



Overview of FY18 Products



- Cloud-based version of AISAP http://ais-portal.usace.army.mil)
- Updates to CPT interface https://cpt.usace.army.mil
- Assessing Structure Sheltering via Statistical Analysis of AIS Data, Young, D. & Scully, B., Mar 12, 2018, ASCE Journal of Waterway, Port, Coastal, and Ocean Engineering
- Assessing Jetty Effectiveness via Statistical Analysis of AIS Data, Young, D. & Scully, B., ERDC/CHL TN (in review)
- Corps Shoaling Analysis Tool: Predicting Channel Shoaling, Dunkin, L.M., Coe, L., ERDC/CHL TR (with editor)
- AISAP webinars USCG Navigation Center and District 1
- · CPT webinar SPN
- CSAT webinars SAC, SAS, SWG, NAO, NAE
- CSAT executable and documents added to CIRP page
- · Poster at Super RARG

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2017-N-52 Further Development of CPT and AIS software produc

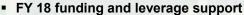
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CPT/AISAP Hosting Support and COASTAL & COASTA

- Channel Portfolio Tool CPT
 - 2017 Waterborne Commerce data loaded
 - CPT interface updates
 - spatial map (leveraged with NavSys)
 - hover text added for user support and help
 - 200+ registered users across ALL Districts containing Navigation projects
 - Users at other Federal agencies
- Automatic Identification System Analysis Package AISAP
 - AISAP registered users 150; 5000 unique requests (2014-2018)
 - Migration to cloud



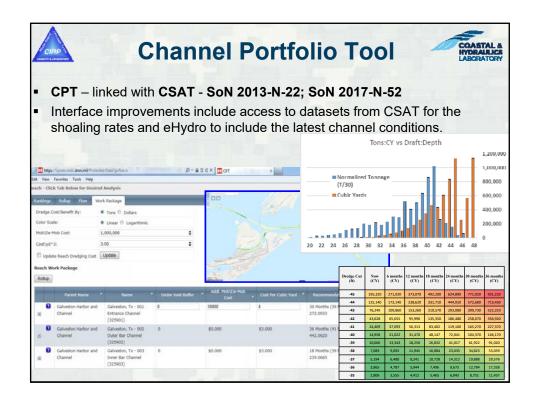
- OP-J \$135K
- ERDC CHL- \$50K
- ERDC ITL \$75K

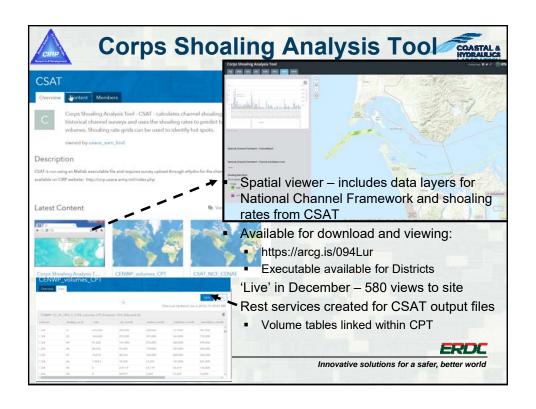
NavSys and Asset Management support leveraged to complete hosting and evelopment tasks

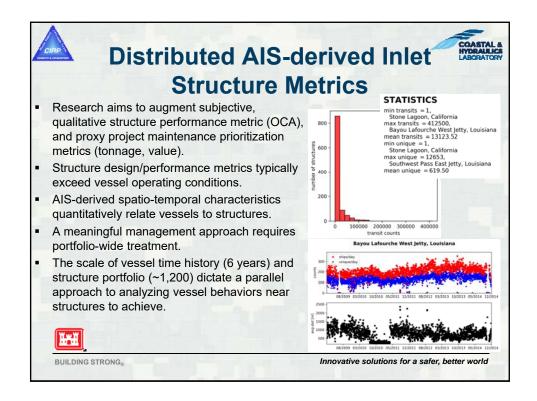
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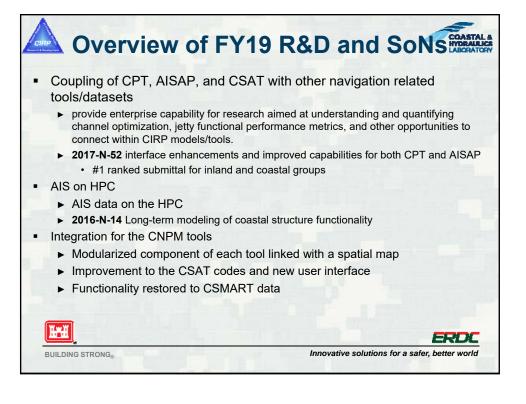
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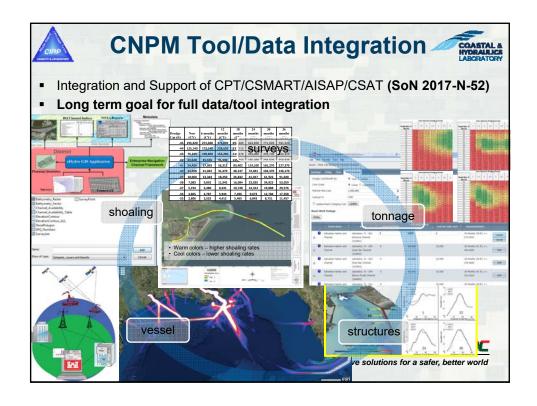


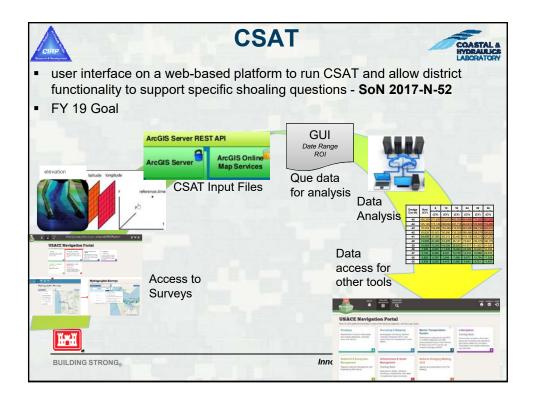


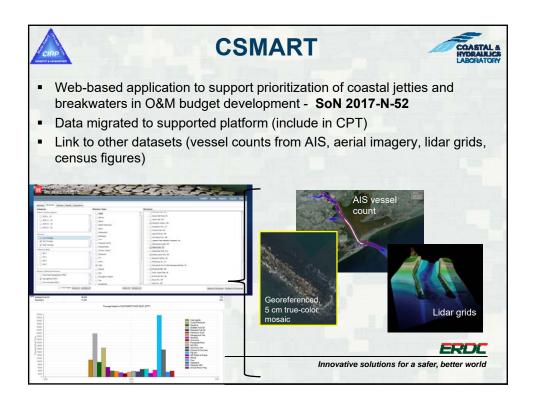


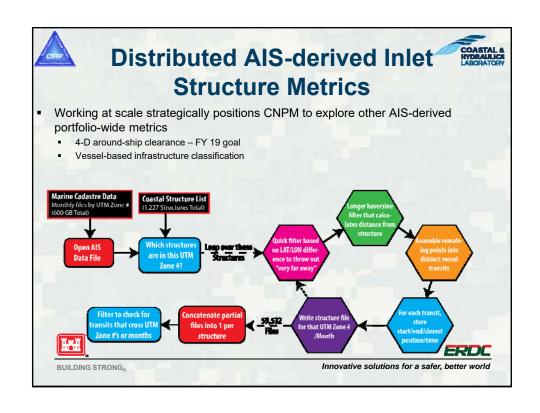














- Asset Management FY 18 \$175K
 - ▶ ERDC support for CPT and CSAT development
 - ► OP-J support for integration of CSAT within CPT and eHydro workflow
- USCG District 1- AISAP outputs to support an existing USCG study on a section of the Hudson River. Kress
- SWG CSAT shoaling analysis to support DMMP for HSC, MSC & Corpus Christi. Dunkin
- DOTS requests:
 - ▶ DOTS SWG (CSAT support). Dunkin



ERDC

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Collaborations



- AISAP development is leveraged with Navigation Systems research program.
- CPT development leveraged with Navigation Systems research program and Asset Management program.
- CSAT work is being leveraged with Asset Management program.



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Conclusion



- Tech Transfer: JP, TR, TN, presentations/webinars (USCG, SWG, SAS, SAC, NAO, SPN) and DOTS request
- CPT-AISAP in-person workshop
- CSAT web map and data accessibility
 - Rest Services linking data to CPT
 - ▶ Data accessible via AGOL (https://arcg.is/1z9P9G)
- AISAP
 - ► Cloud-based environment
- Improvements to the CPT and AISAP interface and underlying data structures
 - ▶ Spatial map viewer with shoaling rates and volume tables
 - ► Migration of AIS data to HPC for more robust, nation-wide research of structures and channel evaluation
- Improved access to CNPM tools/data
- Coupled, web-based access to tools and data
 CSMART data migrated to new interface



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