



You might be an RSM'er if:



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- There are Ops managers that won't make eye contact with you.
- You have at least one vial/baggie of sand/sediment in your office
- You think normal O&M is so 1980
- You've experienced full fledged Federal Standard paranoia at least once



You might be an RSM'er if:



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- You get extremely annoyed, but have given up correcting people who call RSM RMS.
- You have heard Katie Brutsche' sing karaoke
- You can squeeze more work out of a \$50K RSM proposal than most PMs can get out of a \$500K set up P&S
- You've wondered, even once, if "the wall" could be built out of dredged sediment.

RSM Center Update

RSM IPR
Portland, Oregon
16 May 2017

By: Jackie Keiser, PG,PMP
Director, RSM Center
South Atlantic Division/Jacksonville District



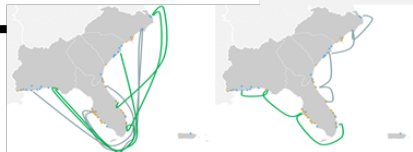
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U.S. ARMY CORPS OF ENGINEERS | Jacksonville District



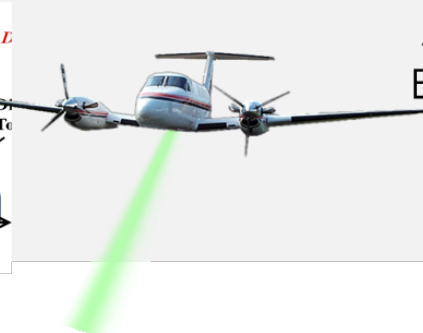
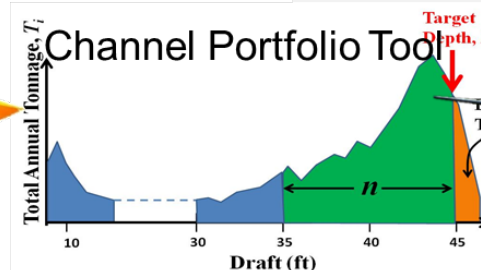
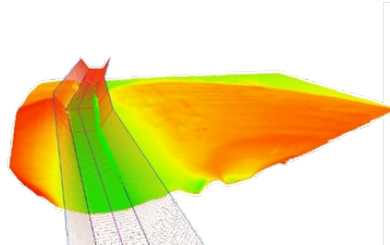
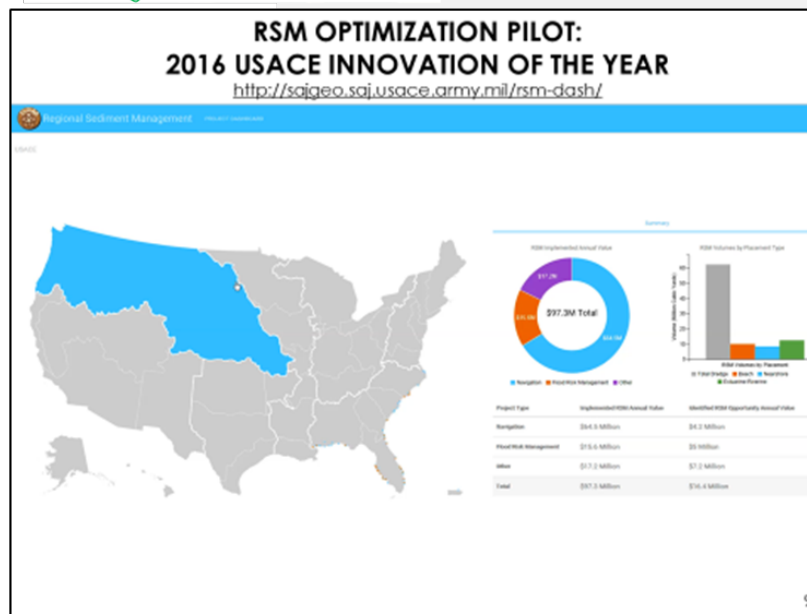
RSM: INNOVATION TO IMPLEMENTATION



Authorities
NAV
FRM
ECO

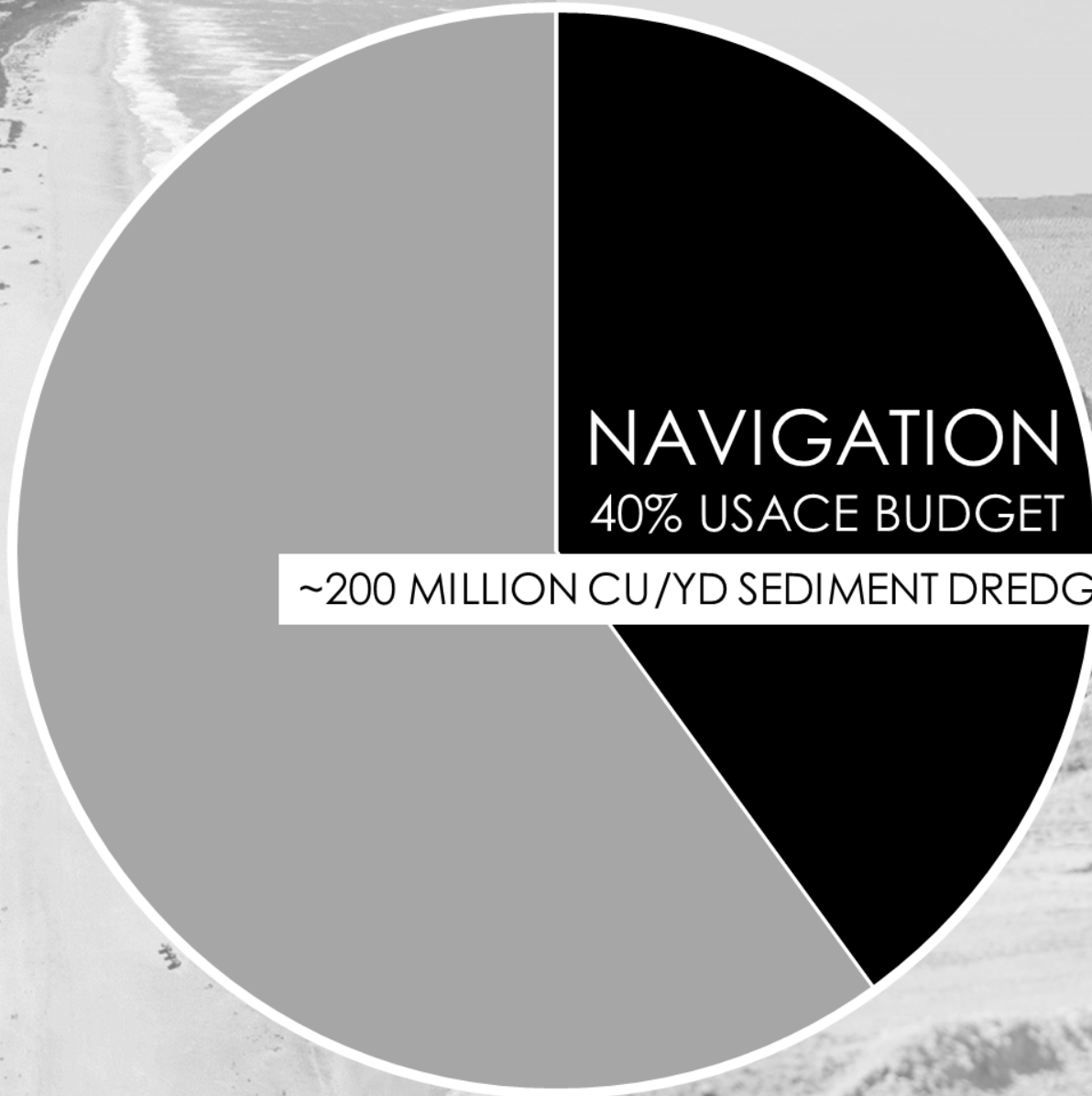
Funding
NAV C, O&M
FRM C
ECO C
NON-FED

Execution
COSTS
SCHEDULE
PERMITS
QUANTITIES
SEDIMENT TYPE
ENV. WINDOWS
INTERVALS
DESIGN



6

SEDIMENT: ASSET OR LIABILITY?



~200 MILLION CU/YD SEDIMENT DREDGED ANNUALLY

Outreach- RSM University: Thin Layer Placement Series:

1. USACE internal – December 2016
2. USACE/Regulatory – April 2017



- Conference Presentations
- Publications/Press releases
- Stakeholder engagements
- District Assistance





Optimization Continues!



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- SAD
 - ▶ FY19 budget linkages
 - ▶ Kick off of Optimization pilots
 - ▶ “Living” DMMP
- NAD
 - ▶ Data entry wizard
 - ▶ Enhanced data integration
 - ▶ September 2017 completion
- Who's next??



**BASELINE
ANNUAL
PROGRAM
\$250M**



**OPTIMIZED
ANNUAL
PROGRAM
\$250M**



Extreme MAKEOVER

DREDGING PROGRAM EDITION

**71% MORE
PROJECT EXECUTION**

Sustainable projects
More resilient coast
Healthier systems



FIXER UPPER: RSM Edition



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Added Value: Millions!





SAD Optimization Part II



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- Optimization is about understanding and communicating value
- Next step is to go after unrealized potential
- SAD Pilots established to take optimization to the next level
 - ▶ Brevard Co SPP/Canaveral O&M
 - ▶ Jekyll AIWW
 - ▶ Folly River/Beach
 - ▶ Kings Bay Fernandina Inner Channel
 - ▶ Brunswick Harbor
 - ▶ Regional Contract
- SAD Focus Areas
 - ▶ TLP and In water placement
 - ▶ Nearshore feeder berms
 - ▶ Turbidity/Fate of fines
 - ▶ Mitigation Credit
 - ▶ Ecosystem Value
 - ▶ Industry Collaboration



Sediment Sorting During Coastal Restoration Projects: Implications for Resource Management, Environmental Impacts, and Multiple Use Conflicts



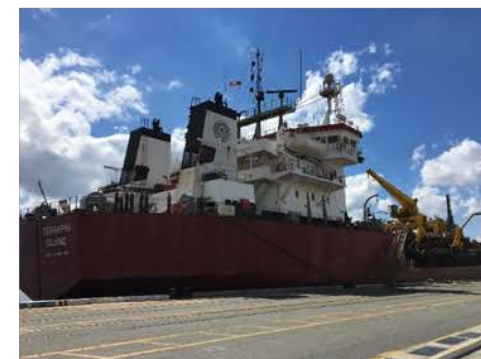
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Collaborative funded and supported by Bureau of Ocean Energy Management (BOEM), RSM Program, SAJ, SAD, ERDC, GLDD

Implications: Expansion of available sediment sources in OCS lands and other coastal environments including beneficial use of Navigation dredging material
Building on previous efforts at Egmont Key

2 Year Study initiated October 2017

Literature review complete, laboratory tests nearly complete, currently developing summer field schedule





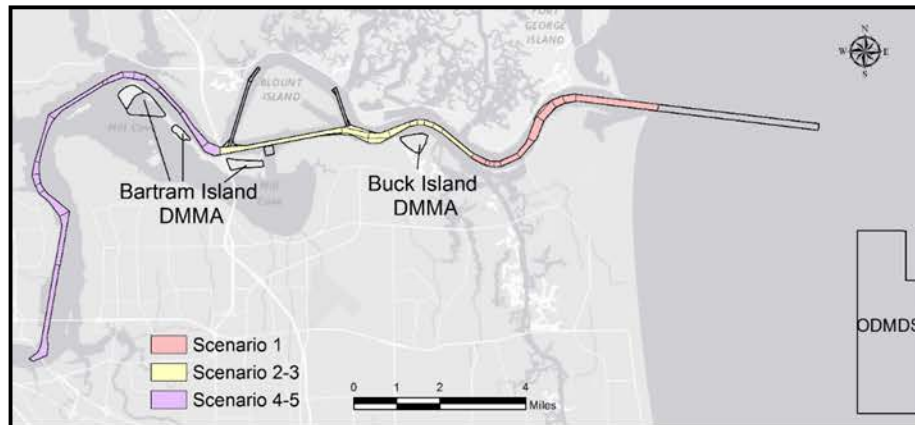
True Cost of Dredged Material Management: Jacksonville Harbor Case Study

John Childs, Tony Ledford, John Bearce, Eric Summa et al.



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- FY16 RSM Proposal, TN In-Review
- Purpose: Develop standard methodology for quantifying and calculating the true cost of dredging and dredged material management



- True Cost = Direct Costs + Incidental Costs (Life-Cycle Costs)
- Incidental Costs: \$0.10 (ODMDS) - \$2.79 (DMMA) per CY
- For Jax Harbor: Approximately 10 – 15% of Direct Costs
- Take Home: Life-cycle costs of projects are significant and should be included in analysis of Federal Standard determination
- Next Steps: Expand analysis to other Divisions/Districts



Congress 's RSM



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WIIN/WRDA 2016

- S. 1115 – Reservoir Sediment. Pilot program to allow non-Federal entities to remove sediment behind Federal dams
- S. 1122 – Beneficial Use of Dredged Material Pilot Program. Regional Beneficial Use Teams. Cost Sharing under Section 204 of WRDA 92. May not require NFS to pay above Federal Standard
- S. 1122(i) – Changes language of CAP Section 204 to allow for repeated events, fed or non fed sources of sediment, and ability to accept NF funds to place dredged sediment
- S. 1188 – Sense of Congress – State WQC and disposal of dredged material, open-water disposal should be reduced to maximum extent practicable.
- S. 1189 – Disposal of Dredged Material not the Federal Standard if it violates the State WQ standards approved by EPA.
- S. 1204 – South Atlantic Coastal Study. Geographical boundaries of SAD, identifying risks and vulnerabilities of HSDR due to Sea Level Rise with focus on Regional Sediment Management. Due NLT 4 years after date of enactment.



WIIN 1122



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- 90 days to initiate.
- Consult with State and local agencies
- 10 Pilot projects
- Selection based on:
 - ▶ Environmental, economic, and social benefits
 - ▶ Diversity of location and project type



WIIN 1122: Considerations



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- (d) CONSIDERATIONS.—The Secretary shall carry out the pilot program in a manner that—
- (1) maximizes the beneficial placement of dredged material from Federal and non-Federal navigation channels;
- (2) incorporates, to the maximum extent practicable, 2 or more Federal navigation, flood control, storm damage reduction, or environmental restoration projects;
- (3) coordinates the mobilization of dredges and related equipment, including through the use of such efficiencies in contracting and environmental permitting as can be implemented under existing laws and regulations;
- (4) fosters Federal, State, and local collaboration;
- (5) implements best practices to maximize the beneficial use of dredged sand and other sediments; and
- (6) ensures that the use of dredged material is consistent with all applicable environmental laws.



SECTION 1122: COST SHARING



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- (1) IN GENERAL.—Projects carried out under this section shall be subject to the cost-sharing requirements applicable to projects carried out under section 204 of the Water Resources Development Act of 1992 ([33 U.S.C. 2326](#)).
- (2) ADDITIONAL COSTS.—Notwithstanding paragraph (1), if the cost of transporting and depositing dredged material for a project carried out under this section exceeds the cost of carrying out those activities pursuant to any other water resources project in accordance, if applicable, with the Federal standard (as defined in section 335.7 of title 33, Code of Federal Regulations), **the Secretary may not require the non-Federal interest to bear the additional cost of such activities.**



Section 1122 Status



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- 97 projects from all MSCs were submitted as a result of first round data call
- Implementation guidance has been reviewed by HQ.
- HQ is meeting with ASA's office today to discuss
- If the draft stands following approval:
 - ▶ Webinar to Districts MSCs
 - ▶ Webinar to Stakeholders
 - ▶ 60 days for stakeholders to work with Districts to submit proposals.



RSM-RXC: Progress to date



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- Short term: USACE understands the value of RSM
 - ▶ **Well:** Pilot, National exposure, Asset Management, National team of SME's, RSM University
 - ▶ **Not so well:** Outreach, ecosystem value lagging
- Mid term: Districts consistently and routinely implementing RSM practices to maximum extent practicable
 - ▶ **Well:** Several Districts have come to us for assistance, NAD pilot moving out, other MSC's looking for help, WIIN 2016, lead for implementation guidance
 - ▶ **Not so well:** RSM inclusion in planning studies/process, deepenings not/minimally including RSM
- Long term: RSM Program, while led by USACE, extends beyond organizational boundaries as a National initiative
 - ▶ **Well:** Support and FUNDING outside USACE (BOEM, NOAA, USGS, NAVY, ASBPA, TNC, AAPA) is outstanding, WIIN 2016, extensive outreach
 - ▶ **Not so well:** Need to increase opportunities for SME's outside of SAD

THERE ARE INFINITE WAYS TO IMPLEMENT RSM



Elwha Dam



Lower Columbia River



Sangamon-Illinois Rivers



Jacksonville Harbor



Utulei Beach
American Samoa



Mobile Harbor

THANK YOU