

# Navigation Program Overview for RSM-EWN Workshop

**Jim Walker**

**Navigation Branch Chief  
Operations and Regulatory Division**

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US Army Corps of Engineers  
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# Corps Navigation Mission

**Provide safe, reliable, efficient, effective and environmentally sustainable waterborne transportation systems for movement of commerce, national security needs, and recreation.**



# USACE Navigation Assets

## COASTAL NAVIGATION

1067 Navigation Projects  
19 lock chambers  
13,000 miles of channels  
929 navigation structures  
844 bridges



## INLAND NAVIGATION

27 Inland River Systems  
207 lock chambers @ 171 lock sites  
12,000 miles of inland river channels



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# Navigation Topics

1. National Goals/Objectives
2. Funding
3. Watershed Budget Initiative
4. Engineering with Nature
5. FY12/13 focus
6. Coastal Working Group and Navigation



# FY13 National Goals/Objectives

- A. Reduce the Deficit<sup>2</sup>
- B. Create Jobs and Restore the Economy<sup>2</sup>**
- C. Improve Resiliency and Safety of Infrastructure<sup>2</sup>**
- D. Restore and Protect the Environment<sup>2</sup>**
- E. Maintain Global Competitiveness<sup>1,2</sup>**
- F. Increase Energy Independence<sup>1,2</sup>
- G. Improve Quality of Life<sup>1,2</sup>

<sup>1</sup>President's 2011 State of the Union Address

<sup>2</sup>2011 National Security Strategy



## 2. President's Budgets

(\$million)

Pres Bud	Coastal	Inland	Nav	CW total	Nav Percent
<b>FY13</b>	<b>\$967</b>	<b>\$780</b>	<b>\$1747</b>	<b>\$4731</b>	<b>37</b>
<b>FY12</b>	<b>\$832</b>	<b>\$744</b>	<b>\$1575</b>	<b>\$4631</b>	<b>34</b>
<b>FY11</b>	<b>\$873</b>	<b>\$779</b>	<b>\$1652</b>	<b>\$4939</b>	<b>33</b>
<b>FY10</b>	<b>\$971</b>	<b>\$796</b>	<b>\$1767</b>	<b>\$5125</b>	<b>35</b>
<b>FY09</b>	<b>\$969</b>	<b>\$931</b>	<b>\$1900</b>	<b>\$4741</b>	<b>40</b>
<b>FY08</b>	<b>\$957</b>	<b>\$1052</b>	<b>\$2009</b>	<b>\$4900</b>	<b>41</b>



## 2. Navigation Funding

Investigations: 1%, Constr: 21%, O&M: 78%

### Anemic Capital Investments

	Feasibility	PED	Const
Coastal	5	2	2
Inland	3	1	4



## 2. FY13 O&M Budget Coastal Navigation

Category	Inventory	Commerce	FY13 O&M Projects	FY13 O&M Funds	FY12 O&M Proj.	FY12 O&M Funds
High	59	90%	56	66%	54	62%
Moderate	100	9%	52	19%	61	25%
Low	908	1%	63	5%	41	6%
Other				10%		7%
Total	1067	100%	171	100%	156	100%

- Prior to FY12 we adjusted to budget decreases by minor reductions at almost all nav projects.
- The low use category was proposed as a program for 50% reduction in the FY12 budget development; This was a 50% dollar reduction, not a 50% projects reduction
- 'Other' includes Nav R&D, Project Condition Surveys, Remaining Items, etc.



## 2. FY12 Additional Funds

- Additional Navigation Funding Pots \$245 M
  - Investigations \$ 16.5 M
  - Construction \$ 74.1 M
  - MR&T \$ 5.0 M
  - O&M \$149.0 M
    - Nav Maintenance \$ 34M
    - Deep Draft Nav \$ 55M
    - Inland Waterways \$ 30M
    - Small, Remote & \$ 30M  
Subsistence



# 3. FY14 Budget Development

- Watershed Initiative
- Each MSC submits one
- Reviewed this fall – HQ, ASA, OMB(?)
- Possible use in developing FY15 budget
- Can visualize for inland, but coastal?  
RSM...



# Integrated Watershed Management

*Moving towards Risk-Informed Integrated Life-Cycle Portfolio Management*

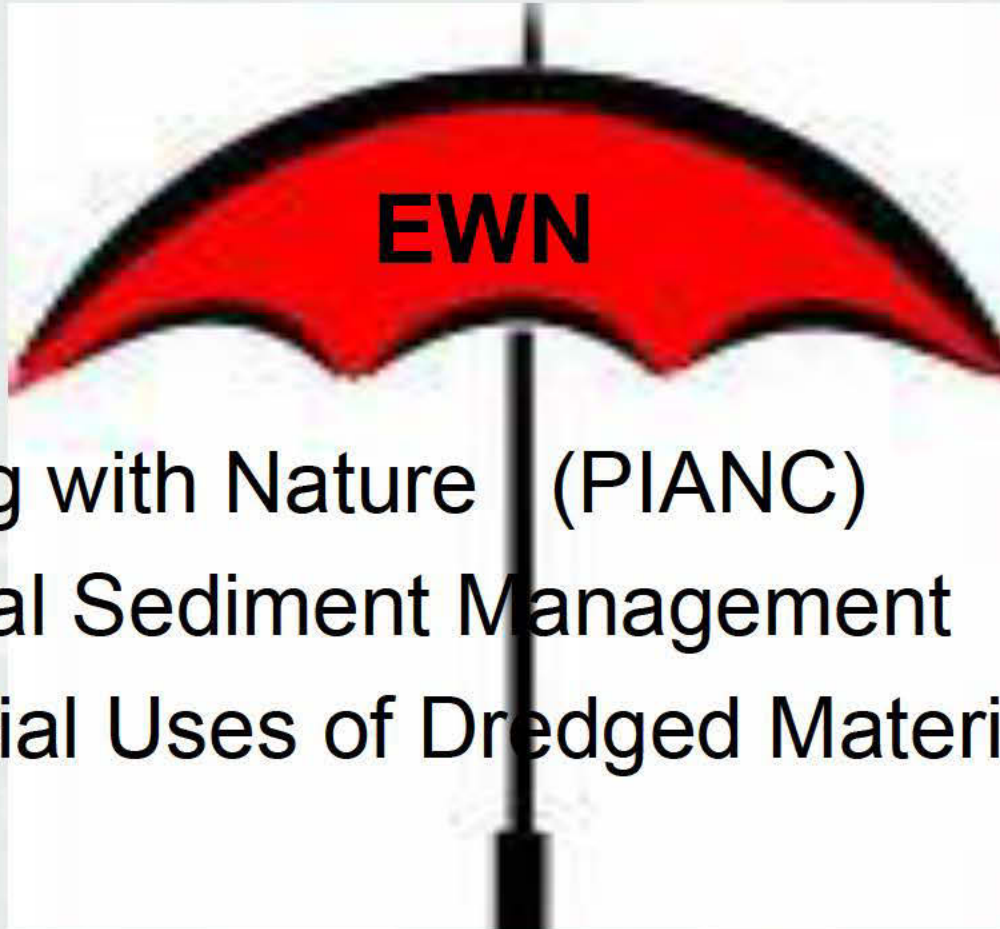


# Watershed Initiatives

- LRD Great Lakes Watershed Nav
- MVD Kaskaskia and Ouachita Nav
- NAD North Atlantic Coast Nav
- NWD Puget Sound Nav
- POD Cook Inlet Watershed Nav
- SAD North Carolina Basin Nav
- SPD Santa Ana Watershed No Nav
- SWD Texas Gulf Coast Nav



# 4. Engineering with Nature



- Working with Nature (PIANC)
- Regional Sediment Management
- Beneficial Uses of Dredged Material



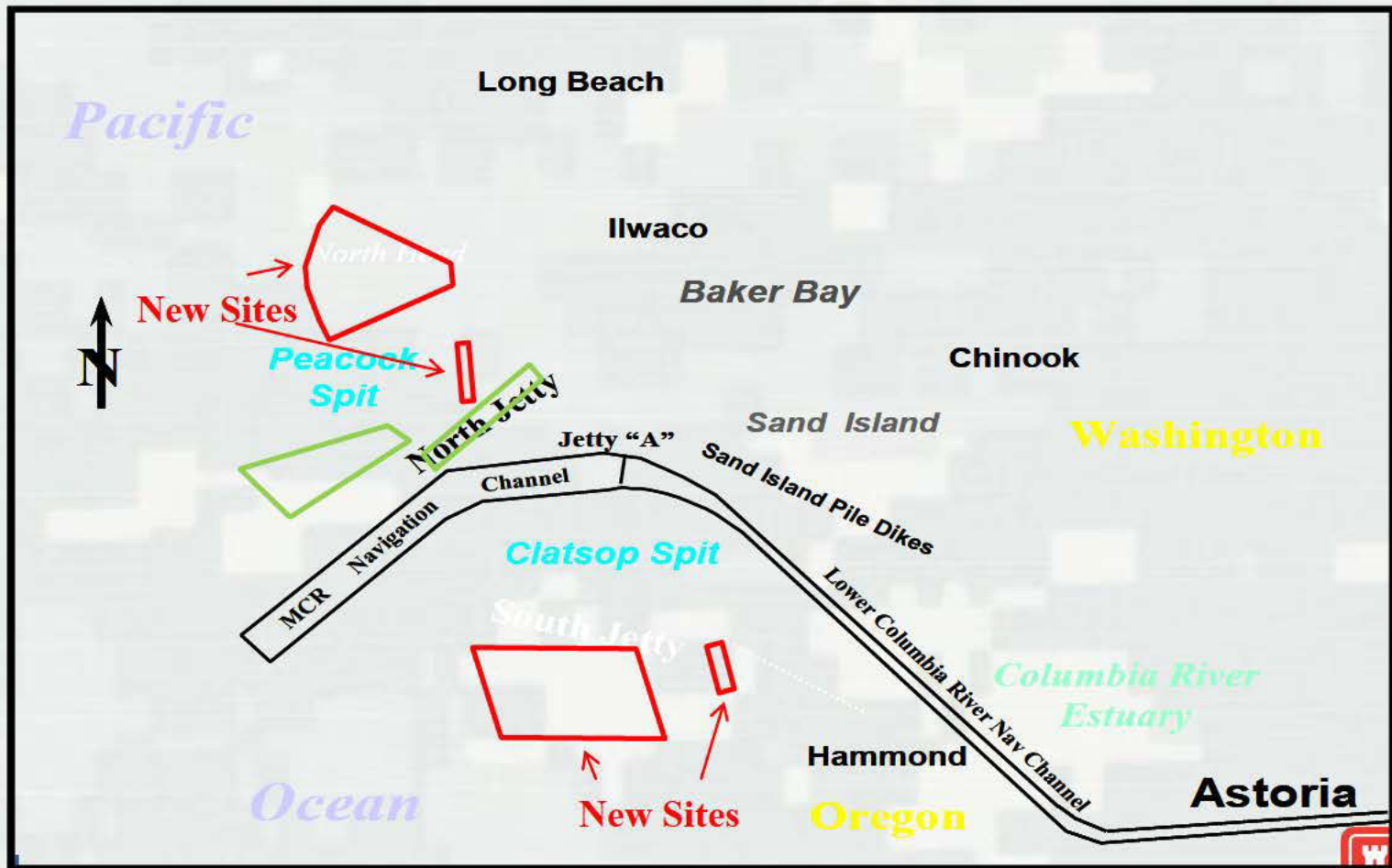
# RSM Products/Efforts

- RSM efforts at 22 Districts, 2 MSC and IWR
- Optimize use of sediments at navigation projects in 9 Districts
- Online sediment budget calculator
- 3D lidar calculation tools
- Coastal Modeling System nodal point calculator
- All for \$3M!



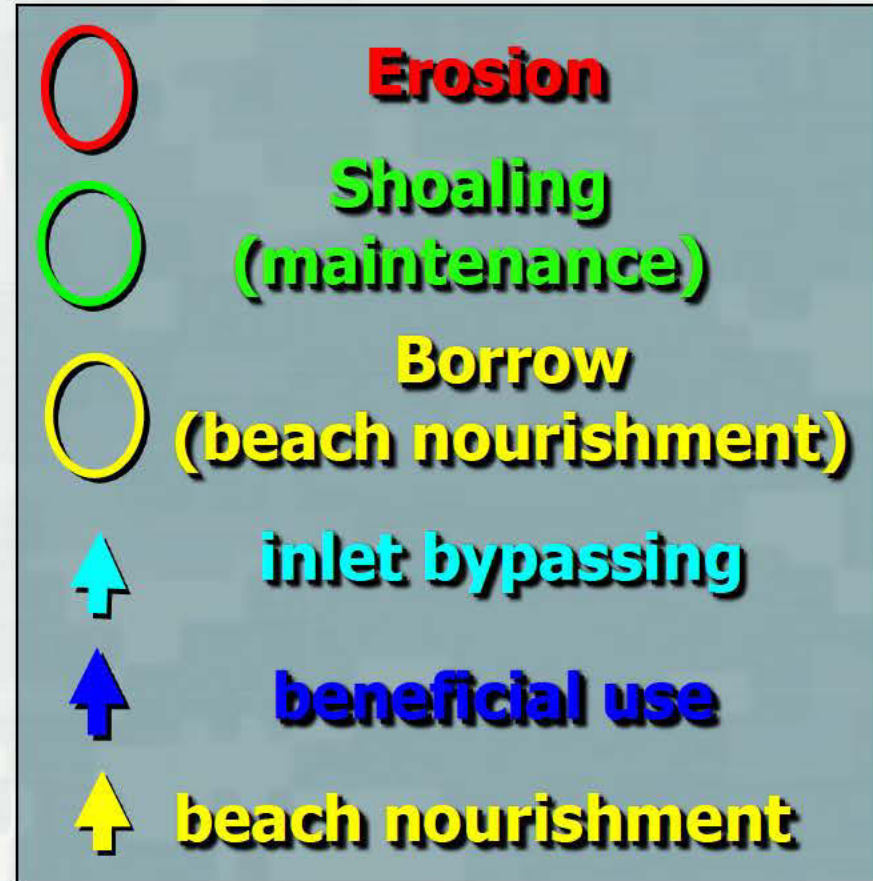
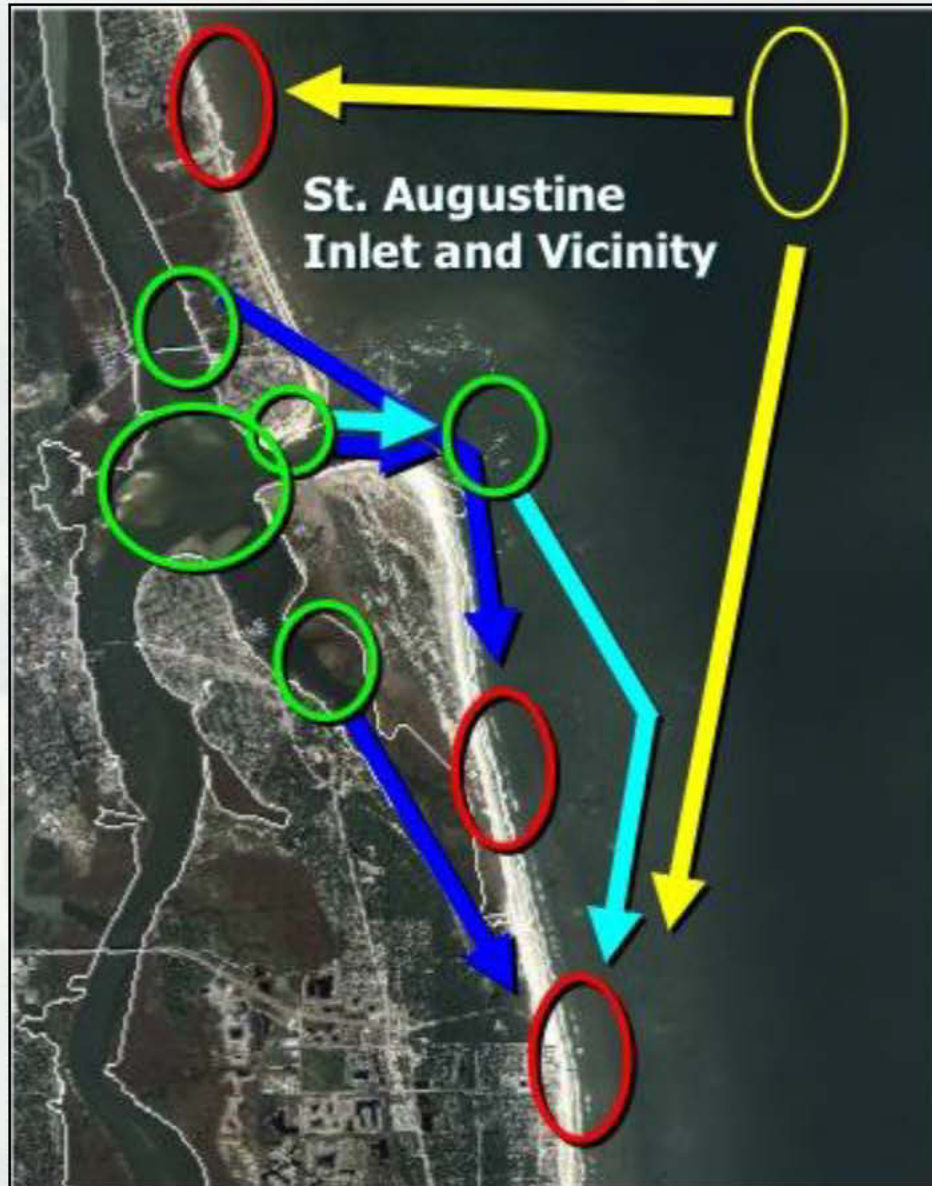
# Mouth of Columbia River

## RSM success



# St. Augustine Inlet, FL and Vicinity

Combining multiple projects



\$5-7M mob/demob savings  
Reduced dredging/environmental impact  
Combined permit  
Emergency sand sources

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# Manage Stakeholder Expectations

- Building trust based relationships takes time (years)
- Stakeholders getting to collaboration takes time
- Demonstration projects – be willing to try
- Be transparent
- Deliver on commitments
- Communicate, communicate, communicate



# 5. FY12/13 Focus

- Collaboration - constrained funding necessitates it
  - Within USACE – Nav, Coastal Storm Damage Reduction, Aquatic Ecosystem Restoration
  - Cross agency – USACE and DoT
  - Stakeholder centric
- Dredged material as a resource
- Improve process to accept contributed funds



# 6. Coastal Working Group & Nav

- Coastal structures
  - Operational Condition Assessment
  - Operational Risk Assessment
- Modeling
  - Focus on high and moderate use projects
  - Smaller \$ efforts/No Congressional Adds
- Engineering with Nature
  - Understand natural processes and what navigation resources (dredged material) can bring to the effort;
  - Dredge less



# Framework for Success

- A pattern has emerged:
- Stakeholder active participation is essential
- USACE facilitates discussions but listens more than they talk
- Active participation by all 3 Corps offices is critical
- Rooting for your success!



# Closing

What do we do?  
Provide Navigation  
infrastructure that is Reliable,  
Efficient and Resilient.

Why is it important?  
This infrastructure enables  
American goods to compete in  
the Global marketplace

## QUESTIONS?



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