



State-Level and Natural Resource Agency GIS Capabilities

Legislative Committee on Public Lands

May 26, 2006 Mesquite, Nevada

GIS for Nevada

EXHIBIT N - LANDS

Document consists of 16 slides.

Entire Exhibit Provided

Meeting Date: 05-26-06

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WHAT IS GIS?

- **Spatial and Attribute Databases**
 - **Computerized Mapping**
- **Analysis/Modeling/Problem-Solving**

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GIS Layers

- Points
(Buildings, Wells,
etc)
- Lines (Rivers,
Roads)
- Polygons
(Parcels, Census
Tracts)
- Imagery (Air
photos)

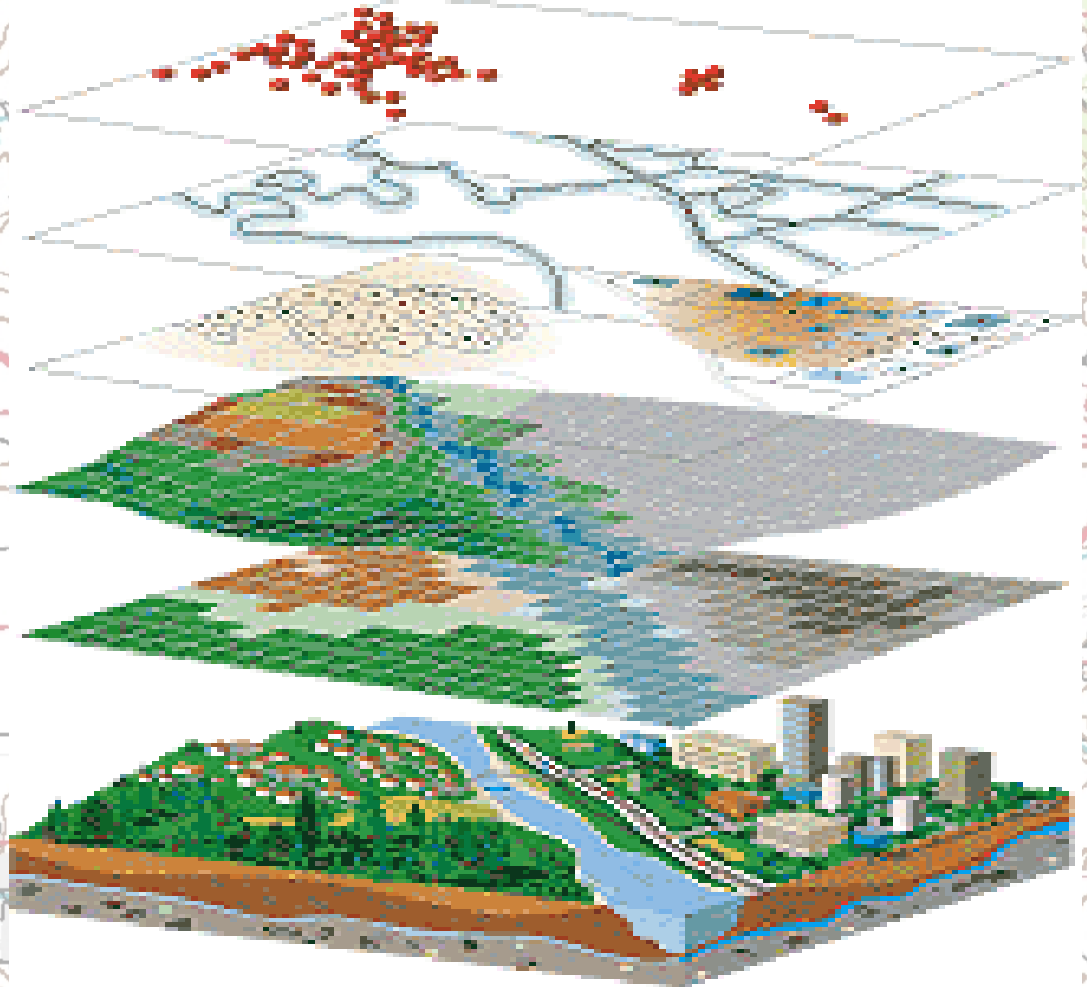


Image from
ESRI's website

IMPORTANCE OF GIS

- **Natural Resources Management**
 - **Public Health & Safety**
 - **Infrastructure Management**
- **Disaster Response & Recovery**

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GIS IS HERE TO STAY

High Expectations

- **Public**
- **Partners**

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GIS IN NEVADA

A Quick Overview...

GIS for Nevada

GIS IN STATE GOVERNMENT

Weaknesses

- **No statewide standards = data incompatibility**
- **Duplicative, inefficient data gathering and purchase = wasted \$ and time**
- **No coordination = inability to secure/receive grant dollars**
- **Lack of high-level guidance in GIS capability development**

GIS IN STATE GOVERNMENT

Threats

- **GIS “education gap” may lead to poor decision-making**
- **Urgency of external demands drives decisions in absence of plans/policy**
- **Vendors driving state business decisions**
- **Delay in “course correction” leads to higher costs**

GIS IN STATE GOVERNMENT

Opportunities

- **Closely align GIS technology with mission and business requirements**
- **Develop goals & strategic plans for GIS capability in state government**
- **Establish performance measures to ensure better policy/funding decisions**
- **Coordinate at enterprise level while retaining uniqueness of agency products**

GIS IN STATE GOVERNMENT

Strengths

- **Desire of GIS “community” for leadership and direction**
- **Willingness of GIS users to step up**
- **Support of key agency heads and partners**
- **Recognition that education and action are necessary**

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**GIS
IN
CONTEXT**

**Other
Western States**



GIS for Nevada

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GIS IN CONTEXT

- **National Efforts**
- **50 States Initiative**



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NEXT STEPS IN NEVADA

- **Coordination**
- **Governance**
- **Agency Capability**
 - ✓ **Data Development & Maintenance**
 - ✓ **Personnel & Training**
 - ✓ **Mapping & Analysis**

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A topographic map of Nevada is positioned diagonally across the slide, from the top-left towards the bottom-right. The map shows the state's terrain with various shades of green, yellow, and brown representing different elevations and land features. The title text is overlaid on this map.

NEVADA NATURAL RESOURCES & GIS

*Today's Challenges:
A Few Examples*

GIS for Nevada

NEXT STEPS FOR NATURAL RESOURCES

- **Support Statewide GIS Coordinator**
- **Establish Natural Resources GIS Coordinator**
- **Strategically Grow Agency GIS Capability**

A GLIMPSE OF THE FUTURE

- A strategic plan for Natural Resources GIS
- Reliable, useful, shareable data
- Trained personnel
- Necessary software & hardware

Result: “Best Practices” for natural resource
and land management & protection