MA-ShellfAST
Components, Platform, Data

This information can be found in the MA-ShellfAST Technical Report listed on the Home page.
Components

- **Home Page**
  - Background information, links to documentation, tutorial, instructions, links to the Viewer

- **Viewer**
  - The tool
Platform

- **ArcGIS Online**
  - Environmental Systems Research Institute (ESRI) cloud-based mapping platform
  - Homepage: Story Map Cascade Template
  - Viewer: Web AppBuilder for ArcGIS
- **Currently all hosted on the Anderson Cabot Center for Ocean Life at the New England Aquariums ArcGIS Online Account**
Live tool demo

shellfast-ma.com
Challenges & Constraints

This information can be found in the MA-ShellfAST Technical Report listed on the Home page.
Out-of-the-box vs. Customization

Out-of-the-box

Advantages
• No coder needed
• Can host on ArcGIS Online hosting platform
• Programming language updated as new versions released

Disadvantages
• Little options for application customization
Out-of-the-box vs. Customization

Customized

Advantages
• You have more options in customizing your Application
  • Configuration of tools, widgets, layouts, colors, etc.

Disadvantages
• Need to host yourself (not with ESRI)
• A coder/developer would be needed
• As new versions of programming language are released, it would need to be updated
• Continuous funding would be needed
Datalayers

- How many and what layers to include
  - Advisory Committee
  - Keep it as simple as possible
- How to organize those layers
  - Viewer template used does not allow for layer grouping or nesting
  - Layers drawn in order they are listed in the Layer List
  - Example: Resources to Avoid; 5 separate layers were combined into one
- Technical Constraints
  - http or https: mixed content, sometimes layers won’t load
- How to keep layers updated
Funding, Hosting and Tool Migration

• **Funding**
  • Needed for initial tool development, but also need additional funding to keep tool running after initial development
  • Cost: Server where tool is hosted (ArcGIS Online Account or alternative webserver)
  • Cost: Developer updating tool if customized or adding new or updated layers when available
  • Cost: Time for user support (contact person addressing technical problems/questions)

• **Hosting**
  • Transfer application to organization/agency that has resources to maintain it
  • Would be helpful to know who so during development understanding how to move application, datasheets, and supporting documentation without ‘breaking’ it

• **Service Plans**
  • Currently MA-ShellfAST does not have an adoptive organization or future funding for tool maintenance
MA-ShellfAST Development

- **Out-of-the-box template**
  - Would last the longest without more funding
- **Datalayers**
  - Linked to as many service layers hosted by other organizations/agencies as possible
    - Keep data updated
  - Example: Eelgrass.
    - We could host *Eelgrass - Historic* data
      - not going to change, doesn’t need updating
    - Link to *Eelgrass - Current* data
      - Northeast Ocean Data Portal - service updates as new data is available
Tool Design & Instructions

Who is the target audience?
• (1) Potential Shellfish Farmers
  • Where in the process are they?
    • Already know where they want to site and want to verify?
    • Going in blind looking for a site?
  • Computer savvy?
• (2) State or local regulatory/permitting agency or extension professional

• Included:
  • User Instructions
  • Pop-up info for each datalayer and how to use it
  • Tutorial Video
  • Help Section