				Meeting	<u>y</u> Sumr	narv			
				State of N	ew Hampshi	re			
				INFO	RMATION	N			
	DATE:	11/16/2017	START TIME:	1:00 pm	END TIME	2:30 pm	LOCATION:	NH National Guard Regional Training Institute (RTI), 722 Riverwood Drive, Pembroke, NH RM 221	
	BJECT/ OJECT:	GIS Committee Meeting							
	RPOSE:	Scheduled Meeting							
FACILITATOR:		Denis Goulet, CIO							
Absentee	tendees: s:	<ol> <li>Agricu</li> <li>Dept. c</li> <li>DOE –</li> <li>Energy</li> <li>DES –</li> <li>Fish &amp;</li> <li>DHHS</li> <li>DoIT –</li> <li>DoIT –</li> <li>DoPt. c</li> <li>DOT –</li> <li>The dira</li> <li>system</li> <li>A repre</li> <li>Linda So</li> <li>Stephan</li> </ol>	nt General - lture, Food of Natural a Gretchen T and Planni Hamilton I Game – Ka – CIO Don - Commission of Natural a Commission ector of UN a, or designed sentative fr Docha-DO Hamilton-I at Commission	& Markets – nd Cultural R Fetreault and I ng – Kenneth McLean atie Callahan una O'Leary oner Denis Go and Cultural F oner Victoria [H's geograph ee – Fay Rubi om the NH A	Robert Wo esources – Ryan Petra Gallager oulet Resources – Sheehan an ically refer n ssociation Bailey- D	olff Tanya Krajci in - Jonathan Ho nd Glenn Dav renced analys of Regional F	orton vison is and information	transfer (GRANIT) ons – Sara Siskavich	
ITEM #	W7.1	AGENDA e – DoIT Commissioner Denis Goulet, committee chair							
I.	welcom	e – Doff Com	missioner L	enis Goulet,	committee	chair			
II.		o accept minut		-					
III.	Imagery	Acquisition Co	onsideration	ıs – Sean Goo	odwin				
IV.		Acquisition Pl	-						
V.		ex Proposal – ]		IcLean					
VI.	Clearing	g House Planni	ng - All						
VII.	Motion t	o Adjourn							

ITEM #	MINUTES						
II EM #	Welcome – DoIT Commissioner Denis Goulet, committee chair						
II.							
	• Motion to approve the minutes of the August 24, 2017 meeting, seconded and approved by all.						
III.	Imagery Acquisition Considerations – Sean Goodwin, E-911 presented the following slides						
	The goal is to move towards developing a common imagery acquisition plan to benefit all stakeholder imagery users to improve and/or enhance agency operations. There are many agencies at the State, Regional and local level that are currently using imagery in one form or the other.						
	6 inch resolution provides for much more detail than the current 1 foot resolution statewide holding. Local urban areas are recommending 3 inch resolution imagery for more densely populated areas. There are software vendors who provide imagery analytical tools to enhance the operational value of a consistent statewide imagery acquisition plan. They further support additional derivative imagery products to evaluate and identify change over time across needs and subject areas which include hi resolution LIDAR. There needs to be a discussion on the distribution of imagery particularly to the regional and local stakeholders. The GTAC has been provided a imagery needs survey developed by Fay Rubin to capture a broad range of imagery usage and operational needs in order to propose specifications to meet all stakeholder requirements. A plan to hold imagery workshops is in process with the GTAC and other potential imagery users.						
	model. We will reach out to them and find out what their needs are.						

# **Appointed Stakeholders**

- Adjutant General
- Agriculture
- DRED • DRA

• DOIT

- Corrections Cultural Resources
   DOS
   Fducation
   DOT
- Granit
  - Municipality
- F&G
- DHHS

• OEP

• DES

# Adjutant General

- Mission Planning and Response
- Wildfire Response
- Safety and Security Planning-Readiness Centers



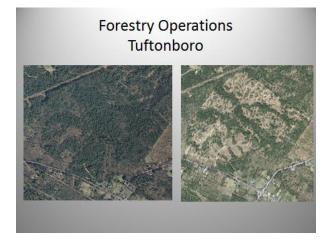






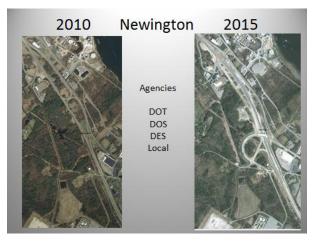
### DHHS

- Change in vector born disease habitat
   Mosquitoes
- Tick
- Shelter locations in Flood Plain/Hazard Areas
- Coastal rise behind Hampton sea wall
- Other derivative products



# Forestry Operations Interested Parties

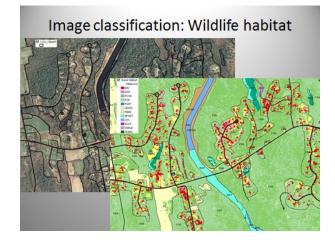
- DRA/Municipalities
  - Timber Tax Collection
- Forest Lands
  - Safe and lawful forestry operations
- Environmental Services
  - Alteration of Terrain
  - Wetlands
- DOS/HSEM
  - Storm related disaster assistance





### Comparative Statistics Possible using NH Parcel, Consistent Imagery and software

- · Percent parcels with change
- Identify parcels with probable change
- Assessment changes
  - added a deck, pool, barn etc.
- Spectral change-forest
- Environmental Change
- Manmade vs Environmental Change
- Filter on paved surface change by community
- Algae Blooms
- Leaf on collections required



### **Collective Benefits**

- Regular High resolution imagery collection enables State, Regional and Local agencies to achieve their missions with greater detail and operational efficiencies
- Reduces the need for field visitations with highly accurate and expensive GPS equipment as well as back office processing time
- Provides a common operating base layer to assist inter agency location data standardization of other base map layers
- Shorelines, Footprints, Utility Right of Ways etc.
- · Serves as a historical record of ground conditions

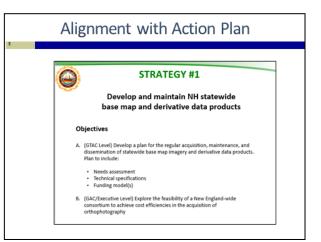
## Draft Standards

- Resolution-6 inch, minimum
- Leaf off
- 4 band, Orthorectified
- Frequency-Biennial acquisition
- Distribution plan for State, Regional, Local Agencies
- Upcoming work sessions
- !Please complete and return the survey sent out by Fay Rubin on Imagery Needs!

# Funding?

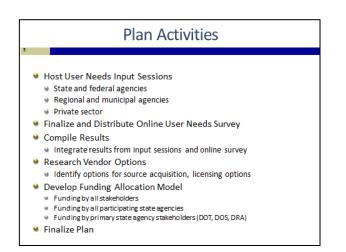
- The Legislatively formed Geographic Committee will be reviewing appropriate continuing funding mechanisms under the leadership of Commissioner Goulet, Chair of the Committee
- Seek a long term reoccurring acquisition process
- Agency Budgeting across the biennium's

### IV. Imagery Acquisition Plan - Fay Rubin - UNH GRANIT - presented the following slides.



# **Plan Components** Define statewide standards for imagery acquisition: Imagery type (aerial photography, satellite imagery, LIDAR,

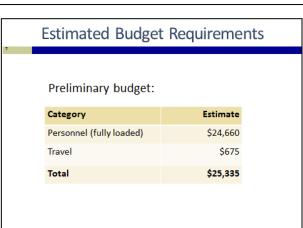
- etc.)
- Imagery accuracy (horizontal and vertical)
- Frequency of imagery acquisition
- Acquisition conditions (leaf on/leaf off, bare ground, sun angle, etc.)
- Delivery considerations (format, projection tiling scheme, tile naming convention, metadata)
- Develop funding allocation model:
- Focus on who participates, not funding mechanism



### **Plan Activities:**

Three input sessions will be convened to collect input from state and federal agencies, regional and municipal agencies, and the private sector. The following specific tasks will be managed by GRANIT staff to support this activity:

Facilitate planning meeting with GTAC Task Force. Develop meeting presentation materials. Meet with GTAC Task Force to review presentation materials. Finalize presentation materials. Host/facilitate meeting.



### Project Working Group

- Catherine Callahan, NH F&G
- Glenn Davison, NHDOT
- Ken Gallager, NHOSI
- Sean Goodwin, NHDOS
- Hamilton McLean, NHDES
- 🛚 Fay Rubin, UNH GRANIT
- Tim Scott, NHDOS
- Sara Siskavich, NRPC

### **Committee Discussion:**

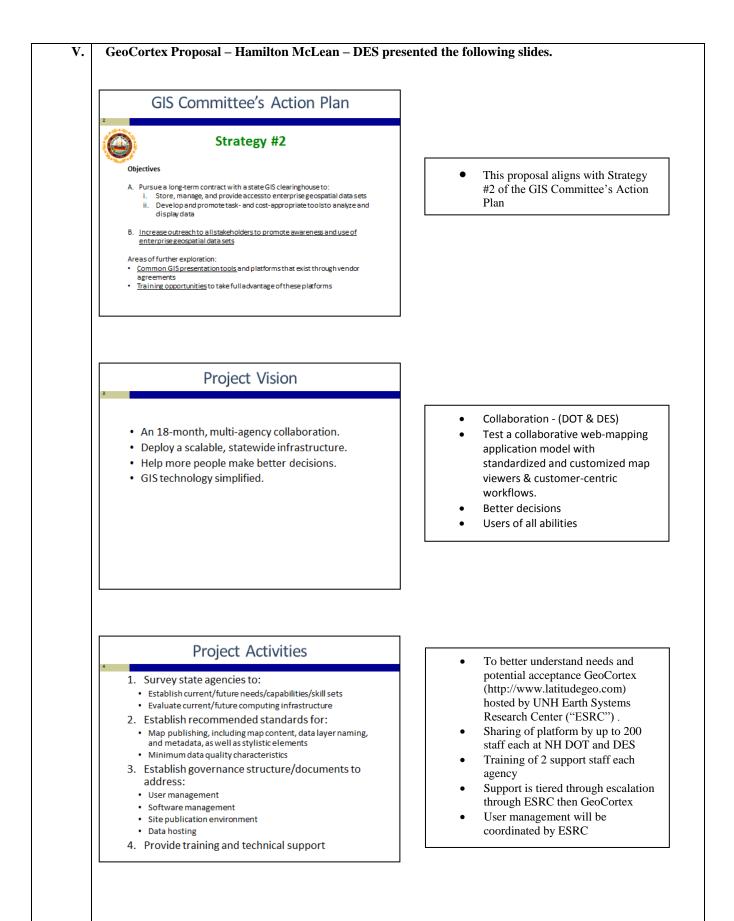
Discussion on adding Nonprofits for input sessions

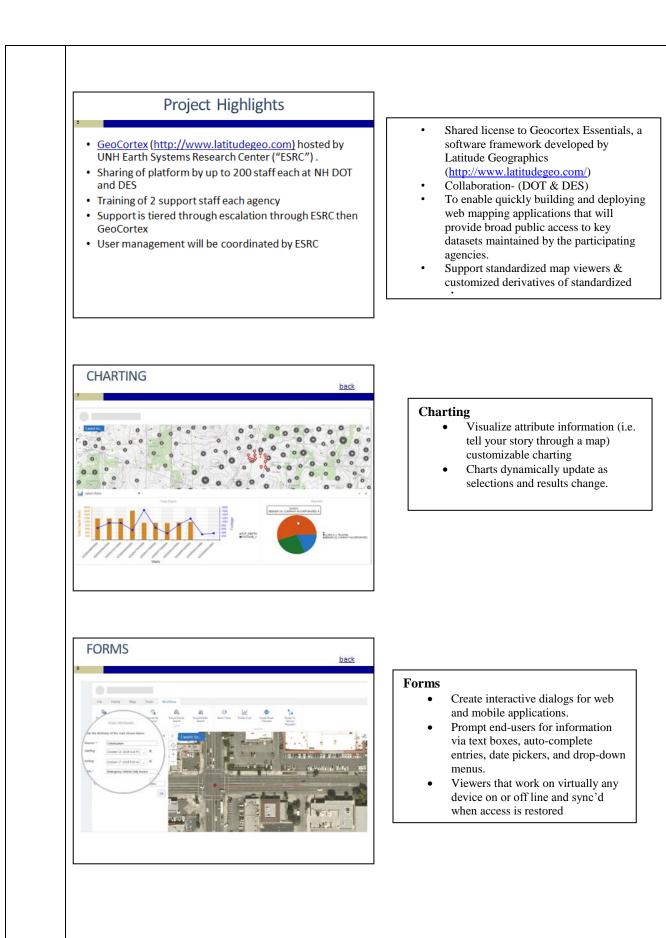
Discussion on compiling a GIS user mailing list across the state.

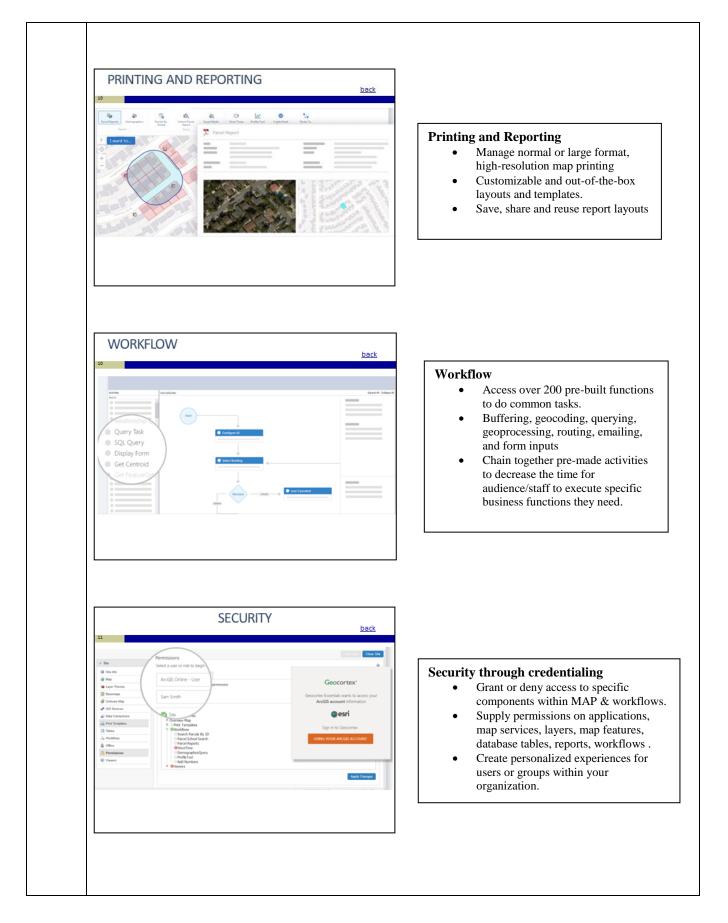
Commissioner Goulet questioned who will manage the contract under this proposal; Glenn Davison said he was willing.

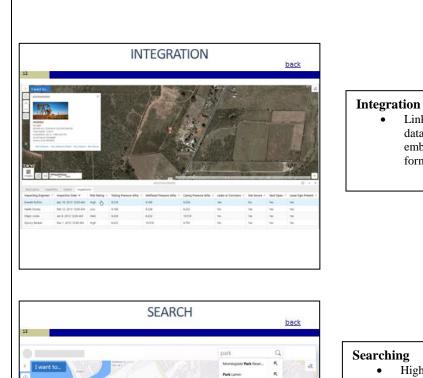
Commissioner Goulet also asked if the funding portion has contingencies built in. Conversation ensued and GTAC is to revisit the budget and formalize the proposal.

Motion for the GTAC Subcommittee to formalize the Imagery Acquisition Plan funding and to formalize the proposal for Commissioner Goulet's review before the next quarterly meeting. Motion by DHHS CIO Donna O'Leary, was seconded by DOT Commissioner Victoria Sheehan and all approved









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### Searching

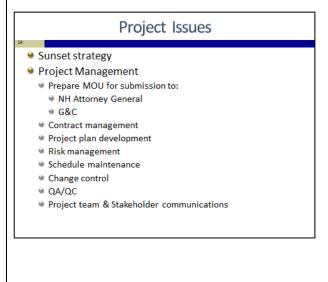
Highly-scalable, extremely fast search engine provides intuitive search across millions of map features.

Link spatial and non-spatial

forms.

databases, files, or web services; embedded in reports, searches, and

See search suggestions as they are typed – sorted by relevance – and results will be plotted on the map directly.



	Funding Requirer	ments:		
	18-month pilot			
	Category	Estimated Cost		
	Personnel	\$58,943		
	Software Licensing	\$32,400		
	Training	\$14,345		
	Technical Support	\$4,140		
	Travel Facilities & Administrative	\$680		
	(35.2%)	\$38,899		
	Total	\$149,408		
	Motion for GeoCortex pilot pro to inform Commissioner Goul	let of their decision before the	next quarterly meeting	
VI. VII.	to inform Commissioner Goul Ken Gallaher, seconded by DHH Clearing House Planning Discussion during the GeoCortex F Motion to Adjourn	let of their decision before the IS CIO Donna O'Leary all appro Proposal covered this item.	next quarterly meeting ved.	g. Motion by
	to inform Commissioner Goul Ken Gallaher, seconded by DHH Clearing House Planning Discussion during the GeoCortex F Motion to Adjourn	let of their decision before the IS CIO Donna O'Leary all appro Proposal covered this item. uested a motion to adjourn at 2:25	next quarterly meeting ved.	, Motion by
VII.	to inform Commissioner Goul Ken Gallaher, seconded by DHH Clearing House Planning Discussion during the GeoCortex F Motion to Adjourn • Commissioner Goulet req approved	let of their decision before the IS CIO Donna O'Leary all appro Proposal covered this item.	next quarterly meeting ved.	<b>. Motion by</b>
VII.	to inform Commissioner Goul Ken Gallaher, seconded by DHH Clearing House Planning Discussion during the GeoCortex F Motion to Adjourn • Commissioner Goulet req approved DESCRIPTION	let of their decision before the IS CIO Donna O'Leary all appro Proposal covered this item. uested a motion to adjourn at 2:25 ACTION ITEM	next quarterly meeting ved. pm, motion was made, seco Assigned To	onded and
	to inform Commissioner Goul Ken Gallaher, seconded by DHH Clearing House Planning Discussion during the GeoCortex F Motion to Adjourn • Commissioner Goulet req approved	let of their decision before the IS CIO Donna O'Leary all appro Proposal covered this item. uested a motion to adjourn at 2:25 ACTION ITEM ze the Imagery Acquisition Plan f	next quarterly meeting ved. pm, motion was made, seco <u>Assigned To</u> Yunding	g. Motion by