**SEAGLASS IS** an API-based system for creating custom geospatial data analysis and visualization tools for the web. It allows you to streamline analysis workflows involving point, track, polygon, and raster data. You can visualize data, analyses you perform, indices you calculate from data, and output from models that utilize data from **Seaglass**.

**Seaglass** exists for everyone, including specialists in water quality and aquaculture, their stakeholders, funded PIs, and artists.

**MOTIVATION**
- Expressed need by NGOs, private companies and funded researchers for cutting-edge solutions to data management and analysis issues
- Expressed need by local communities for increased access to more datasets

**GOALS**
- Significantly improve workflows for data retrieval, analysis and scientific dissemination; reduce staff time required for tasks, eliminate some tasks, and create new tools for better utilization of data
- Enable users to access a greater variety of data types
- Provide virtual computing space for user-provided code
- Increase impact of data on stakeholders through increased access and effective presentation

**PROCESS**
- Collaborated with staff, funded researchers, outreach professionals, and artists to identify the most effective features
- Utilized popular, open-source web technology, and flexible, scalable storage
- Ensured cross-platform / cross-device compatibility and customizability

**USERS**
- Town of Nantucket, MA
- Town of Falmouth, MA
- Town of Mashpee, MA
- Sea Grant-Funded Researchers
- MA teachers and students
- MA Water Resources Authority
- MA Division of Marine Fisheries
- NOAA Fisheries

**IN THE BACKGROUND**
Seaglass visualization of SST and Argo profiler tracks. Eight panes of 8-day averaged sea surface temperature (SST), derived from satellite measurements throughout 2017, were blended together into a single frame using a thermal color palette. Clouds block satellite measurement of SST and are represented in each pane as transparent. Argo ocean profiler tracks spanning multiple years are shown as grey lines, and are a function of surface and deep ocean currents.