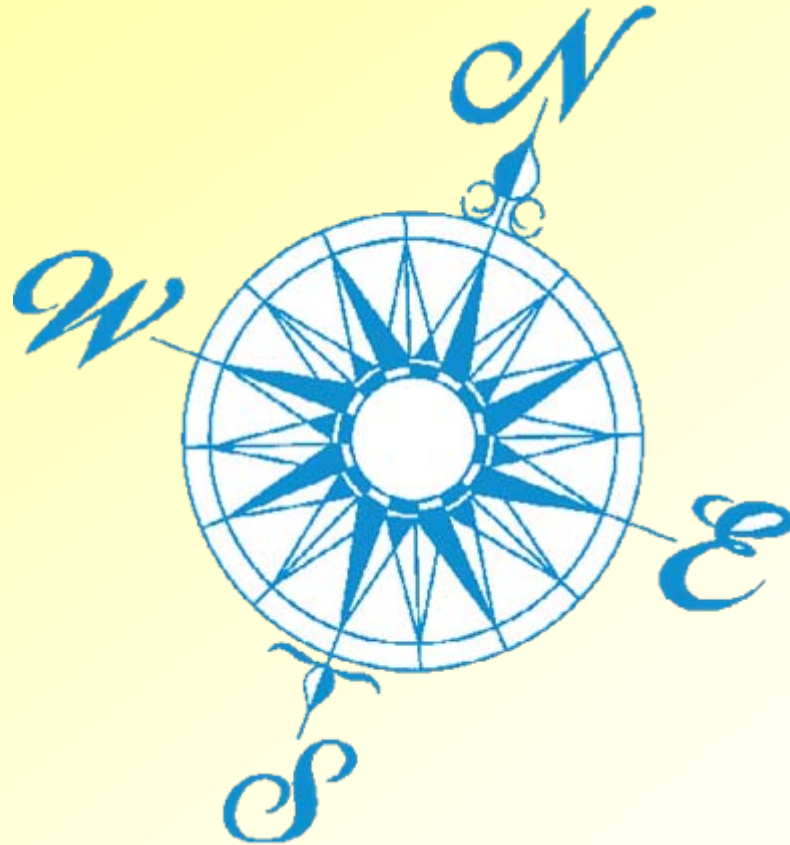


# **D2E GIS Coordination Initiative**

## ***Functional Transformation Kick-Off Meeting***

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**GIS Functional Transformation Kick-Off Meeting**

**May 13, 2008**

# D2E GIS Coordination Initiative

## *Functional Transformation Kick-Off Meeting*

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### OVERVIEW

- Welcome and Introductions  
(Brad Moore)  
(Gopal Khanna)  
(Dana Badgerow)
- Our Journey to Here  
(David Arbeit)
- Project Overview  
(Michael Turner)  
(Andy Buck)
- Dialog  
(All)



# D2E GIS Coordination Initiative

## *Functional Transformation Kick-Off Meeting*

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### Welcome and Introductions

Brad Moore  
Project Sponsor  
Commissioner  
MN Pollution Control Agency



Gopal Khanna  
Commissioner and State CIO  
Office of Enterprise Technology



Dana Badgerow  
Commissioner  
Department of Administration



# **D2E GIS Coordination Initiative**

## ***Functional Transformation Kick-Off Meeting***

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### ***Our Journey to Here***

***David Arbeit***

***Director***

***Office of Geographic & Demographic Analysis***

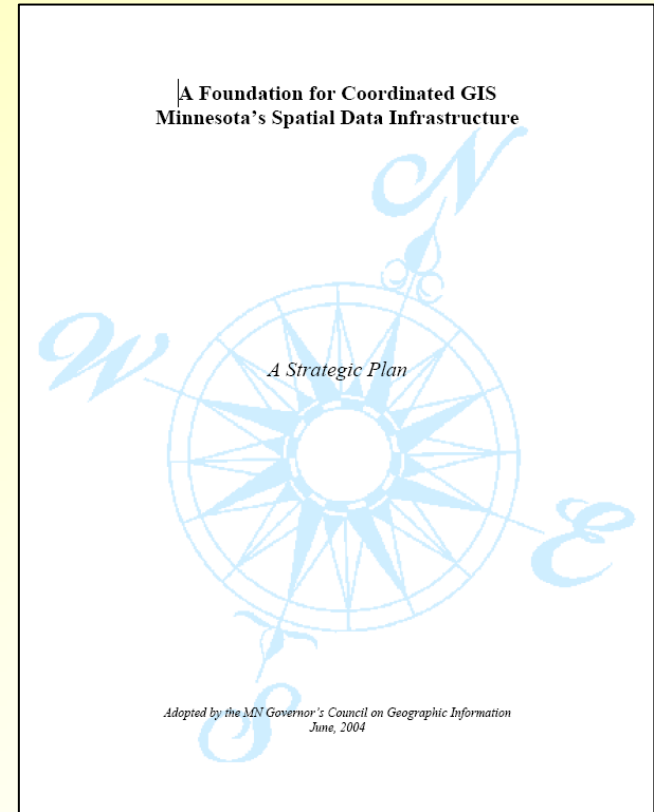


# D2E GIS Coordination Initiative

## *Our Journey to Here*

### 2004 Strategic Plan

*A Foundation for Coordinated GIS:  
Minnesota's Spatial Data  
Infrastructure*



# *A Foundation for Coordinated GIS Minnesota's Spatial Data Infrastructure*

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## Recommendations

- Explicit authority and responsibility for GIS coordination should be assigned to a state cabinet level agency.
- GIS implementation by state agencies should be coordinated with the state's IT architecture framework.
- GIS implementation by state, local and regional agencies should be coordinated with state and federal agencies.
- Emphasis should be placed on emerging opportunities for using GIS, joint projects and leveraging resources.

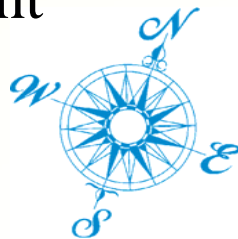


# ***A Foundation for Coordinated GIS Minnesota's Spatial Data Infrastructure***

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## **Roles & Responsibilities: Coordinating Organization**

- **Oversee statewide GIS infrastructure, including data plans.**
- **Monitor effectiveness of adopted policies and recommend actions.**
- **Coordinate state agency implementation of GIS within guidelines established for the state's IT architecture framework.**
- **Coordinate GIS initiatives to identify opportunities for joint projects and leveraging resources.**
- **Work with stakeholders to identify GIS needs and investment priorities and recommend initiatives.**



# ***A Foundation for Coordinated GIS Minnesota's Spatial Data Infrastructure***

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## **Roles & Responsibilities: Coordinating Organization**

- Identify new and emerging opportunities that improve the effectiveness of state programs through use of GIS.
- Advocate for Minnesota's GIS stakeholders to executive branch and legislature, federal agencies and other organizations.
- Serve as the state's liaison and representative to federal mapping agencies and national GIS organizations.
- Develop and maintain MN Geographic Data Clearinghouse services.





# D2E GIS Coordination Initiative

## Our Journey to Here

### National States Geographic Information Council

NSGIC's criteria for successful state coordination reinforced the recommendations in *A Foundation for Coordinated GIS*.



Special points of interest:

- The Fifty States Initiative offers a new "foundation" for the National Spatial Data Infrastructure (NSDI)
- A work group of Federal, State and Local government members created the action plan
- The initiative stresses the wise use of existing funding mechanisms
- In the absence of these recommended coordination criteria, government agencies will waste money and duplicate effort

March 6, 2006

NATIONAL STATES GEOGRAPHIC INFORMATION COUNCIL

FGDC Future Directions—Fifty States\* Initiative

\*Includes other equivalent entities such as the District of Columbia, Puerto Rico, and the Insular Areas

**FGDC and NSGIC Begin Implementing the Fifty States Initiative**

The Fifty States Initiative outlines a fundamental change in the way all governments should work together to build the National Spatial Data Infrastructure (NSDI). Instead of the current "build it and they will come" philosophy that relies on random grants and partnerships, a new program emphasizing strategic and business planning with specifically targeted implementation grants, performance measures and incentives will be employed.

This initiative is one of twelve planning activities that were begun as part of the Federal Geographic Data Committee's (FGDC) *Future Directions* strategic planning process. For further details on all of the Future Directions projects, see the FGDC web page at the URL listed below.

The Action Plan for the Fifty States Initiative was approved for implementation by the NSGIC Board of Directors and by the Federal Geographic Data Committee. It identifies

<http://www.fgdc.gov/policyandplanning/future-directions/index.html>

**NSGIC's Coordination Criteria**

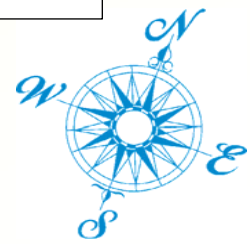
NSGIC published the following nine criteria that its members believe are essential for effective statewide coordination of geospatial information technologies.

- 1. A full-time, paid coordinator position is designated and has the authority to implement the state's business and strategic plans.**  
 Explanation: Many states have created one or more full time positions to oversee coordination of geospatial technologies. These individuals are responsible for implementing the state's business plan and are typically assigned to the Governor's Office, Chief Information Officer, Budget Department, or the Technology Office. In some states, these duties fall on a volunteer and in others, no one is willing to assume this role. Having a full-time paid individual in administrative and a significant portion of their energy is channeled into on-going statewide coordination council activities.
- 2. A clearly defined authority exists for statewide coordination of geospatial information technologies and data production.**  
 Explanation: A responsible individual or group has been designated in many states through executive orders, budget authorizations, or legislation. These individuals, or groups, are usually better

(Continued on page 2)

**Inside this issue:**

Coordination Criteria (cont'd)	2
New Strategic & Business Plan Templates Available	2
Required Characteristics	3
Measures of Success	3
Implementing the Vision	4
About NSGIC	4
Contact Information	4



# National States Geographic Information Council

## *Coordination Criteria*

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### Criteria for Success

- Clearly defined authority exists for statewide coordination of GIS geospatial information technologies and data production.
- A full time, paid coordinator position is designated and has the authority to implement the state's business and strategic plan.
- The Statewide coordination office has a formal relationship with the state's Chief Information Officer.
- A champion (political or executive decision maker) is aware and involved in the process of coordination.



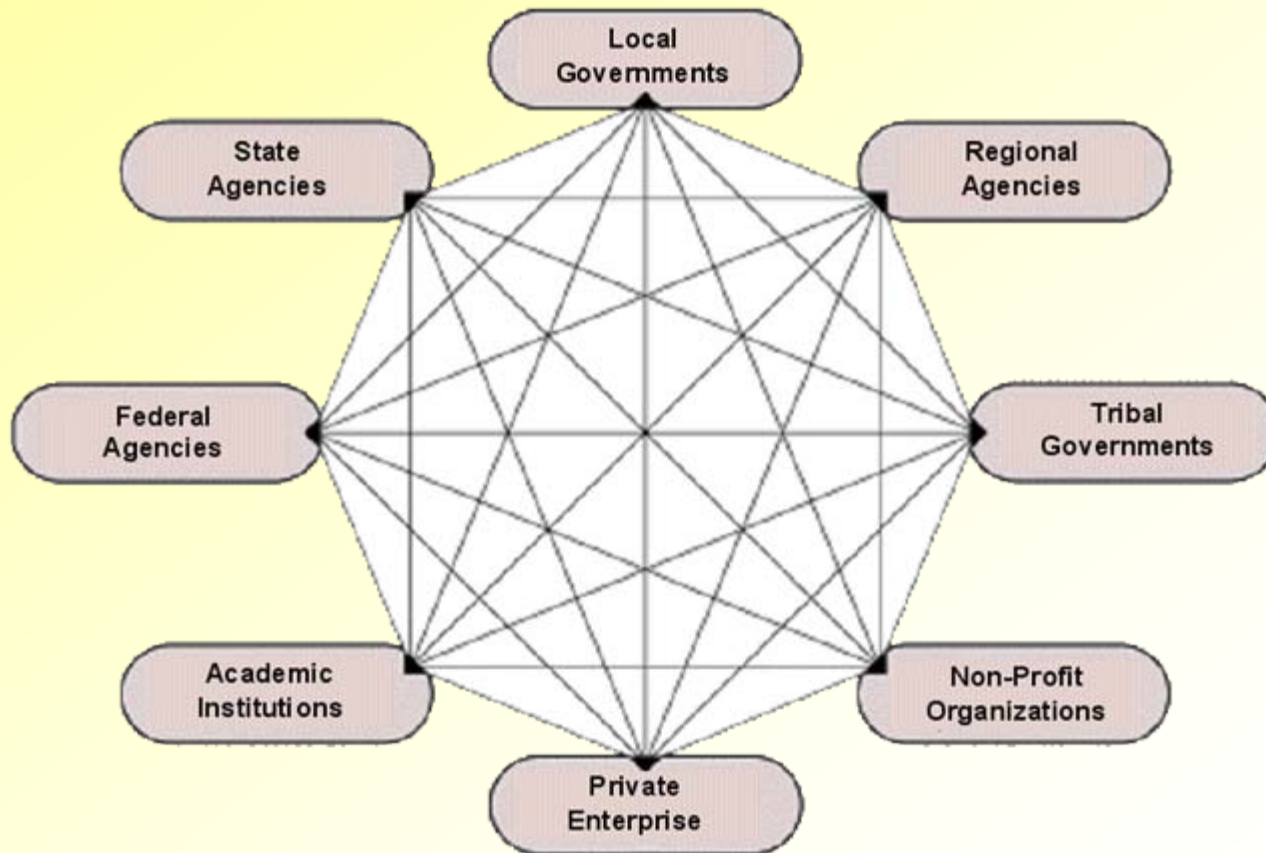
# D2E GIS Coordination Initiative

## *Our Journey to Here*

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### *Compass Points*

*Setting a Direction for Minnesota's GIS Future*



# Compass Points

## *Setting a Direction for Minnesota's GIS Future*

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### Purpose

Identify and develop strategies for achieving the vision of coordinated GIS within Minnesota.

- Organization of state government functions
- Relationships among agencies, their partners and customers
- Assignment of roles and responsibilities
- Strategies for securing and sustaining resources



# Compass Points

## *Setting a Direction for Minnesota's GIS Future*

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*Strategic Planning retreat held to confirm a vision for coordinated GIS and set a direction for achieving it.*

- Full day retreat held on June 25, 2007
- Attended by 54 invited participants
  - Legislators and legislative staff
  - Agency CIOs and GIS Coordinators
  - GI Council members
  - Local, regional, and federal representatives
  - Educators/researchers/non-profit representatives
  - Business
- Professionally facilitated



# Compass Points

## *Setting a Direction for Minnesota's GIS Future*

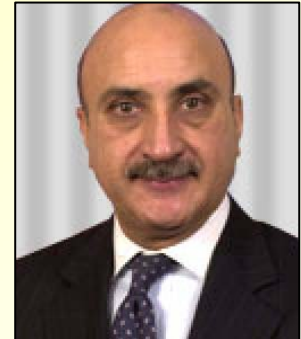
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### Executive Sponsors

Dana Badgerow

Commissioner

Department of Administration



Gopal Khanna

Commissioner and State CIO

Office of Enterprise Technology



# Compass Points

## *Setting a Direction for Minnesota's GIS Future*

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### Stakeholders

- State Agencies
- Governor's Council
- Met Council
- MetroGIS
- Counties
- Regional Agencies
- Municipalities
- Legislature
- Federal Agencies
- Academic institutions
- Utilities
- Professional Associations
- Non-profits
- School Districts
- Vendors
- Businesses



# Compass Points Planning Retreat

## *Setting a Direction for Minnesota's GIS Future*

### Facilitated Discussions – Large and Small Groups

- Achievements
- Setbacks
- Strengths
- Weaknesses
- Opportunities
- Threats
- Issues





# Compass Points

## *Setting a Direction for Minnesota's GIS Future*

### Coordination Service or Function

- Policy
- Priorities and Strategies
- Investments
- Standards and Architecture
- Communications
- Coordination
- Data Library
- Technology
- Tools
- Assistance
- Consulting



# Compass Points

## *Recommendations*

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### Vision Statement Should Focus on Minnesota

Revise the vision statement to reflect concerns raised at the retreat.

### GIS Coordination within State Government is Critical

Develop a strategy for State agency GIS coordination.

### Coordinated Strategies

The community – or at least the state agencies – needs to have coordinated funding priorities for discussion with the legislature well in advance of the next budget cycle.



# Compass Points

## *Mission Statement*

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*Minnesota improves services statewide through the coordinated, affordable, reliable, and effective use of GIS.*

Coordinated  
Coordinated  
Affordable  
Affordable  
Reliable  
Reliable  
Effective  
Effective

GIS



# Compass Points

## *Next Steps*

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### Focus on GIS Coordination for State Government

- Establish a Steering Committee
- Hire consultant to lead effort
- Analyze business functions to determine GIS needs
- Identify GIS functions that could be coordinated or centralized
- Develop organizational and operational recommendations
- Identify governance structure with active community involvement
- Present to Executive Sponsor(s) by fall of 2008



# The Excellence Report

Delivering effective, efficient, economical government



A monthly update on Minnesota's Drive to Excellence

February 2008

## Drive to Excellence Sub-Cabinet Launches Enterprise GIS Project

The Drive to Excellence Sub-Cabinet has launched the next Drive project, *Enterprise GIS* (Geographic Information Systems). So what is GIS?

A GIS is a computer-based system used to capture, manage, manipulate, analyze and output geographically referenced information. Today, as much as 80 percent of government information includes some geographic component, such as land and buildings, public utilities, roads and the distribution of public services.

Examples of how GIS can be applied to law enforcement and emergency services include tracking crime patterns or finding the fastest route to an emergency.

A GIS integrates data: information about a feature (a floodplain of land) represents and information at

*Enterprise GIS*  
Please see Page 3

## *Enterprise GIS: Geography as a Decision-Making Tool*

*Continued from the Front Page*

characteristics (elevation, street address or property ID number).

Different types of data can be mixed, matched and analyzed to reveal complex relationships between features. An example would be the location of all state-owned buildings with more than 2,000 square feet of vacant space located on a floodplain – where property insurance will be at a premium.

Using the right combination of accurate data, critical decision-making can be supported in ways not previously possible on such important issues as preparing for a pandemic, adjusting services to a changing population, redistricting legislative boundaries and maintaining critical infrastructure.

As Minnesota's use of GIS data and technology expands, no state agency is

currently assigned responsibility for coordinating investments in GIS.

The project's goal is to develop, recommend and implement an organizational and governance framework that would coordinate GIS as an "enterprise" activity of state government. Expected outcomes include a new GIS governance structure with responsibilities for setting policies, standards and priorities for enterprise GIS investments; serving as the state's point of contact for GIS; and a new shared technology infrastructure offering improved efficiencies, effectiveness, responsiveness and reliability for state agencies.

Brad Moore, Commissioner of the Minnesota Pollution Control Agency, is the project's Executive Sponsor, and David Arbeit, Director of the Office of Geographic and Demographic Analysis within the Department of Administration, is the project leader.



# D2E GIS Coordination Initiative

## *Steering Committee*

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### Team Leadership

Brad Moore, Sponsor  
Commissioner, Pollution Control Agency

### Team Members

David Arbeit, Department of Administration  
Michael Barnes, Department of Transportation  
Janet Cain, Department of Public Safety  
Margaret Kelly, Department of Health  
John Lally, Office of Enterprise Technology  
Fred Logman, Department of Administration  
Robert Maki, Department of Natural Resources  
Larry Palmer, Department of Agriculture  
Leo Raudys, Pollution Control Agency  
Dan Storkamp, Department of Corrections



# D2E GIS Coordination Initiative

## *Project Overview*

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### Objective

*Develop, recommend and implement a framework to coordinate GIS as an “enterprise” activity of state government.*

### Elements

#### **1. Organizational Transformation**

Focuses on organizational changes and governance framework to institutionalize capacity for coordination.

#### **2. Functional Transformation**

Focuses on technical aspects of providing GIS services needed to support the State functions and programs.



# D2E GIS Coordination Initiative

## *Project Overview*

---

### Objective

*Develop, recommend and implement a framework to coordinate GIS as an “enterprise” activity of state government.*

### Scope and Timing

- **Scope**  
*Focuses on State Government*
- **Time Frame**  
*Fast tracked to impact next budget/legislative cycle.*





# **D2E GIS Coordination Initiative**

## ***Functional Transformation Study***

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### ***Project Consultants***

***Applied Geographics***  
***Boston, MA***

***Michael Turner***



***Andy Buck***

