

navigatOR

Proof of Concept

Scoping Document

Two examples have been identified to demonstrate (elucidate?) the effectiveness and viability of the GIS utility concept embodied by navigatOR.

1. Methamphetamine Addiction (focus: internal decision making)
2. Permit Streamlining (focus: external customer service)

The first focuses on optimizing services and decision making in a crisis situation; the second focuses on delivering efficiencies in routine business operations.

Ideal Characteristics of Proofs

1. Real-time access to data or capabilities
2. Mixes multiple data sources and scales
3. Introduces new business process or measurably improves existing important process
4. Scalable – start small (limited geography, few players, existing data)
5. Interoperable
6. Users/beneficiaries are business units or their customers (non-GIS professionals)
7. Conceptually institutionalizes partnerships/stewardship
8. Highly visible to audience (directors, Governor, legislators)
9. Representative of other applications or processes
10. Champion enlisted from key stakeholder helps present results
11. AOC and LOC support
12. Measures of success:
 - a. speed of data sharing
 - b. ease of use
 - c. response to business processes
 - d. build once, use many times

Narrative for Proof 1 – Methamphetamine Addiction

This proof of concept will support the business purposes of foster care planning and case management that's become an enormous challenge as a result of methamphetamine addiction of parents. The data used will be from more than one scale, accessed at different physical locations and be maintained at different levels of government: state agency (DHS), school (Salem-Keizer SD and others), and county governments (Marion and Polk). The application will use navigatOR's core infrastructure. Interoperability may be demonstrated depending on the platforms used by the participants. It will be on-line and

available approaching 24/7 (determined by participating agency data server environments). This proof embodies the cross-cutting nature of today's complex problem-solving environment and, potentially, extensibility.

The application(s) envisioned are:

1. Identify appropriate foster homes for kids within current school attendance boundary.
2. Optional extension: Adapt for foster home recruitment efforts.

Proof 1 Tasks

Task	Resource
1. Describe application – how does it work, what functions does it need?	Cy & Gail
2. Assess data needs and identify existing data sets meeting those needs	Gail
3. Identify and contact agencies re participation in pilot	Gail
4. Assess technology environments in participating agencies	Dave & partners
5. Gather data	Gail & John
6. Develop strategy for integrating existing data and technology platforms via web browser environment	Gail & Dave
7. Develop demo scenario	Gail & partners
8. Expose/describe “proof of concept” characteristics: Multi-scalar data Multiple levels of government Interoperability (depending on platforms involved) Data and hosting at multiple locations Use by non-GIS professionals Real-time access	Gail, Cy & partners
9. If time permits, extend application for targeting resources for foster family recruitment/development. If not, describe how it could be done. Characteristics: extensibility; build once, use many times	Gail, DHS & local partners

Narrative for Proof 2 – Permit Streamlining

This demo will emphasize efficiencies and customer service in routine operations that occur in numerous agencies. These business processes have far-ranging effects in the private sector and thus have an indirect but potentially substantial effect on the economic climate in the area. The focus will be on local government building permit processing. However, state and federal agencies have extensive permitting procedures as well, and local governments have a development approval process that is a close relative. The users are non-GIS professionals accessing services on-line at their convenience. Significant time efficiencies and substantial increases in customer satisfaction are possible due to the frequency and pervasiveness of these business processes.

The applications envisioned are useful to internal and external users.

1. What permits are needed and who needs to be contacted?
2. Permit tracking – where is it?

Proof 2 Tasks

Task	Resource
1. Contact DCBS re participation in pilot; arrange meeting	Cy
2. Assess status of DCBS pilot for Metro	Cy & DCBS
3. Identify and recruit local partners	Cy
4. Identify additional development required for permit tracking	Gail
5. Recruit resources to address additional needs	Cy & Gail
6. Develop demo scenario	Gail & partners
7. Expose/describe “proof of concept” characteristics: Multiple agencies or departments within agencies Interoperability (depending on platforms involved) Data and hosting at multiple locations Use by non-GIS professionals Real-time access Representative of other applications Measurably improves existing important process	Gail