

# EWN In-Action FY13 IPR

## 21<sup>st</sup> Avenue West Living Shoreline

### Duluth-Superior Harbor- Joe Kreitinger

- Problem

- Maximizing habitat value while minimizing DM placement costs for RSM 204 project
- Shallow water placement of dredged material



- Objectives

- Identify engineered and natural processes for DM placement that meet habitat restoration goals
- Evaluate construction techniques during pilot demonstration
- Provide EWN design information for full-scale 204 project

- Approach

- Determine consensus desired habitat characteristics
- Monitor effectiveness of pilot construction methods
- Model shallow water placement/resuspension
- Develop EWN design basis for full scale plans & specs

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- Planned Funding by Year

	ERDC	LRE
– FY13:	\$160	\$1,400
– FY14:	\$115	\$1,400
– FY15:	\$150	\$1,400



- Major Project Deliverables

- Annual project factsheets
- Annual project presentations to GLDT and local HTAC
- SLR Estuary shallow water sediment resuspension/transport model
- Final project report providing EWN design basis

- Benefits to Navigation

- Long-term DMM solution for critical GL harbor.
- Strategic EWN demonstration BU for MN, WI and other GL states
- Development of shallow water construction /modeling techniques

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- FY13 Products
  - PMP
  - Fact sheet