



Overview of GIS Mapping

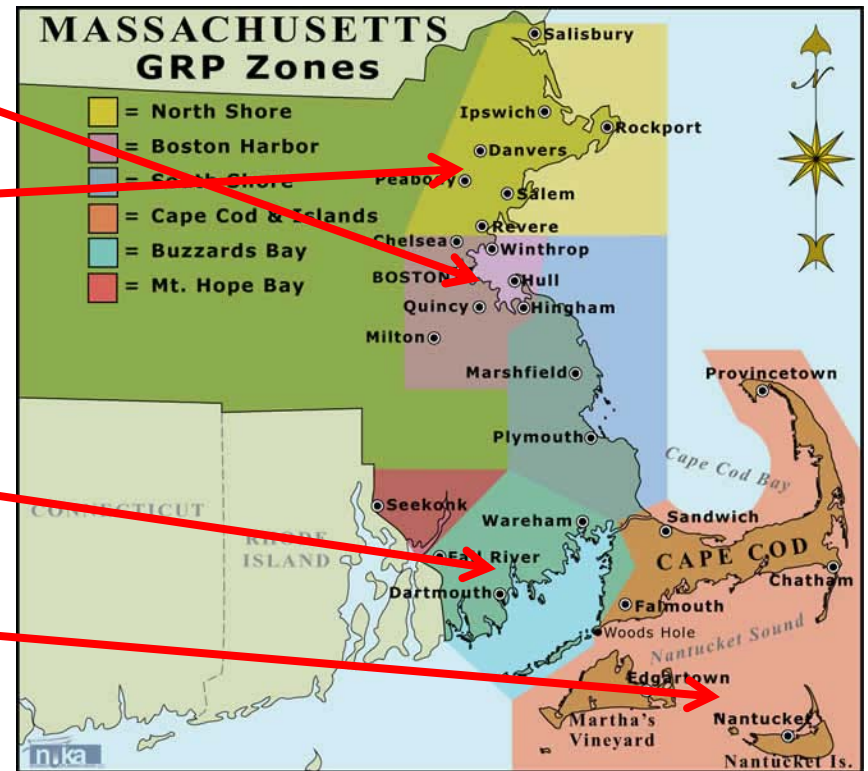
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What is ArcGIS? Why use it?

- ▶ Mapping software with wide variety of uses.
- ▶ Used to make maps, perform spatial analysis and build spatial databases.
- ▶ Great tool for responders.
- ▶ Data is easily manipulated and updated.

How have we used ArcGIS?

- ▶ In 2010, mapped 18 sites in Boston Harbor
- ▶ Mapped all 34 sites from the North Shore GRP in 2009
- ▶ Re-mapped all of Buzzards Bay (55 sites) and the Cape & Islands (29 sites)

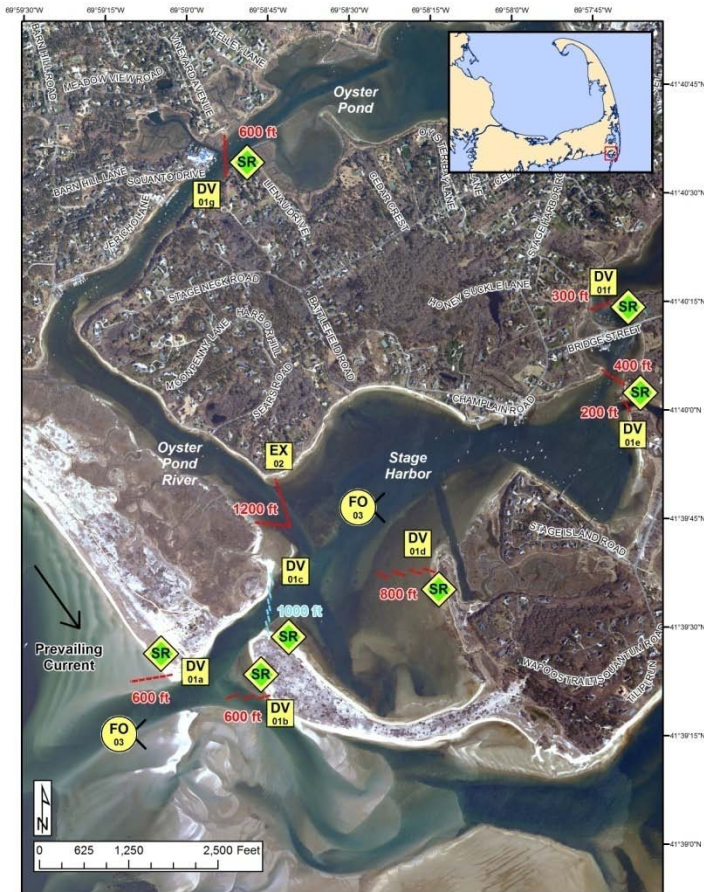


What are the benefits?

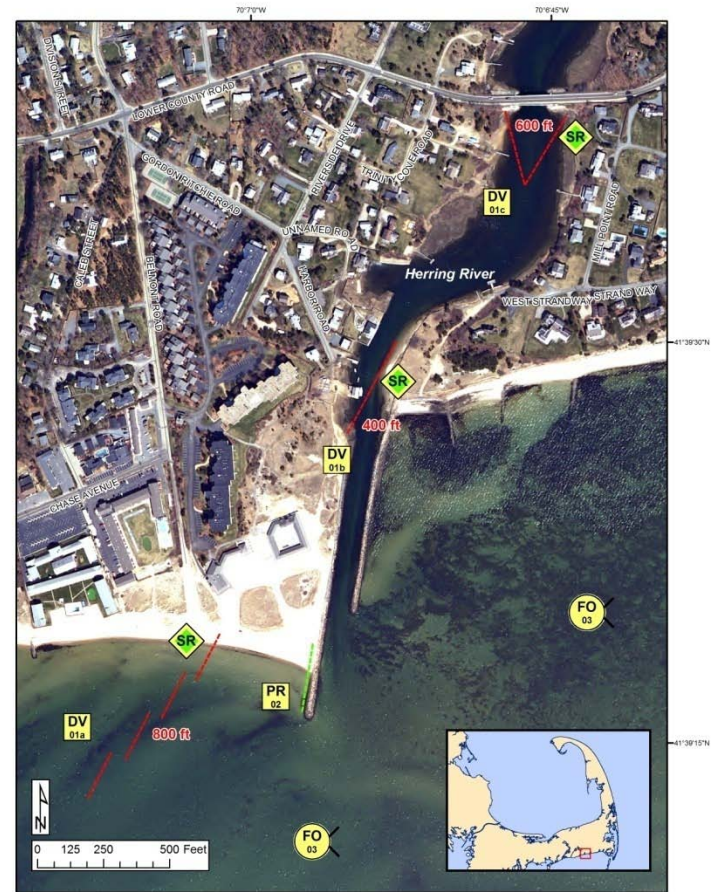
- ▶ Features are drawn to scale. (ex., all Protected–Water Boom)
- ▶ A user can add data and layers from other sources. (ex., watershed areas, historical locations, boat ramps)
- ▶ A user can query the data.
- ▶ Easy to determine resources required for large areas.

Scenario:

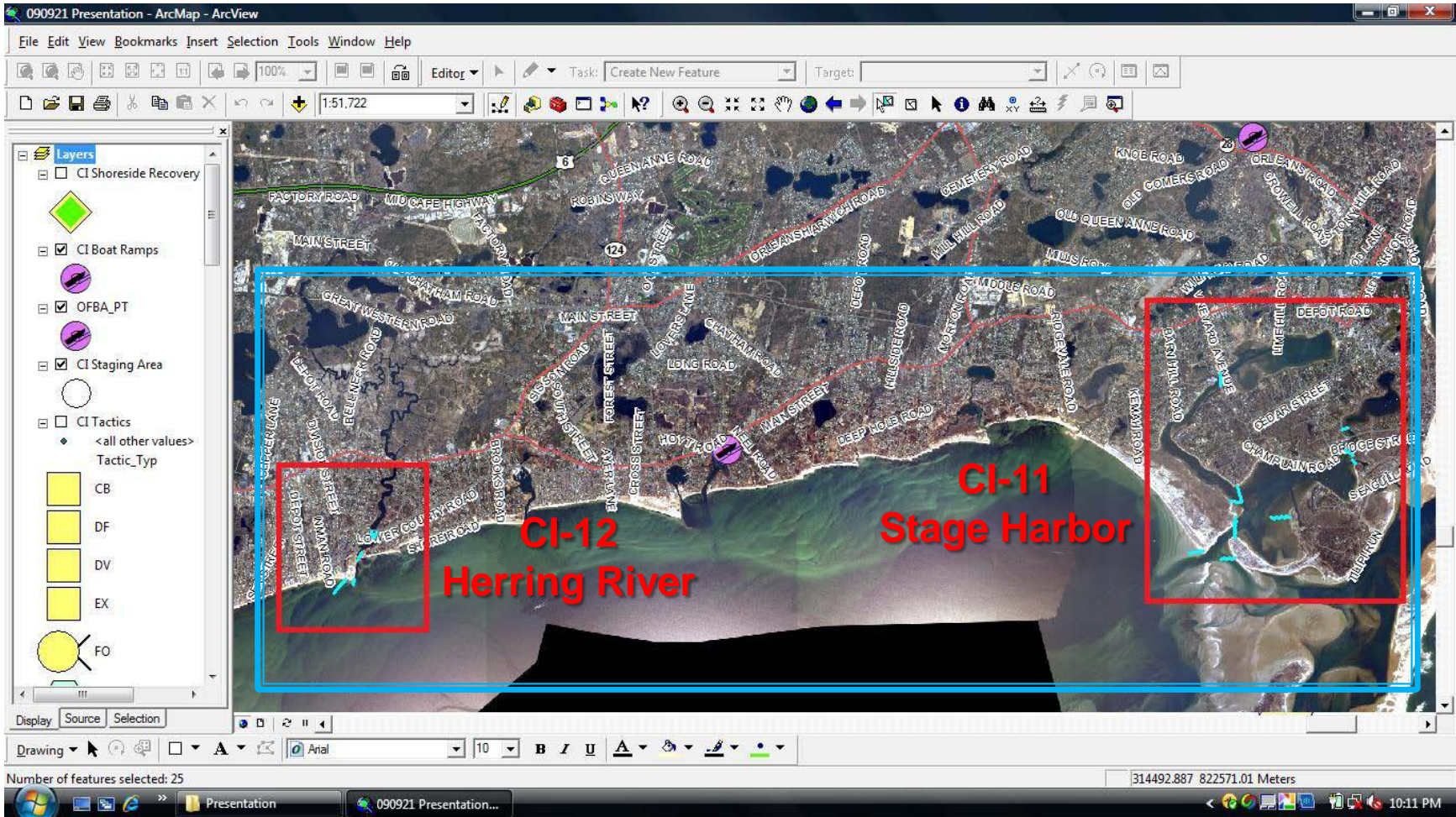
An oil spill affects 2 GRP sites in the Cape & Islands



CI-11 Stage Harbor



CI-12 Herring River



090921 Presentation - ArcMap - ArcView

Select By Attributes

Layer: CI Booming Strategies

Method: Create a new selection

Attributes: "FID", "Id", "Type", "bLength"

Logical Operators: =, <>, Like, >, >=, And, <, <=, Or, %, (), Not, Is

Field List: 'BB', 'EPWB', 'PWB', 'SSB'

SQL Query: SELECT * FROM CI Booming Strategies WHERE: "Type" = 'PWB'

Map View: Aerial view of a coastal area with street names (e.g., QUEEN ANNE ROAD, MAIN STREET, DEPT ROAD) and a red dashed line indicating a selected area. A yellow circle highlights a specific feature.

Legend: EX (Yellow square), FO (Yellow circle with slash)

Status Bar: 313767.588 827839.696 Meters

Taskbar: Windows taskbar showing 'Presentation' and '090921 Presentation...' windows, system tray with time 10:13 PM.

090921 Presentation - ArcMap - ArcView

File Edit View Bookmarks Insert Selection Tools Window Help

Select By Attributes...
Select By Location...
Select By Graphics...
Zoom To Selected Features
Pan To Selected Features
Statistics...
Set Selectable Layers...
Clear Selected Features
Interactive Selection Method >
Options...

Layers

- CI Shoreside Recovery
- CI Boat Ramps
- OFBA_PT
- CI Staging Area
- CI Tactics
 - < all other values >
 - Tactic_Typ
 - CB
 - DF
 - DV
 - EX
 - FO

314342.354 829591.363 Meters

Displays statistics for the selected features

090921 Presentation... attributes - Paint 10:13 PM

