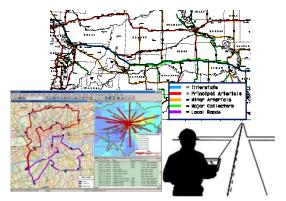
IDAHO'S STATEWIDE SPATIAL DATA INFRASTRUCTURE

SDI **put in the selected brand name?

Supporting Idaho's future through geospatial technology

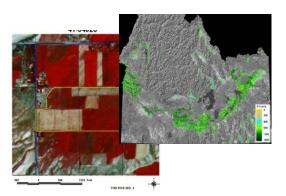
Geographic information provides vital support for a wide range of business needs and organizations in the state



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

Idaho SDI



Geostatistics for planning, financial management, and special studies

SDI Plan Executive Summary Presentation

SDI is statewide, inclusive, and collaborative







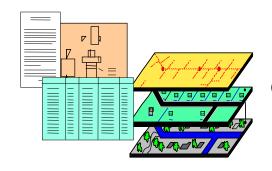
Spatial Data Infrastructure—What is it?

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

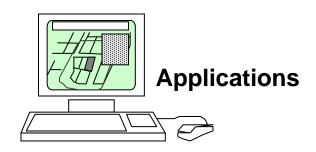
- Statewide, commonly needed, up-to-date spatial data
- Effective access to and sharing of spatial data among a statewide user community: public sector, tribal, private companies, non-profit groups, universities, general public
- Easy-to-use applications and services to support information query, mapping, and analysis needs
- An organizational structure that supports collaboration and coordination

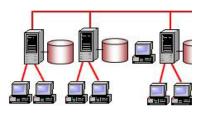


Components of the SDI

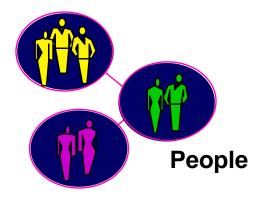


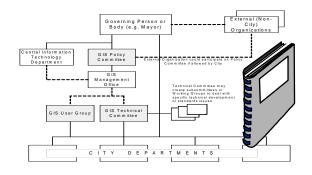
Geospatial Data





Physical Computer/Network Infrastructure





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. Sustain and convey a strong business justification
- 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. Maintain and leverage up-to-date knowledge about **GIS** and **IT** industry trends, products, and services



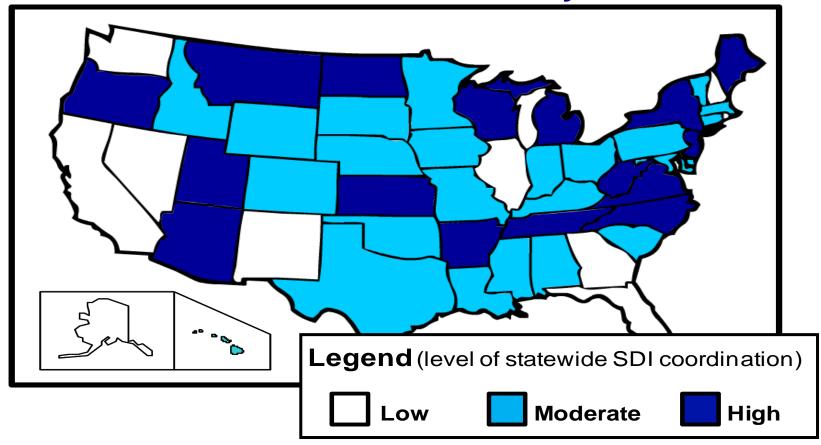
Idaho's SDI is partially built and working—but much remains to be done to achieve the long-term goals

- 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 state 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*

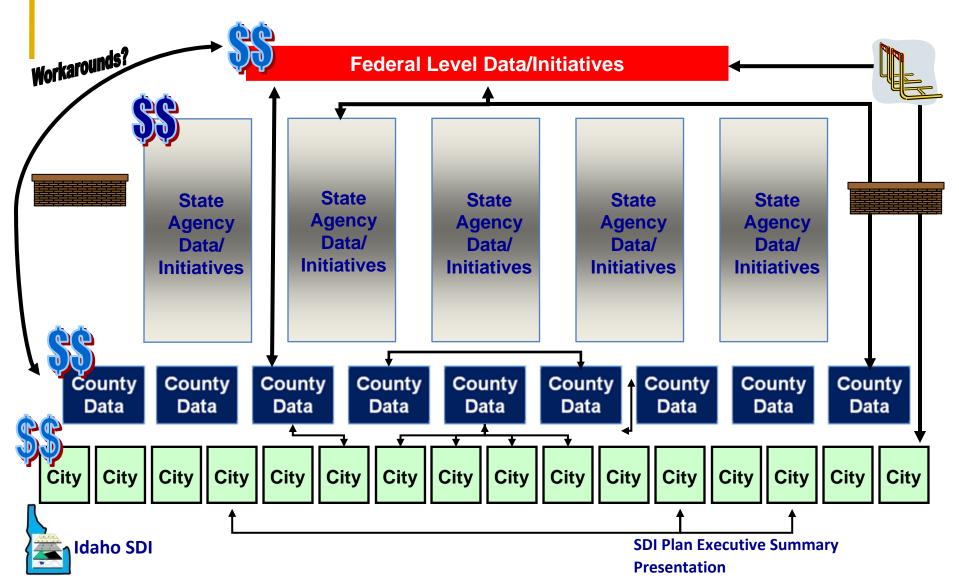


The Main Obstacles to Full SDI Development:

- Organizational barriers
- Incomplete spatial databases
- Lack of full coordination and collaboration
- Insufficient high-level support, mandate, and policies
- Inadequate resources (people, skills, money)



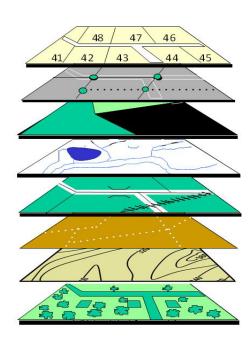
Organizational barriers obstruct efficient sharing of resources and information



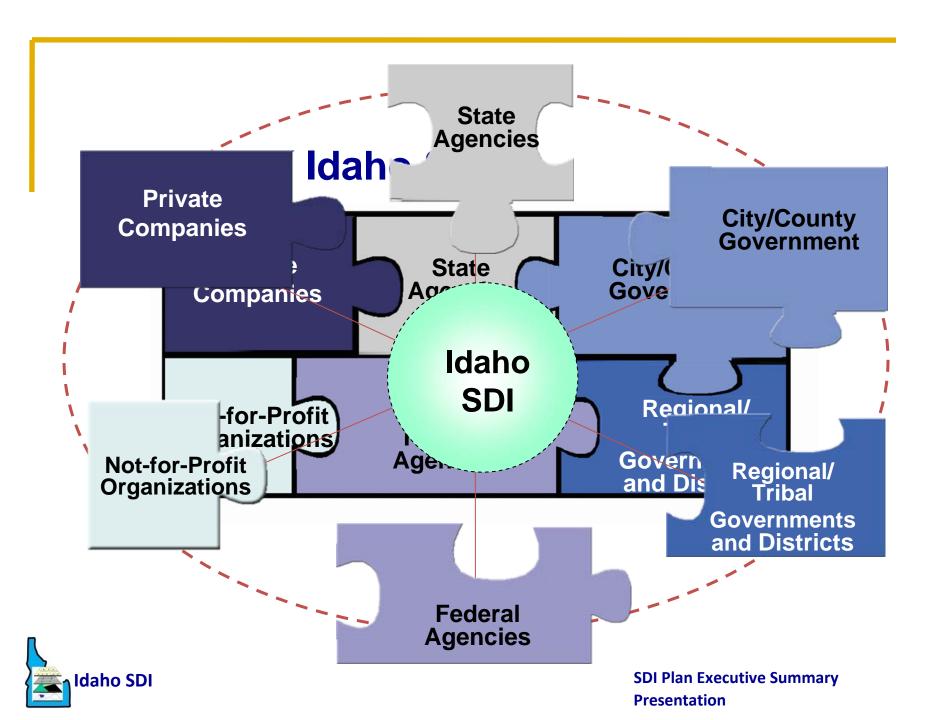
Geospatial Data Stack Concept

Build data once, maintain in a unified manner, and make available to all SDI participants

- Opportunities for efficiency and elimination of unnecessary duplication
- Total Cost of Ownership and Return on Investment calculations at a macro level
- Opportunity mining without a single deciding authority
- Addresses the business needs of local governments, so they will have reason to contribute resources to the stack
- Data generalization standards assure usability and value at all levels
- Facts-based management of GIS applied across jurisdictions

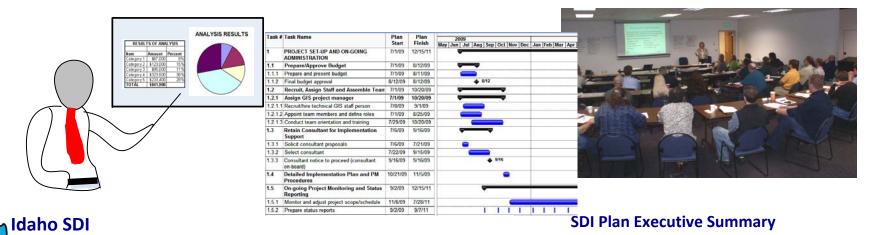






What we have going for us

- 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



Presentation

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
- 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 sector business needs:

Overarching GIS Business Drivers

Business Driver	Priority*
Basis for inter- and intra-organization coordination and partnerships	VH
Response to public demand for information	VH
Reduction in redundancy, labor time, and cost	VH
Enhanced Revenue	Η
Energy costs and efficiency	Η
Enhancement of environmental quality, sustainability, and livability	Η
Management and access to historical geographic information	MOD
Improved geographic data quality and currency	MOD
Support for private business	MOD

*Priority: Very High (VH), High (H), Moderate (MOD)

Program or Discipline-Specific Business Drivers

Business Driver	Priority*
Emergency planning/ management and public safety	VH
Real property appraisal	VH
Infrastructure facility management	Н
Economic development and tourism promotion	Н
Agricultural productivity and invasive species management	Н
Land development planning	Н
Facility planning and design	MOD
Floodplain/flood event management	MOD
Support for improved regulatory decisions	MOD
Educational program enhancement	MOD
Support to county commissions	MOD
Grant application support	MOD
Public health management	MOD



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 new demands for 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 realized a small amount of the potential benefits that the SDI can deliver



Examples of GIS applications in Idaho....

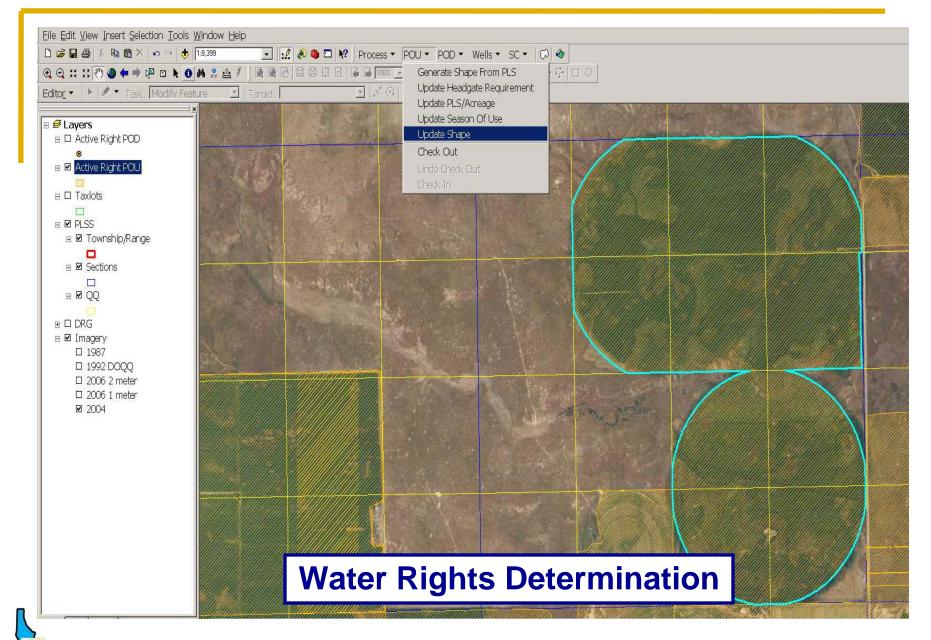




Directions: Click on a numbered property on the map to create a detailed property report.

Address	Type	Min Size	Max Size	<u>Name</u>	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. Tairview Avenue	Retail	3,000 SF	3,000 SF	Midvalley Shopping Center	No	Yes
10362-10490 W						

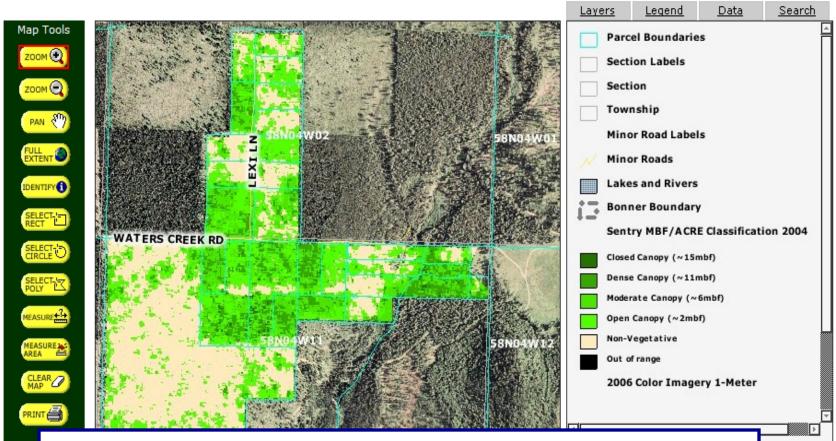




Idaho SDI

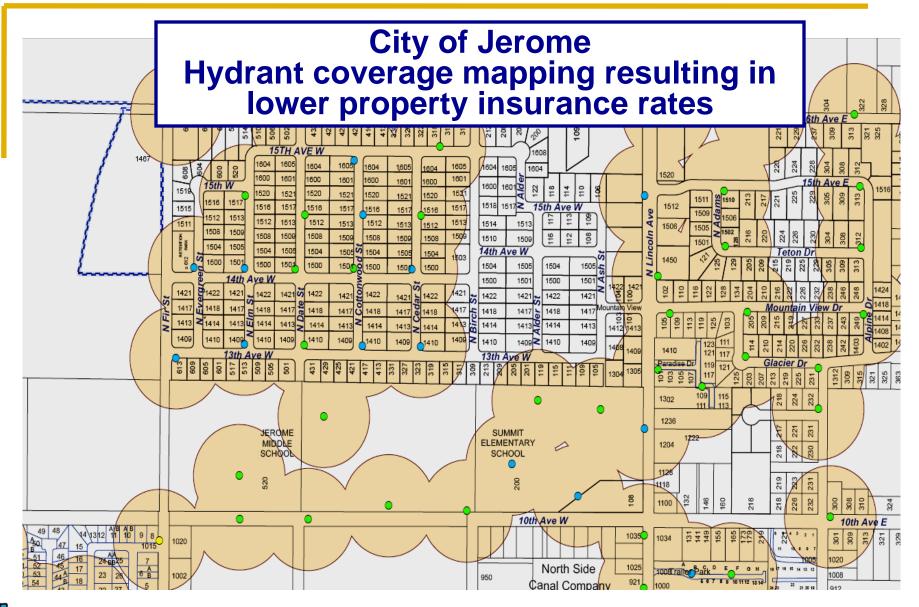


geoAdvantage™ Forestry

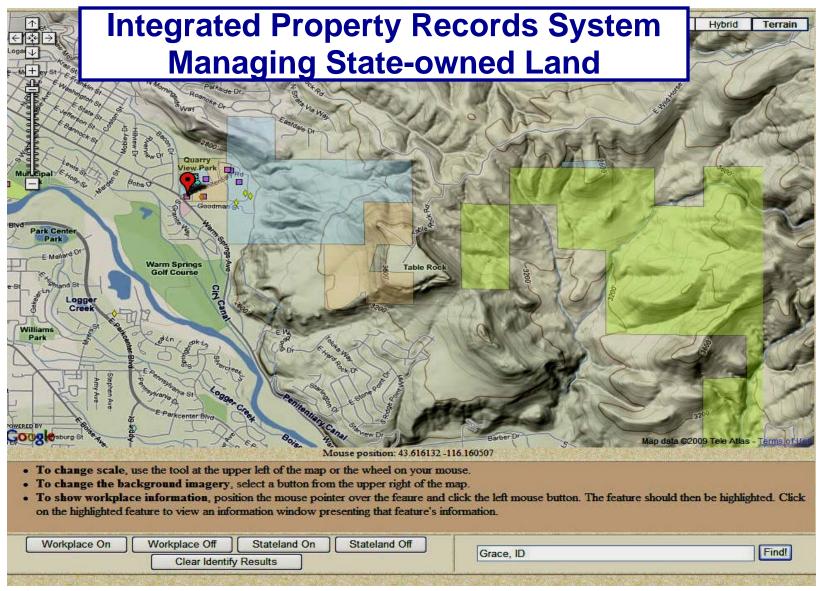




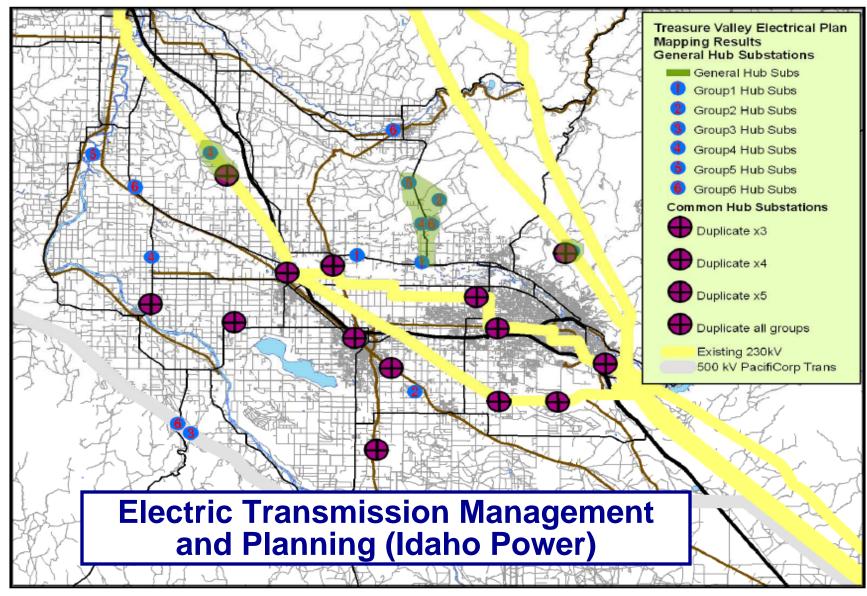


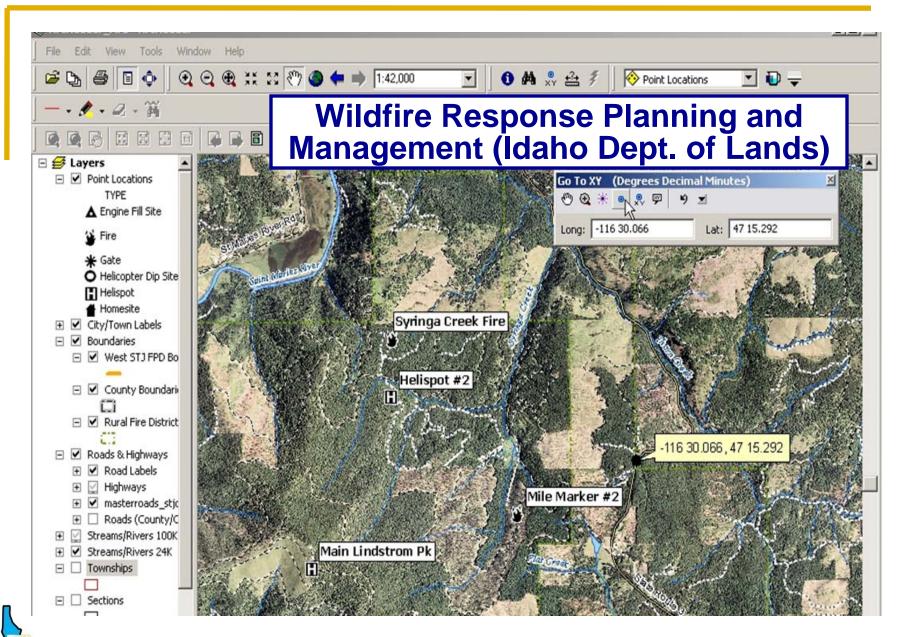












Idaho SDI

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 (5-year) 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
*About 400/ of those funds are already committed ar	\$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: Funding follows decision maker support.....

Special budget funds Data Licensing (non-General Fund) **Gain Sharing Bonds Grants and Special Earmarks** transaction fees Others.... Service **User fees** agreements Re-assignment of **Private** unused funds sponsorships/ promotions



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")

