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# eGIS Workshop

## North Atlantic Division

Participant Team:

Will Rogers, Regional Geospatial Champion
Colleen Rourke, Philadelphia District
Matt Walsh, New England District
Gene Batty, Norfolk District
Steve McDevitt, New York District
Colonel Larsen, Deputy Division Commander
Tom Rodehaver, Europe District
Jared Scott, Baltimore District



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# Success Story 1 - NAB

- Maryland Western Shore HES Study
- Utilized ModelBuilder within ArcGIS to develop a model that automates a portion of the study process.

What contributed to its success?

Initially, there were various methods used to create inundation mapping for this project. This model helped to both standardize and automate the process.

(Next Page is a screenshot of the model.)

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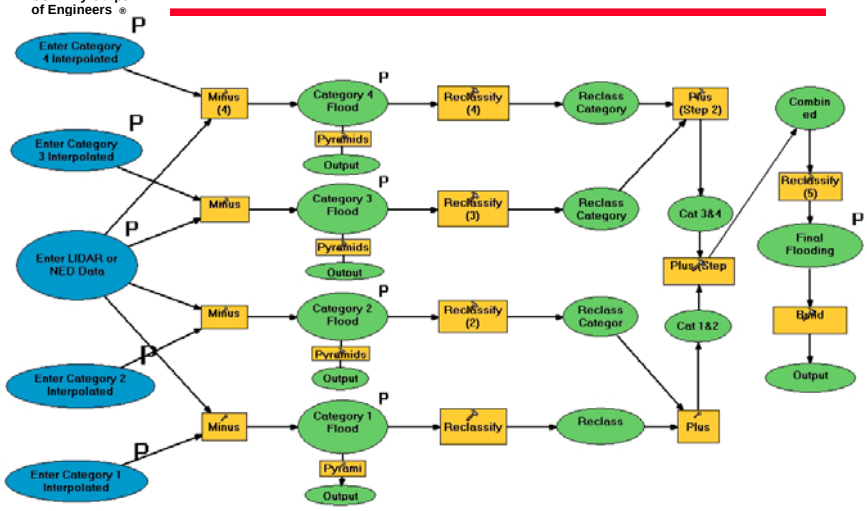
# Success Story 1 - NAB

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# Biggest Challenges - NAB

- Identify district challenges in the use of advanced GIS tools?
  - Weak data management (hard to locate data)
  - Availability of tools
- What are the **five** biggest challenges?
  - Managers do not fully appreciate the potential of GIS
  - Hesitancy to change the status quo (if its not broke don't fix it)
  - Lack of structure (no true centralized GIS)
- What are the obstacles you must overcome?
  - Achieve an understanding of the technology and a desire to utilize it to its full capability.

6/10/08

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# District eGIS Vision - NAB

- What will your district eGIS look like in 3 years?
  - Moving towards using newer technologies such as ArcServer to better maintain and distribute data. With current levels of eGIS funding this may not be possible, but it would be ideal.
- How would you describe eGIS in 2011?
  - Would like to see a greater awareness of eGIS and better utilization of the GIS technology.



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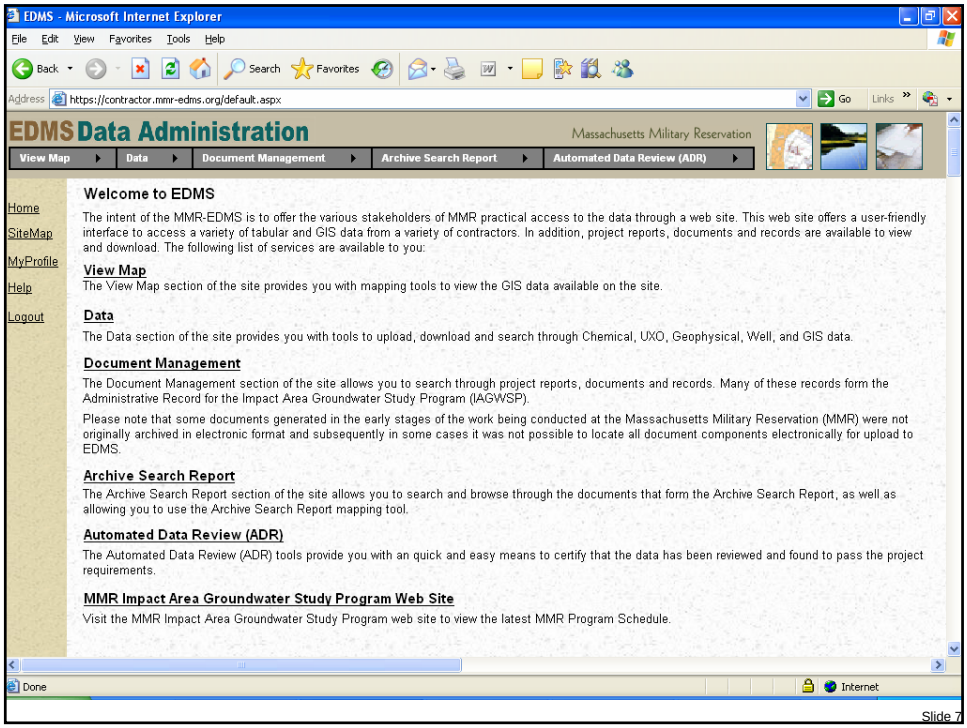
## Success Story 1 - NAE
## Massachusetts Military Reservation
## Environmental Data Management System

- Stores Tabular Chemical Data, GIS Data, and Documents
- Interactive Mapping of Sampling Locations, Contaminant Plumes, Basemap Features
- Password Protected. Accessible by Stakeholders Inside and Outside the Corps.
- Advanced Tabular Data Query and Report Functionality

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## Massachusetts Military Reservation - NAE Environmental Data Management System

- Managed and Hosted by Data Management Contractors Since 2002
- NAE GIS Staff would Like to host in-house, but needs IT and Database support and expertise to do so.

6/10/08

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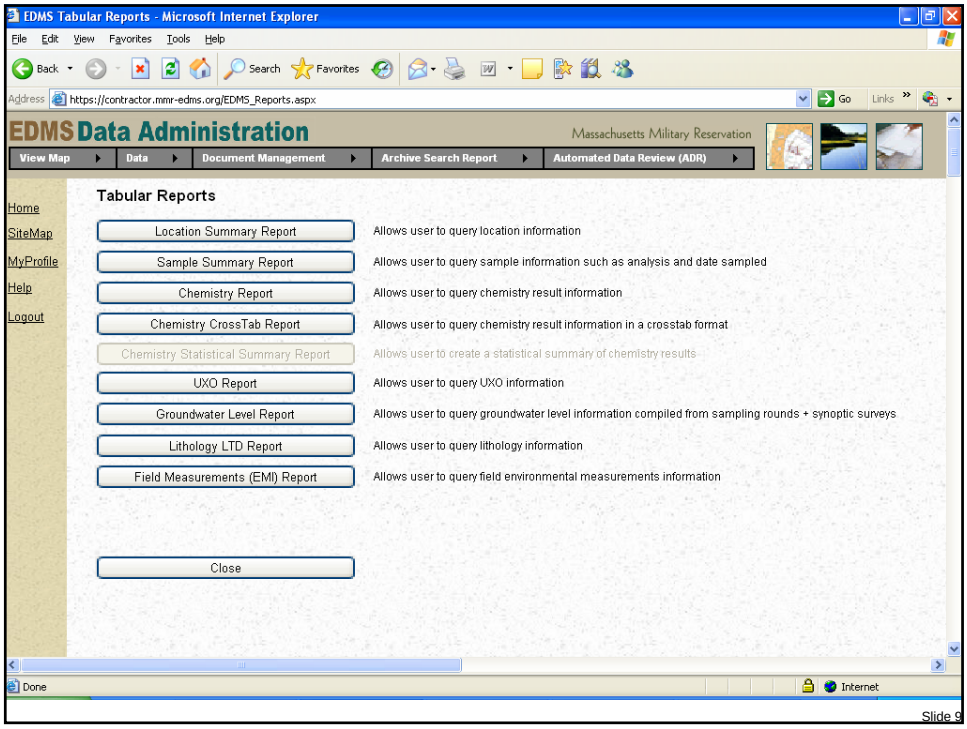
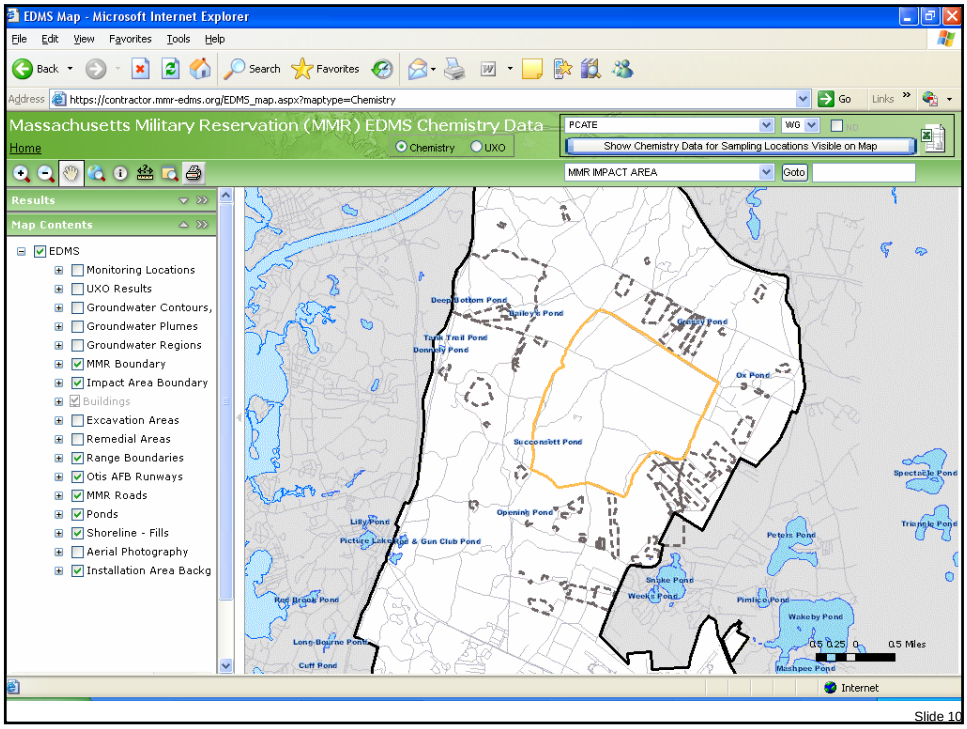



Slide 9

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# Biggest Challenges - NAE

- Deploying Simple to Advanced Project-Specific ArcGIS Server Applications Internally and Outside the Firewall
- Managing Large Complex Chemical Datasets in SQL Server or Oracle
- Managing and deploying complete Data Management and Mapping applications inside and outside the firewall



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# District eGIS Vision - NAE

- What will your district eGIS look like in 3 years?
  - Providing high-quality data and mapping interfaces to customers and stakeholders.
- How would you describe eGIS in 2011?
  - Sharing of select datasets with common SDSFIE attributes, to include Levees, Dams, and Navigation Projects.
  - The delivery of high-quality data and mapping interfaces to customers and stakeholders.

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# Success Story 1 - NAN

- NAN Inter-Agency EGIS Web-site for Piping Plover
  - Endangered and Threatened Species Monitoring Completed.
- Completed two new GIS License Agreements to support various geospatial projects in New York.
  - Rockland County
  - New York City Dept. of Planning
- CPN 100% - Completed during 3rd Quarter FY 08.



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# Success Story 2 - NAN

- NAN EGIS Web-site established for RSM & eCoastal. ECoastal Workshop provided to Inter-Divisional team members.
- Posted USACE EOC GIS Cadre for access by all NAD GIS CoP. (GIS Data Sets, Documents and Tools)
- Rolled up all district ESRI GIS Licenses under one Maintenance License producing savings of a few thousand dollars and completed coordination of GIS License acquisition and management in NAN.
- Successful implementation of field testing the recent Levee Inspection Tool.

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# Biggest Challenges - NAN

- Identify district challenges in the use of advanced GIS tools?
  - Defining Return-On-Investment of GIS Technology
  - Availability of Funding for various initiatives
- What are the **five** biggest challenges?
  - Changing existing business processes to embrace eGIS
  - Lack of structure (no true centralized GIS)
- What are the obstacles you must overcome?
  - Culture - i.e., Advised Project Management and Team members of the requirement to have Data Management Plans for all new project starts.



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# District eGIS Vision - NAN

- What will your district eGIS look like in 3 years?
  - Moving towards using newer technologies such as ArcServer to better maintain and distribute data. Current levels of eGIS funding (RF5022) may not support this goal.
- How would you describe eGIS in 2011?
  - Would like to see eGIS be a central enabling technology throughout the district.

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# Success Story 1 - NAO

- **Project:** Implemented a real-time link between Fort Lee's IFS real property database and GIS
- **Solution:** Provides a quick and easy way to display and analyze the status of work orders and services orders
- **Process:** Converted building polygons from CADD to GIS and connected them to the IFS Oracle database
- **Success Factors:** Customer had a need and funding and Norfolk District had the expertise to develop the application



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# Success Story 2 - NAO

- **Project:** Developed an intranet mapping system for RE Branch to more efficiently manage their outgrant program
- **Solution:** Allows the real estate specialist to graphically view the location of outgrants and efficiently access data from REMIS
- **Process:** Digitized outgrants from paper maps, converted them to polygons and linked them to REMIS database
- **Success Factors:** Customer had a need and funding and Norfolk District had the expertise to develop the application

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# Biggest Challenges - NAO

- Having potential customers recognize they have a need for geospatial services
- Obtaining the adequate funding for geospatial services
- Receiving District funding to develop and maintain eGIS
- Turning eGIS implementation from bottom up to top down influence



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# District eGIS Vision - NAO

- Every appropriate PDT will fund the services of a geospatial specialist.
- All geospatial data will be collected and managed IAW eGIS standards.
- Development and maintenance of eGIS will be adequately funded.
- Every functional element using geospatial data will employ GIS and share data through an eGIS infrastructure.
- Project managers will be held accountable for having and following data management plan requirements regarding geospatial data.
- The District will recognize GIS/eGIS as a critical function that must be adequately staffed and funded throughout the district.

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# Success Story 1 - NAP

- Susquehanna Flood Warning System
  - System was designed and developed by HEC, including a User's Guide providing technical support and system configuration. This initiative was very successful and useful in the county for which it was developed.
  - The User's Guide and support by HEC & NAP made it successful.
  - Steve Long/PM indicated updates to the system / user guide are planned. (Jason Miller provided Hands-On Technical Support.)
- CPN 100% - Completed during 2nd Quarter FY 08.



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# Biggest Challenges - NAP

- What are the **five** biggest challenges?
  - ACE-IT transition
  - ESRI tech support is slowed down by our network, it seems to me that ESRI tech support (while as helpful as they can be) can't readily answer our problems over the phone.
  - ESRI / ACE-IT tech support underestimates the complexity of our network and the security requirements. On-site visits which should be completed within a couple of hours often require an entire day's time to identify and solve.
- What are the obstacles you must overcome?
  - Our obstacles remain the same...we have a lot of responsibility to meet metrics but no real authority.

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# District eGIS Vision - NAP

- What will your district eGIS look like in 3 years?
  - With proper support and funding, hope to have web-based searchable database that people use daily.
  - Design, improve and implement established eGIS based business processes, which better support eGIS Goals.
  - Improve existing technology capabilities such as ArcServer at the district to better enhance distribution and maintenance of geospatial data.



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# North Atlantic Division

**Thank You ~ Questions?**