

National Dredging Conference
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**Beyond Beneficial use:
The Integrated Dredging
Program in Florida**

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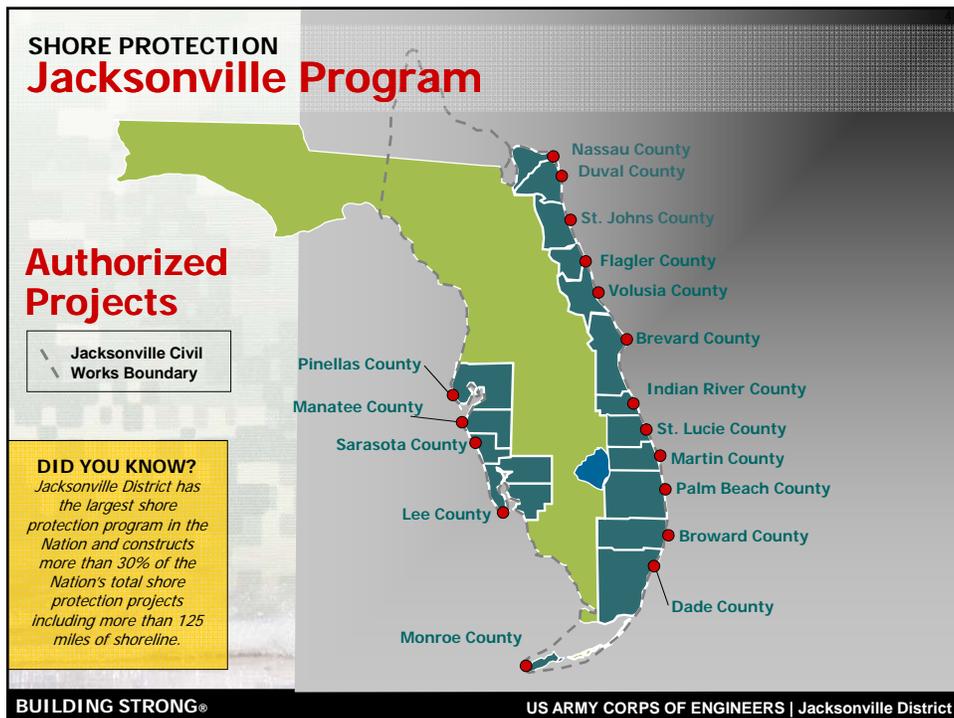
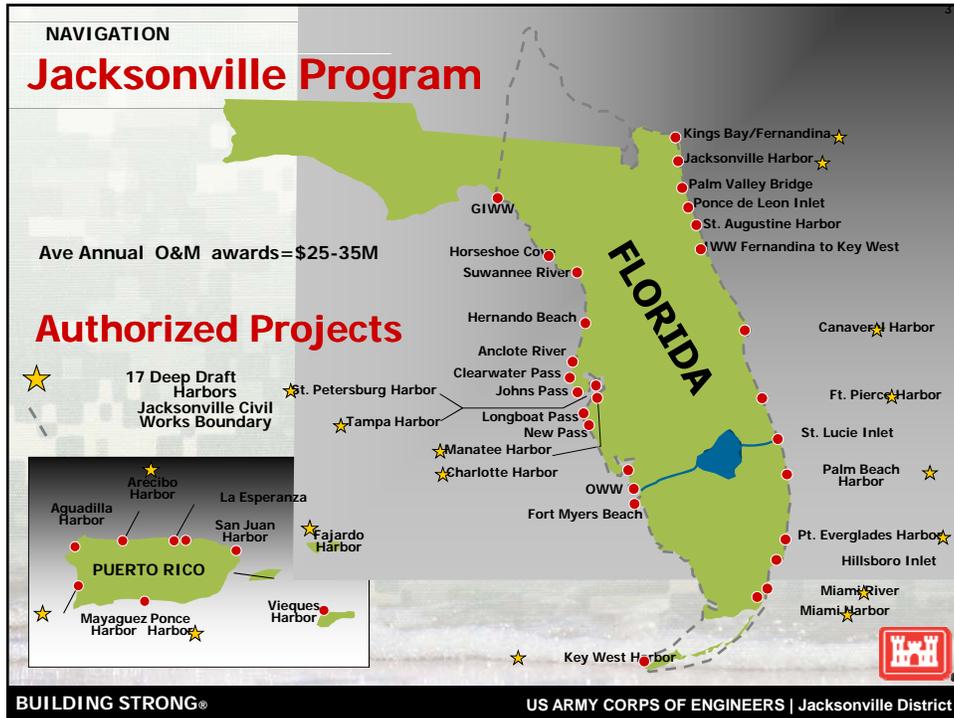


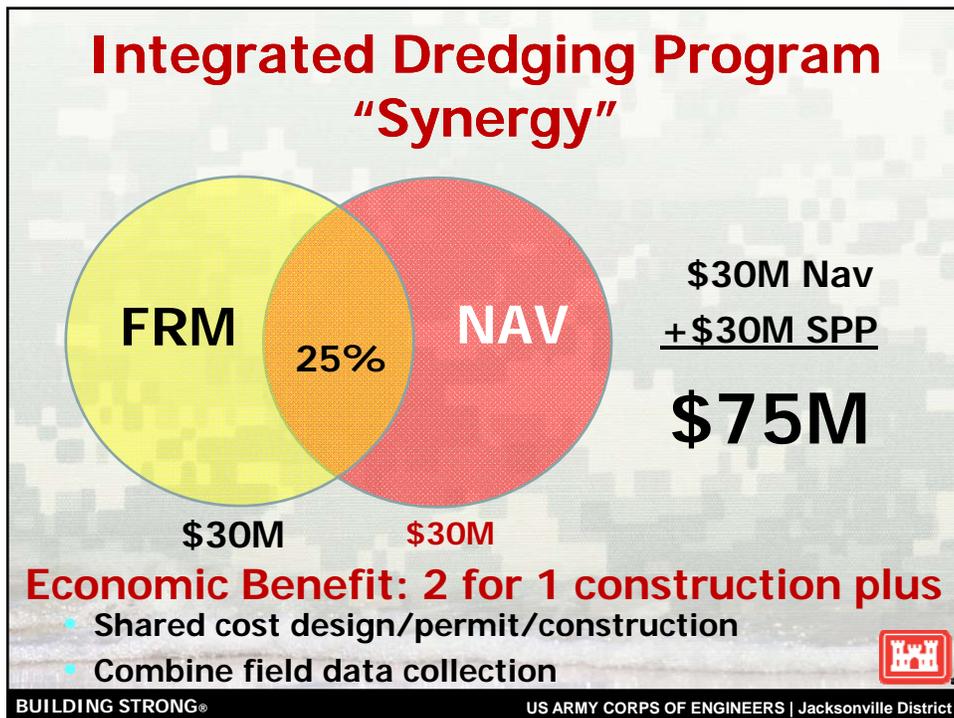
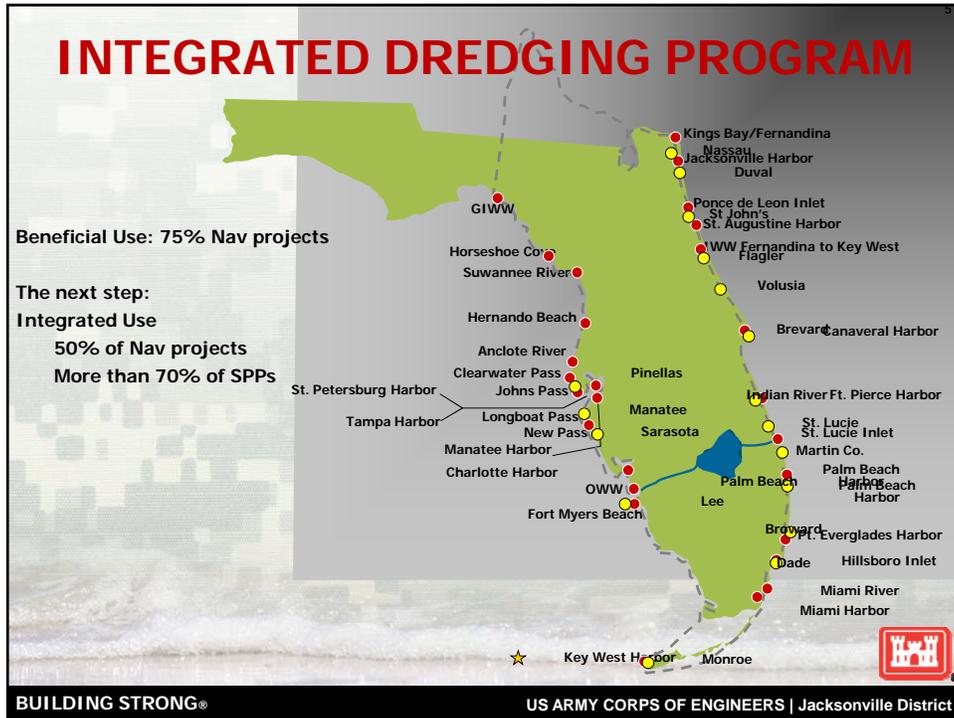
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**Jacksonville's Integrated
Dredging Program**

- **NE Florida Regional examples**
 - Kings Bay/Fernandina & Nassau SPP
 - Jax Harbor & Duval Co. SPP
 - St. Augustine Inlet/IWW & St John's Co. SPP
- **Synergistic benefits**
- **Process**
- **Challenges**
- **Next steps**







SAJ Dredging 

BUY 1 GET 1 FREE
SALE

While quantities last! No limits!
See your project manager for details.



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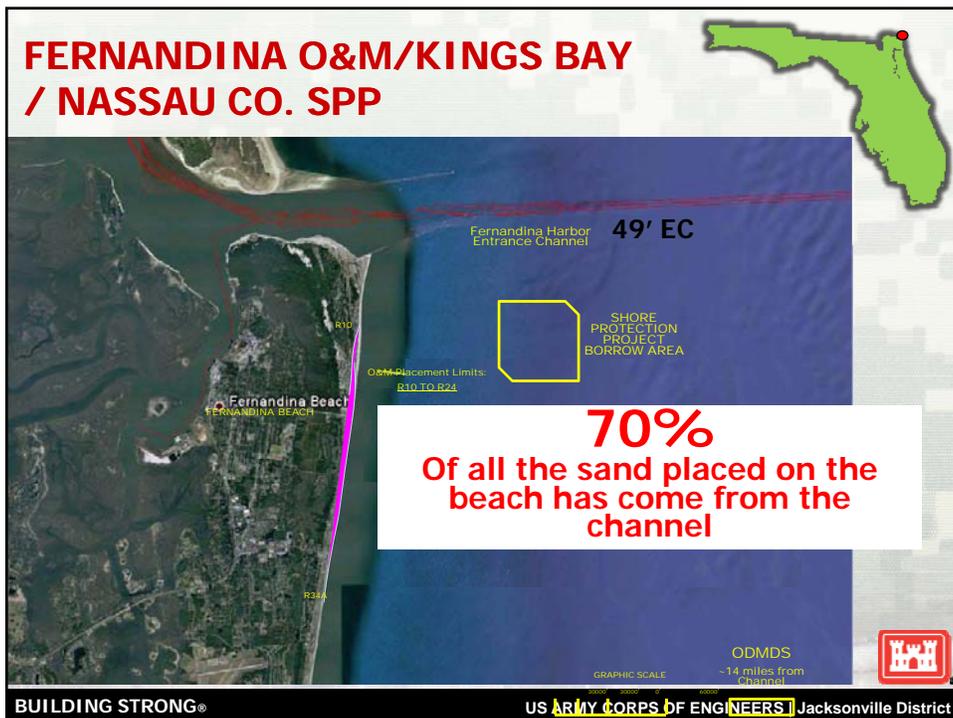
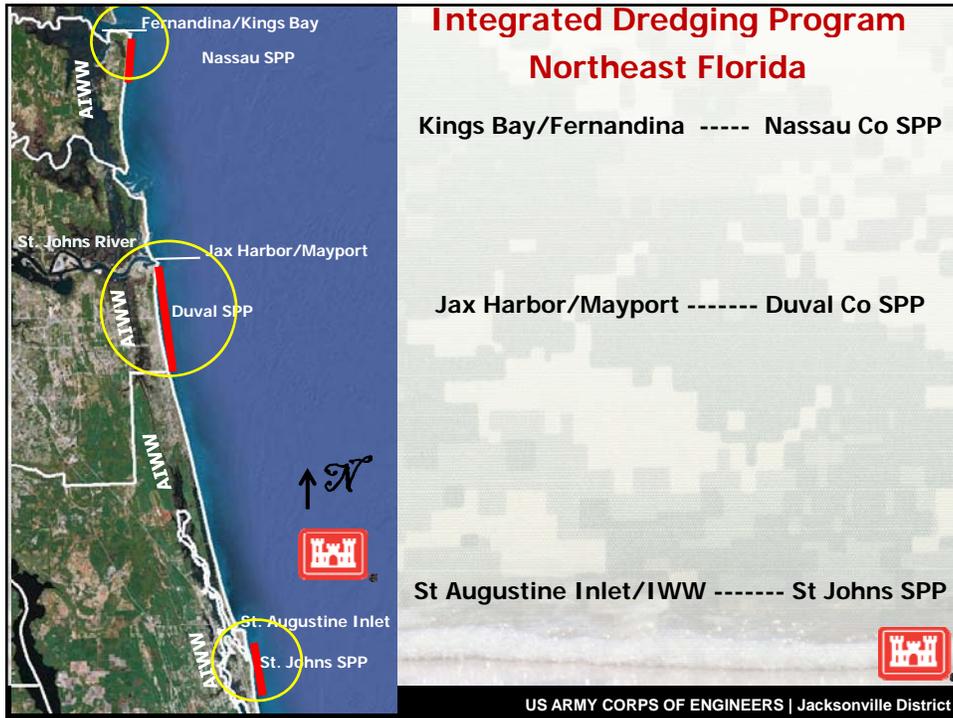


Benefits

- **Operational Benefits**
 - Conserve capacity in Upland/ODMDS
 - Conserve scarce offshore sand sources
 - Advanced maintenance opportunities
- **Environmental Benefits**
 - Minimize borrow/disposal impacts
 - Minimize dredge impacts
 - Typical rules don't always apply
- **Technical Benefits**
 - Optimize sediment management
- **Institutional Benefits**
 - Execute with dwindling funds
 - Stakeholder relationships



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FERNANDINA O&M/KINGS BAY/NASSAU SPP

- Currently 100% Navy funded
- 20% O&M material suitable for the beach.
- Average 400Kcy on beach annually
- Since the beach was constructed
 - Total Nassau SPP placement 1.9 MCY
 - Total beach disposal by Nav 4.5 MCY
 - SPP has not needed scheduled renourishment
- **\$36M in added value???**



JACKSONVILLE O&M / DUVAL CO. SPP

St. Johns River

Jacksonville Harbor
42' EC

Duval County
Shore Protection Project

Duval County

**30% of beach sediments
are attributable to the O&M program**

Navigation Placement from Jax Harbor

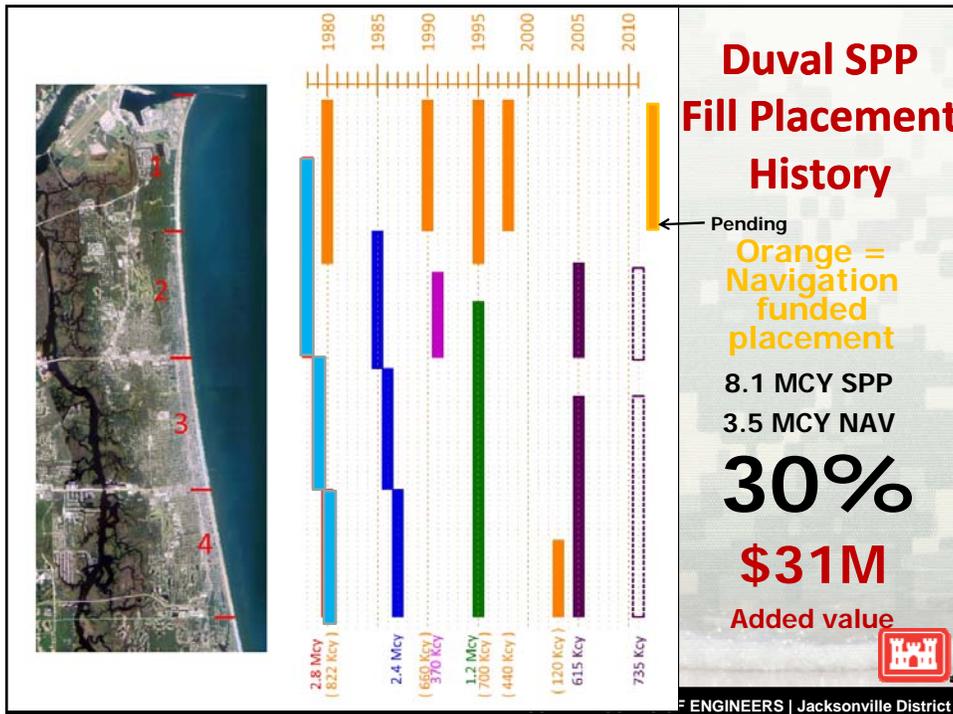
- 1980 : 822,000 cy
- 1990 : 660,000 cy
- 1994-5 : 700,000 cy
- 1998 : 440,000 cy
- 2007 : 300,000 cy - Permit failure
- 2012 : 500,000 cy – Permit pending...

SPP Borrow From Federal Channel

- 2003 : 120,000 cy *Oysters




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St Johns County

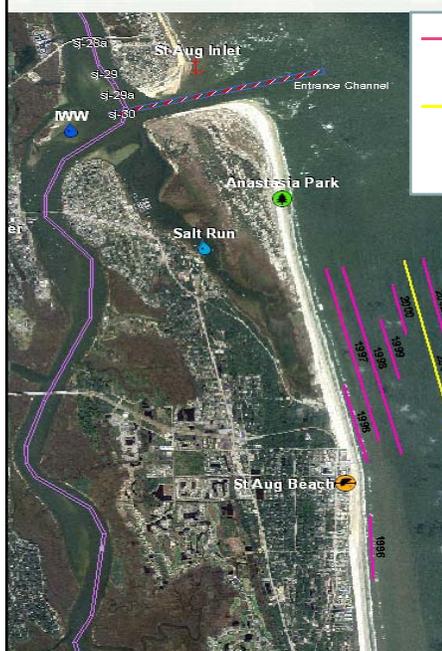
- St. Augustine Inlet O&M
- Intracoastal Waterway O&M
- St. Augustine Beach CG
- Vilano Beach Feasibility GI



10% of Beach from O&M
80% Nav dredging from SPP



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St Johns County Beach placement history

- Pre-SPP borrow
5 O&M events in 5 years (96-00)
- Post-SPP borrow
3 O&M events in 12 years (02,05,12)

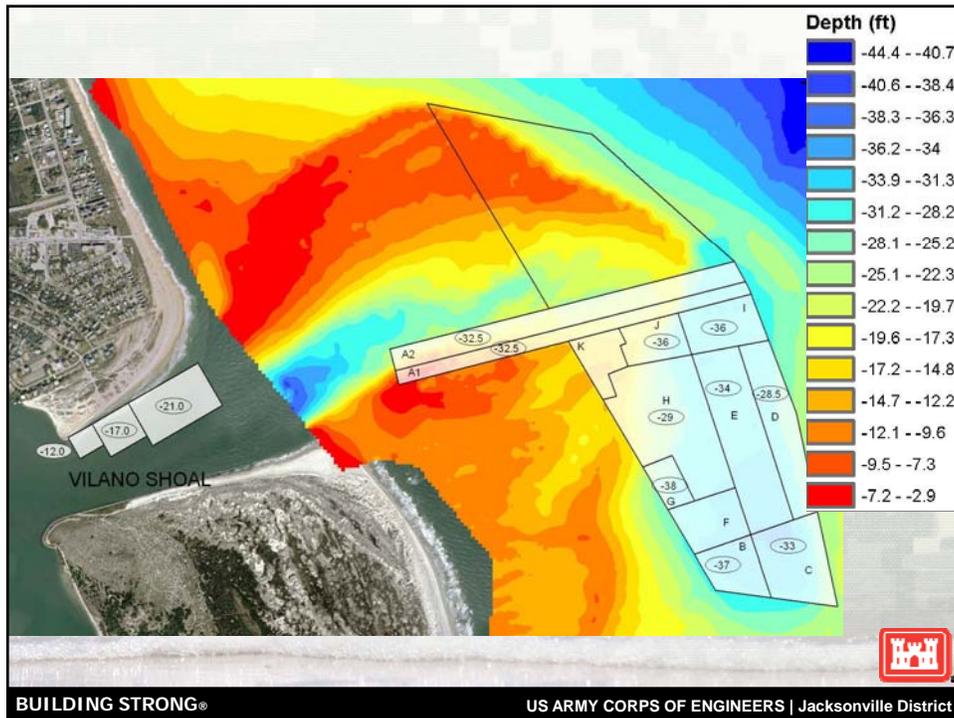
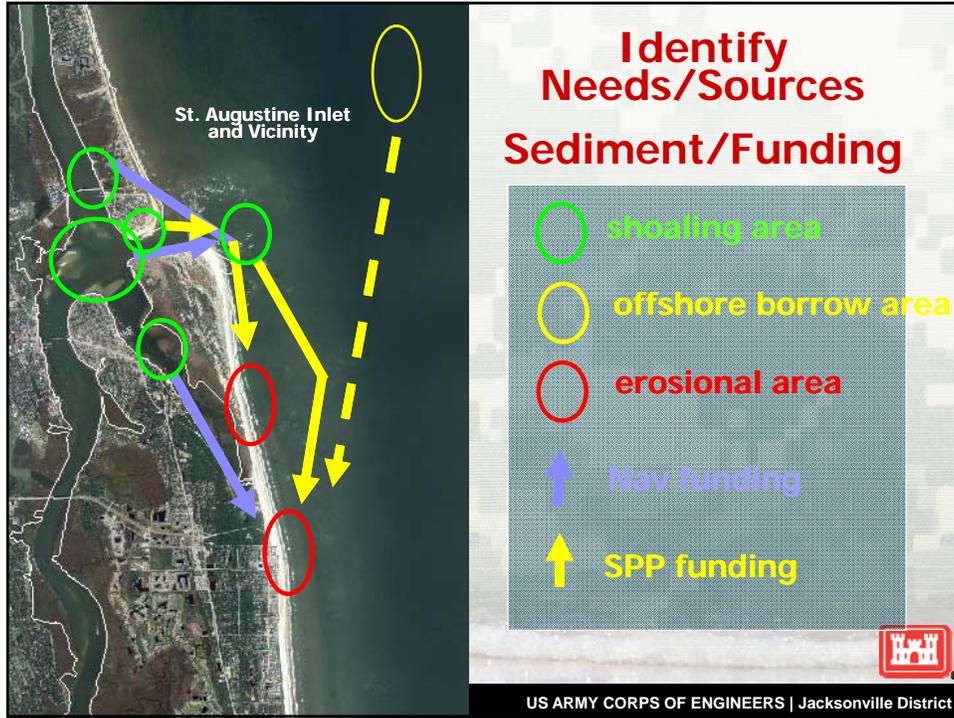
Since 2000 approx.

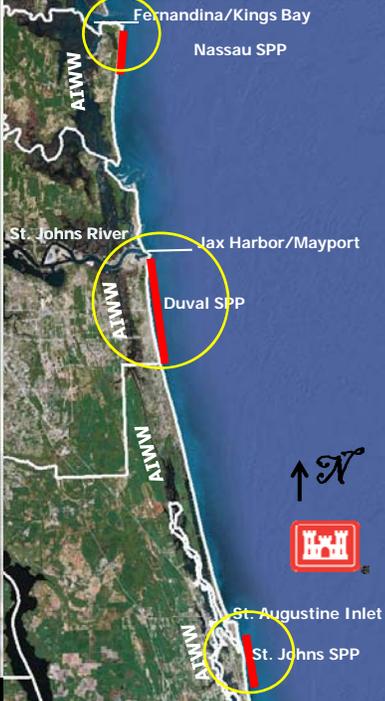
\$13M Nav O&M paid by SPP
\$1.7 M SPP paid by Nav O&M

Added value 

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Authorization & Appropriation





Quantifying the Benefits

Kings Bay/Fernandina ----- Nassau Co SPP
9 years
\$36M MIL to Beach

Jax Harbor/Mayport ----- Duval Co SPP
30 years
\$31M O&M to Beach

St Augustine Inlet/IWW ----- St Johns SPP
12 years
\$13M SPP to NAV
\$1.7M O&M to Beach

Total: \$82M in no cost project execution

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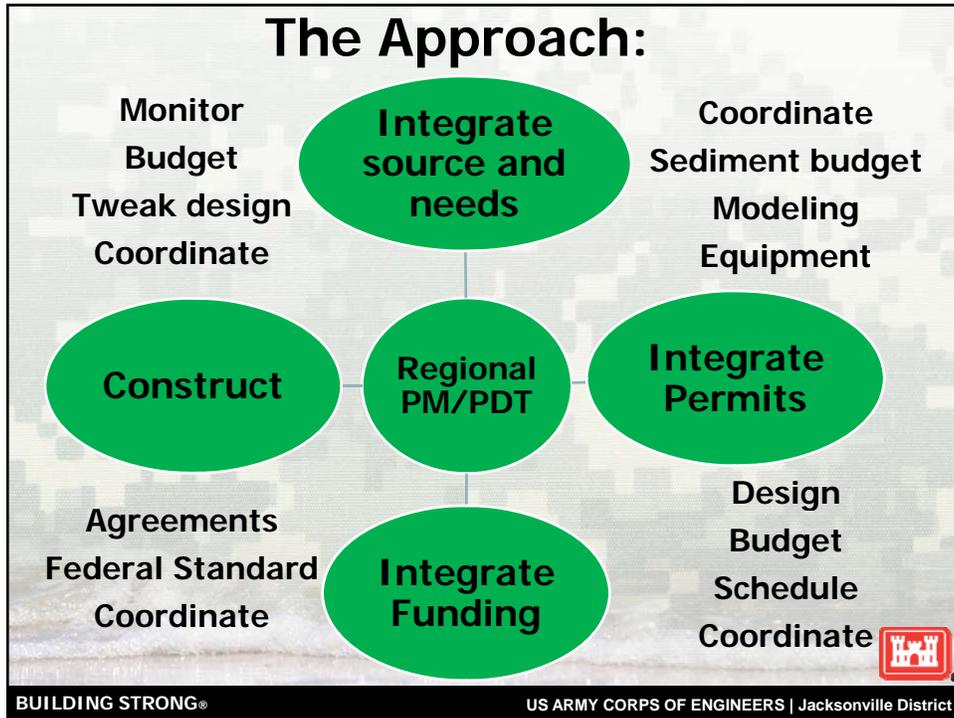


The Big Challenges

- Proximity
- Funding
- Schedule
- Permitting
- Sediment quality
- Plant
- Coordination
- Agreements
- The Federal Standard
- Politics
- Expectation management

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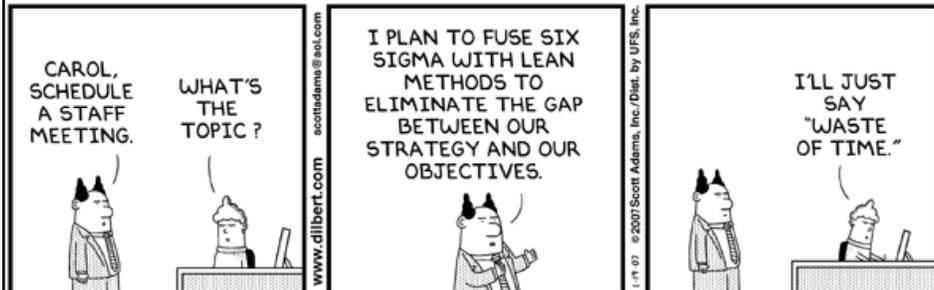
Looking ahead

- Keep pushing –Do more, better
- Coordination
- Communication

**** How can the benefits gained be recognized and encouraged? ****

- Budgetary priority/integration?
- B/C ratio

Streamlining/Maximizing benefits:



Let's do it our way!

Questions?

