Welcome!

The webinar will begin shortly.

December 10, 2015
The Watershed Resources Registry

Andrew Wimsatt, Moderator

December 10, 2015
AASHTO Innovation Initiative (A.I.I.)

Dedicated to sharing...
- High payoff,
- Market-ready technologies

Accelerating adoption of innovation among...
- Peers in U.S. transportation agencies

aii.transportation.org
Welcome to the AASHTO Innovation Initiative Webinar on Bridge Expansion Joint Systems. Please mute the speakers on your computer to minimize feedback. We will start the webinar shortly.

Q: Hello, this is a question. What are bridge expansion joints?
Welcome to the AASHTO Innovation Initiative Webinar on Bridge Expansion Joint Systems. Please mute the speakers on your computer to minimize feedback. We will start the webinar shortly.

Q: Hello, this is a question. What are bridge expansion joints?
Today’s Presenters

- **Bill Seib**, Regulatory Branch Chief, USACE, Baltimore District

- **Ralph Spagnolo**, Watershed Program Manager, US EPA Region III

- **Donna Buscemi**, NEPA Team Leader, Maryland State Highway Administration

- **Theresa Foye**, GIS Specialist, Maryland Environmental Service

- **Sandy Hertz**, Deputy Director, Office of Environmental Design, Maryland State Highway Administration
WRR Webinar Agenda

- WRR Overview – Corps Perspective
- WRR Overview – EPA Perspective
- WRR Overview – DOT Perspective
- Tour of the WRR Website and Application
- Wrap-Up and Q/A Session
WRR Overview – Corps Perspective

Bill Seib
US Army Corps of Engineers, Baltimore District
Items to Consider

1. Cost
2. Implementation & Consistency
3. Learning Curve
4. Training
5. Expansion – e.g., PA, DE, etc.
WRR Overview – EPA Perspective

Ralph Spagnolo
US EPA Region III
What makes the WRR unique?

- CWA 303(d), 319, 401, 402, 404
  - Watershed planning, permit review, mitigation assessments
  - TMDL and WIP applications
  - Stormwater management
- Resource conservation/ environmental resource planning
- Green infrastructure opportunities
- ESA Section 7 (threatened/endangered species)
- NEPA project reviews
WRR Overview – DOT Perspective

Donna Buscemi
Maryland State Highway Administration
WRR Background

- Green Highways Partnership Pilot Project
- Watershed approach & GIS technology used to locate and prioritize areas for quality natural resource protection and restoration of impaired resources
- Holistic understanding of Maryland’s resources available through the public website – watershedresourcesregistry.com
Need for WRR in Maryland

- Address 2008 Compensatory Mitigation Rule
  - Integrates multi-agency programs (CWA, NEPA, resource conservation, TMDL implementation, etc.)
  - Fosters data and resource sharing among agencies
  - Facilitates multi-agency input and coordination
Need for WRR in Maryland

- **Do More with Less**
  - Saves time and $, and increases program efficiencies
  - Screen for preferred actions
  - Maximizes watershed benefits
## Estimate of Potential Mitigation Savings

<table>
<thead>
<tr>
<th>Task</th>
<th>Cost without WRR</th>
<th>Cost with WRR</th>
<th>Cost Savings with WRR</th>
<th>Time without WRR</th>
<th>Time with WRR</th>
<th>Time Savings with WRR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Search</td>
<td>$50,000</td>
<td>$15,000</td>
<td>$35,000</td>
<td>6 months</td>
<td>2 months</td>
<td>4 months</td>
</tr>
<tr>
<td>Design</td>
<td>$400,000</td>
<td>$355,000</td>
<td>$45,000</td>
<td>18 months</td>
<td>15 months</td>
<td>1 to 3 Months</td>
</tr>
<tr>
<td>Agency Coordination/Regulatory Review</td>
<td>$8,000</td>
<td>$5,500</td>
<td>$2,500</td>
<td>6 months</td>
<td>4 months</td>
<td>2 months</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$458,000</strong></td>
<td><strong>$375,500</strong></td>
<td><strong>$82,500</strong></td>
<td><strong>30 months</strong></td>
<td><strong>21 months</strong></td>
<td><strong>7 to 9 Months</strong></td>
</tr>
</tbody>
</table>

*Cost/time savings includes only mitigation site approval tasks and does not include construction phase. Agency savings as shown includes their role in Site Search and Design approvals.*
Additional Applications

- The WRR Supports:
  - Green Highways Partnership
  - Green Infrastructure
  - Climate Change
  - Eco-Logical
  - NEPA Planning Process
  - TMDL Implementation
Pulling & Keeping Together a Team

- Shared Goals
- Gain Agency Commitments
- Include GIS Practitioners
Eight Suitability Analyses

1. Preserve Wetlands
2. Restore Wetlands
3. Preserve Riparian Zones
4. Restore Riparian Zones
5. Preserve Uplands
6. Restore Uplands
7. Preserve Healthy Stormwater Systems
8. Restore Degraded Stormwater Infrastructure Systems and Areas
Suitability Analyses Development

- Determined Relevant Data
- Discussed Watershed Need
- Developed Criteria
- Documented and Tracked Key Decisions
Riparian Preservation
Tour of the WRR
Website & Application

Theresa Foye
Maryland Environmental Service
Wrap-Up and Q/A Session

Sandy Hertz
Maryland State Highway Administration
How Can We Help?

- Regional Workshops
- Hands-On Technical Assistance
- Webinars
Next Steps for the WRR

- National rollout with support from AASHTO Innovation Initiative
- Redeployment of the application website to allow for multi-platform use
- Continued UAT
- Model enhancements as new data comes available
Thank you!

“Coming together is a beginning; keeping together is progress; working together is success.”

Henry Ford
Question & Answer Session

AASHTO Innovation Initiative

Watershed Resources Registry
Contact Information

Bill Seib, William.Seib@usace.army.mil

Ralph Spagnolo, Spagnolo.Ralph@epa.gov

Donna Buscemi - DBuscemi@sha.state.md.us

Theresa Foye, TFoye@menv.com

Sandy Hertz, SHertz@sha.state.md.us