Beneficial Uses

Capping
- Water Column
- Cap
- Contaminated Sediment

Marsh creation

Shellfish & SAV habitat

Beach nourishment

Thin-layer placement

Island restoration
Beneficial Uses

Capping
- Water Column
- Cap
- Contaminated Sediment

Marsh creation

Shellfish & SAV habitat

Beach nourishment

Thin-layer placement

Island restoration
Resiliency with Dredged Material

Ferry Point Park (2014)

- Dredged material for living shoreline restoration
- Improved public access
- Improved coastal resilience
- Saved $1.4 million through reduced transportation and fill costs
Dredged Material Placement Policy

Intra-Department Meetings

- 25 people across DNR
- 11 units
- Goals:
  - Finalize policy
  - Develop guidance
  - Develop communication plan
Dredged Material Placement Policy

Policy provides:

- Purpose & scope
- Hierarchical ranking
- Required conditions
- Procedure for placement requests
Complementary Guidance

**DRAFT**

**Beneficial Use of Dredged Material Planning Process**

- BU: Beneficial Use
- DMP: Dredged Material Placement
- MDE: Maryland Department of the Environment
- MDNR: Maryland Department of Natural Resources
- TOY: Time of Year
- USACE: United States Army Corps of Engineers

**Review the DNR policy, “Dredged Material Placement on State-Owned Resources Managed by the Department of Natural Resources” before using this guidance.**

**DREDGING START**
- Determine dredge volume, grain size, and quality.
- Is the dredged material chemically and physically suitable for BU based on the MDNR Innovative Uses and Beneficial Use Dredged Material Guidance? Consult MDE for assistance.
- Consider re-designing BU project, or place dredged material in DMP site and consider for innovative reuse.
- Are dredging and restoration sites volumetrically, spatially, and temporally aligned, and are dredging and placement methods cohesive?
- Can the project want or volumes be adjusted?
- Will placement site benefit environmentally from the available quality of dredged material? Are water effluent discharges being considered? Engage MDNR Environmental Review for assistance.

**RESTORATION START**
- Identify project site and contact the property manager.
- Evaluate the site:
  1. Perform a desktop analysis to define site characteristics.
  2. Visit site to find opportunities & challenges.
  3. Demonstrate site restoration need.
- Identify project goals and partners. Estimate costs and identify funding sources.
- Evaluate the project to determine if BU may apply.
- Is the dredged material chemically and physically suitable for BU based on the MDNR Innovative Uses and Beneficial Use Dredged Material Guidance and project goals?
- Can the project want or volumes be adjusted?

**ENVIRONMENTAL REVIEW START**
- Does the proposed project intent to beneficially use dredged material?
- Evaluate the project to determine if BU may apply.
- Is the dredged material chemically and physically suitable for BU based on the MDNR Innovative Uses and Beneficial Use Dredged Material Guidance?
- Will the placement site benefit environmentally from the available quality of dredged material? Are water effluent discharges being considered?
- Move forward with restoration project without incorporation of BU.
- If dredging project, recommend for innovative reuse.
### Spatial Alignment

**Table: Beneficial Use - Identifying Locations for Dredge**

<table>
<thead>
<tr>
<th>County</th>
<th>LAT</th>
<th>LONG</th>
<th>Sediment_T</th>
<th>State_Publ</th>
<th>Local_Publ</th>
<th>Anticipate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anne Arundel</td>
<td>38.946294</td>
<td>-76.464262</td>
<td>Sand/Silt</td>
<td>No</td>
<td>No</td>
<td>Winter '19/20</td>
</tr>
</tbody>
</table>
BU Prioritization and Identification

Lower Wicomico

Kent Narrows
BU Prioritization and Identification

SUITABILITY MAP OUTPUT
Kent Narrows

Landform Parameter  Dredge Proximity Parameter  Beneficial Use Parameter  Coastal Risk Parameter
BU Prioritization and Identification
Pilot projects

Selsey Road

Hurst Creek

Maryland's Community Resilience Grant Program
2018 PROJECT SOLICITATION
Looking forward

Continuing to proactively identify BU opportunities
And prioritize BU placement based on resiliency needs

Looking forward
Thank you!

Questions?  jackie.specht@maryland.gov
BU Prioritization and Identification

CRAB ALLEY NECK NORTH | BENEFICIAL USE STRATEGIES

Beach Strategies
- Beach Nourishment / Faeoloe Farm
- Geotube Barrier

Open Water Strategy
- Confined Aquatic Disposal (CAD) and/or
- Living Breakwater

Marsh Strategies
- Wetland Buffer and/or
- Hybrid Living Shoreline / Marsh Silk