

Incentives for Data Producers to Create 'Archive-Ready' Data Sets

**Margaret Hedstrom, PD/PI
School of Information
University of Michigan**



Research Objectives

- What incentives are most effective in convincing data producers to create data sets that are easy to archive and share?
 - What is easy/difficult effective/ineffective with current practice?
 - What types of incentives would increase compliance?
 - Which aspects of current practice should be redesigned?

Archive-ready

- *Archive-ready: data sets that meet the submission requirements of an archive under either general guidelines or a specific agreement between an archive and a data producer*
 - Data quality
 - Documentation
 - Agreements/contingencies: personal information, intellectual property, etc.

Project Participants and Partners

University of Michigan

School of Information

- Margaret Hedstrom, Assoc. Professor, PD/PI
- Yan Chen, Assoc. Professor, co-PI
- Jingfang Niu, PhD student

ICPSR -- National Archive of Criminal Justice Data

- Myron Gutmann, Director, co-PI
- Dr. Janet Samatel, Research Assoc. II
- Dr. Karen Sullivan, Assoc. Librarian
- (tbd) Systems Analyst

US Dept. of Justice, National Institute of Justice

Current Practice

- Almost all digital archiving strategies are predicated on the assumption that data producers will contribute some effort to preparing data for archiving
- Reality: Compliance with requirements (formats, metadata, documentation, etc.) is the rare exception

Current mechanisms for Archive-Ready Data

- Appeals to self-interest
- Appeals to altruism
- Reputation effects
- Service provisions
- Professional norms
- Assistance

Research Design and Methods

- Subjects: Researchers funded by NIJ who are required to deposit data at ICPSR
- Survey and ethnographic analysis of compliance with current deposit guidelines (obstacles, costs, work flow, etc.) (Year 1)
- Laboratory experiments with alternative incentive mechanisms (reputation through citation, scoring rule, enhanced service, formal publication of data and documentation (Years 1 and 2)
- Field experiments with promising mechanisms (Years 2 and 3)

Anticipated Results

- Carefully designed and field-tested incentive mechanisms that increase cooperation between producers and archives
- Revised data deposit guidelines that incorporate an appreciation of producers' capabilities and motivations
- Greater adherence to data deposit requirements (some of which will be redesigned) that will reduce archiving costs and produce higher quality data