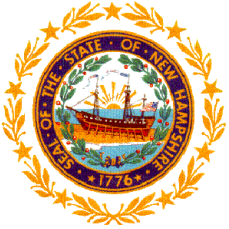# NH Geographic Information System
(GIS) Committee

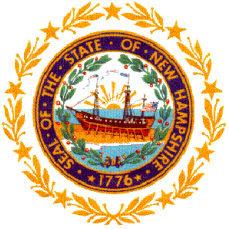## Established under HB377

HB 377 NH GIS Committee

Authorized under RSA 4-F

The committee shall:

- **Review** – the use, development, and coordination of geospatial data & resources by state agencies and municipal governments.

- **Consider** – the need for central coordination, storage, and distribution of such data & resources, and suggest appropriate responses

- **Advise** – on GIS needs at public & semi-public agencies; identify avenues where legislation may further efficiencies through enhanced cooperation.

GIS Technical Advisory Committee
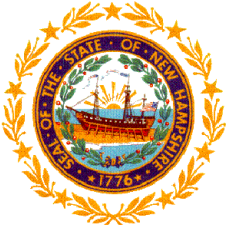
Gap Analysis

Outputs:

Identify gaps in practice and organization between:
- Guiding principles (future state) and
- Where the state is now (current state).

Outcomes:

Inform the GIS Committee on policy recommendations to the legislature that:
- Define future horizon 3-5 years.
- Identify level of effort and resources.
- Develop plan/matrix (based on working group of 4-5 people)
- Define actions that promote the benefits of supporting GIS collaboration.

Gap Analysis Working Group

- Catherine Callahan, NH DOIT/NH Fish and Game Department
- Glenn Davison, NH Department of Transportation
- Ken Gallager, NH Office of Energy and Planning
- Sean Goodwin, NH Department of Safety
- Hamilton McLean, NH Department of Environmental Services
- Fay Rubin, University of New Hampshire
- Tim Scott, NH Department of Safety
- Sara Siskavich, Nashua Regional Planning Commission
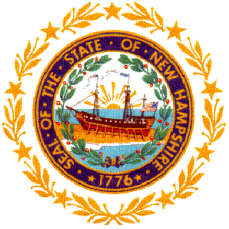
GIS Technical Advisory Committee
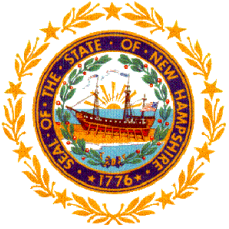
GAP Analysis Process

Documentation of Recent Strengths and Weaknesses, Opportunities and Challenges

Detailed Assessment of Progress since the GIS Strategic Plan (ca 2007)

Major strategic ideas were organized and analyzed into an Implementation Table, a matrix of

- ✓ Strategic Goals
- ✓ Potential Actions (with explanatory examples)
- ✓ Major Benefits
- ✓ Implementation Details
- ✓ Alignment with Committee's Guiding Principles

**Overarching Recommendation: GIS Action Plan Needed**

Overview of Strategies

Four high-level strategies proposed:

1. Related to requirements for consistent acquisition and management of foundational geospatial data elements
2. Related to requirements for promotion and distribution of geospatial assets, including data sets and technologies
3. Related to efficient utilization of geospatial assets
4. Related to policies regarding geospatial data access and utilization

All strategies address access to and use of New Hampshire's geospatial assets by all stakeholders, including federal, state, regional, municipal, tribal, academic, non-profit, and private sector users.
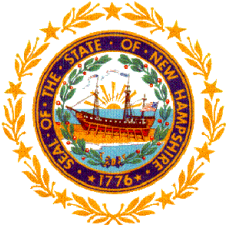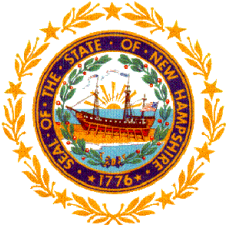
STRATEGY #1

Develop and maintain NH statewide base map and derivative data products

Objectives

A. (GTAC Level) Develop a plan for the regular acquisition, maintenance, and dissemination of statewide base map imagery and derivative data products. Plan to include:

- Needs assessment
- Technical specifications
- Funding model(s)

B. (GAC/Executive Level) Explore the feasibility of a New England-wide consortium to achieve cost efficiencies in the acquisition of orthophotography

STRATEGY #2

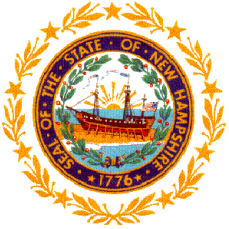## Designate an official state GIS clearinghouse for curated, public-facing GIS data

Objectives

A. Pursue a long-term contract with a state GIS clearinghouse to:
   i.   Store, manage, and provide access to enterprise geospatial data sets
   ii. Develop and promote task- and cost-appropriate tools to analyze and display data

B. Increase outreach to all stakeholders to promote awareness and use of enterprise geospatial data sets

Areas of further exploration:
- Common GIS presentation tools and platforms that exist through vendor agreements
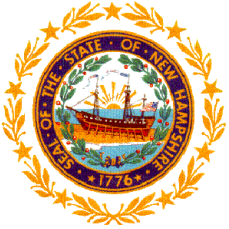- Training opportunities to take full advantage of these platforms

STRATEGY #3

Promote efficiencies in the use of GIS technologies in New Hampshire and the larger New England region

Objectives

A. Develop best practice guidelines for data collection, storage, and management
B. Identify software licensing and managerial solutions to support agency workflows
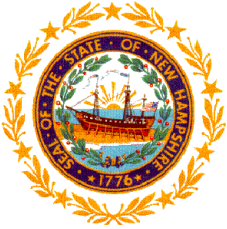C. Consider existing industry standards and apply when appropriate

STRATEGY #4

Enhance statewide GIS governance and policies to guide best practices

Objectives

A. Renew full GTAC committee charge and outreach plan
B. Document legal guidance on public records law as it pertains to GIS data, including essential requirements for management, retention, and distribution, as wel as specific exemptions.

Summary of Recommendations:
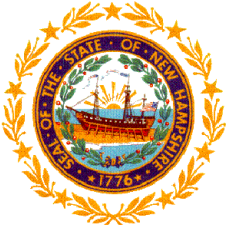# Two-Year GIS Action Plan

Outputs

1. A sequence of steps or activities that must be taken to support each Strategy with three major components:
   - Specific tasks & by whom
   - Time horizon
   - Capital & human resources needed

Recommended Actions

1. GIS Committee adopts GTAC recommendations and commits to identifying resources to support each of the Strategies
2. GIS Committee directs GTAC to achieve Strategy 1 first due to the budgetary timeline, broad support and need for these data sets, and the likelihood of successful completion
3. GIS Committee reports to Legislature as required on the Action Plan progress

Resource requirements

1. Assigned point of contact for overall coordination
2. GTAC working group or outside resources
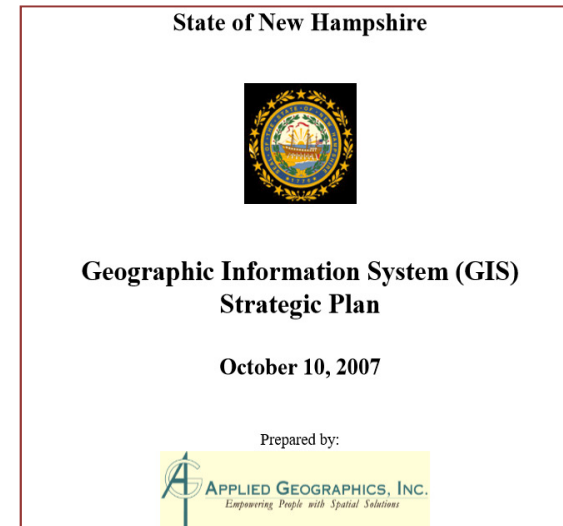3. Availability of agency staff resources or funding of outside resources

Questions ?

NH GIS Strategic Plan (2007)
https://www.nh.gov/oep/planning/services/gis/documents/strategic-plan.pdf

GIS Technical Advisory Committee
Gap Analysis
https://www.nh.gov/doit/gis-committee/index.htm

State of New Hampshire

Geographic Information System (GIS) Strategic Plan

October 10, 2007

Prepared by:

APPLIED GEOGRAPHICS, INC.
Empowering People with Spatial Solutions

GRANIT
http://granit.unh.edu/
http://granitviewii.unh.edu/
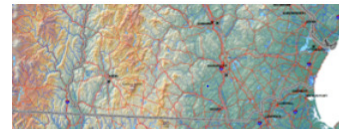
WELCOME *to* NH GRANIT
NEW HAMPSHIRE'S STATEWIDE GIS CLEARINGHOUSE

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DATA>	Data 101	Download Free Data	Order Data	Online Maps & Services	Map Library

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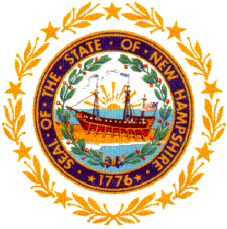
GIS Technical Advisory Committee

Recommendation

The GTAC proposes that a formal subcommittee of the GTAC be established to prepare a two-year Action Plan.
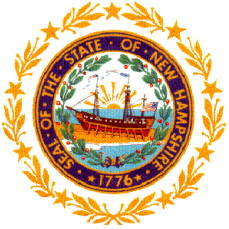
Outputs

A sequence of steps that must be taken, or activities that must be performed effectively, for a strategy to succeed. Three major component areas:

- Specific tasks that will be completed and by whom
- Time horizon when tasks will be completed
- Capital and human resources needed for specific activities to be completed

Required Action

GIS Committee adopts GTAC recommendations and commits to identifying resources to support the Strategies listed.
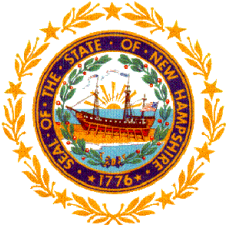
Overview of Strategies

Four high-level strategies proposed:

1. Related to requirements for consistent acquisition and management of foundational geospatial data elements
2. Related to requirements for promotion and distribution of geospatial assets, including data sets, technologies, and methodologies
3. Related to efficient utilization of geospatial assets
4. Related to policies regarding GIS data access and utilization

Strategies focus on access and use of NH geospatial assets by all stakeholders – federal, state, regional, municipal, tribal, academic, and private.
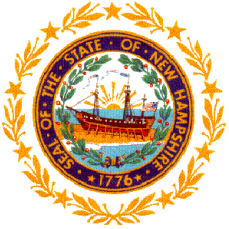
STRATEGY #1

Develop and maintain NH statewide base map and derivative data products

Objective

A. Develop a plan for the acquisition, maintenance, and dissemination of statewide base map imagery and derivative data products. Plan to address:

- Needs Assessments
    - State, Regional, and Local agencies
    - Private stakeholders
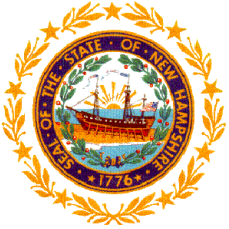- Technical specifications
- Funding model(s)

STRATEGY #2

Designate an official state GIS clearinghouse for curated, public-facing GIS data

Objectives

A. Identify the best solution for a state GIS clearinghouse to promote common awareness of and access to enterprise GIS data sets
B. Research and promote task- and cost-appropriate analytical tools
C. Increase outreach to state, regional, and local governments and private stakeholders

Areas of further exploration:
- Common GIS presentation tools and platforms that exist through vendor agreements
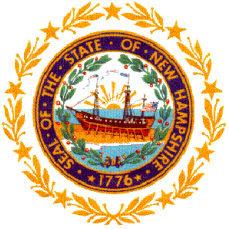- Training opportunities to take full advantage of these platforms

STRATEGY #3

Promote efficiencies in the use of GIS technologies among state agencies

Objectives

A. Develop best practice guidelines for data collection, storage, and management
B. Identify software licensing and managerial solutions to support agency workflows
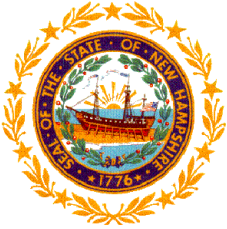C. Consider existing industry standards and apply when appropriate

STRATEGY #4

Enhance statewide GIS governance and policies to guide best practices

Objectives

A. Renew GTAC charge and outreach plan
B. Document legal guidance on public records law as it pertains to GIS data, including essential requirements and specific exemptions.

Summary of Recommendations:
Two-Year GIS Action Plan

Outputs

1. A sequence of steps or activities that must be taken to support each Strategy with three major components:
   - Specific tasks & by whom
   - Time horizon
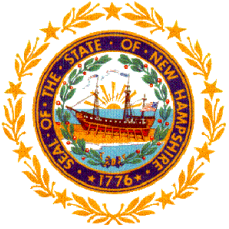   - Capital & human resources needed

Recommended Actions

1. GIS Committee adopts GTAC recommendations and commits to identifying resources to support each of the Strategies
2. GIS Committee directs GTAC to achieve Strategy 1 first due to the budgetary timeline, broad support and need for these data sets, and the likelihood of successful completion
3. GIS Committee reports to Legislature as required on the Action Plan progress

Resource requirements

1. Assigned point of contact for overall coordination
2. GTAC working group or outside resources
3. Availability of agency staff resources or funding of outside resources

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GIS Technical Advisory Committee

Recommendation

The GTAC proposes that a formal subcommittee of the GTAC be established to prepare a two-year Action Plan

Outputs
- A sequence of steps that must be taken, or activities that must be performed effectively, for a strategy to succeed
- Three major components:
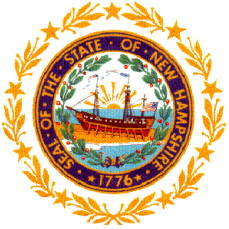 - Specific tasks that will be completed and by whom
  - Time horizon when things will be completed
  - Capital and human resources needed for specific activities to be completed

Required outcomes
- GIS Committee agreement to review, amend and adopt the action plan
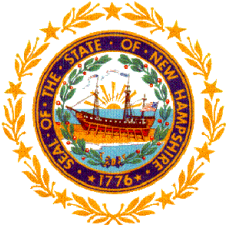- Commitment to seek required resources to implement the action plan

STRATEGY #1

Develop and maintain NH statewide base map and derivative data products

Objectives –

1. Develop a statewide data acquisition plan for updates to base map

2. Recommend a formalized protocol for data collection and aggregation

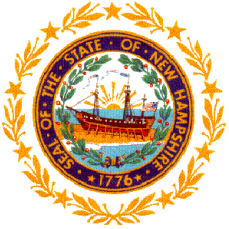3. Implement a common way to locate geospatial features of interest

STRATEGY #2

Designate an official state GIS clearinghouse for curated, public-facing GIS data.

Objectives –

1. Promote common awareness of & accessibility to enterprise GIS data sets

2. Research & promote task & cost-appropriate analytical tools

3. Provide common GIS presentation tools & platform

4. Increase outreach to state, regional, local governments & private stakeholders
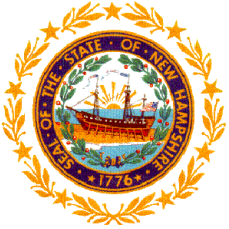
STRATEGY #3

GIS technology is available to all state agencies

Objectives –

1. Develop best practice guidelines for data collection, storage, & management

2. Identify software & managerial solutions

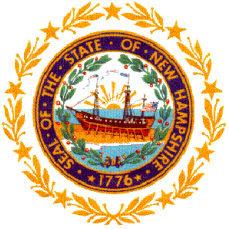3. Consider existing industry standards and apply when possible

STRATEGY #4

Enhance statewide GIS governance and policies to guide best practices

Objectives –

1. Renew GTAC charge and outreach plan

2. Elucidate uniform legal guidance with respect to GIS and NH public records law

Summary of Recommendations: Two-Year GIS Action Plan

Outputs

1. A sequence of steps or activities that must be taken for each objective to support respective strategy.
2. Three major components:
   - Specific tasks & by whom
   - Time horizon
   - Capital & human resources needed

Required outcomes

1. GIS Committee review, amend & adopt
2. Identify available resources to implement
3. Report to Legislature

Resource requirements

1. Assigned point of contact for overall coordination
2. GTAC working group or outside resources
3. Availability of agency staff resources or funding of outside resources