### DOER FY13 IPR

# EWN In-Action Demo - Atchafalaya River Island Creation (Suedel)

#### Problem

- CEMVN is using dredged material to nourish a small naturally forming island, yet our understanding of how and why the island formed is lacking.
- Monitoring data are needed to quantify and improve the District's understanding of the maturation of this beneficial use of dredged material within the Atchafalaya Basin.

#### Objective

 To document how a river island was successfully created at Horseshoe Bend using dredged material in a beneficial manner, taking advantage of the natural hydrological processes inherent in the system.



#### Approach

 Hydrologic, geomorphologic and biologic monitoring studies and high resolution aerial mapping will be performed to determine the river hydrology necessary to create the island via transport from upstream dredged material mounds and the introduction and the establishment of riparian and wetland vegetation and wildlife on the island.

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Project Funding by Year

- FY13: \$125K

- FY14: \$200K

- FY15: \$210K

- Major Project Deliverables
  - Tech Report: Using dredged material and nature to create river island habitat in coastal Louisiana
  - Project Fact Sheet



- Benefits to Navigation Program
  - Needed so this concept can be integrated into other dredging projects in southern LA and elsewhere along the Gulf coast, thereby providing substantial environmental and other benefits as part of ongoing maintenance dredging activities.

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- FY13 Products (categories)
  - Collaboration with CEMVN (historical data, island access, etc.)
  - Collaboration with USGS (aerial imagery)
  - Collaboration with Port of Morgan City (staging area)
  - ERDC Technical Report: Using dredged material and nature to create river island habitat in southern Louisiana
  - EWN Fact Sheet: Atchafalaya River Island Creation Project

\*The listing of products provided on this slide should be supported with a one-page Word document that provides a description and the particulars for each product. An electronic version of this document should be provided along with the ppt file to Kelly Christian by 2 August. Collaborations and interactions with others (in and especially external to ERDC, should be described, when relevant, for all products