Framework for Public Participation
GIS: Options for Federal Agencies

USGS Fort Collins Science Center
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Need

- Reduced Resources
  - Staff
  - Monitoring Budget
- Increased Responsibility
  - Large Management Areas
  - Multiple Resource Issues
- Office Turnover
  - Knowledge of Area
  - Issue Awareness
  - Sense of Ownership
Impedances

- Paperwork Reduction Act (PRA)
  - OMB Approval of Data Collection from the Public
  - Direct Data Collection, Contract, Cooperative Agreement, even some Grants
- Personally Identifiable Information (PII)
  - Location Issues
- Technology Policy
  - Terms of Service (TOS) Reviews
  - Security and Purchasing Blocks
- Data Integrity Requirements
Implementation Within Policy

- **PRA**
  - Limit inputs to general comments on an identified area
- **PII/PIA**
  - Hash any personal information
- **Technology Policy**
  - Write for mobile web
  - Use approved social media APIs
- **Data Integrity Requirements**
  - Develop metadata in process
  - Early connections to USGS publication process
Workflow Overview

Study Metadata

Catalog and Repository

Advertise Study

Publication

Reporting

Social Media

Custom Web

Mobile Option
Develop Study Metadata
Build Around Secure Enterprise Repository

ScienceBase

Web Services

Project Space

Web Services

Agency-specific Portal

Public View and Input

Web Services
ScienceBase

- Full Department of Interior security apparatus
- Provides spaces for multiple projects/studies
  - Each study controls its own space
  - Study can keep track of all data products,
  - Lets projects build derivative datasets, track versions, and build metadata
- System takes care of annoying data protection and policy pieces
- Can develop parent-child and association relationships among other studies
Study Area Load
Data Collection Marketing

- Outreach
  - Community Meetings
  - Local Media
  - Social Media
  - Agency Web Site

- Advertise Access Options
  - Hashtag Publication
  - Site URL
  - App Download
Public Data Input Options

- Develop for multiple screen sizes
- Work around limitations of mobile views
- Need native app for full capability
Automated Input Processing

- **Twitter**
  - Term harvest
  - Location inference
  - User metadata obfuscation

- **Web/Mobile**
  - Comment parsing and logic/term identification
  - Comment screening
  - Image metadata scraping
  - Location and spatial data capture
Data Management and Distribution

- Data Publication
  - Metadata Development
  - Approval Workflow
- Data Discovery and Distribution
  - Search
  - Preview
  - Feedback/Analytics
  - Download
  - Multiple Service Endpoints
Publication and Interoperability