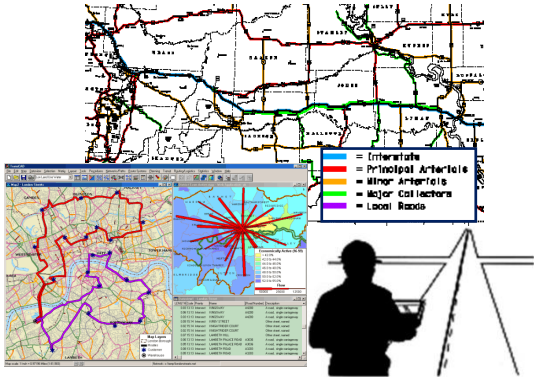
Idaho's Spatial Data Infrastructure

The Business Plan

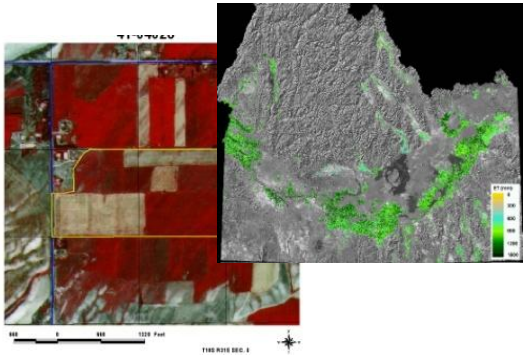
Supporting Idaho's future through geospatial technology

Geographic information provides vital support for a wide range of business needs and organizations in Idaho



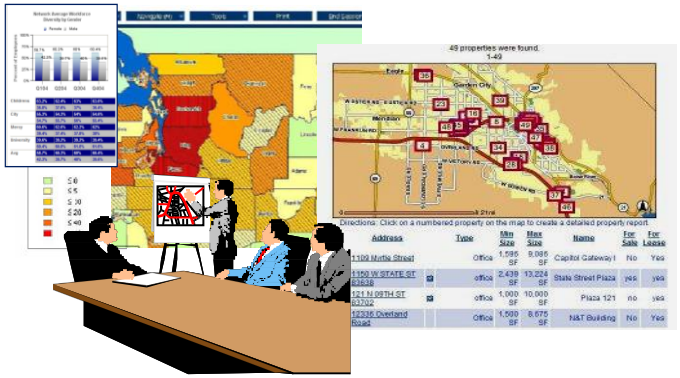
Highway and street data supporting public safety, public works, and transportation planning

Parcel data for real property appraisal and economic development



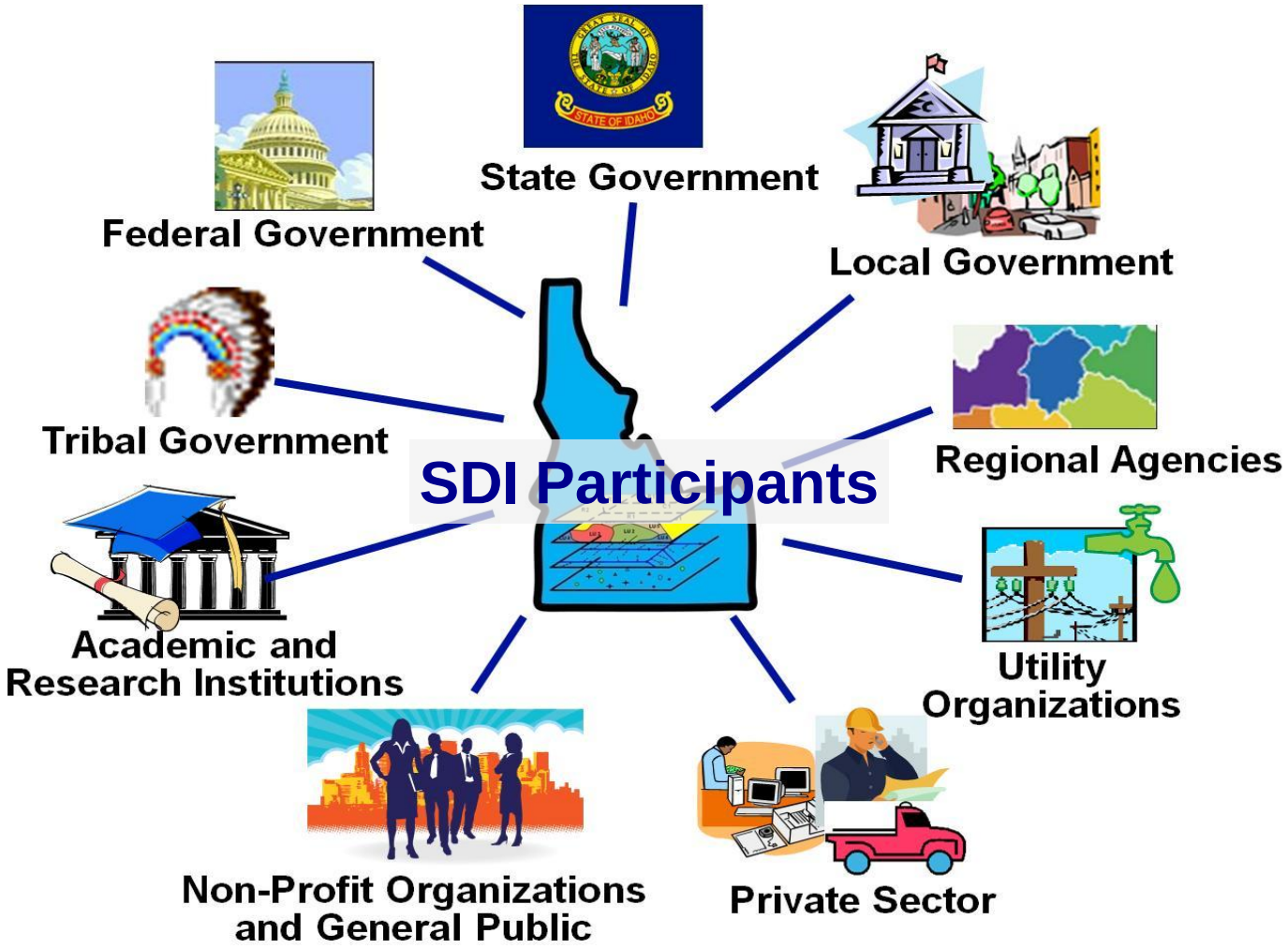
Natural resources information for environmental protection, tourism, and resource development

Address and demographic information for governmental service delivery and business development



Geostatistics for planning , financial management, and special studies

SDI is statewide, inclusive, and collaborative

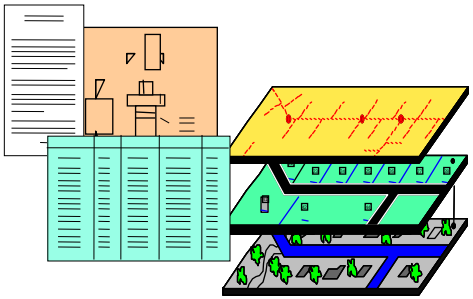


Spatial Data Infrastructure—What is it?

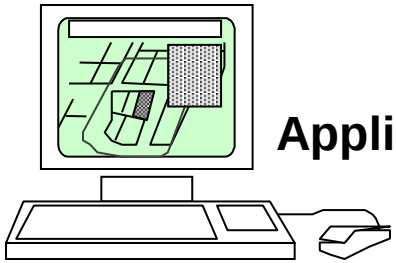
--not a single system but an ongoing initiative which provides:

- **Statewide base map data—kept current!**
- **Effective discovery and appropriate access to it**
- **Easy-to-use applications and services for query, mapping, and analysis**
- **An organizational structure that supports collaboration and coordination**

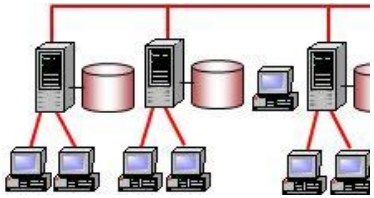
Components of the SDI



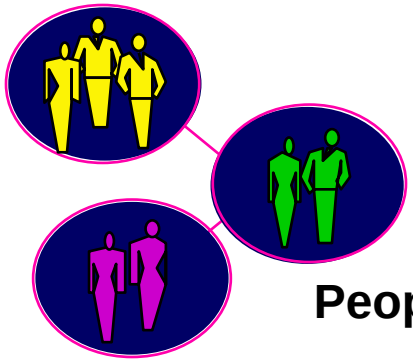
Geospatial Data



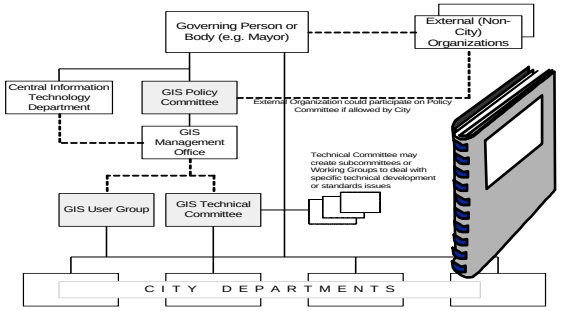
Applications



Physical Computer/Network Infrastructure



People



Solid organizational structure, policies, standards, and management

SDI Mission and Goals

SDI Mission

With leadership by state government and active participation from stakeholders statewide, we will develop, deploy and efficiently operate the SDI with a focus on meeting the geographic information needs of users and delivering real, substantial benefits to a comprehensive spectrum of organizations and individuals in Idaho.

SDI Goals

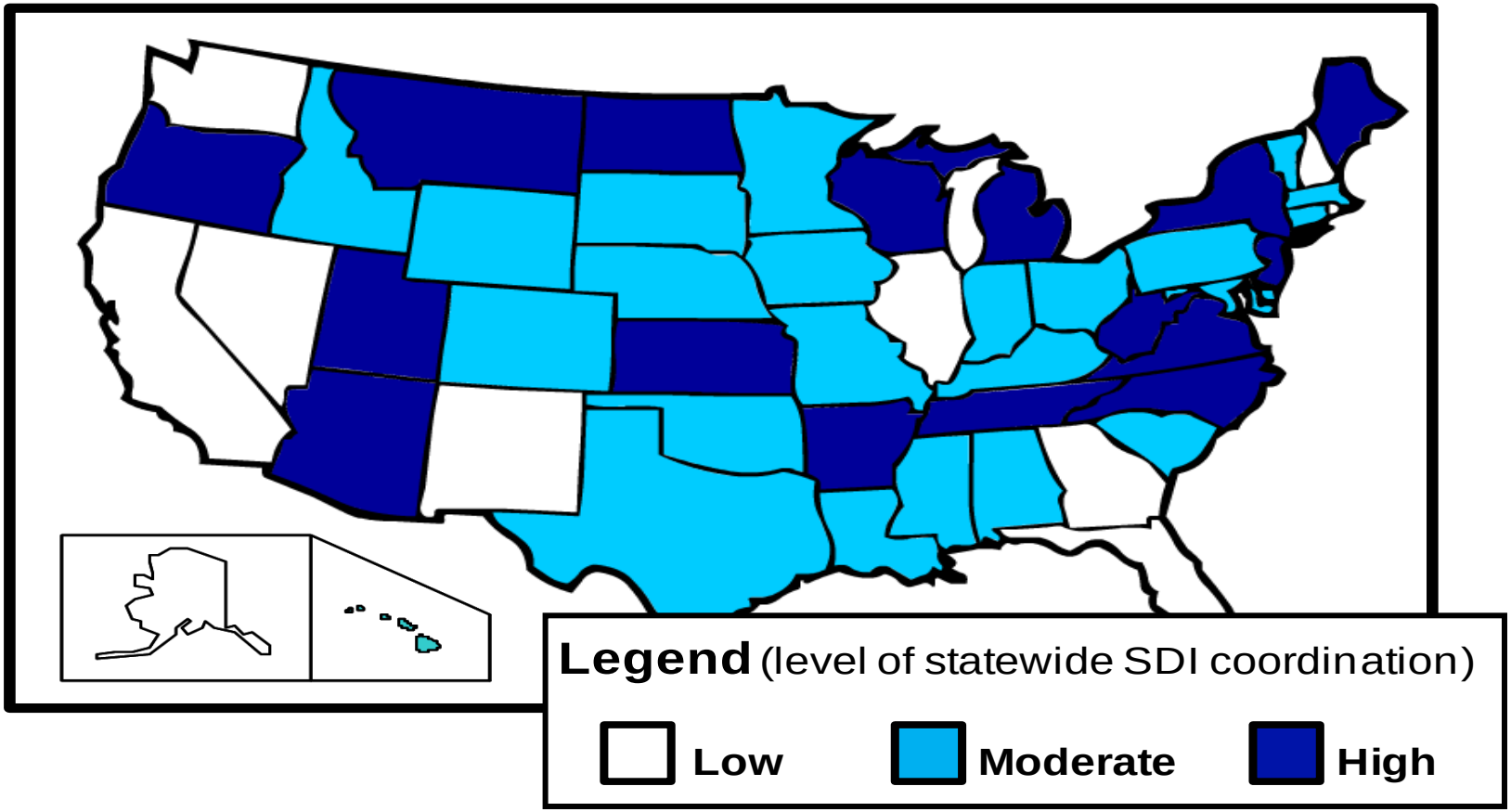
1. Develop a strong **business justification** to garner support and sustained financing
2. Implement an improved SDI **management and coordination structure**
3. Complete development of and maintain **Framework data**
4. **Leverage emerging technologies** for enhanced access
5. Connect and **integrate state and local/regional activities**
6. Increase **awareness and support**
7. Encourage and support development and maintenance of **non-Framework geographic data**
8. Expand **integration of geographic information** in enterprise systems
9. Leverage up-to-date knowledge about **GIS and IT trends, products, and services**

Our Existing Capabilities

- **Existing organizational structure promoting statewide coordination (IGO, IGC)**
- **Active GIS user groups and region-focused activities**
- **Some Framework data already developed and being maintained**
- **Statewide GIS Web portal and geographic data access through INSIDE Idaho**
- **Considerable ongoing GIS operations and services among state agencies and local governments**

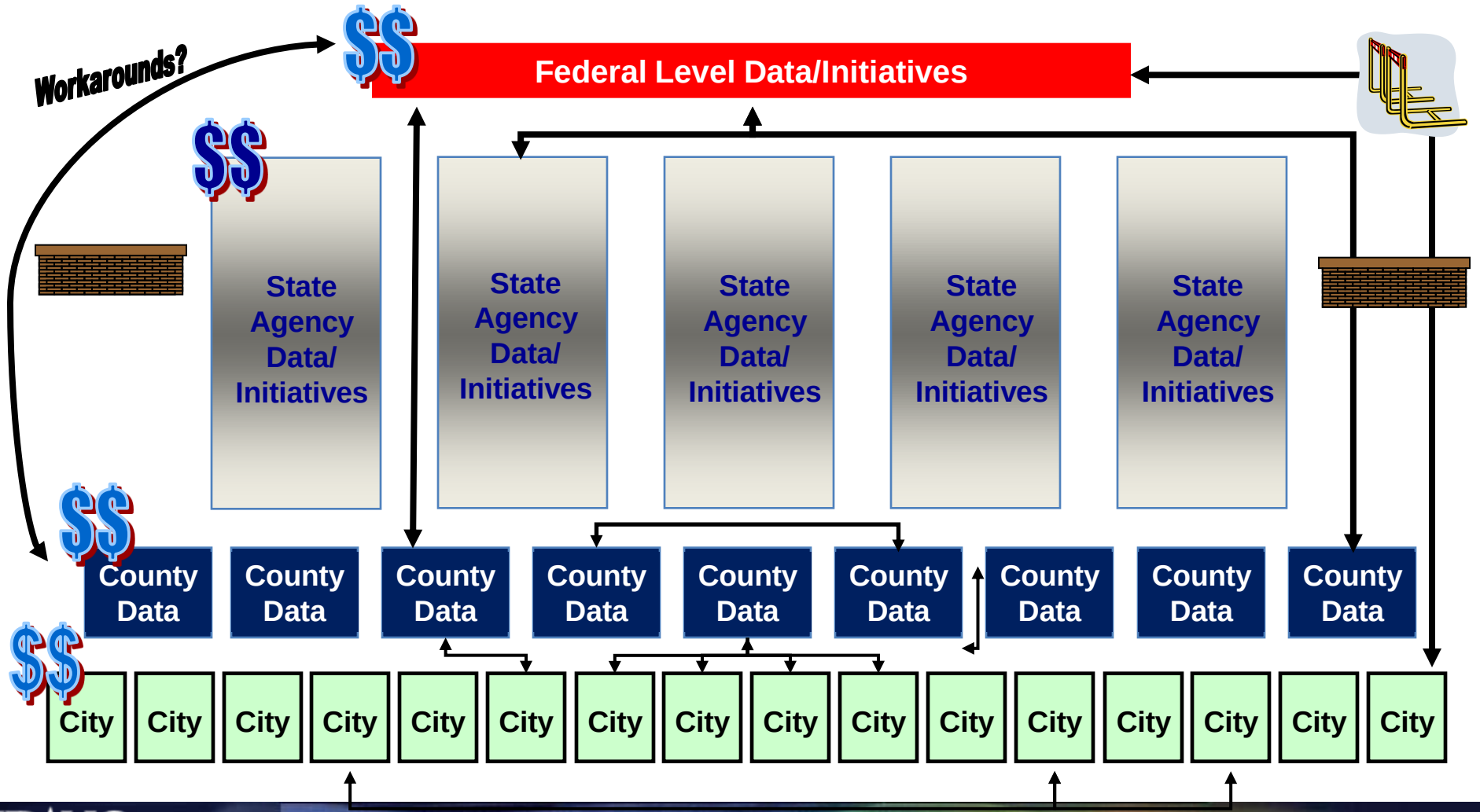
Bottom line→ the foundation has been laid and the GIS community is well-positioned to achieve SDI goals

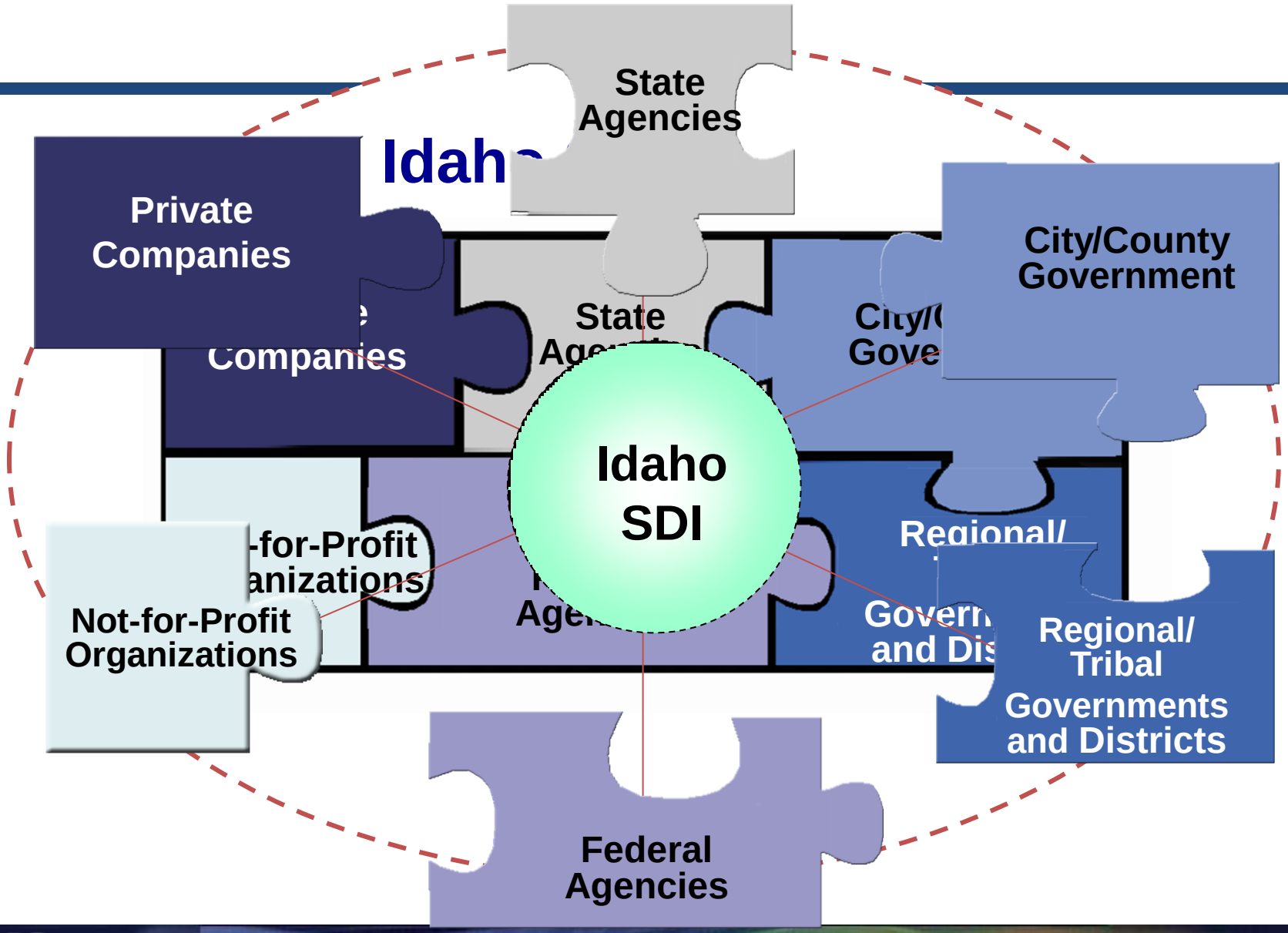
Level of SDI Coordination
How Idaho rates nationally*



*Prepared using Scorecard data from the National States Geographic Information Council (NSGIC) 2008 *State Summaries*

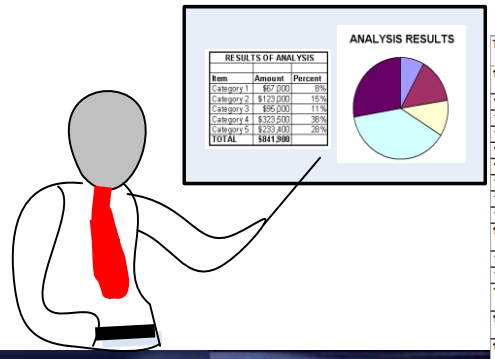
Organizational barriers obstruct efficient sharing of resources and information




State Agencies
Idaho
Private Companies
City/County Government
Idaho SDI
Not-for-Profit Organizations
Regional/ Tribal Governments and Districts
Federal Agencies

What we have going for us

- **Clear business need and demonstrated benefits for GIS technology and the SDI**
- **Significant and ongoing investments in geospatial technology and data**
- **Well-crafted strategy and plan**
- **Committed, enthusiastic, and knowledgeable statewide GIS community**
- **Great interest and momentum to move forward**



Task #	Task Name	Plan Start	Plan Finish
1	PROJECT SET-UP AND ON-GOING ADMINISTRATION	7/1/09	12/15/11
1.1	Prepare/Approve Budget	7/1/09	8/12/09
1.1.1	Prepare and present budget	7/1/09	8/11/09
1.1.2	Final budget approval	8/12/09	8/12/09
1.2	Recruit, Assign Staff and Assemble Team	7/1/09	10/20/09
1.2.1	Assign GIS project manager	7/1/09	10/20/09
1.2.1.1	Recruit/hire technical GIS staff person	7/8/09	9/1/09
1.2.1.2	Appoint team members and define roles	7/1/09	8/25/09
1.2.1.3	Conduct team orientation and training	7/29/09	10/20/09
1.3	Retain Consultant for Implementation Support	7/6/09	9/16/09
1.3.1	Solicit consultant proposals	7/6/09	7/21/09
1.3.2	Select consultant	7/22/09	9/15/09
1.3.3	Consultant notice to proceed (consultant on-board)	9/16/09	9/16/09
1.4	Detailed Implementation Plan and PM Procedures	10/21/09	11/5/09
1.5	On-going Project Monitoring and Status Reporting	9/2/09	12/15/11
1.5.1	Monitor and adjust project scope/schedule	11/6/09	7/28/11
1.5.2	Prepare status reports	9/2/09	9/7/11

Formal organizational endorsements

- **Association of Idaho Cities**
- **City of Boise Mayor Bieter and Fire Chief Doan**
- **Idaho Power**
- **Intermountain Forest Association**
- **Idaho State University**

Additional endorsements are being provided

What we need to succeed

- **Formal support and authorization from senior officials**
- **Additional resources (people, skills, money)**
- **Strengthened/expanded collaboration and participation**
- **Recognition that the SDI is a critical part of the state's enterprise information architecture**
- **Greater decision-maker awareness and understanding of current and potential benefits**

SDI supports a wide range public and private business needs

Overarching GIS Business Drivers

Examples:

- Increased government efficiency
- Reduced energy consumption
- Better-informed decisions

Program or Discipline-Specific Business Drivers

Examples:

- Emergency planning and response
- Economic development and tourism
- Education and research
- Public health and disease tracking
- Facility siting
- Land use planning

Benefits of SDI and GIS technology

- **Operational and Efficiency Gains** → e.g., reducing labor costs and turnaround time for access to and use of maps with effective use of GIS technology
- **Cost Savings** → e.g., reducing contract costs and operational expenses
- **Cost Avoidance** → e.g., keeping requirements for additional resources low while responding to growth and demands for new services
- **Revenue Enhancement** → e.g., supporting complete and equitable allocation and collection of fees and assessments
- **Difficult-to-Predict Quantitative Benefits** → e.g., response to/recovery from emergency events and support in legal cases
- **Non-quantifiable Benefits** → e.g., enhanced citizen/customer service and decision making and range of economic, social, environmental improvements

Idaho SDI stakeholders have only begun to realize the amount of the potential benefits that the SDI can deliver

Benefits: Imagery Example

- Operational Gains: Instant access to current landscape
- Cost Savings: Statewide purchase saves money for all
- Cost Avoidance: Field trips significantly reduced (take measurements, determine surface, evaluate context)
- Revenue Enhancement: Unreported property discovery (homes, boat docks, timber stands)
- Difficult-to-Predict Quantitative: Legal settlement of water claims, reduced carbon footprint, protecting property
- Non-quantifiable: Better decisions, stimulates economic activity, saving lives, enhances understanding of our state

Examples of GIS applications in Idaho….

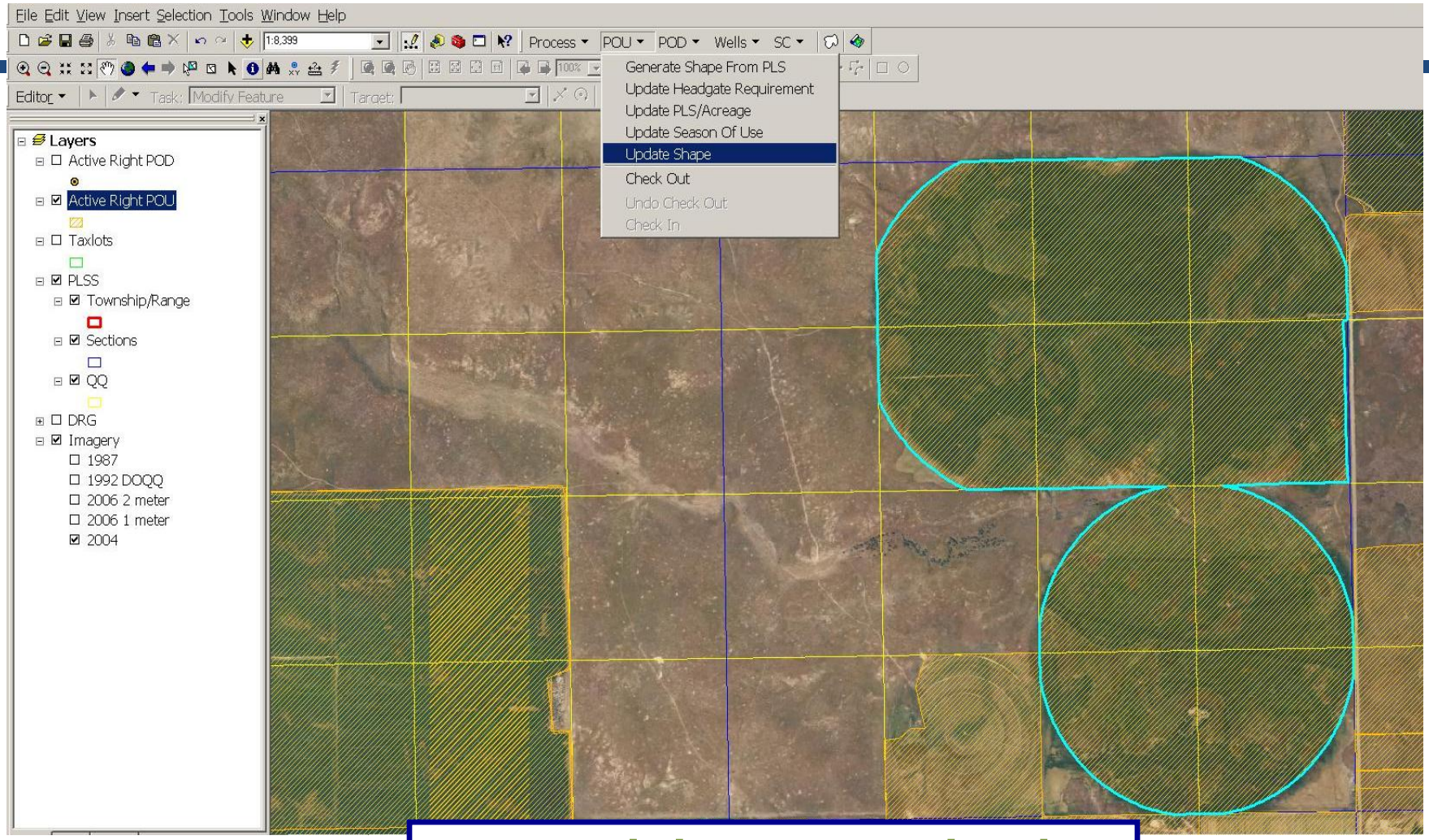
Gem State Prospector: Business development site selection

Printable Email Acrobat W

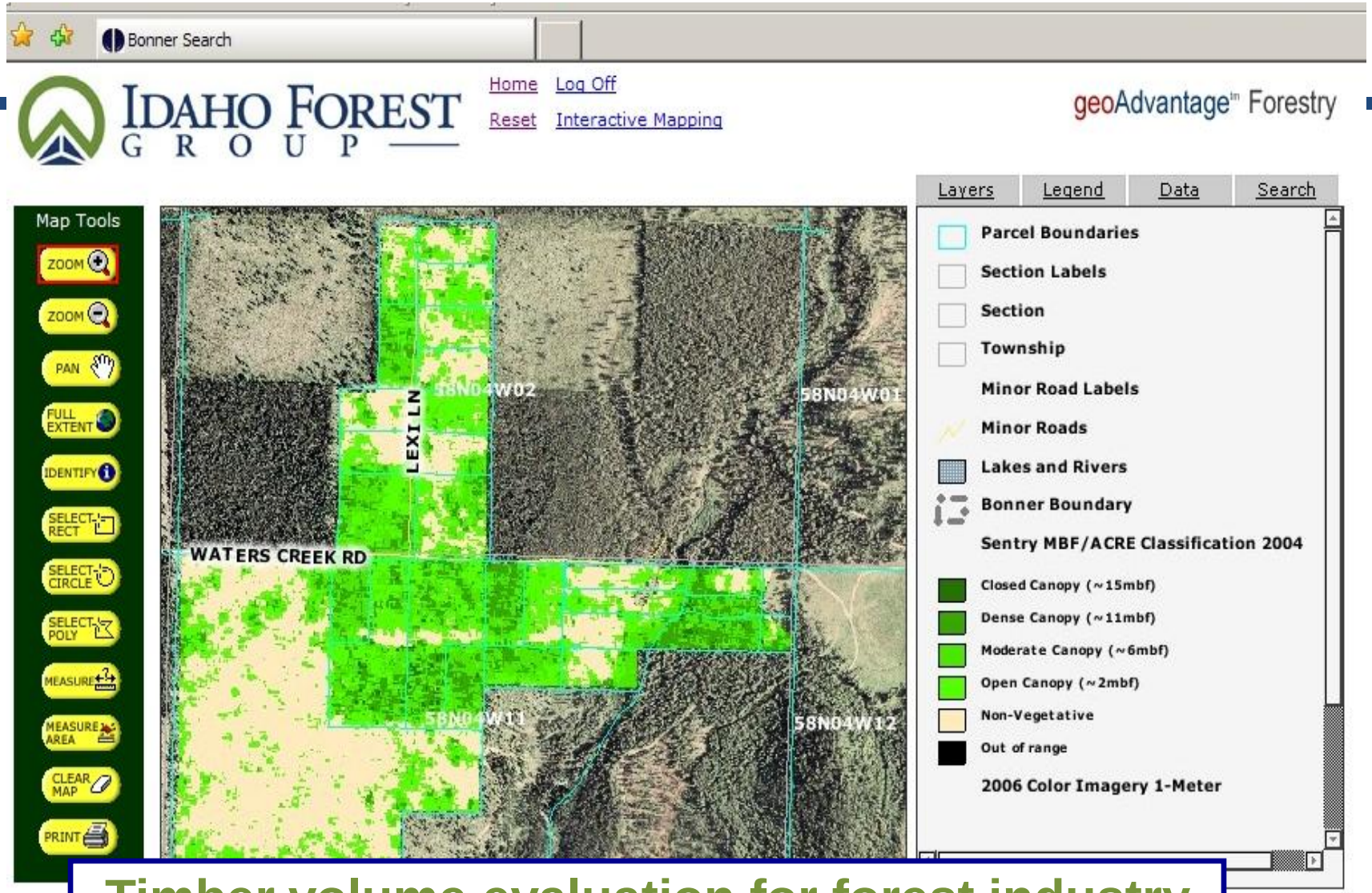
44 properties were fou
1-44

Directions: Click on a numbered property on the map to create a detailed property report.

		Address	Type	Min Size	Max Size	Name	For Sale	For Lease
1.	☐	101 S. Orchard Street	Retail	1,155 SF	5,268 SF	Shops at Franklin & Orchard	No	Yes
2.	☐	1020 W MAIN ST 83701	office, retail	175 SF	2,000 SF		no	yes
3.	☐	10321-10477 W. Fairview Avenue	Retail	3,000 SF	3,000 SF	Midvalley Shopping Center	No	Yes
		10362-10490 W						

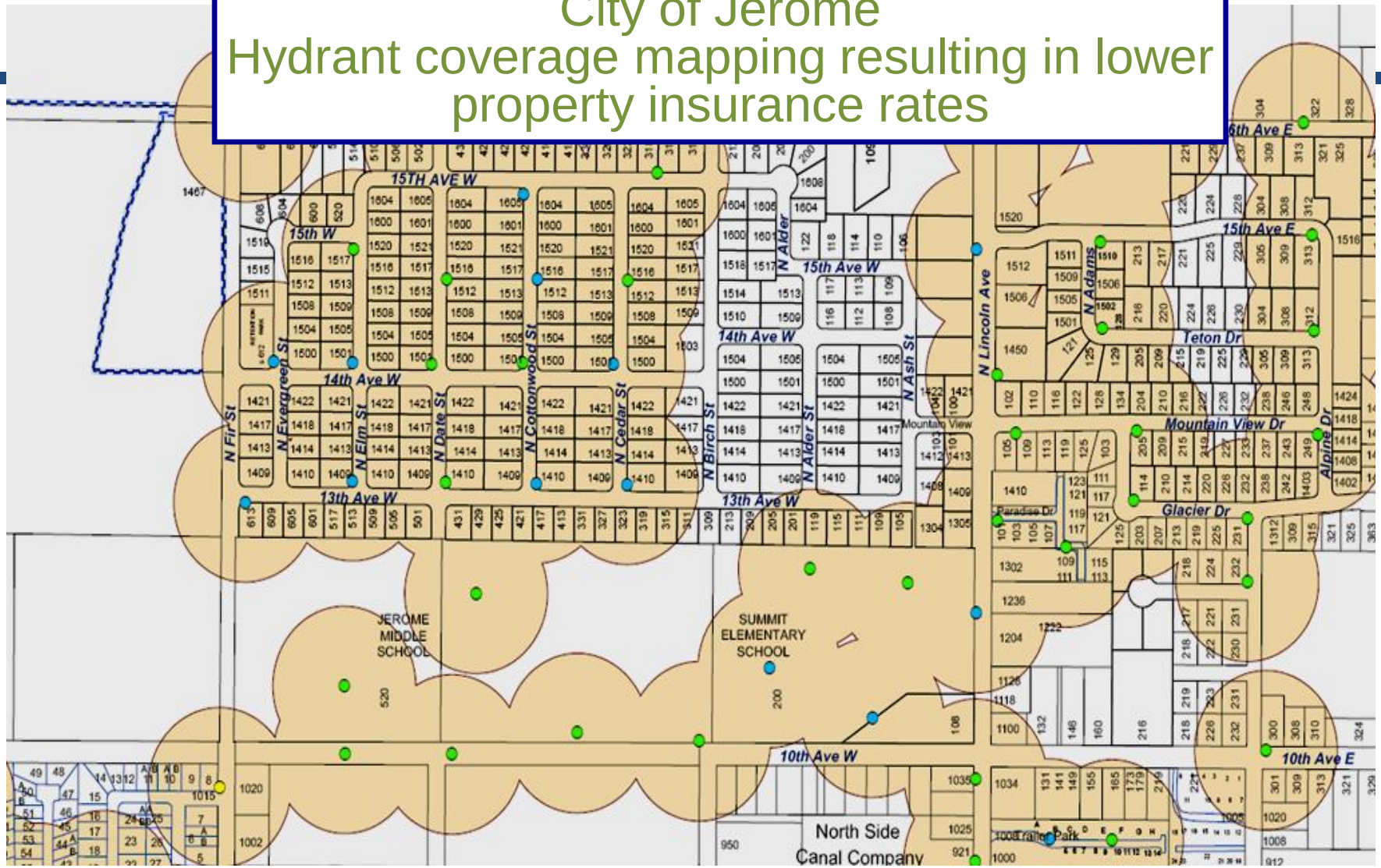


Water Rights Determination

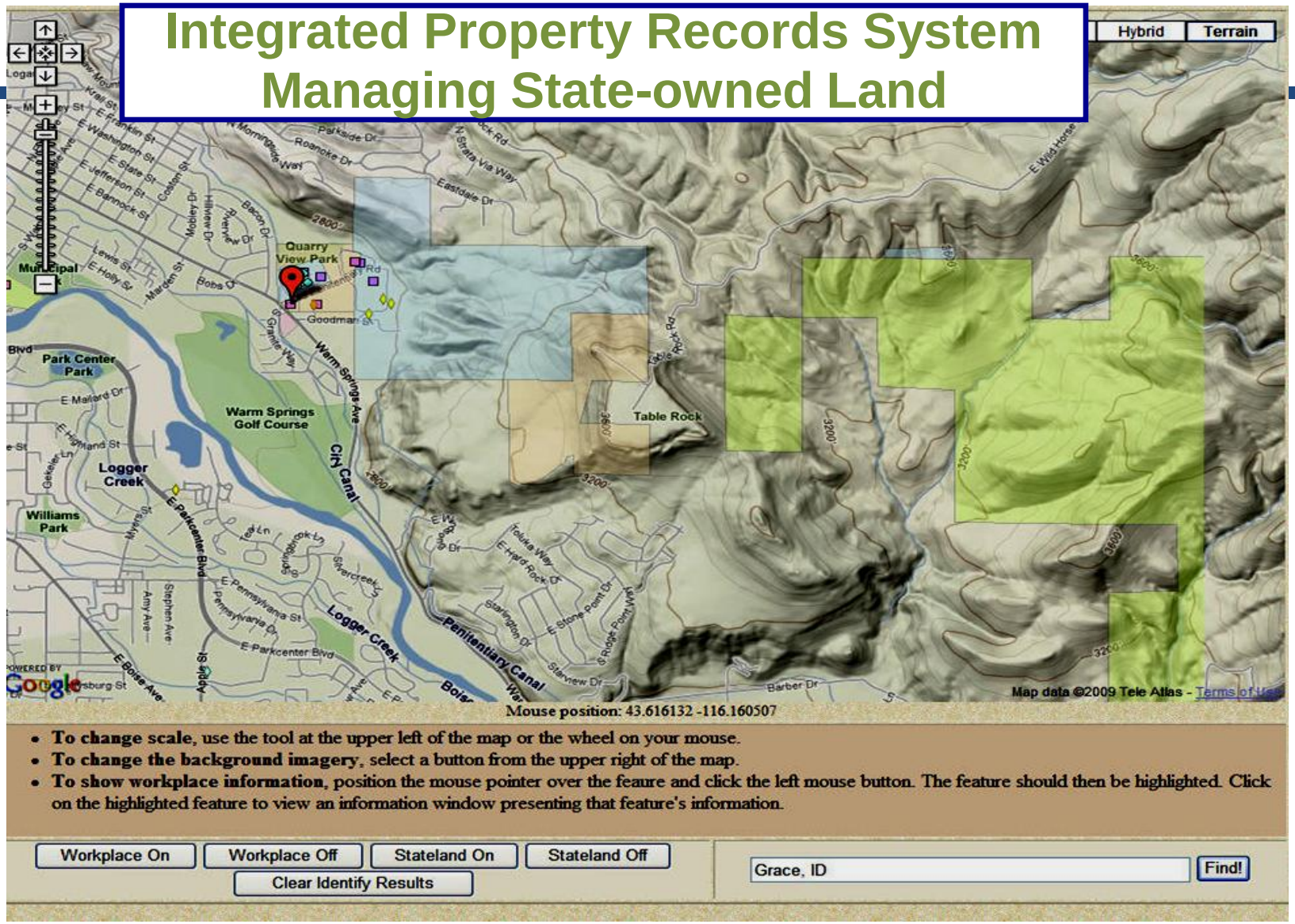


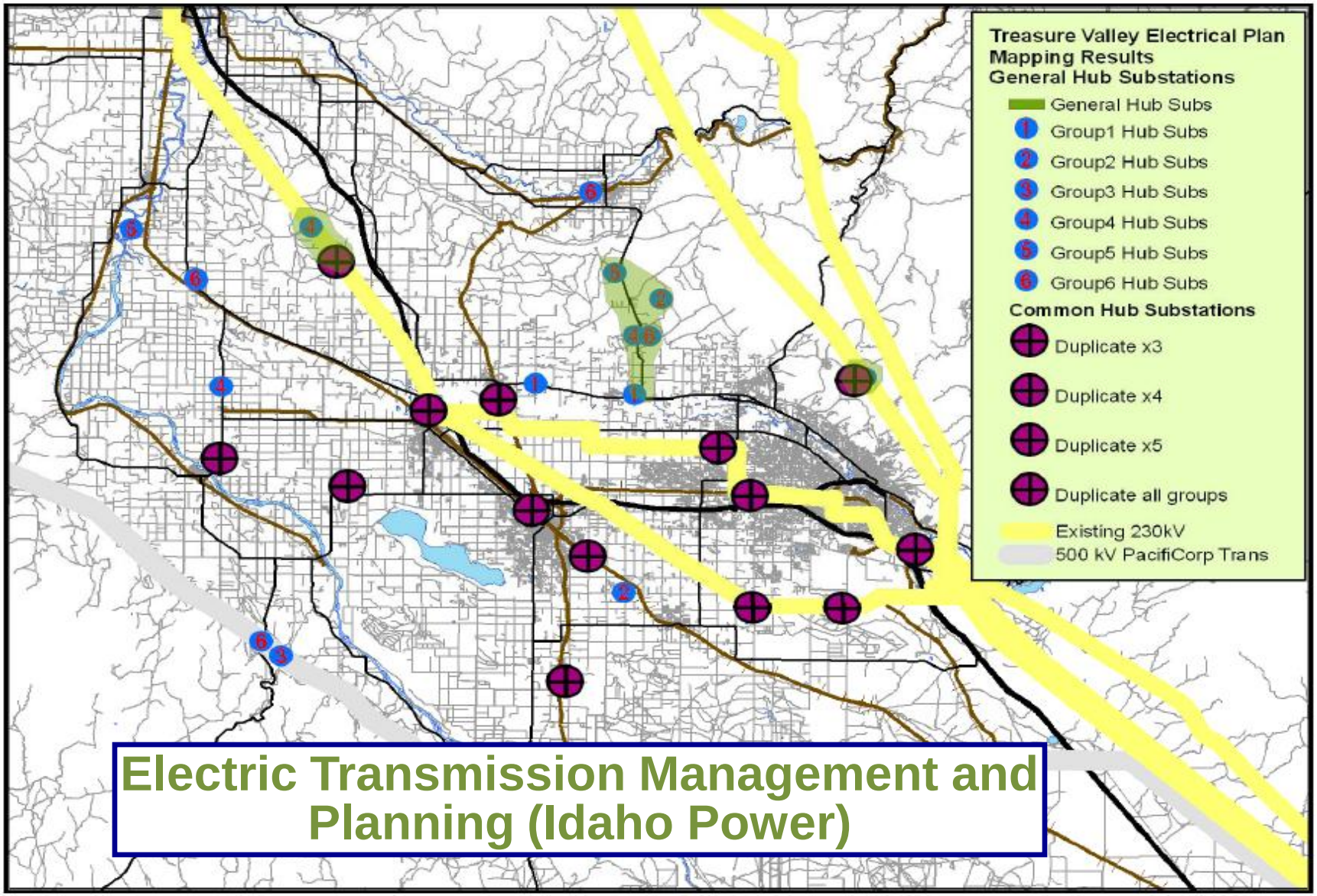
Timber volume evaluation for forest industry

City of Jerome
Hydrant coverage mapping resulting in lower property insurance rates



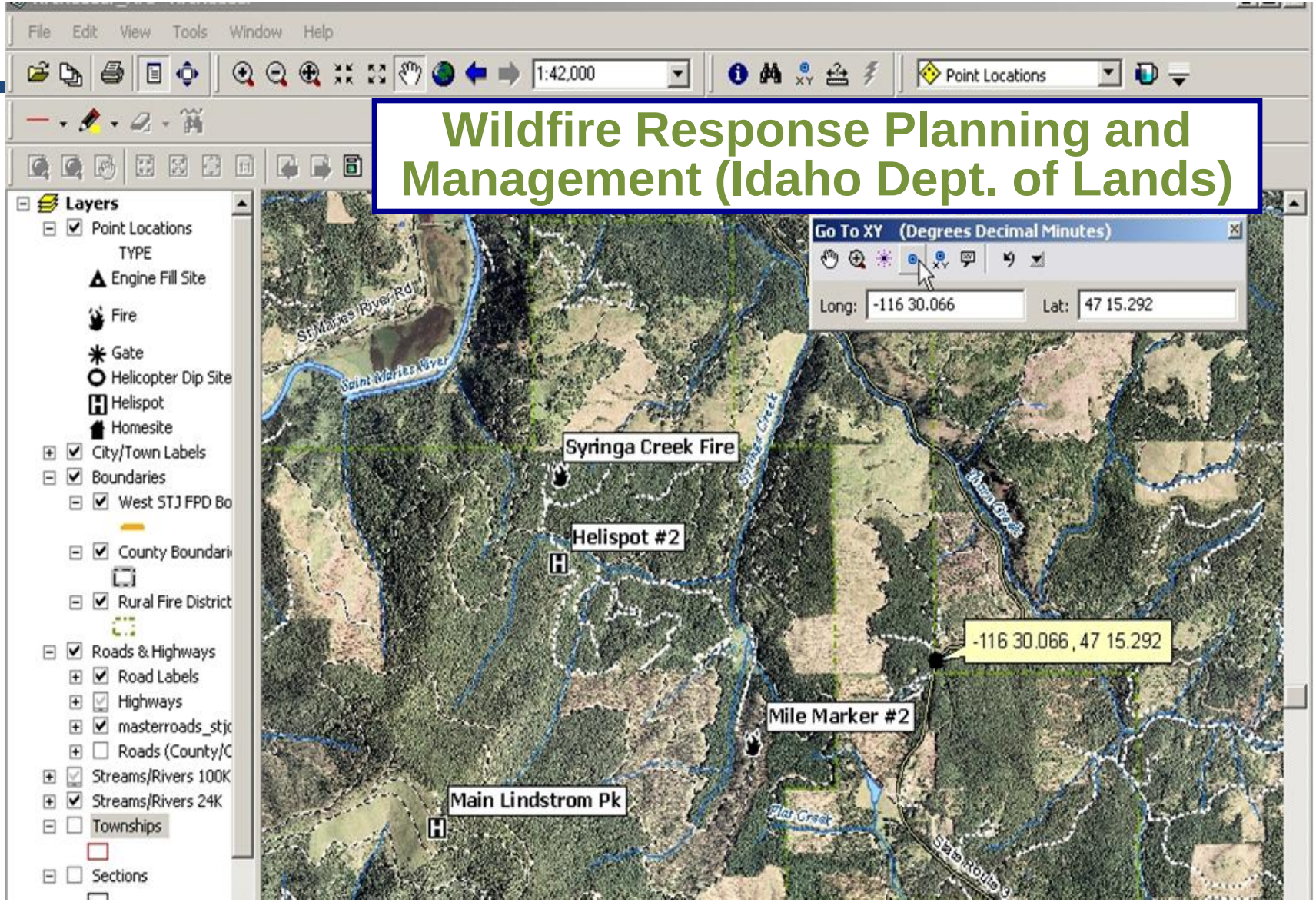
Integrated Property Records System
Managing State-owned Land





Electric Transmission Management and Planning (Idaho Power)

Wildfire Response Planning and Management (Idaho Dept. of Lands)



SDI Development Phases

Phase	Projected Timing	Key Milestones
Phase 1: Organizational Development and Technical Design	Jan. 2009 to Dec. 2010	• Get formal approvals and establish additional funding sources • Put in place SDI governance/org structure • Continue with Framework data development • Assign roles and prepare work plans for implementation initiatives • Define Regional Center structure and data stewards • Design/develop critical enterprise applications
Phase 2: High-Priority SDI Development and Deployment	Jan. 2010 to June 2011	• Secure additional funding sources and partnerships • Strengthen statewide participation • Develop and deploy of critical GIS applications • Continue with Framework data development and stewardship • Establish/formalize initial Regional Centers
Phase 3: Continued SDI Development and Deployment	July 2011 to Dec. 2012	• Continue with Framework data development and stewardship • Establish additional Regional Centers • Enhance Core Data and Services operations
Phase 4: Full SDI Development and Deployment	Jan. 2013 to Dec.2013	• Maintain funding sources and partnerships for SDI development • Complete statewide coverage on most Framework data

Cost Projections for SDI Development

SDI Implementation Cost Category	5-Year SDI Cost Projection
Augmented staff and operational budget for IGO	$431,000
IGC Operational Support	$52,000
Outreach, Communications, Promotion	$44,500
Framework Database Development and Stewardship	$21,449,000
Regional Center Development and Support	$510,000
Computer Hardware, Software, Network Infrastructure	$50,000
Training/Education	$385,000
GIS Application Development and Deployment	$900,000
INSIDE Idaho Enhancement/Virtual Portal Development and Operation	$675,000
	$24,496,500 *

*About 40% of these funds are already committed or budgeted through state and federal programs

Funding/financing strategies

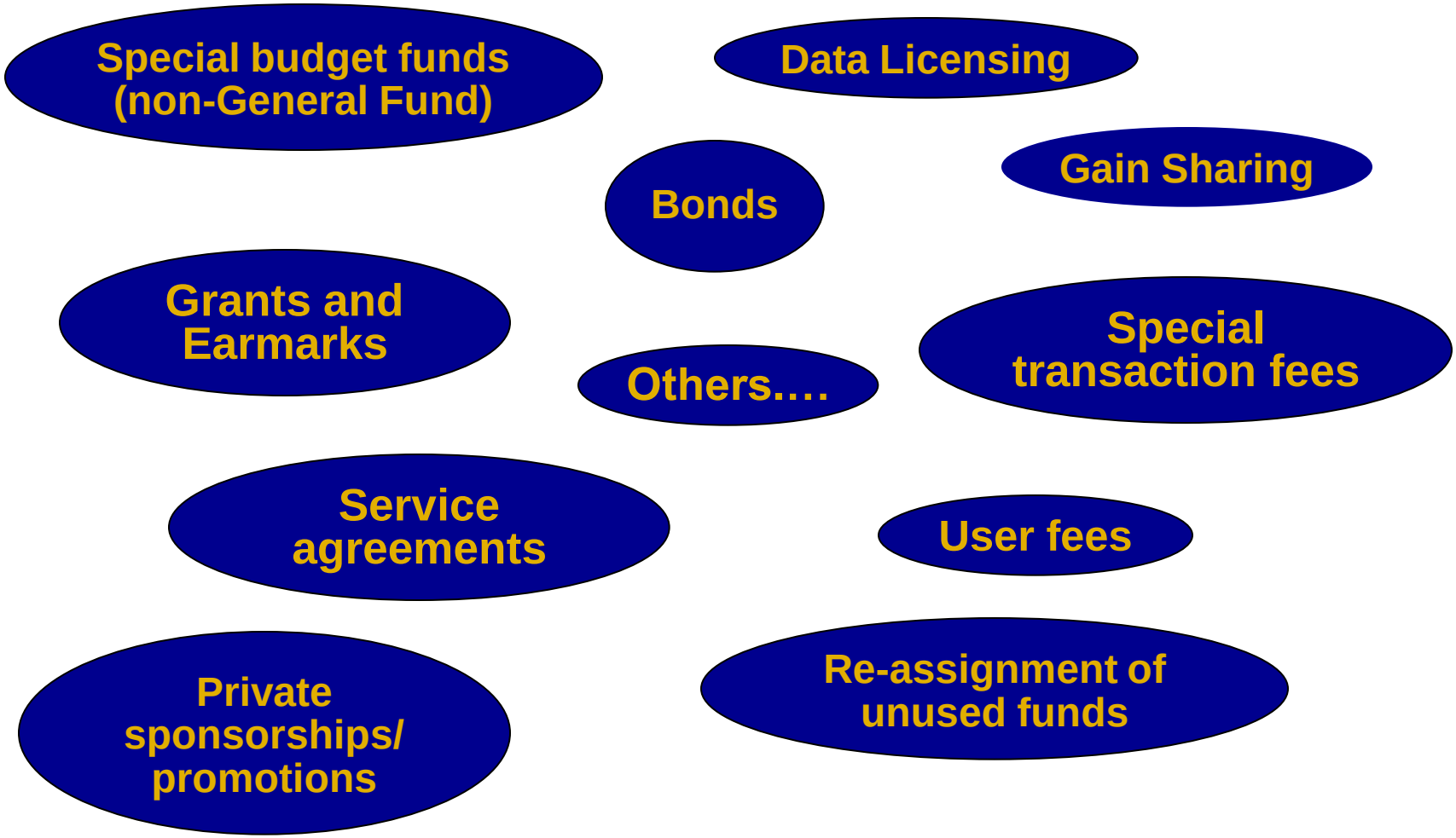
SDI development will be paid for through:

a) improved leveraging and use of current ongoing investments

b) additional state budget allocations, and

c) use of new funding and financing sources and strategies….

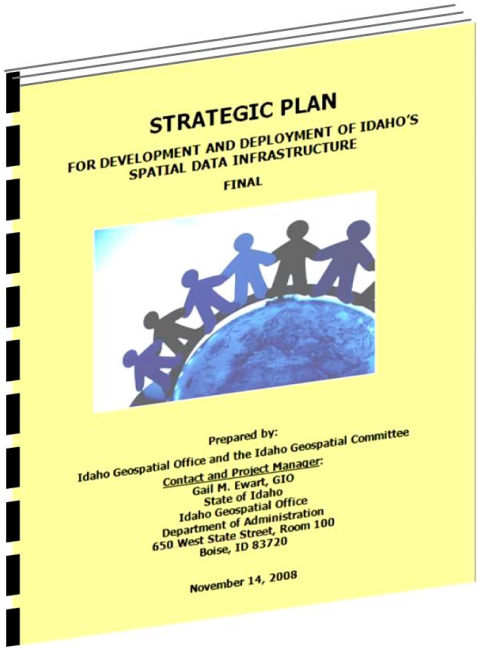
Many opportunities for financing the SDI

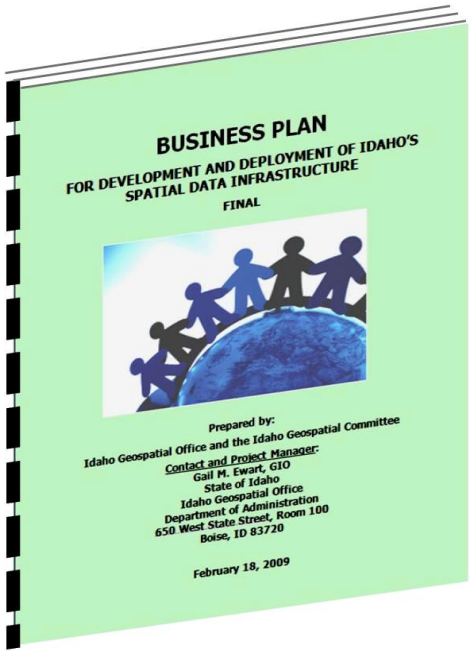


SDI Strategic Plan and Business Plan

Strategic Plan → Describes context, the long-term vision, and overall direction for SDI development (the "*what*")

Business Plan → Sets forth the business justification and detailed approach to achieve the SDI vision (the "*why*" and *"how*")





Request for ITRMC Approval

- **Council Decision:**

  Does the Council approve the Strategic and Business Plans for Idaho's Spatial Data Infrastructure Initiative?