Best Practices for geospatial SOA

Our team has expertise in GIS, SOA, Computational Grid Computing, Web 2.0, and Workflow
A Previous Investigation

Ravenswood 8 year flood loss estimation
USGS National Water Information System (NWIS) acquires, transforms and transmits real-time stream gauge data originated from StreamStat at NORA gauge station.

Polis Loss Calculation system will use water depth grid and calculate loss estimation data using assessors data. It will store all relevant data in the archive database for future use.

National Weather Service Advanced Hydrologic Predictive Service (AHPS), consumes stream gauge data and produce weather forecast data.

Community Grid Lab (CGL) Hydraulic Model Consumes forecast data and Digital Elevation Model (DEM) data to estimate the flood depth grid.

Polis/CGL Presentation System will generate text and graphic reports from loss estimations, depth grid information and contextual map layers from Marion county GIS mapping system.

Marion County GIS mapping system framework layers

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Tasks

• Pre investigations
  – Meet with USGS staff.
  – Identify automated and non automated processes.
• Project kick-off
• Gather requirements
  – Look and feel of final presentation
  – Data Web Services
  – Legal constraints
Tasks Contd.

- Design the solution based on SOA
- Develop necessary components
- Regression tests and usability tests
- Deployment
- Documentation
- Project Close out