

## Wave 2 Tool Development

**Objective:** Identify tools required to promote the efficient and effective development & application of ocean & coastal mapping to support informed decision-making.

### Stages/Tasks:

- Tools for successful “Geospatial One-Stop (GOS)”
  - Registry/inventory/catalog of **desired, proposed** (new), planned, and completed data collection activities most important
  - “Wish List” & recommendations for GOS to be provided by all users/participants to the existing Technical working group
  - Develop more formal mechanism for constant user input & feedback – accept feedback, respond and report in input
  - Demonstrate usability & functionality to stakeholders - Marketing
  - Request “peer review” of 15 March report
- Tool Blog (possibly OCM website, or GOS)
  - Folks can communicate common needs for tool development and usage and leverage off each others’ resources
  - Inventory of existing resources
- Tools for foundation data integration/interoperability (Bathy/Topo), such as:
  - Seamless Vertical Datum transformation (“Vdatum” is possible initial effort)
  - Seamless, multiple resolution horizontal grid integration
- Tools for primary product generation, such as
  - Bathymetry
  - Elevation
  - Backscatter
  - Currents
  - Temp
  - Salinity
  - Sub-bottom
- Tools for primary derivative data/information/products, such as
  - Land classification
  - Seafloor classification
  - Roughness
  - Rugosity
  - 4D visualization of environment
- Tools for decision-making products, such as:
  - Sediment transport paths
  - Species-specific habitat map
  - Inundation models
  - Risk-vulnerability
- Tools for sensing in current shallow water (~0-10m) “gap”

## Wave 2 Tool Development

**Team Resources:** Existing infrastructure (IWG-OCM, GOS, JSOT) in some cases; current resources of each agency that can be leveraged.

**Success Factors:** Facilitates decision making – decision makers want more; Partnerships created (federal, state, local, academic, private, constituency groups) to share resources and promote improved, collaborative tool development

**Challenges:**

Current GOS functionality and reputation in some circles

Agency buy-in to load data (carrot/stick) – do we need to make people do it or do we rely on data producers to do it because it works well and is the right thing to do.