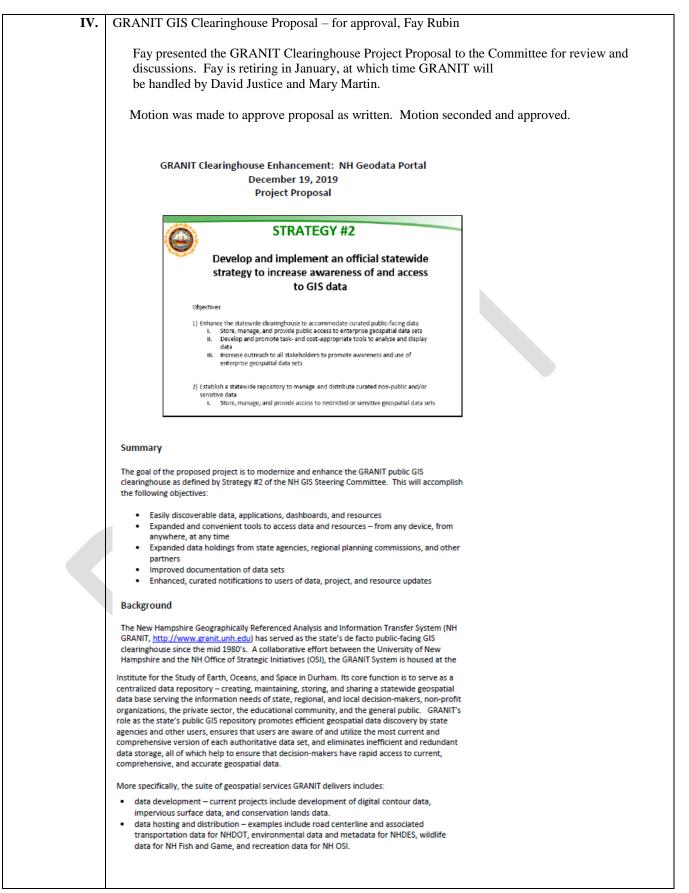
GIS MEETING MINUTES							
State of New Hampshire DEPARTMENT OF INFORMATION TECHNOLOGY							
INFORMATION							
DATE:	12/19/2019	START TIME:	2:00PM	END TIME:	3:30PM	LOCATION:	DoIT, 27 Hazen Drive, Room 148
SUBJECT/ PROJECT:	GIS Committee Meeting						
PURPOSE:	Scheduled N	Meeting					
FACILITATOR:	Denis Goule	et, CIO					
COMMITTEE MEMBERS:	<ol> <li>Agric</li> <li>DOE</li> <li>Office</li> <li>Office</li> <li>DES</li> <li>Fish &amp;</li> <li>TooIT</li> <li>Dept.</li> <li>DOT</li> <li>The di (GRA)</li> <li>A mur</li> <li>A repr</li> <li>A repr</li> <li>DOC</li> <li>DOC</li> <li>DHH</li> <li>DRA</li> </ol>	ant Genera ulture, Foo – alternate e of Strateg - alternate & Game – I – Commis of Natura – Commiss rector of U NIT) syste nicipal GIS Fash Faras esentative Jay Minka – Linda Sc of Natural S – David	d & Marka , Amy Cla gic Initiativ Ham McL Katie Calla sioner Der l and Cultu sioner Vict NH's geog m, or desig manager, hahi, sittin from the N urah, Execu ocha and Cultu Wieters erry, Direc	ets – Dave rk ves – Kenn ean han his Goulet ural Resou toria Sheel graphically gnee – Fay appointed ag in for Sa VH Associa tive Direct ral Resour	Rousseau eth Gallag rces – Jona nan, altern reference Rubin, D by the NH ation of Re ation of Re ctor ces – Tany nicipal & J	ger athan Horton ate Glenn Davis d analysis and i avid Justice and I Municipal Ass vich egional Planning ya Krajcik Property Divisio	nformation transfer l Mary Martin sociation – g Commissions –
ABSENT:							
ITEM #	Walaama	DoIT Com	missioner		INUTES		
I.	Welcome – DoIT Commissioner Denis Goulet, committee chair New member was introduced: Director James Gerry, Representing the Department of Revenue Administration.						

II.								
	motion seconded and minutes approved. No abstentions. Motion passed.							
III.	Charter and membership of the Advisory Committee – Ken Gallager							
111.	Charter and memoership of the Advisory Committee – Ken Ganager							
	Ken has been designated Chairman of the GIS Technical Users Group. Reviewed Draft GIS Advisory Committee Charter with Committee. Motion was made to accept charter as written. Motion seconded and approved. Cindy will prepare final document for Commissioner Goulet's approval.							
	State of New Hampshire							
	GIS Advisory Committee Charter							
	Draft: 10/24/2019							
	Authority							
	The NH GIS Advisory Committee derives authority from the NH Geographic Information System Committee established under RSA 4-F (2016).							
	Purpose To serve as the liaison between the legislatively created standing NH Geographic Information System. Committee, identified herein as the NH GIS Steering Committee, and the larger GIS user group, identified herein as the NH GIS Technical User Group, in order to facilitate GIS collaboration among, state, regional, and local organizations as well as the broader GIS community, identified herein as the NH GIS Community, and to coordinate GIS projects as may be directed or requested by the NH GIS. Steering Committee.							
	Responsibilities In accordance with the strategies identified in the NH GIS Action Plan as adopted by the NH GIS Steering Committee:							
	<ol> <li>Provide recommendations to the NH GIS Steering Committee for the development, use, and coordination of geospatial data and resources by the GIS Community.</li> </ol>							
	<ol> <li>Provide recommendations to the NH GIS Steering Committee for the development and management of statewide clearinghouse to support centralized storage, access, and sharing of GIS data and resources.</li> </ol>							
	<ol> <li>Advise the NH GIS Steering Committee on geospatial needs of public and semi-public agencies; identify avenues where legislation may further efficiencies through enhanced cooperation.</li> </ol>							
	<ol> <li>Research, facilitate and execute projects and tasks as requested by the NH GIS Steering Committee subject to resource availability.</li> </ol>							
	<ol> <li>Deliverables</li> <li>Input to the NH GIS Steering Committee's annual report of development and coordination of geospatial data &amp; resources by the NH GIS Community.</li> </ol>							
	<ol> <li>Recommendations for updates to and prioritization of the NH GIS Steering Committee's NH GIS Strategies.</li> <li>Coordinated review of federal grant opportunities that support significant data or technology</li> </ol>							
	procurement.							

<u>Meetings</u> The NH GIS Advisory Committee will meet at least quarterly and in advance of scheduled NH GIS Steering Committee meetings. A simple majority of named members will constitute a quorum. The Committee shall take action by vote of a simple majority of members present and constituting a quorum. For motions on official Committee recommendations to carry, a simple majority of named members must vote in the affirmative.
<u>NH GIS Advisory Committee Chairperson</u> The <u>Chairperson. Vice Chairperson</u> , and <u>Secretary will be nominated by the NH GIS Advisory Committee</u> each year. The responsibilities of the Chairperson include, but are not limited to:
<ol> <li>Facilitate the development of deliverables, subject to available resources.</li> <li>Keep the NH GIS Community informed of important decisions, needs and directions.</li> <li>Coordinate agenda items, times, and locations for Committee meetings.</li> <li>In the event that the Chairperson is not available for an extended perjod of time, the responsibilities</li> </ol>
become those of the Vice Chairperson. <u>Standing Members</u> The Advisory Committee will consist of 9 regular members <sup>1</sup> , as follows:
<ul> <li>University of New Hampshire/GRANIT</li> <li>NH Office of Strategic Initiatives (OSI)</li> <li>NH Department of Transportation (NHDOT)</li> <li>NH Department of Environmental Services (NHDES)</li> <li>NH Department of Safety (NHDOS)</li> <li>NH Fish &amp; Game (NHF&amp;G)</li> <li>NH Regional Planning Commission Representative (RPC)</li> <li>2 seats reserved for members at large</li> <li><sup>4</sup>Members as of December 2019: Fay Rubin (GRANIT Director, University of New Hampshire), Ken Gallager (Principal Planner, OSI), Glenn Davison (Data and Systems Manager, NHDOT), Hamilton McLean (Project Manager and Innovation Administrator, NHDES), Sean Goodwin (GIS Administrator, NHDOS), Catherine Callahan (GIS Specialist, NHF&amp;G), Sara Siskavich (GIS Manager, Nashua RPC), Sheena Connolly (Emergency Preparedness, Eversource), remainder (1) to be named.</li> </ul>
Denis Goulet, Chair, NH GIS Steering Committee Date Commissioner



- data synthesis current efforts include mapping to support investment in broadband access and working with coastal communities to understand areas vulnerable to flooding and other hazards.
- online data services frequently-requested data sets are available for state agency and
  public viewing and querying through GRANITView (<a href="http://granitview.unh.edu">http://granitview.unh.edu</a>) and the
  NH Coastal Viewer (<a href="http://nhcoastalviewer.unh.edu">http://granitview.unh.edu</a>) and the
  NH Coastal Viewer (<a href="http://nhcoastalviewer.unh.edu">http://nhcoastalviewer.unh.edu</a>). In addition, GRANIT hosts a
  number of online image viewing services that make large data catalogs available to
  users at no cost. Current quarterly usage statistics indicate that these services are
  accessed in excess of 8,000 times/day. Finally, GRANIT participates in an international
  catalog of hosted geospatial data sets via our registration of data with ArcGIS Online,
  thereby providing another mechanism for making data publically available.
- training and technical support GRANIT staff deliver, participate in, and/or sponsor training opportunities as requested.

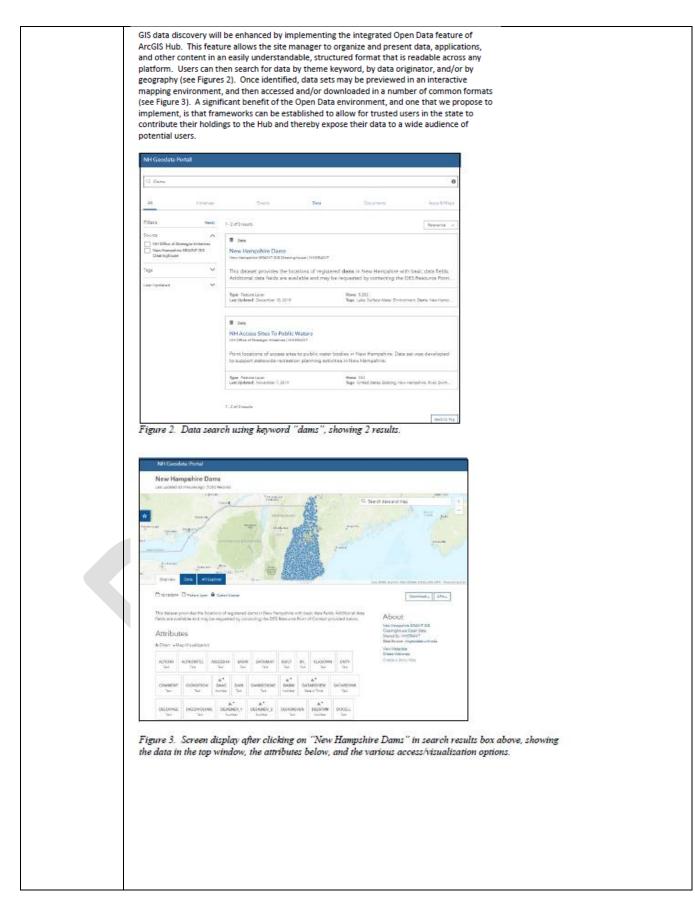
In addition, GRANIT staff are active in a broad range of coordination activities in the state, including participation in state coordination committees (NH GIS Steering Committee, NH GIS Advisory Committee, and NH GIS Technical User Group) and serving on various project advisory committees. Staff also assist in regular data procurement initiatives, most recently assisting in the acquisition of statewide aerial photography and statewide LIDAR topographic imagery.

While the GRANIT website and data distribution system successfully delivers data and services to a broad constituency of users, it was developed a number of years ago and does not take advantage of newer technologies that enhance data discovery and access, and offer a range of associated benefits to its constituents. Thus, in accordance with Strategy #2 of the NH GIS Steering Committee, this proposal seeks funding resources to modernize the GRANIT clearinghouse and construct the NH Geodata Portal to meet the needs of the current and growing constituency of geospatial data users in New Hampshire.

## Proposed Project

The goal of the proposed 2-year project is to modernize and enhance the GRANIT GIS clearinghouse through the implementation of esri's ArcGIS Hub technology and the development and population of the NH Geodata Portal. ArcGIS Hub is a cloud-based environment that fosters the discovery and sharing of geospatial assets to the GIS community, including data, web applications, initiatives, and events. Specifically, ArcGIS Hub will be used to deploy a new GRANIT web site which will describe GRANIT's resources as well as those of its partner agencies, list current events, promote data standards, and, most importantly, provide a convenient and comprehensive mechanism for users to discover and access spatial data and resources across agencies and organizations in NH (see Figure 1).





In addition, the Hub technology can serve as a site for collaborations among communities of users, provide quick links to targeted web apps and/or data sets, serve as a means to inform the general public about progress on a particular project or task, and deliver feedback to and from a trusted community of users who choose to follow or participate in an initiative. For example, an ArcGIS Hub initiative could be launched to allow the GIS community as well as the general public to monitor the progress of the upcoming 2020 statewide aerial photo acquisition project in NH. In a second example, the NH Stonewall Mapper is a collaborative effort between NH GRANIT, NHDES, and a network of volunteers with the goal of mapping stonewalls throughout the state. An ArcGIS Online web app is currently used by the public to map the stonewalls using LiDARbased hillshades as the primary data source. One of the challenges of the present effort is a convenient means to verify and curate the data. An ArcGIS Hub initiative offers a mechanism to provide controlled access to the data for review and verification by users who are chosen to curate the data. Through the use of dashboards, web pages, and story maps, the initiative would be a convenient way to promote the effort and provide followers with constant updates. We expect that the Hub will provide a platform that promotes the use of authoritative GIS data and generates dynamic interaction among GIS users throughout the state. To foster this collaborative environment, we propose working with the major state agency GIS users to identify, document and promote their data holdings that are likely of broad interest to the GIS community. We also intend to approach smaller state agencies to assist them in exposing their valuable data assets through the new site.

This proposed effort will include promoting geospatial resources developed by the nine regional planning commissions (RPCs) to demonstrate the multi-jurisdictional nature of the Hub. This component will reinforce the value of a modern portal to promote the sharing, distribution, and responsible use of resources that exist from the State's investment in GIS, as well as extend the breadth of content beyond state agency-originated resources. The New Hampshire RPCs have a long history of GIS practice dating back to the 1980s, and geospatial data, maps, and spatial analysis are now ubiquitous in NH regional planning. RPC work products frequently use NH state imagery, its derivatives, and other NH state agency data and are therefore particularly advantageous to highlight within the NH Geodata Portal.

The specific activities we propose undertaking are presented below. All activities will be reviewed and prioritized with the NH GIS Advisory Committee at regular meetings (likely quarterly) convened by the Advisory Committee chairperson. GRANIT staff will deliver an update on the status of the project at each meeting and will look to the Committee to provide important strategic direction and assistance throughout the proposed 2-year effort.

## Work Plan

Developing and populating the NH Geodata Portal public-facing site will be accomplished primarily by staff affiliated with NH GRANIT at UNH. GRANIT will work in close coordination with state agency partners (current and new) as well as regional planning commission staff to identify and prepare data sets appropriate for inclusion in the public portal. Specific GRANIT activities over the proposed 2-year project include:

- a) Update content of GRANIT website and migrate to NH Geodata Portal environment o Develop look/feel. implement style(s)
  - Review/update content of current web pages, migrate to new environment and maintain
  - Add new elements to NH Geodata portal current agency initiatives, agency apps
  - Populate OpenData database with current holdings estimated 160 layers and maintain
    - Review/update metadata
    - Convert metadata to ESRI format as required
    - Create map document for each layer, stylize, publish service
    - -----, <u>--</u>, ------
  - o Implement and maintain geodetic control database lookup functionality
  - Develop and maintain customized tools to facilitate access to data
     Image subsetting tool
  - Establish data sharing framework and guidelines for participating organizations in coordination with the Advisory Committee
  - o Create mechanism/interface for streamlining submission of data

<ul> <li>Participate in regular (quarterly) meetings         <ul> <li>Prepare status materials for Advisory Committee and Steering Committee</li> <li>Conduct outreach and coordination with state agencies</li> <li>Update/promote metadata standards</li> <li>Work with partners to expose/share data based on guidelines</li> <li>Identify new agencies/organizations with data holdings of broad interest; explore data sets and identify those suitable for sharing</li> <li>Work with new agencies/organizations to document and share data</li> <li>Work with partners to promote "initiatives" that are underway, including establishing new site(s) with user-contributed data</li> <li>Inventory existing maps, apps, and other regional authoritative ArcGIS Online content using ESRI Hub</li> <li>Organize content using standardized tags and other NH Geodata portal best practices</li> <li>Highlight the use of NH Geoportal resources by supporting the development of new ArcGIS online resources by regional stakeholders</li> </ul> </li> <li>*This work will be accomplished via a single subcontract between UNH/GRANIT and Nashua RPC, with Nashua RPC executing and coordinating sub-agreements with their 8 RPC counterparts in New Hampshire.</li> <li>Budget (draft)</li> <li>The proposed budget for the 2-year effort is provided below.</li> <li>Travel - 4x/month to Concord \$1,949 \$19,449 \$29,668 \$73,699</li> <li>Travel - 4x/month to Concord \$1,949 \$1,949 \$3,800</li> <li>Supplies (software licenses) \$1,500 \$1,500 \$3,000</li> <li>Subpointer Use \$2,000 \$2,000 \$3,000 \$3,000</li> <li>Supplies (software licenses) \$1,500 \$1,500 \$3,000</li> <li>Subcontract - Nashua RPC \$40,000 \$18,000 \$36,000</li> <li>Supplies (software licenses) \$1,172 \$335,564 \$96,730</li> <li>Total \$249,956 \$154,601 \$400,557.</li> </ul>
<ul> <li>c) Conduct outreach and coordination with state agencies         <ul> <li>Update/promote metadata standards</li> <li>Work with partners to prioritize and document existing data using standard templates</li> <li>Work with partners to expose/share data based on guidelines</li> <li>Identify new agencies/organizations with data holdings of broad interest; explore data sets and identify those suitable for sharing</li> <li>Work with new agencies/organizations to document and share data</li> <li>Work with partners to promote "initiatives" that are underway, including establishing new site(s) with user-contributed data</li> <li>Integrate the NH Geodata portal with regional GIS resources *</li> <li>Inventory existing maps, apps, and other regional authoritative ArcGIS Online content using ESRI Hub</li> <li>Organize content using standardized tags and other NH Geodata portal best practices</li> <li>Highlight the use of NH Geoportal resources by supporting the development of new ArcGIS online resources by regional stakeholders</li> <li>*This work will be accomplished via a single subcontract between UNH/GRANIT and Nashua RPC, with Nashua RPC executing and coordinating sub-agreements with their 8 RPC counterparts in New Hampshire.</li> </ul> </li> <li>Budget (draft)</li> <li>The proposed budget for the 2-year effort is provided below.</li> <li>Xinge/FICA \$44,034 \$23,665 \$73,699</li> <li>Travel - 4x/month to Concord \$1,349 \$1,349 \$3,898</li> <li>Computer Use \$2,000 \$4,000</li> <li>Supplies (software licenses) \$1,500 \$1,500 \$3,000</li> <li>Subcontract - Nashua RPC \$40,000 \$18,000 \$58,000</li> <li>Total Direct \$188,785 \$119,036 \$307,821</li> <li>Facilities &amp; Administrative Charges \$61,172 \$35,564 \$96,736</li> </ul>
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Total \$249,956 \$154,601 \$404,557
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The proposed budget includes 62 weeks of staff time in year 1 (project director for 10 weeks, 2 GIS analysts for 26 weeks each), and 40 weeks of staff time in year 2 (project director for 8 weeks, 2 GIS analysts for 16 weeks each). Additional components of the budget include weekly travel to Concord, a modest allocation for computer use, support for annual software licensing costs (Geocortex), and the subcontract with the Nashua Regional Planning Commission.

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V.	Update on the DOT/DES Agency Map Viewer pilot project, Glenn Davison					
	Glenn discussed the status of the Joint Agenc project is behind schedule due to DOT's othe period. Now that DOT's 10-year plan is com	r commitments through the project				
VI.	Follow-up on aerial imagery, Glenn Davison					
	Glenn reported that there is enough funding to move forward with the 2020 high res orthophotography collection. This will commence in spring given agreeable conditions. There is about a 3 week window of opportunity between snow-melt and leaf-out.					
VII.	<ul> <li>2020 GIS Goals for Steering Committee and a</li> <li>GIS Goals for 2020/2021 <ul> <li>Continue and deliver on existing p</li> <li>Deliver on GIS Clearinghouse in p</li> <li>Budget planning for 2020-2023</li> <li>Develop a more sustainable mode</li> <li>* Study feasibility of GRANIT c</li> <li>Manage the delivery of updated in p</li> </ul> </li> </ul>	rojects partnership with GRANIT l for GRANIT funding ontract rationalization				
VII.	Motion to Adjourn					
	ACTION ITEM(S)					
ITEM #	DESCRIPTION	ASSIGNED TO DUE DATE				
	TBD					