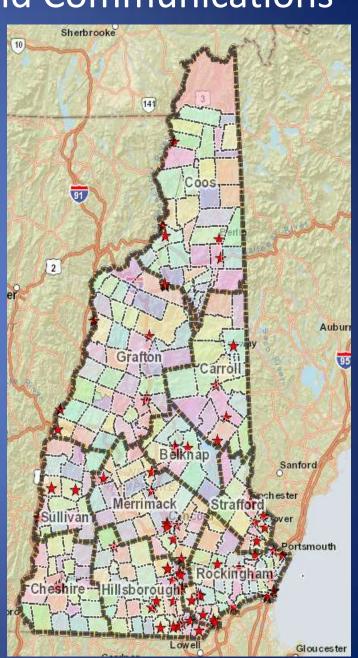
New Hampshire IT Council GIS Collaboration

April 29, 2016 Concord, NH

Division of Emergency Services and Communications

(DESC)

- Operates NH E9-1-1 System
- Interacts with 234 Cities and Towns to maintain statewide Master Street Address Guide (MSAG), Street Address Guide (SAG), and Telephony Databases
- Maintains Communication Linkage with 70-24 Hour Dispatch Centers
- Provides GIS data and Mapping services to local, regional and state, Police, Fire and EMS agencies
- Provides GIS support to State Emergency Operations Center (SEOC)
- Operates NHVIEWW



GIS in New Hampshire Government

- Alive and productive
- A comprehensive business tool for agencies to utilize in achieving their:
 - Legislative mandates
 - Executive goals
 - Overall Service to Citizens and Visitors of NH
- Ahead of many states
 - without the headlines!

GIS Coordination among State Agencies

- Public Utilities Commission
 - Data Migration to GIS (Telecom, Electric, Gas)
- HSEM-Hazard Mitigation
 - Integrating and Migrating Federal, State, Regional and Local Hazard Mitigation Data into GIS
- NH Trails Bureau
 - Trail Data Collection and Mapping
- NH Forest and Lands
 - Fire Tower Map Modernization
 - State Park Addressing
- NHDOT
 - Shared statewide imagery purchase 2010 and 2015
 - Joint Development of a Road Closure application

- DHHS
 - Geocoding Services and web service hosting
- Department of Corrections
 - Parole and Probation Layer
- Department of Environmental Services
 - Dams
 - Drinking Water Systems
 - Waste Water Treatment Facilities
- Department of Revenue
 - Provides Statewide parcel layer to multiple agencies
- NH Executive Branch
 - Health Care Access for State
 Employee contract negotiations
- NH National Guard
 - NH Military Location Safety & Security

GIS Coordination among Local Agencies

- 234 Cities and Towns plus 25 Unincorporated Areas
 - Road and address data and maps
 - Special Event/Purpose Maps
 - Training and Exercise support
 - Coordination with NHDOT and Local Nodal Map synchronization
- Public Safety Dispatch Centers
 - Road and address data and maps
 - Special Event/Purpose Maps
 - Radio Transmitter Analysis
 - Mutual Aid Coordination maps
- Local School Districts
 - Exchange of Floor Plans and assisting Schools with the development of Emergency Response Locations(ERL's)
 - Which zone of the school is the emergency call originating from?
- Regional Planning Commissions
 - When authorized by the Town

Emergency Operations Center Support

- Create visual display of situations/conditions
 - Power Outages
 - Developed method to display accurate power outages by town and company.
 - Tornado Path
 - Schools Closed
 - Roads Closed
 - Developed Road Closure Application that uses 9-1-1 Roads to accurately create a road closure map
 - Used during hurricane outages to provide PUC with roads closed due to trees and wires down to facilitate faster restoration

NHVIEWW

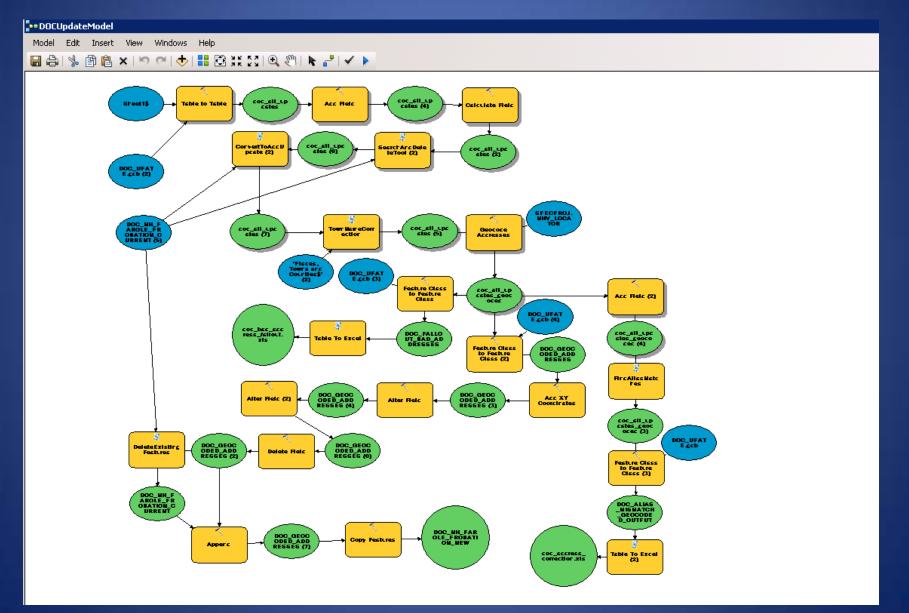
- NH Visual Information and Emergency Watch/Web
- A Geographic Information System (GIS) that integrates various data repositories, owners and services into a data store with web based visualization and analytical tools
- Designed to answer the question..... WHERE?
- Built on a platform address points, critical infrastructure and key resources

GOAL

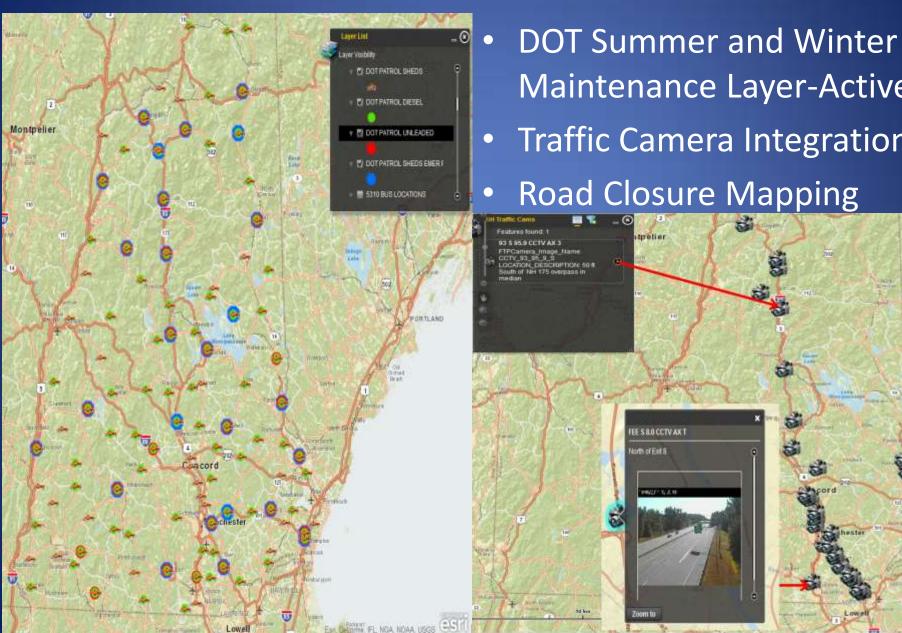
1 Address.....used in separate state agency databases (15 Elm St, apartment 1, Lancaster, NH)



Automated Address GeoProcessing Models



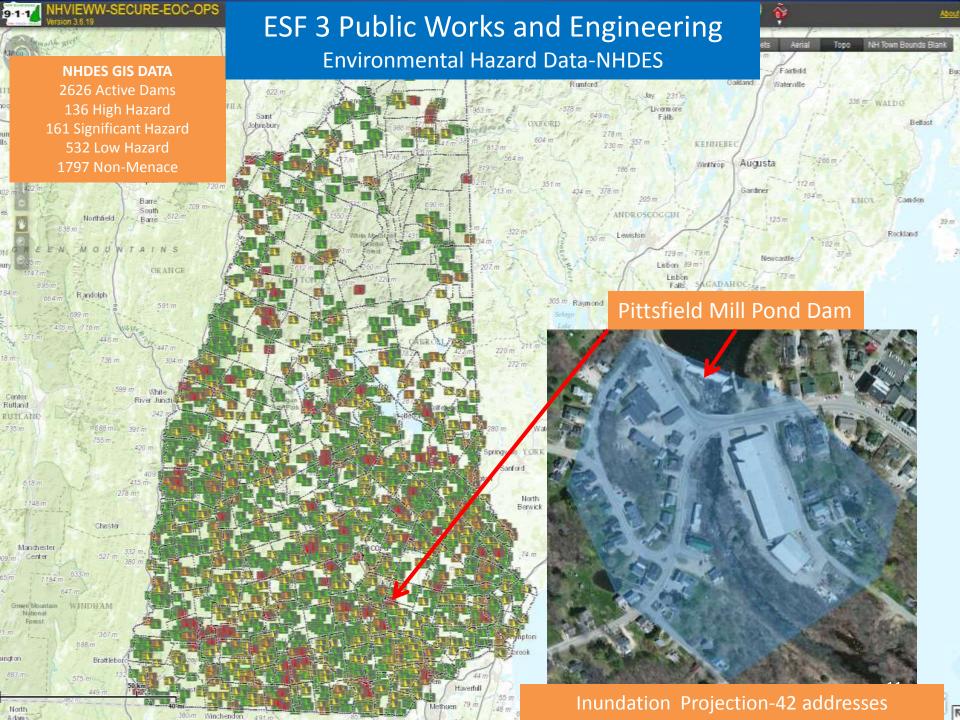
ESF-1 Transportation



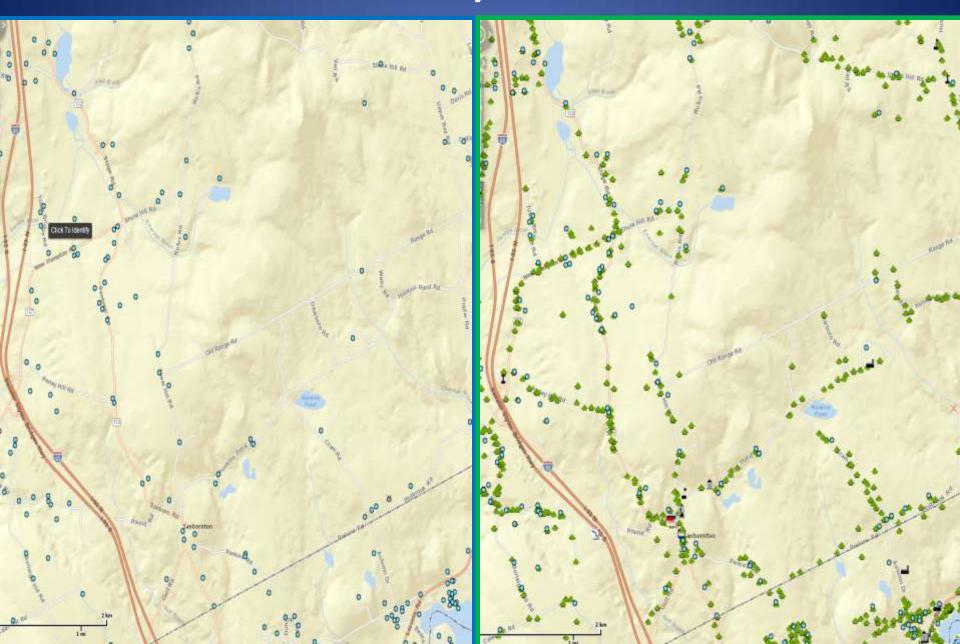
Maintenance Layer-Active

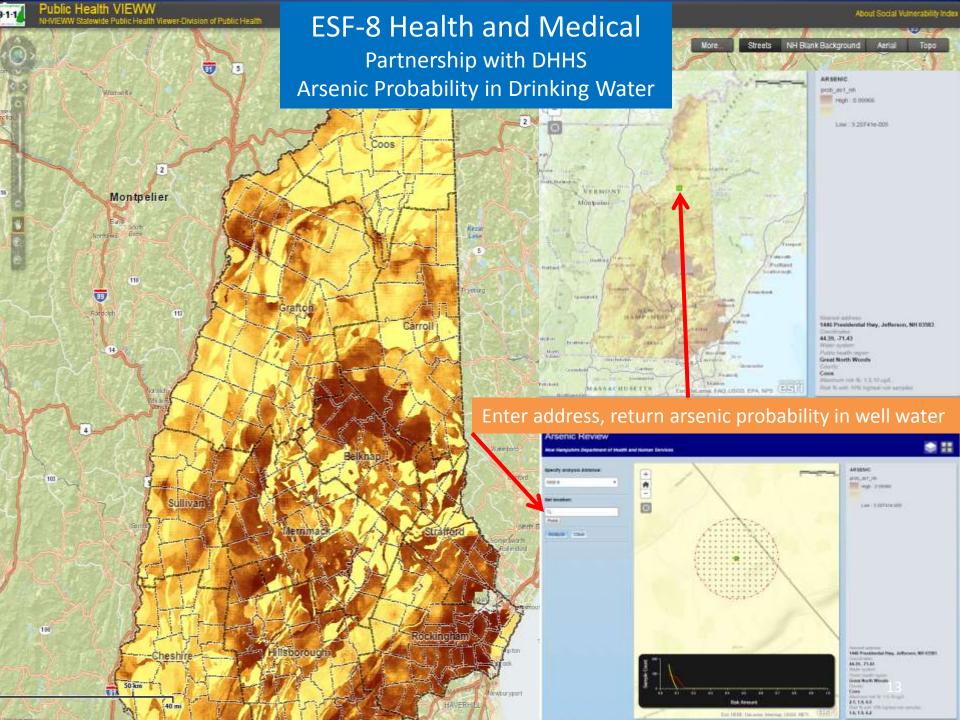
Traffic Camera Integration

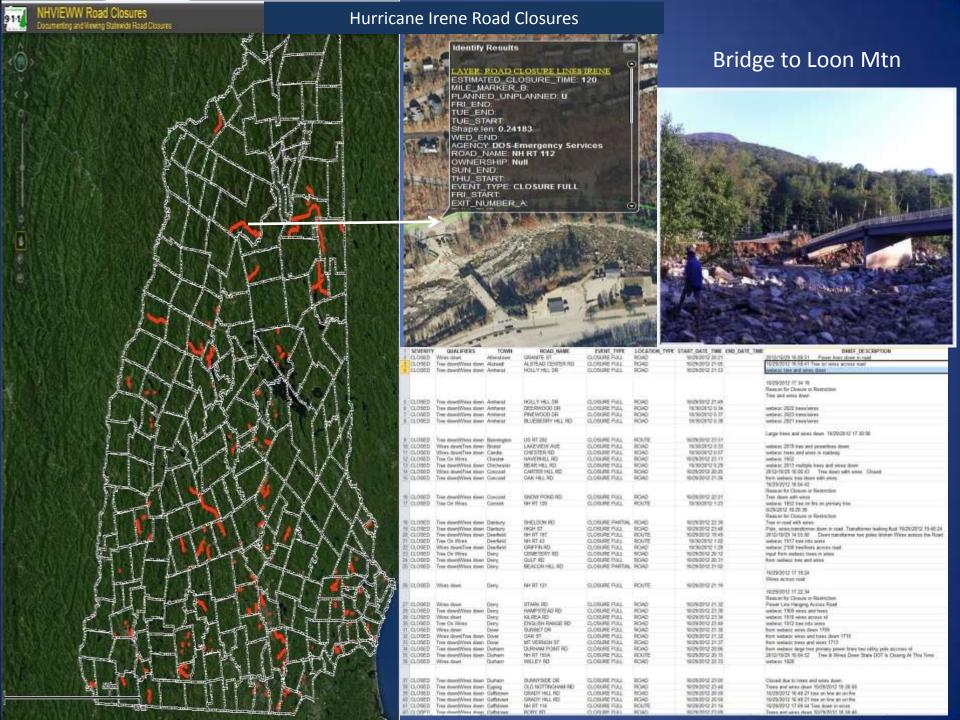
Road Closure Mapping

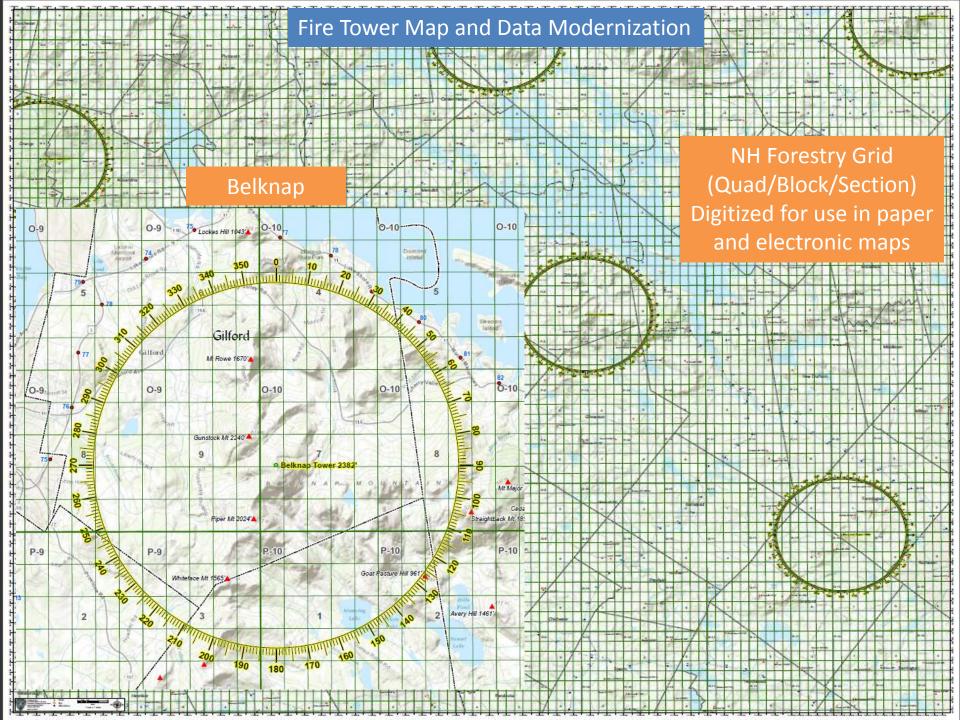


Well Inventory vs Addresses



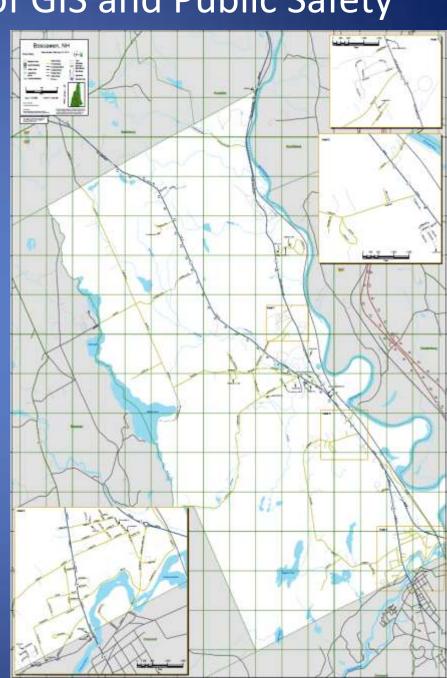






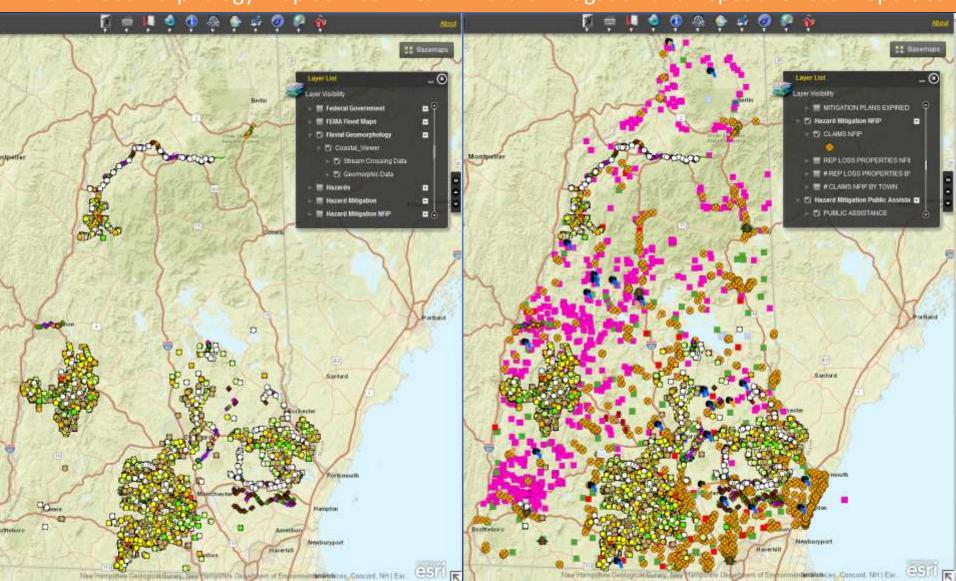
The power and efficiency of GIS and Public Safety

- Statewide Block and Section Grid
- Overlaid on Capital Area Dispatch
- Overlaid on Boscawen9-1-1 Road Map
- 1 data grid used in multiple scales over single 9-1-1 data source



Dynamic Integration of Multi Agency data

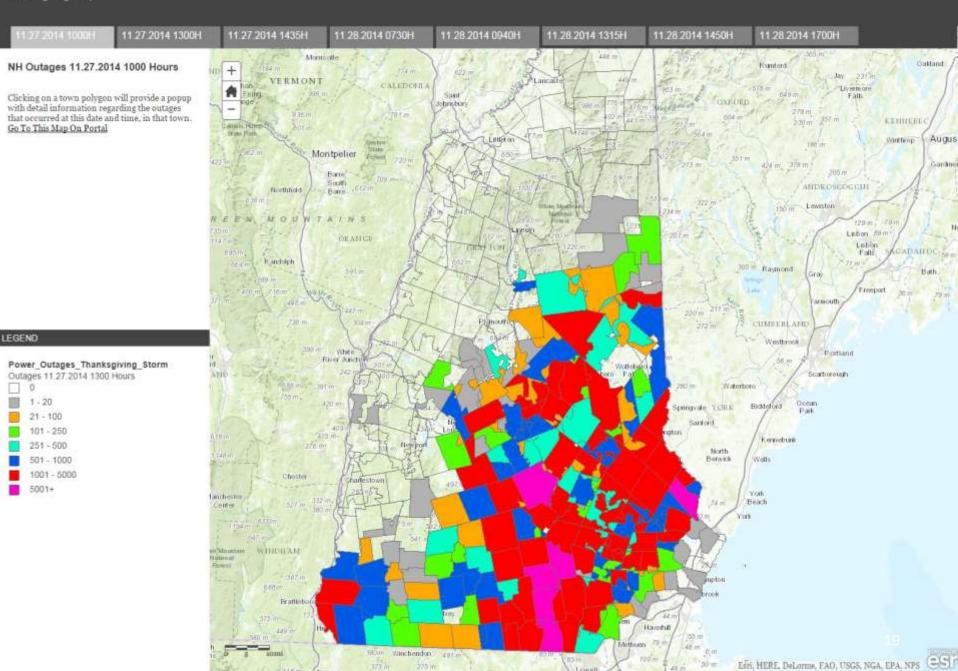
Fluvial Geomorphology Map Service & Hazard Mitigation and Repetitive Loss Properties



NH Hazard Database Results

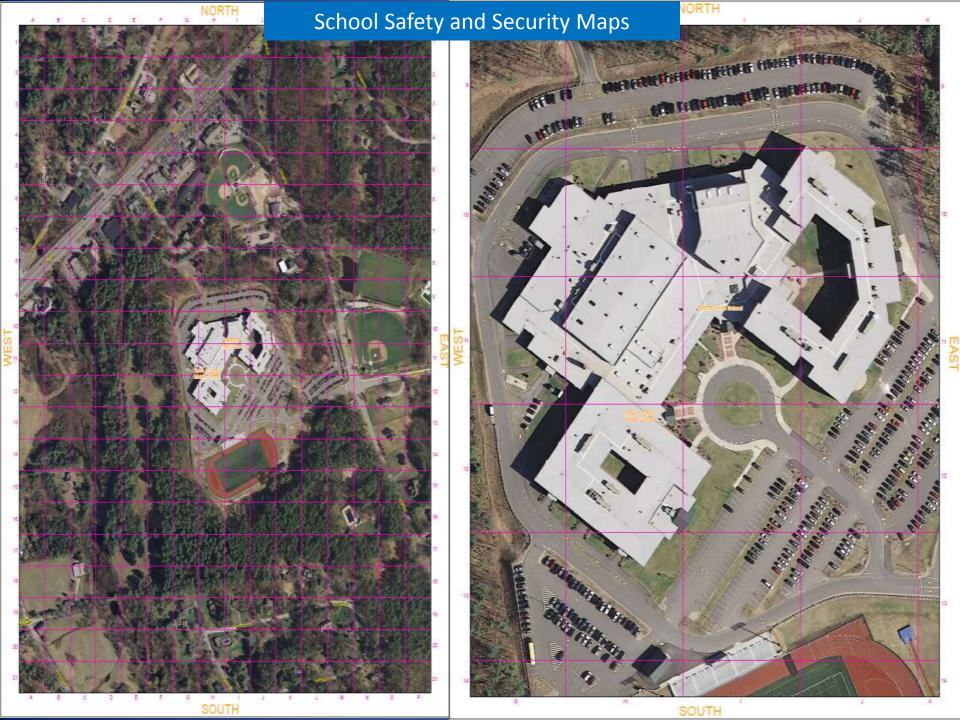
- Capacity to collect, manage, visualize and analyze hazard based mitigation data for the State of New Hampshire
- Provides a data and workflow model to tackle other relevant statewide data deficiencies
- Opens the door for more data driven decision making and advance awareness of situations as they unfold.

Thanksgiving 2014



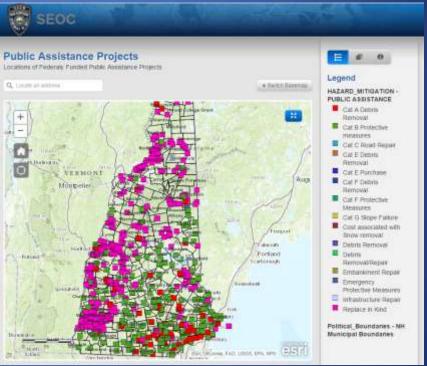
Where are we now?

- Contributed to the DOT flyover of 2015 imagery
- Address processing, validation and correction for statewide data sets
 - Parole and Probation
 - DOS Offender Registry
 - Public Health surveillance data geocoding
- Providing data and analytical support to First Net tasking for New Hampshire



Web Base Maps suitable for embedding in Agency Web Pages





NHVIEWW Agreements

- Department of Health and Human Services
- Department of Corrections
- Department of Transportation
- Homeland Security and Emergency Management
- Division of State Police
- NH National Guard

Conclusions

- There are mature GIS's in NH Agencies with talented professionals
- There is existing cooperation between agencies for maximum ROI
 - 2010 and 2015 NH Imagery Purchase
 - Many others described in this presentation
- Agencies without GIS are accessing and using their own data in Geographic form through NHVIEWW
 - Department of Corrections
 - Multiple Department of Safety Divisions
- Agencies are leveraging NHVIEWW services and infrastructure to improve data quality
- NHVIEWW is a flexible, scalable and affordable platform to support all agencies in:
 - Day to day internal operations
 - Public information and agency GIS data access goals

Conclusion

 We are here to assist local first responders in the New Hampshire 9-1-1 continuum and.....state
 agencies

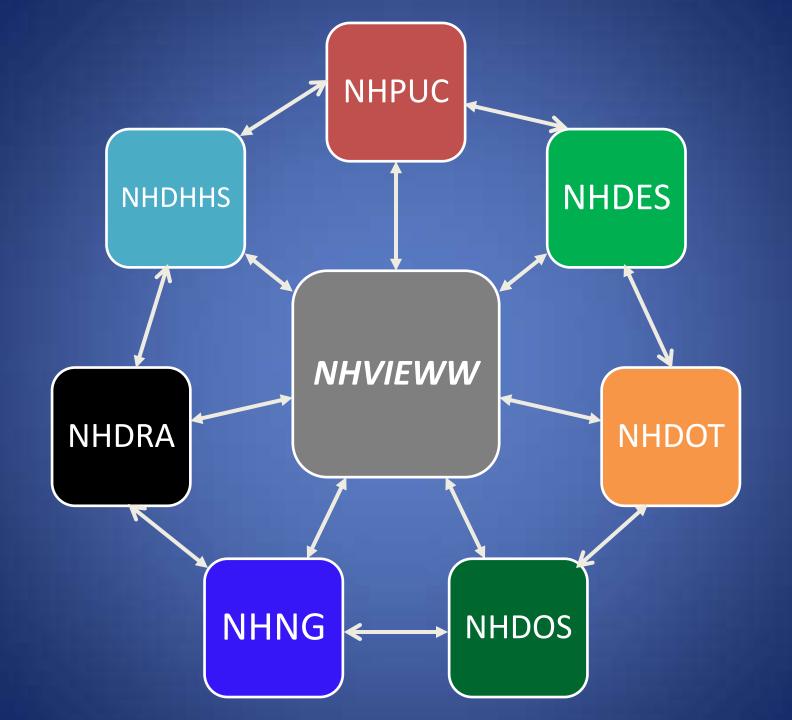
located on PSAP mapping system

Scene arrival completed without location information complication!

Call and location information transferred to designated local dispatch center

First Responding Unit arrives at caller requested identified location on the map

Local dispatch center conveys accurate location data to First Responding Unit



THANK YOU

Sean Goodwin

GIS Administrator

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New Hampshire Department of Safety
Division of Emergency Services

