Automate FGDC OS business processes for information and task management to:

- Improve support to FGDC members
  - Automating basic business processes such as votes
  - Enabling member management of their contact information
  - Increasing visibility and understanding of committee/agency membership/roles
  - Providing a tools to track committee or work group work items and actions

- Reduce FGDC OS management time

- Improve member engagement

- Leverage GeoPlatform development

- Provide work group/subcommittee support tools
  - Potentially adaptable to GeoPlatform communities

- Test case for development and integration of tools with the GeoPlatform
Approach

Integrate a Business Process Engine into GeoPlatform

- Selected 3 processes: member management, votes, task tracking
- Leveraged GeoPlatform’s identify and access management
- Developed modular components – other organizations can reuse
- Used a “card” based GUI approach with extensive help/tips
- Ensured APIs can be used for data extract and reuse: e.g. email listservs, task timelines views
- Cleaned and ported the FGDC OS membership management database
- While FGDC business rules are enforced the processes are flexible
- Not a partner funded toolset but resulted in a set of GeoPlatform hosted tools
First Class Business Objects

General Construct:

- Groups
- Organizations
- Organization Reps
- Work plans
- Work items
- Votes
- Documents
Tiered Architecture

Presentation Layer
- BPM Overview
- Voting
- Meetings
- BPM Portal
- User Management
- Work Plans
- Work Items
- Documents

Delivery
- External REST Service
- Internal REST Service
- Frontend Data Connector

Data Aggregation
- Core Engine (BPMN)
- Human Task Interpreter
- Notification Engine
- Scheduled Tasks

Backend
- User | Group | Role | Membership | Data Records
- Document Storage
- Business Process Models
FGDC Automated Process Portal -

Automated Process Portal

- In September/October:
  - Internal testing 3 modules
  - Data clean-up
  - Basic document management
  - Final development/help
  - Initial demo to CG (9/13)
  - FGDC OS developing role-out plan to include training

Example of card-based interface
Take Aways

- GeoPlatform will have a business process management engine (currently limited to the FGDC APP)
- Capabilities developed by the FGDC OS are modular and can be reused if others want to fund their lift, shift, and management
- FGDC OS will begin using more automated tools to support the committees
- FGDC members will be able to login and see their membership info, agency’s members, work items for groups of which they are a part, be notified of and execute actions and votes – in early CY 2017
- Subcommittees and working groups will be able to utilize the tools to help manage their membership and activities

Note: Only business information is utilized by these tools.
Demo

Some of the GeoPlatform technical development team are joining us online