



Department of
Environmental
Conservation

Northeast Aquatic Invasive Species Centralized Databases

NEANS Panel Meeting
November 29, 2022

Talk Outline

1. Overview of two centralized databases used in NYS
2. Proposed project to extend data sharing across the Northeast



Centralized Databases Used in NYS

Watercraft Inspection Steward Program Application (WISPA)

iMapInvasives



WISPA

- All state funded watercraft inspection steward programs are required to use
- Standardized survey questions with some customization per request of individual organizations
- Survey results uploaded from phone or tablet

Benefits of WISPA

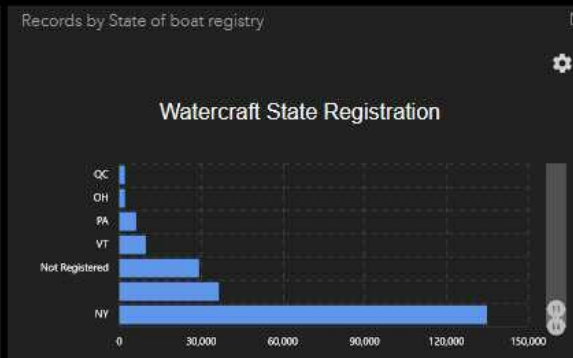
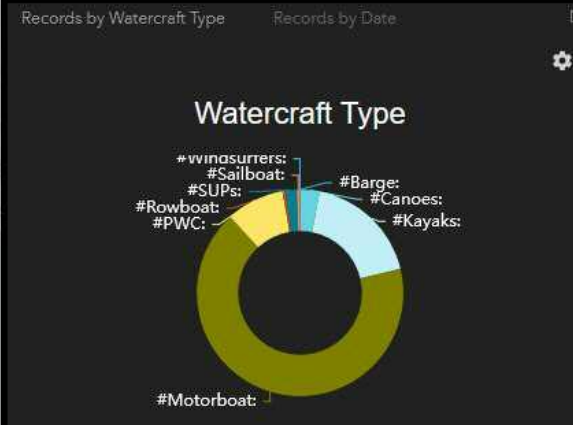
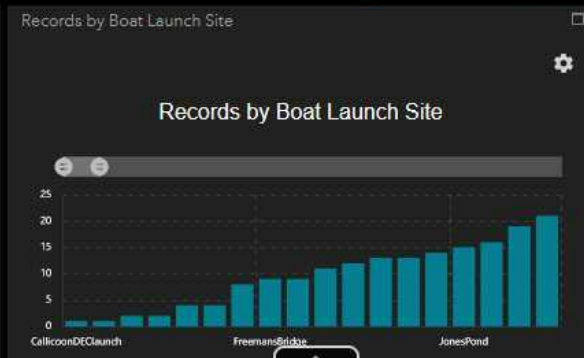
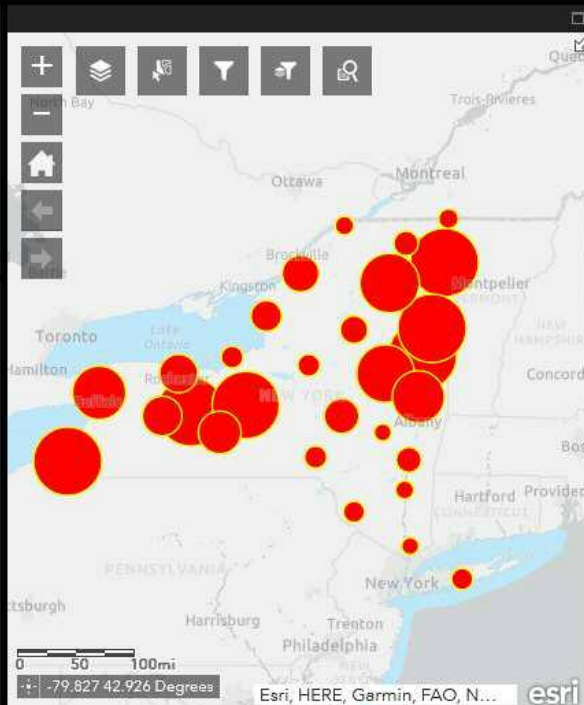
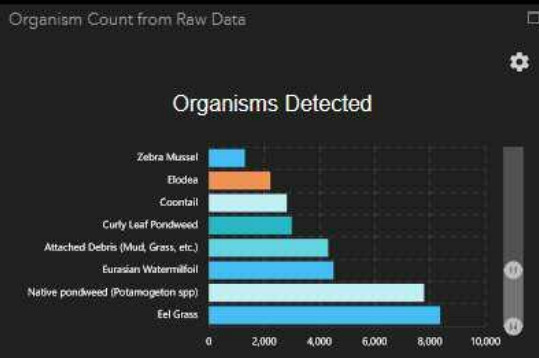
- Statewide dashboard with real time updates
- Can track species interceptions – in 2022 we had several interceptions of hydrilla



Watercraft Inspection Steward Program Application (WISPA) Data

NY Natural Heritage Program | NY DEC | NY OPRHP

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Benefits of WISPA

- Tracking boater movement via spider diagrams which allows for assessing risk of introduction and spread
- Demonstrates why we need to work at a regional level

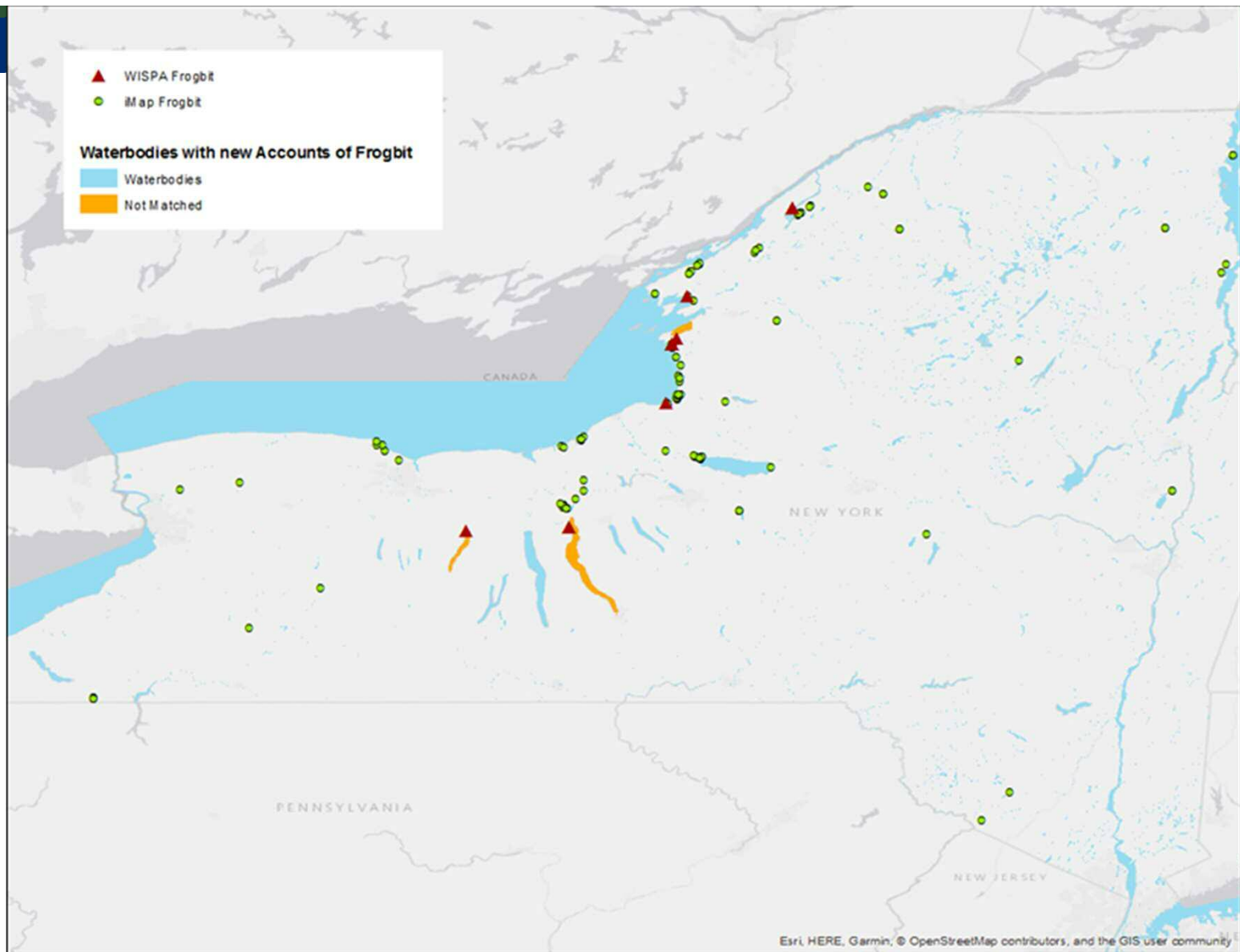


2021 WISPA Spider Diagrams



Benefits of WISPA

- Hits Analysis: AIS launch reports not currently in our invasive species data -> Providing guidance for additional monitoring and surveys



Benefits of WISPA

- Big picture overview about boater activity and spread prevention measures taken
- View and edit all data submitted by stewards by organization
- Export data to different formats for detailed/custom analysis
- Can track behavior change over time

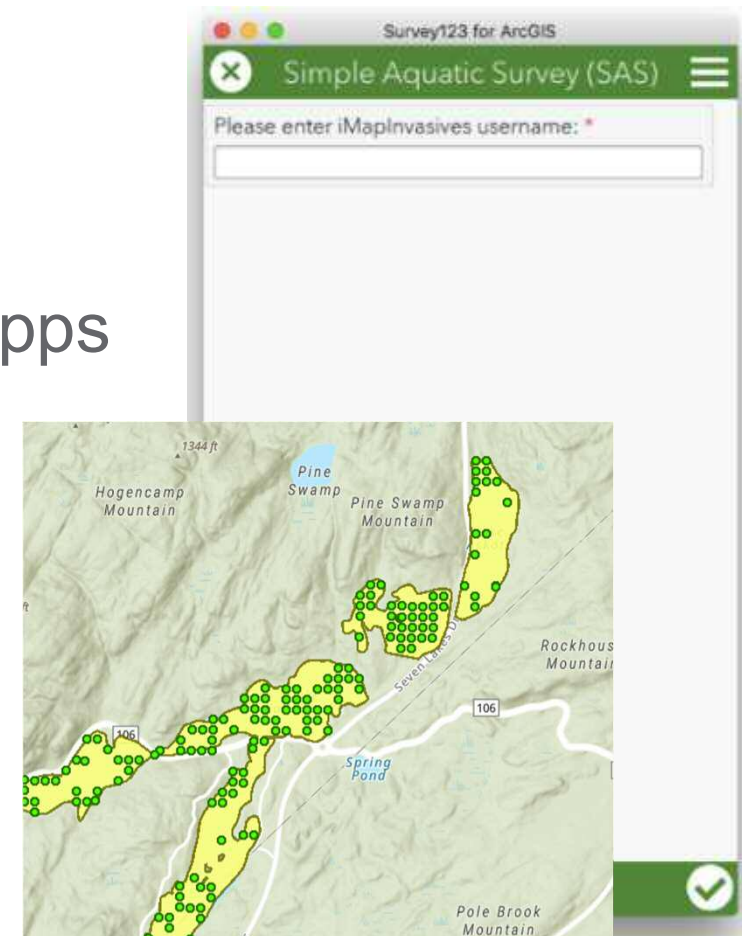
iMapInvasives.org

- All Partnerships for Regional Invasive Species Management, contractors, DEC, and Parks use this database
- Reporting for all invasive species (aquatic and terrestrial)
- Houses data for presence, non-detects, treatment, and post-treatment monitoring



Benefits of iMapInvasives

- Provides standardized mobile data collection through iMap and SASPro apps
- Provides searchable maps of species distribution
- Data supports AIS Lakes & Ponds Vulnerability Assessment Tool

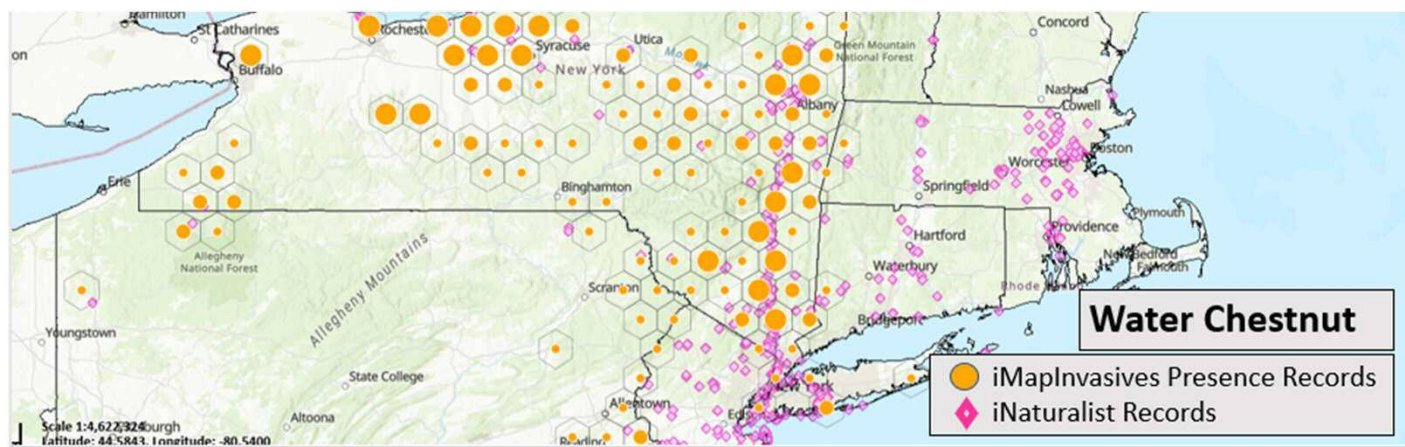


Benefits of iMapInvasives

- Allows for assessing progress of control/management efforts by changes in polygons and points recorded over time
- Can view statewide distribution of species as well as across border in Pennsylvania and Maine
- Customizable reports and email alerts (e.g., by waterbody and approaching region)

Benefits of iMapInvasives

- Provides a view of iNaturalist data to catch other reports from the public
- Data currently exchanged with USGS NAS as static uploads. (Hope to have views of each system's data within the other.)



Thank you!

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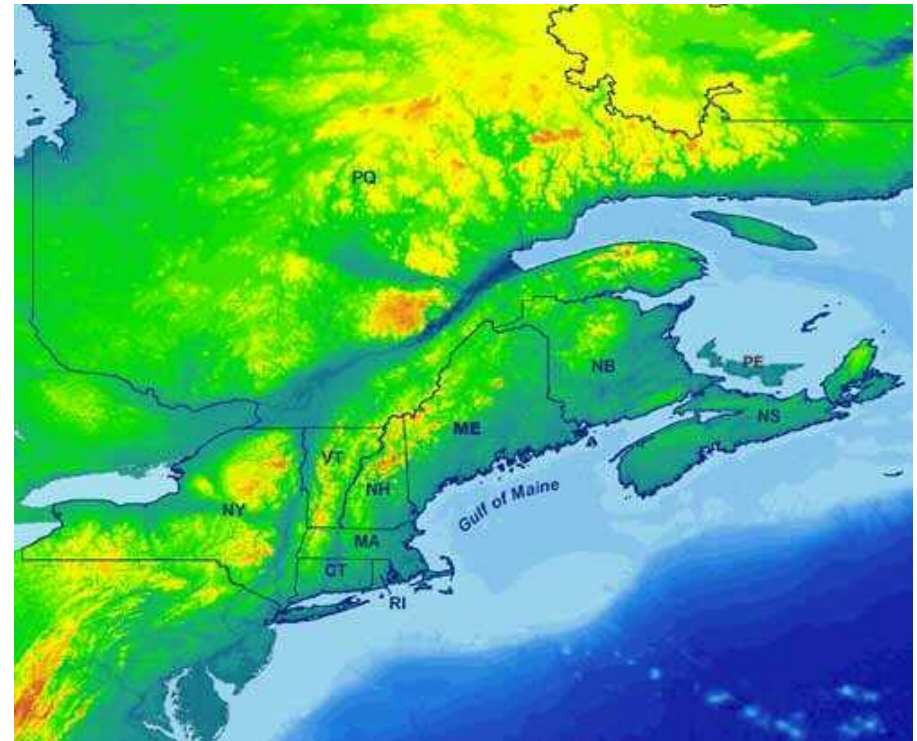
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Grant Proposal Idea:

Northeast Regional AIS Spread Prevention and Detection through Data Sharing

Goal:

To promote regionally standardized data collection, sharing, and analysis of aquatic invasive species occurrence, management, and watercraft inspection steward program data.

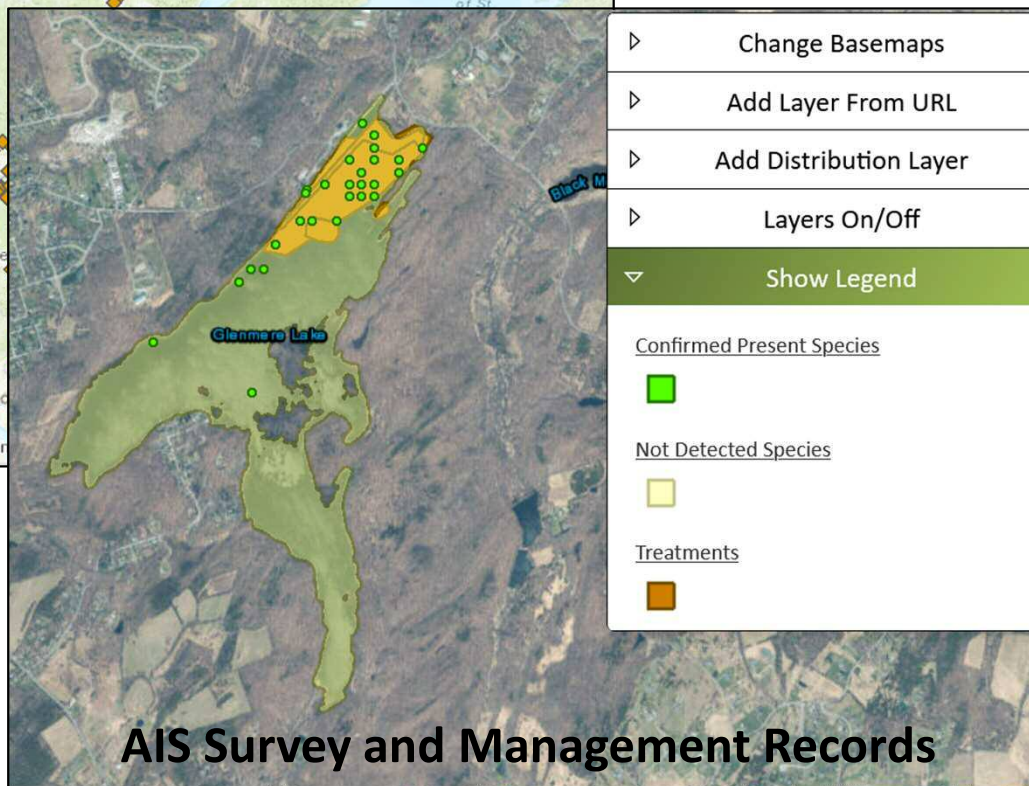
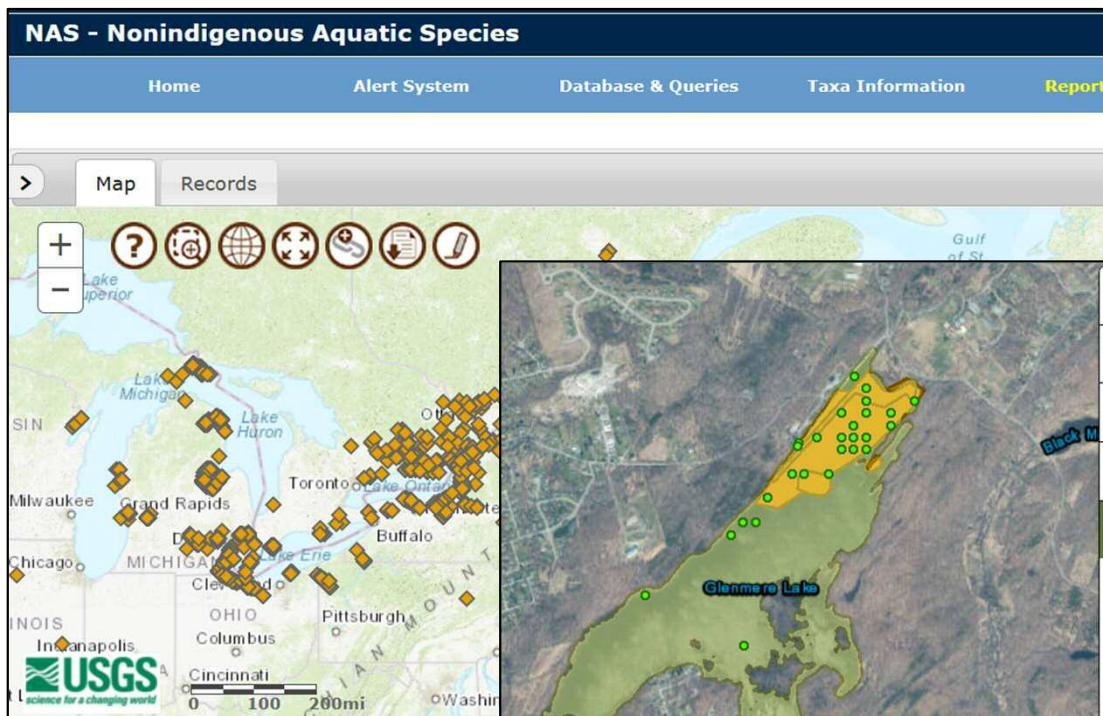


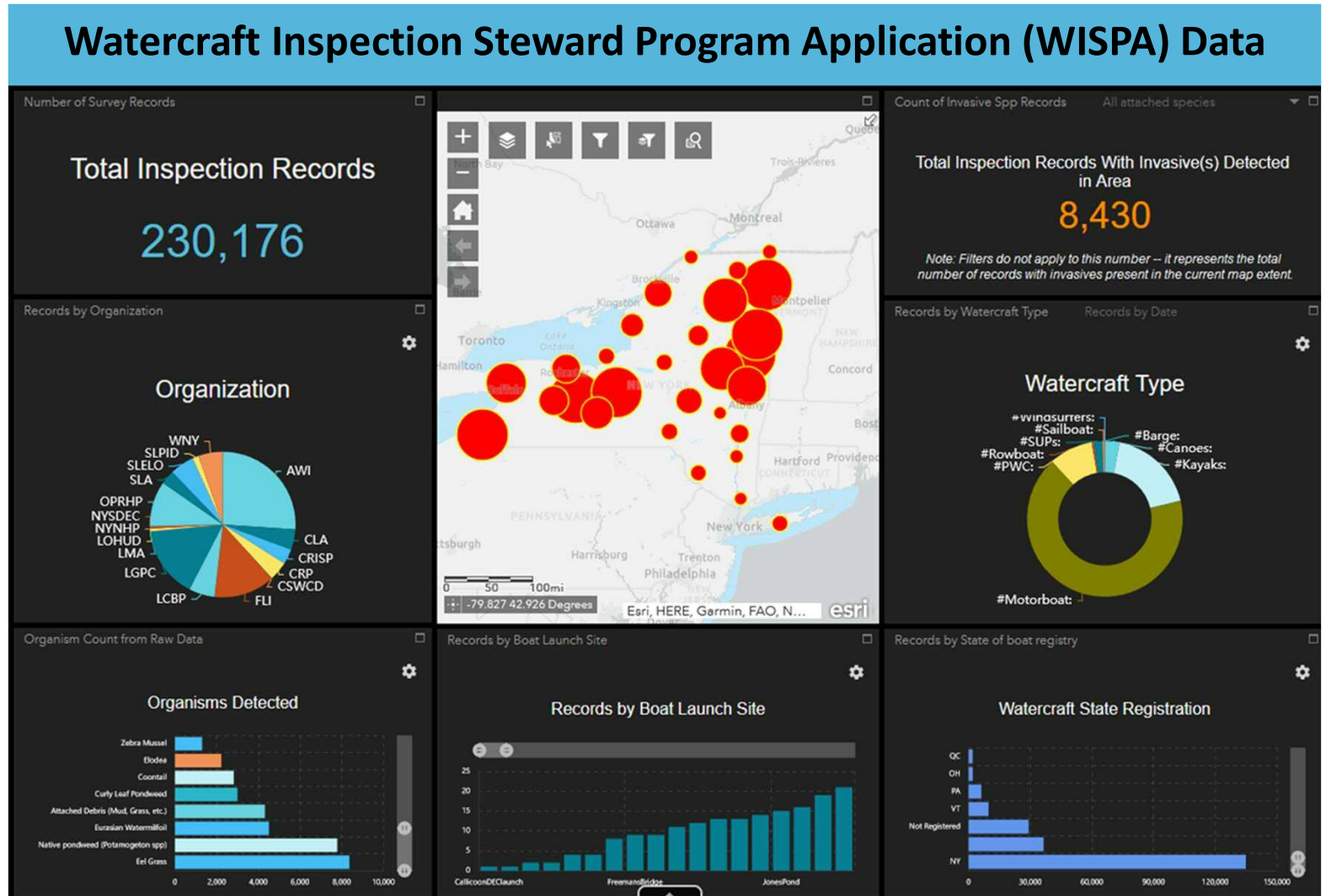
Grant Proposal Idea:

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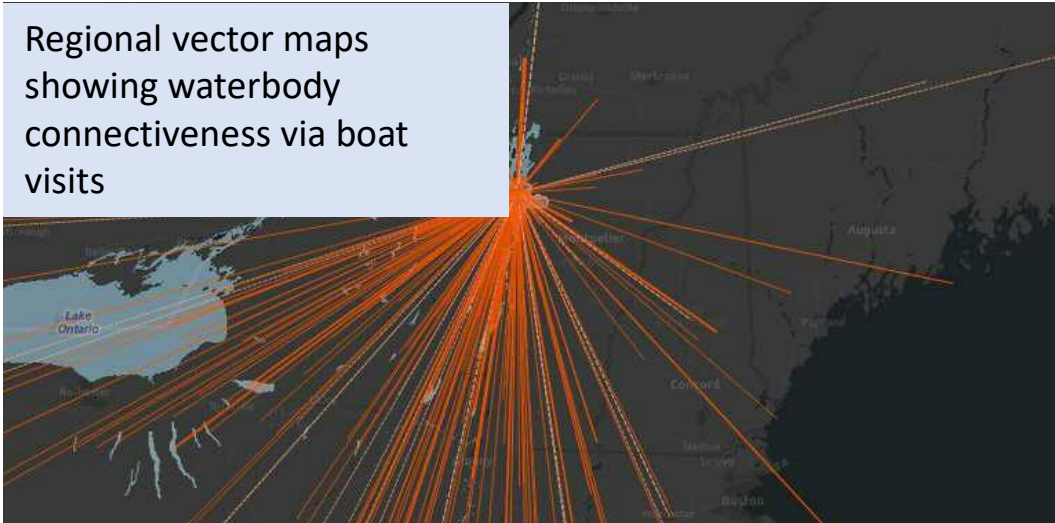
Proposed Activities:

- Convene meeting of regional aquatic data managers
- Provide GIS data management and app tech support capacity (1 to 2 FTEs)
- Create jurisdiction-specific WISPA instances to allow for data collection with the app and feeding reviewed data into the regional data portal
- Northeast regional instance of iMapInvasives to collect invasives locational data for review and submission to USGS NAS, plus treatment and negative data
- Source and format existing “hidden” data to add to regional views that are not yet captured in USGS NAS or iMapInvasives
- Communicate findings to key state partners to aid in early detection and prevention across the Northeast region
 - Examples: Intercepts dashboard – Hits analyses – Horizon scanning alerts

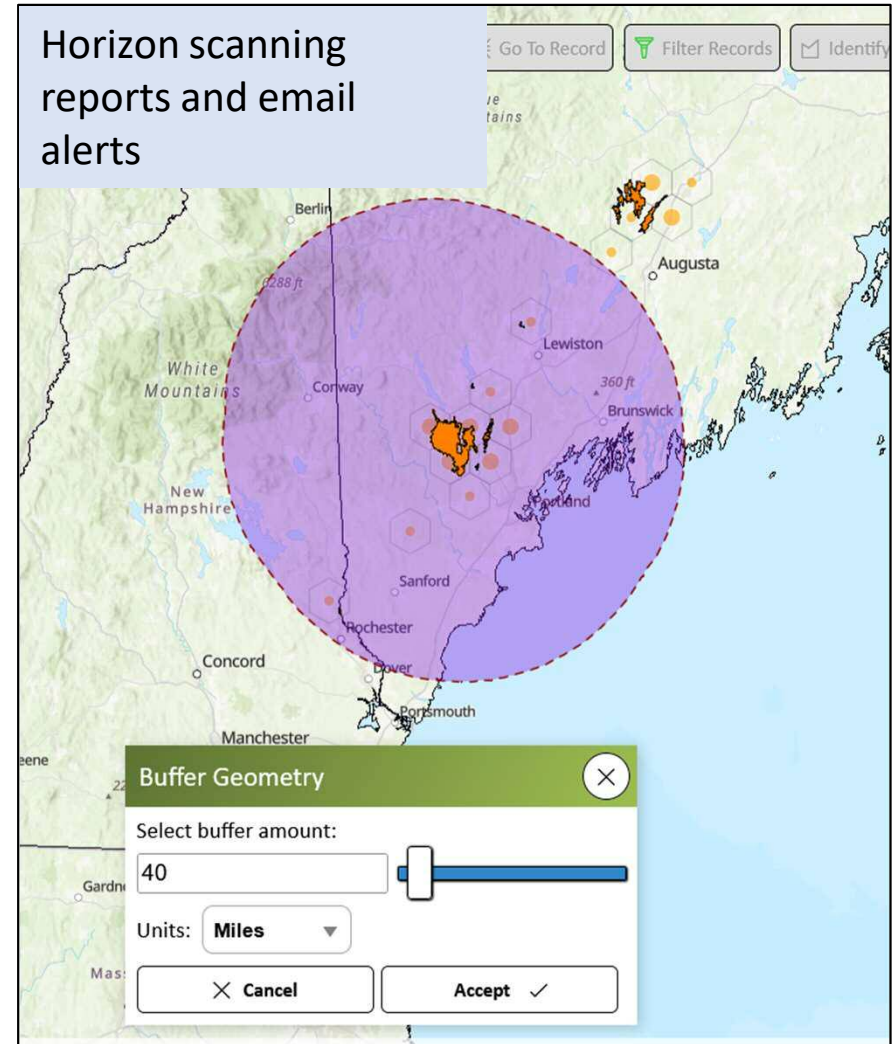




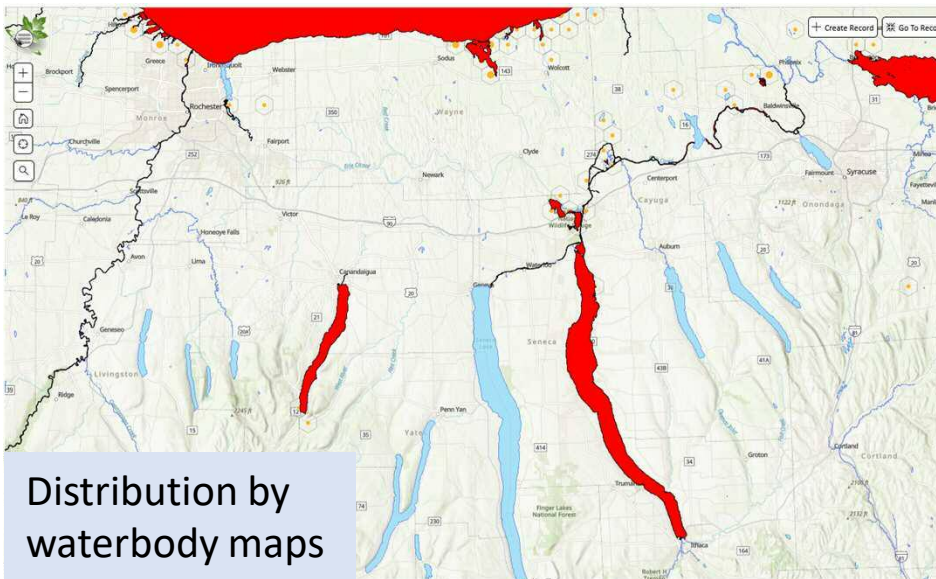
Regional vector maps
showing waterbody
connectiveness via boat
visits

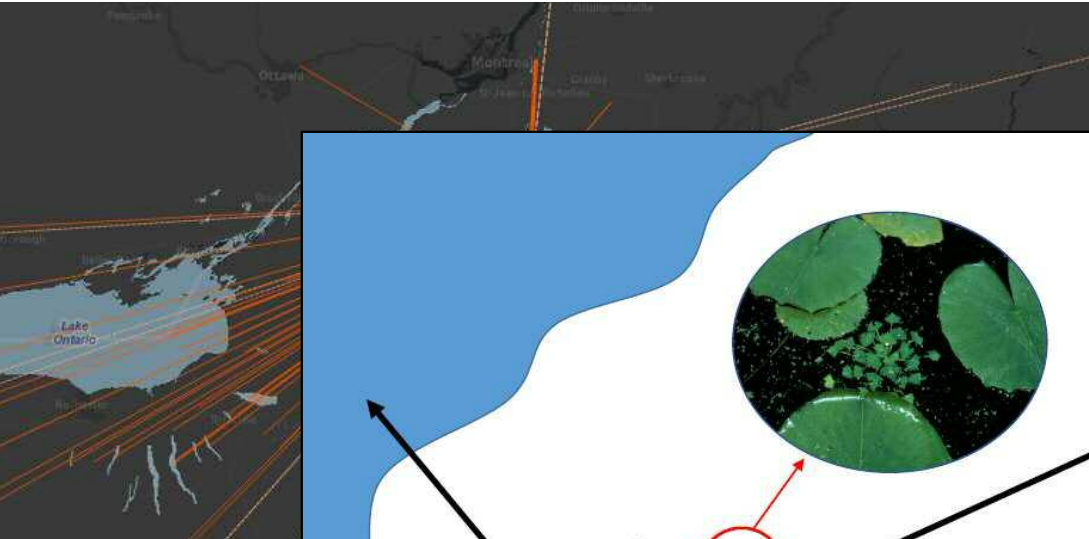


Horizon scanning
reports and email
alerts



Distribution by
waterbody maps





1. WISPA data reveals positive "hit" of Water Chestnut from| waterbody

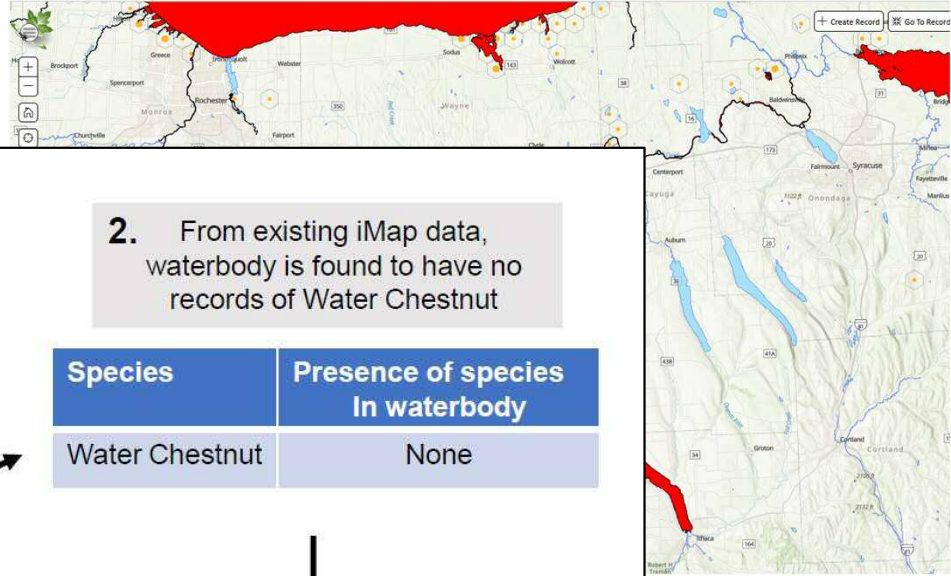


2. From existing iMap data, waterbody is found to have no records of Water Chestnut

Species	Presence of species In waterbody
Water Chestnut	None

3. Data lead in need of survey:
Regional aquatic managers conduct targeted survey for that species in waterbody

Regional Hits Analysis



Grant Proposal Idea:

Northeast Regional AIS Spread Prevention and Detection through Data Sharing

Questions / Unknowns:

- What funding sources are a good fit?
- Is there interest from all jurisdictions in this regional data sharing project?
 - Different levels of interest?
 - Fully on-board – we would start using our state-instance of WISPA and iMap and tap into the capacity of a regional data manager
 - Supportive, willing to share data, not switching data systems – We have our own systems, but would be willing to share data into a regional view of iMap and WISPA for analyses
 - Not at all interested – we do not want to be involved; no sharing of boat inspection and/or AIS location data
 - Not sure – we have these questions/challenges...
- If there is interest from all jurisdictions, could the NEANS Council be the applicant? (with vision of contracting out the data manager tasks)

	Interest?	Challenges?	Funding suggestions?
NY			
CT	Very Interested	?	
MA	Very Interested	Capacity/ Time	
RI	Very Interested	Capacity (Staff)	RI/ regional funding possible
VT	Very Interested	Capacity/ Time	ANC Grant VT funded (match)
NH	Interested w/ caveats	Data sharing	
ME	Interested	Funding	ME grant possible; Chris Riley - Boat Inspection Staff
PQ			
NB			
PE			
NC			