC-funded: 12 million**

- Arthropoda
- Chordata
- Mollusca
- Marine Inverts
- Non-marine Inverts: **106,888**

# Progress in National Digitization Effort

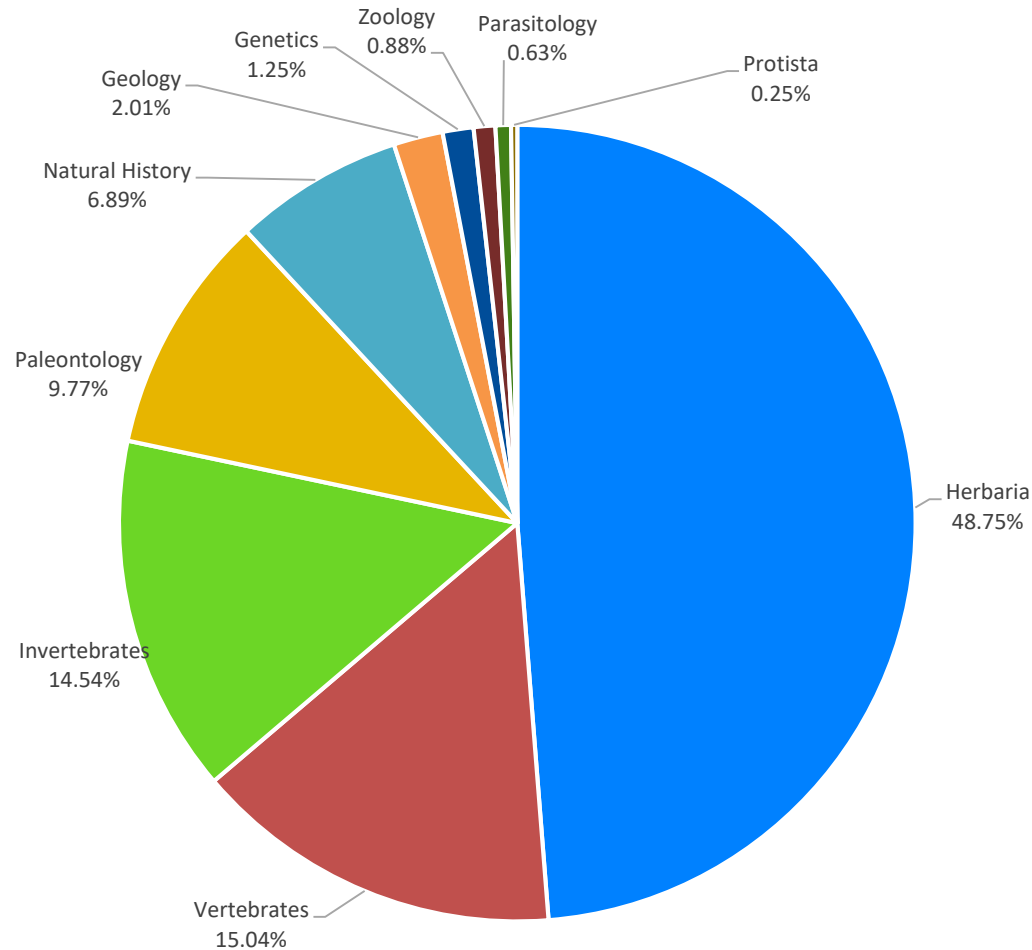
1,386 TOTAL KNOWN U.S. COLLECTIONS

■ Have NOT provided data in iDigBio ■ HAVE provided data in iDigBio



# What We Know About What We Don't Have

Breakdown of Collections in iDigBio Catalog that have NOT yet Contributed Data in iDigBio



## Future:

**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 million specimens of 1 billion) *one-third?***

**Remaining institutions are mostly small.  
Many remaining collections are not!**

## *Overall issues for iDigBio & ADBC*

1. Find and engage remaining collections  
*(How many collections and specimens are there really?)*
2. Funding model for ADBC
3. Improving quality of data in iDigBio, especially taxonomy (**next "moonshot" for collections?**)
4. More response from TCNs on research & E&O
5. International collaboration



## **5. International collaboration**

### **1. Node for GBIF**

### **2. Frankfurt meeting white paper to be submitted to:**

**“National Science Foundation Seeks Community Input on Accelerating Research through International Network-to-Network Collaboration”**