

# Forecasting Costs for Preserving, Archiving & Promoting Access to Biomedical Data

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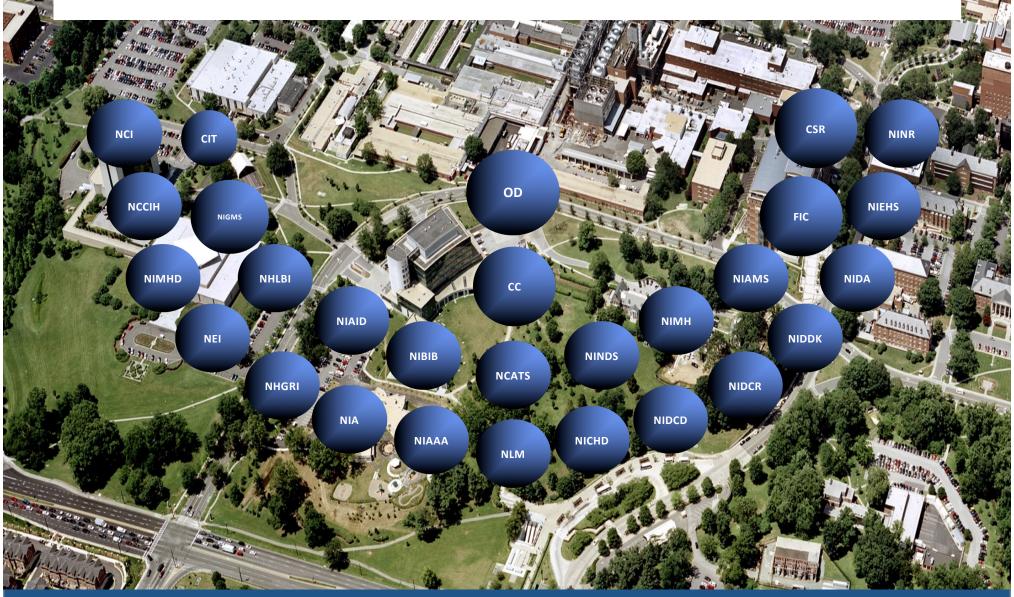


#### Charge to the Committee

Develop and demonstrate a framework for forecasting long-term costs for preserving, archiving, and accessing various types of biomedical data and estimating potential future benefits...



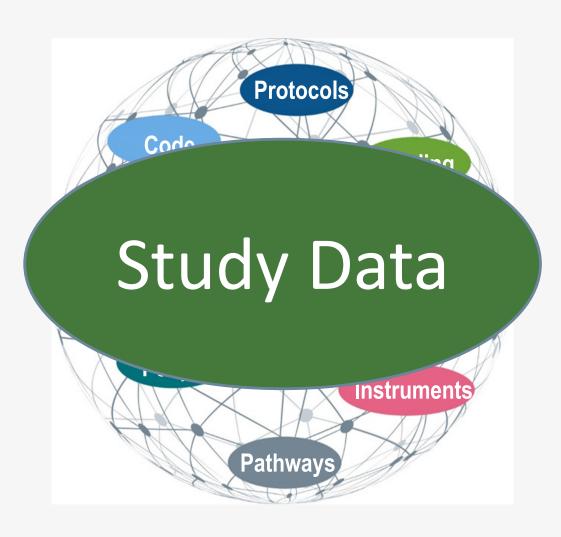






# Fostering a ecosphere of discovery

digital research objects



#### **NIH DATA DEPOSIT 2019**

NIH strongly encourages

open access Data Sharing Repositories as a first choice.

https://www.nlm.nih.gov/NIHbmic/nih\_data\_sharing\_repositories.html

#### **Options for scaled implementation for datasets**

Datasets up to **2 gigabytes** 

Datasets up to **20\*gigabytes** 

High priority Datasets **T-Pbyte range** 

#### **PubMed Central**

- PMC stores publicationrelated supplemental materials and datasets directly associated publications. Up to 2 GB.
- Generate Unique Identifiers for the stored supplementary materials and datasets.

#### Dryad and FigShare, or other

- Assign Unique Identifiers (DOI) to datasets associated with publications and link to PubMed
- Store and manage datasets associated with publication, up to 20\* GB.

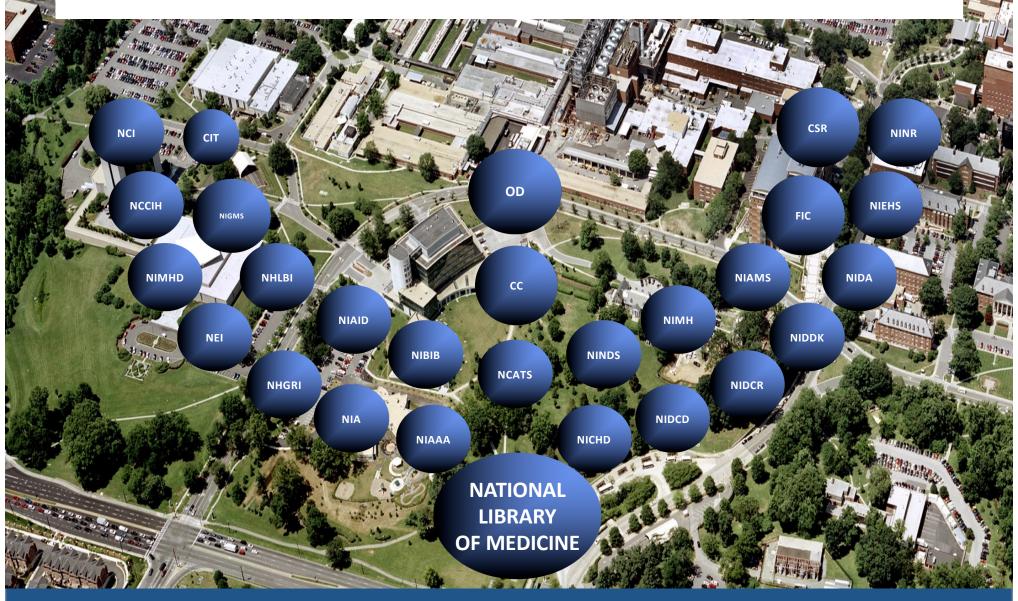
#### NIH managed repositories

- Store and manage large scale, high priority NIH datasets (Partnership with STRIDES)

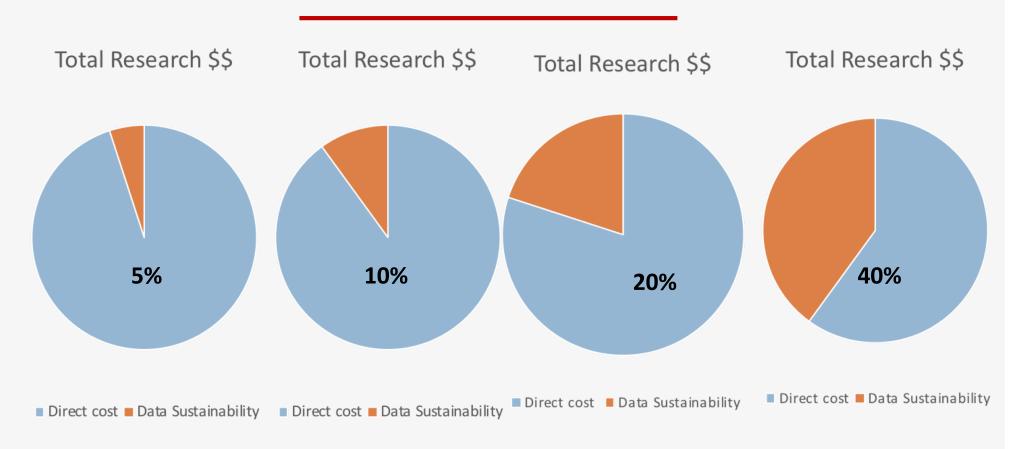
### Data Preservation, Storage and Reuse is essential for Discovery

- Annually, NIH spends
  - \$30B generating data
  - ->\$1B managing data resources (intramural)
  - ~.25B supporting data (extramural)
- Changing role of researcher
  - Data generator → data contributor → Data user

#### The National Institutes of Health



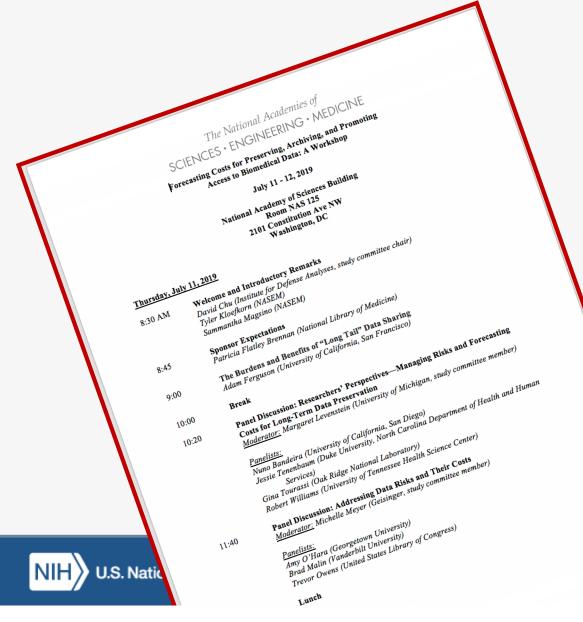
# Out of every \$100 invested in research, how much should be invested in data sustainability?



## Who will use the forecasting framework?

- Researchers
- Program Officers
- Funders

### What do we need to learn from this workshop?



#### From Researchers:

- Incentives and barriers to deposit
- Barriers to subsequent use
- Potential market

### Other considerations that may emerge over the next two days

- Who pays?
  - Investigator?
  - Funder?
  - Future user?
  - Society?
- Who benefits?
- Cost Sharing model
- What is the true value of the data?

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#### Questions?

#### Reaching NLM



