PROBLEM

- USACE manages 12 million acres of public lands and waters nationwide (> 400 lake/reservoir projects in 43 states) making it the largest Federal agency providing recreational activities
- With 41,200 miles of shoreline to manage, erosion and sedimentation is a major issue
- Management challenges include decreased flood risk management capabilities due to reduction in reservoir storage and filling of navigation channels downstream

SOLUTION

- Assess and identify sediment reduction priorities
 Assess and enhance existing shoreline NNBF
- Use natural processes and materials to improve shoreline NNBF applications for stabilization and habitat alternatives

IMPACT

- Reduces impacts to reservoir, downstream FRM and habitats
- Applications consistent with EWN using natural processes and materials
- Produces multiple benefits with sediment reduction, stabilization, FRM and habitat enhancements



Reservoir Sedimentation and **ustainability**

WHAT'S NEXT

Current applications to be assessed in the field with innovative project construction to provide new EWN technologies for reservoir management

APPLICATIONS

- channels

STATUS

- concepts

BENEFITS

• EWN applications meet USACE goals for sustainability and resilient design goals Current clients and end users will use new technologies to meet mission execution requirements • Reduction in sediment delivery to reservoir pool and downstream navigation and flood risk management

Document existing practices and assess new EWN technologies with new projects being constructed • Field assessments scheduled for FY22 • Products will include technology transfer products including videos, technical reports and new design

• Implementing EWN in practice • Broadened spectrum of benefits • Best practice: sediment reduction • Framework for reservoir applications Provide a suit of low-cost NNBF alternatives