



## Assessing the Value of Biomedical Research: Developing Chains of Evidence

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NIH



In FY 2009, NIH supported an estimated:

- Over 53,000 research projects/year;
- Over 313,000 research positions
- Research training on NRSA: ~16,400 positions
- Training on research grants: ~28,200 positions
- Over 6,000 research scientists in intramural program



- Publications – most robust; coin of the realm
  - Citations in Clinical Guidelines
- Inventions, Patents and/or Licenses
- Technologies/Techniques
- Other Products, e.g., databases, animal models, instruments

PubMed

National Library of Medicine NLM



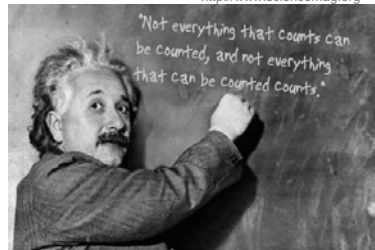
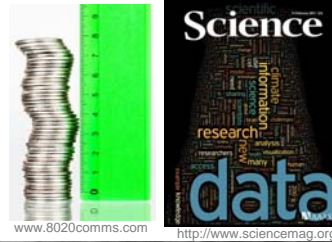
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- Designs new and more efficient methods of data collection to improve the breadth and quality of information on research products and the investigators we support
  - Electronic Application Forms
  - Research Performance Progress Reports (RPPR)
  - All Personnel Reports
- Creates the tools needed to query, navigate, and synthesize these diverse data sources, facilitating analysis of NIH-funded research and its outcomes.
  - RePORTER & ExPORTER
  - RCDC
  - SciENCV
  - Commons

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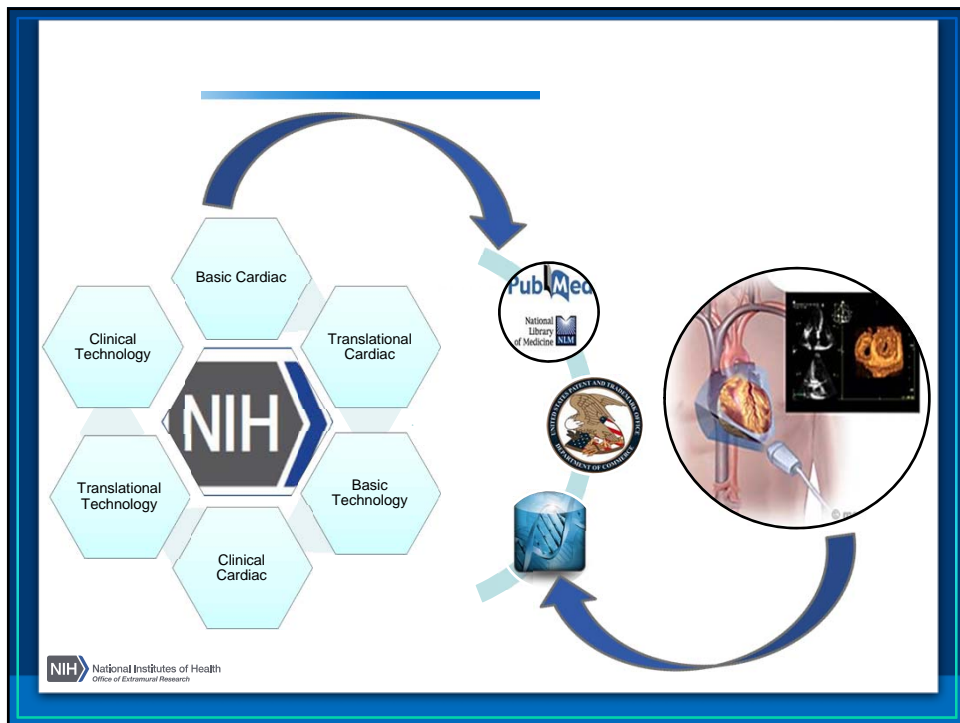
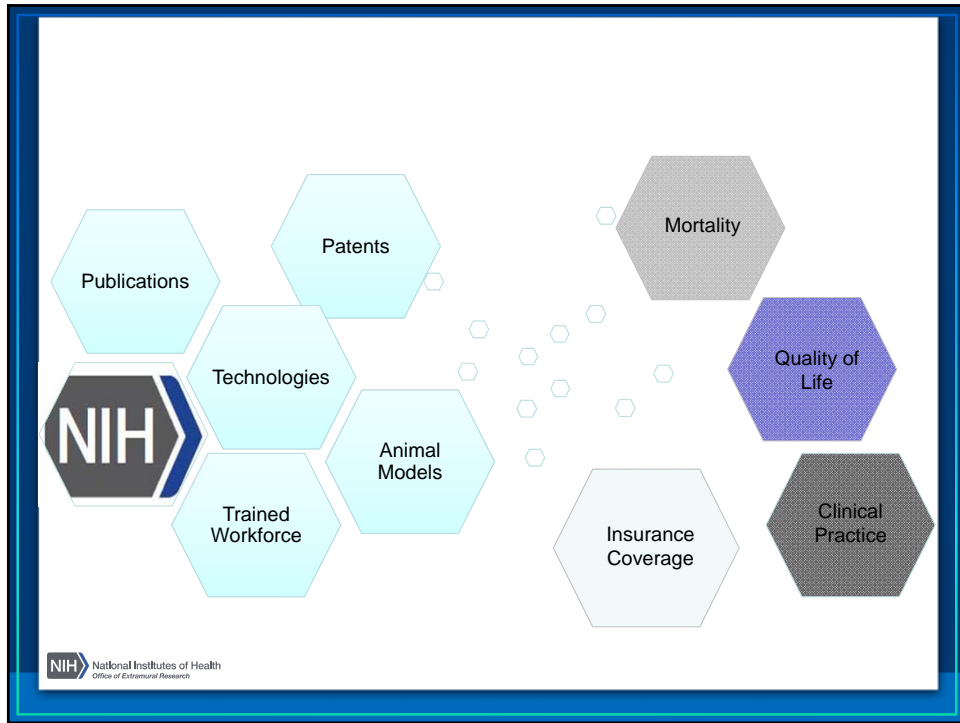
- These products can be used as “metrics of Knowledge”
- But.... How to assess the “value” of this knowledge?
- Does anyone use the Knowledge to inform/improve health?

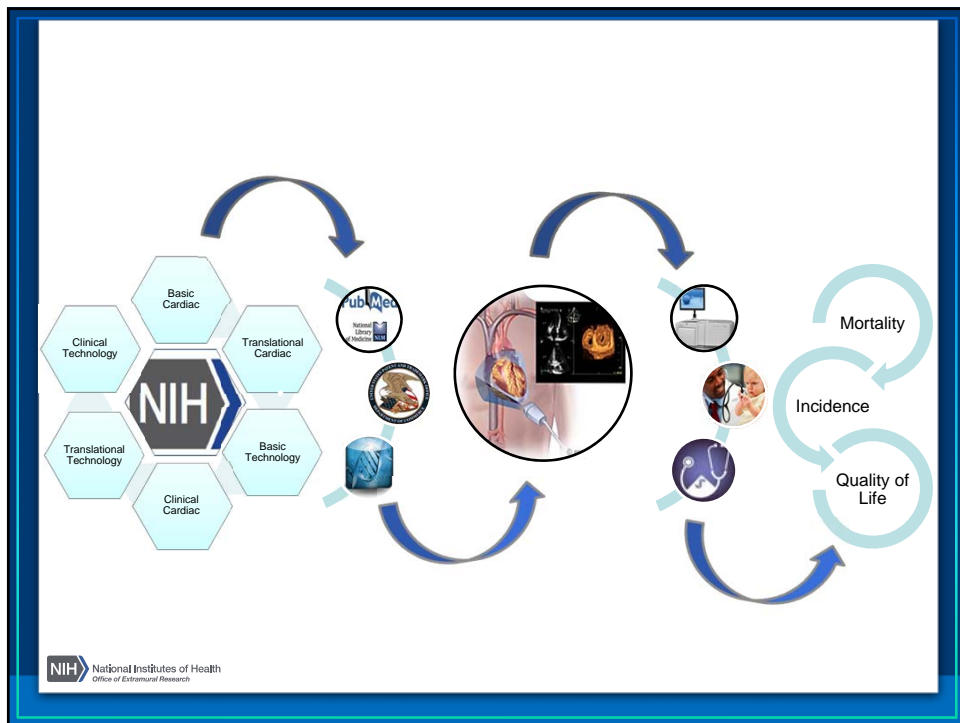
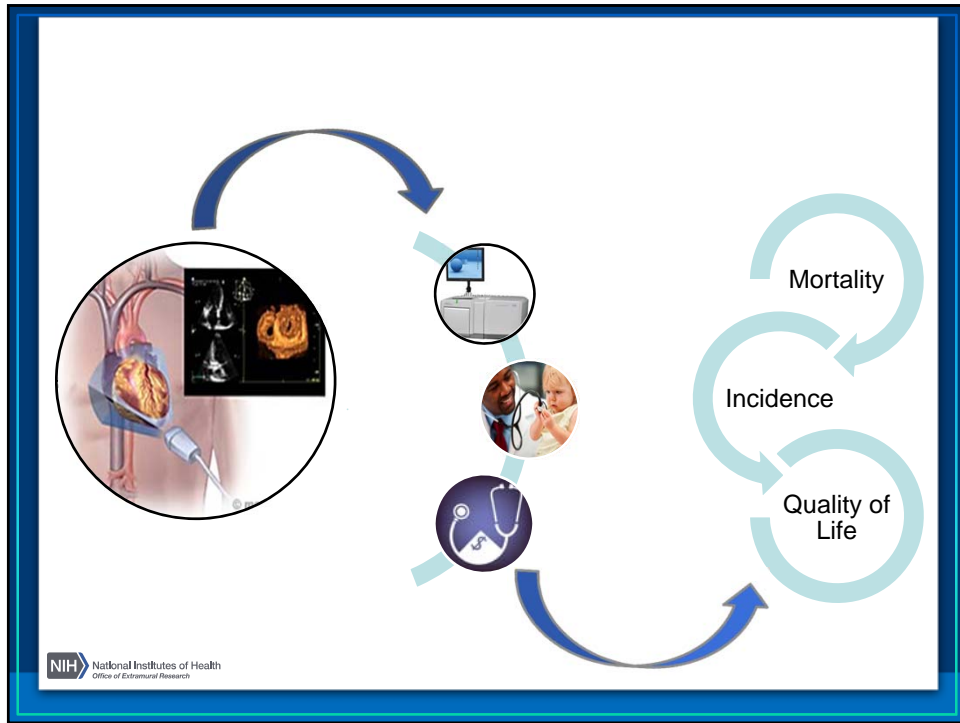


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## Vision and Brainstorming

- Evidence will differ depending on the 'product'
- For any new initiative, could develop models of probable proximal and distal evidence
- Then consider, what databases could be tapped for assessing each part of the model
- If no databases available, are there ways to create the databases?



- Office of Extramural Research can help with:
  - Designing methods to acquire relevant data
  - Creating the tools needed to query, navigate, and synthesize data
  - Analyzing the models to assess value of research



**“The crucial variable in the process of turning knowledge into value is creativity.”**

**- John Kao**