

US Army Corps

of Engineers®

COASTAL INLETS RESEARCH PROGRAM: PROGRAM MANAGEMENT WORK UNIT

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COASTAL INLETS RESEARCH PROGRAM FY20 IN PROGRESS REVIEW

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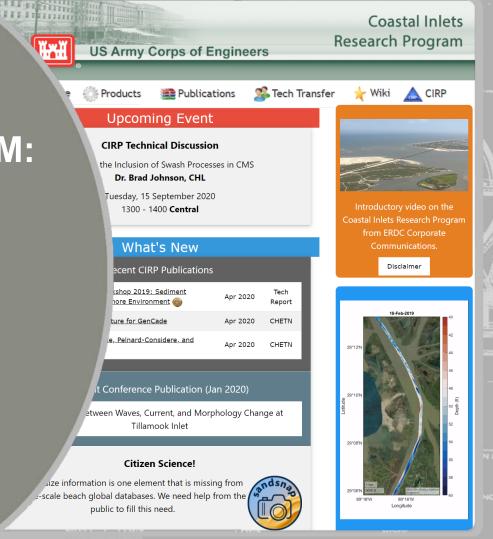
Associate Technical Director



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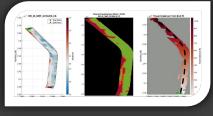
Research & Development

COASTAL & HYDRAULICS LABORATORY

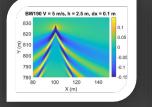


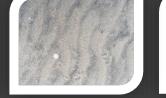




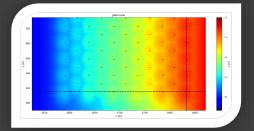


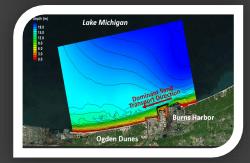














Advancing knowledge and technology to better predict future channel shoaling.

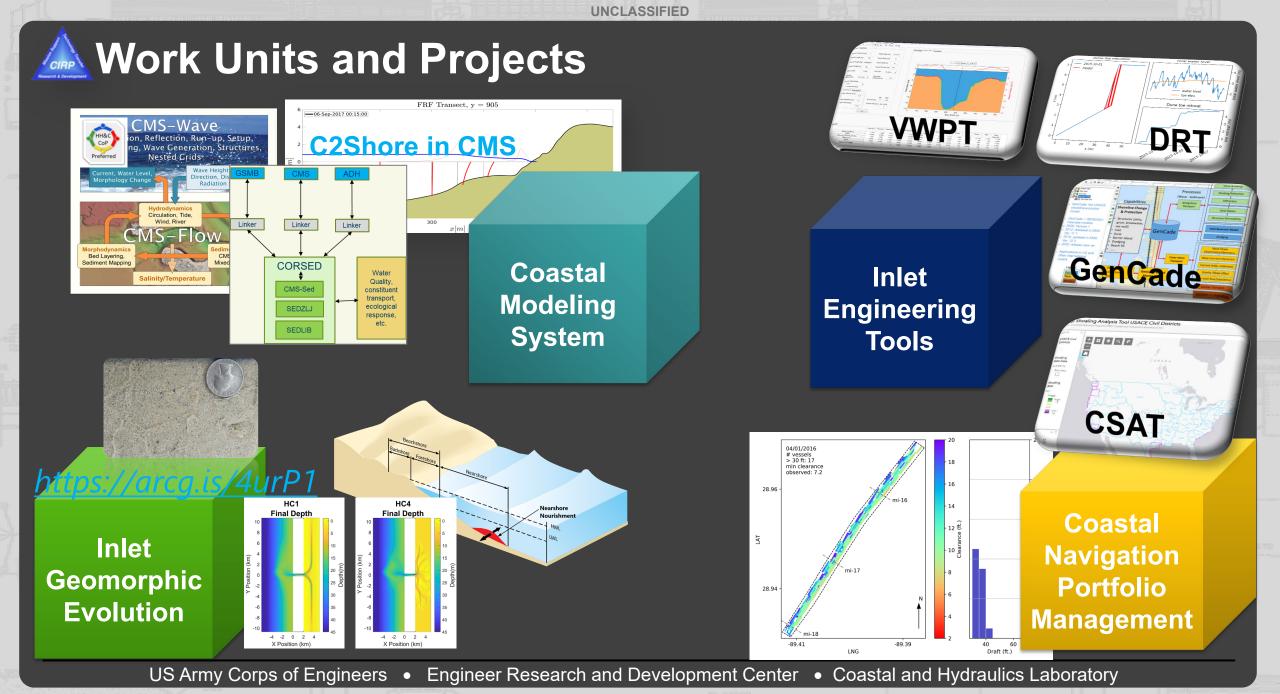
Providing quantitative and practical predictive tools and data analytics to reduce the cost of dredging for Federal navigation projects and to maintain jetties.

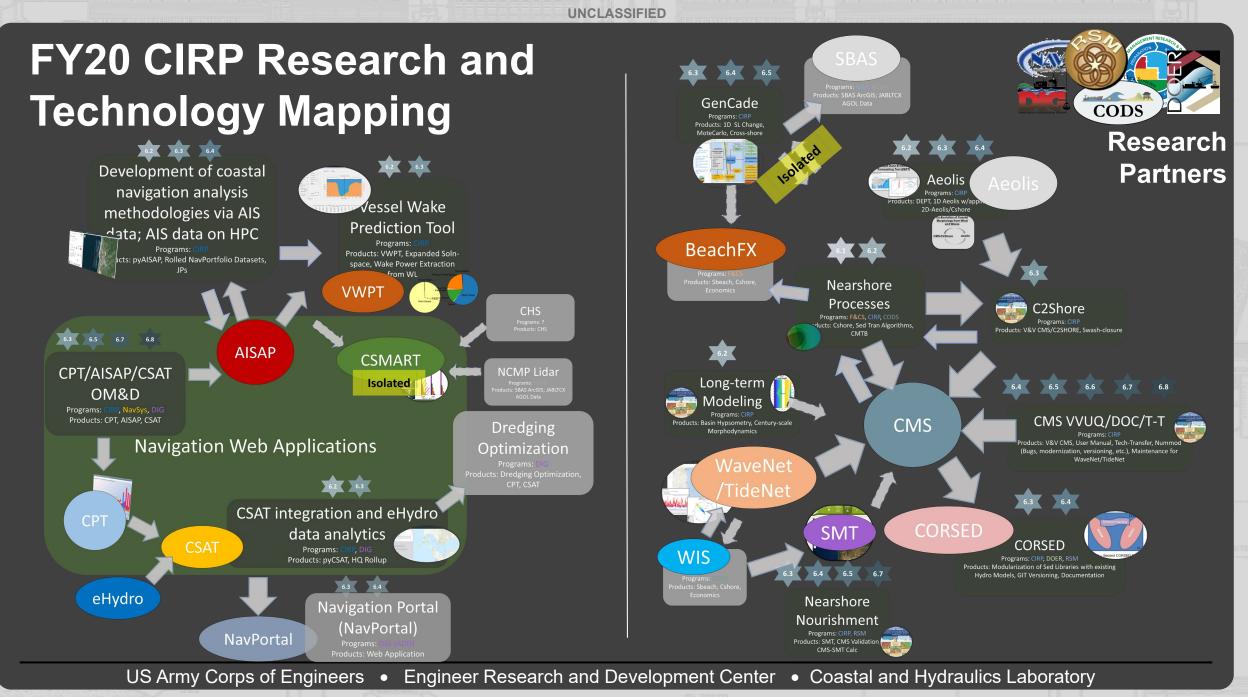
Quantifying potential unintended consequences and identifying necessary mitigation.

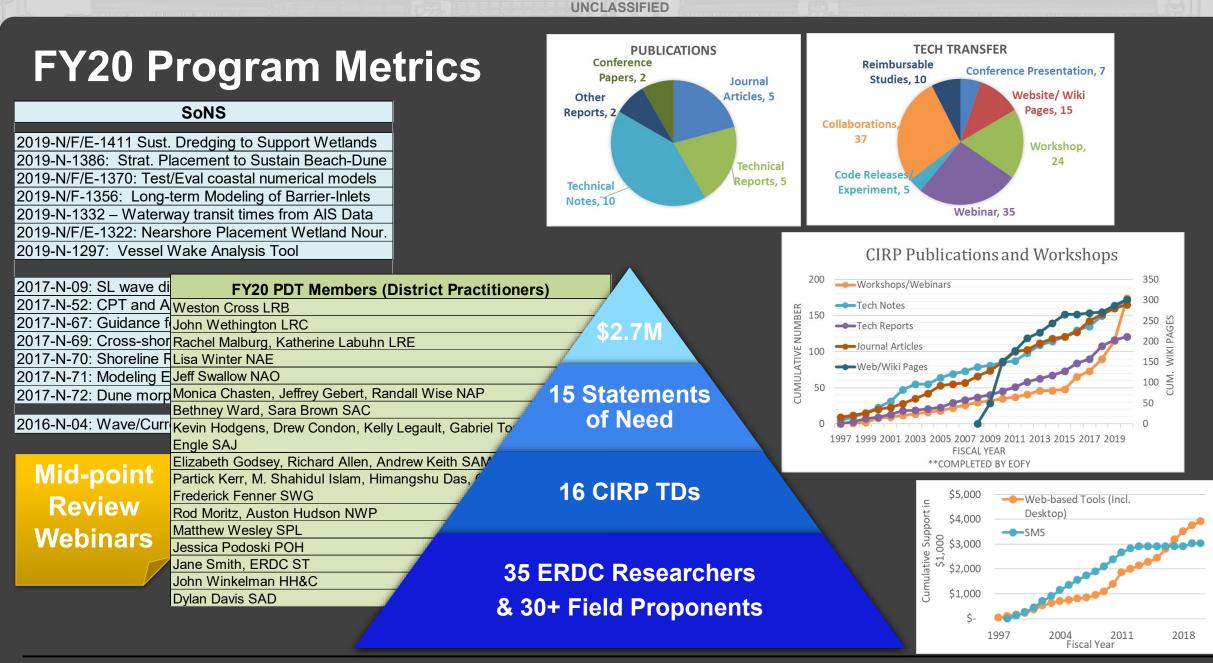
Understanding future conditions for coastal navigation and providing engineering guidance.

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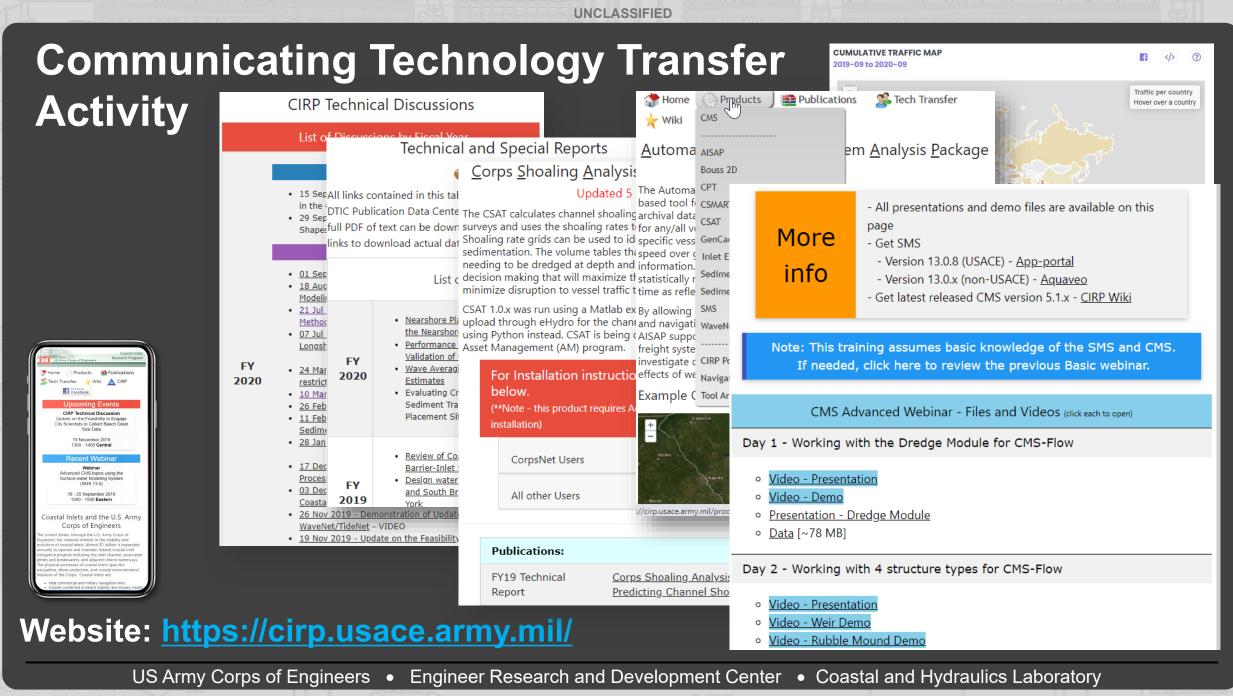






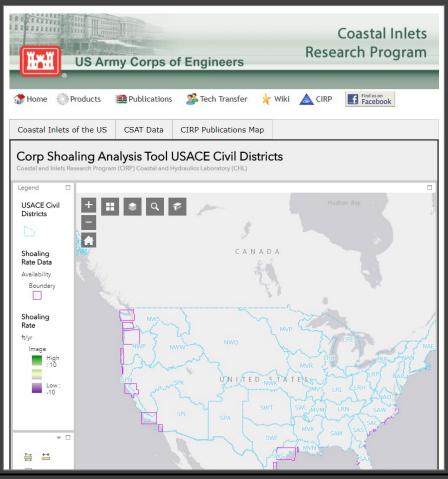


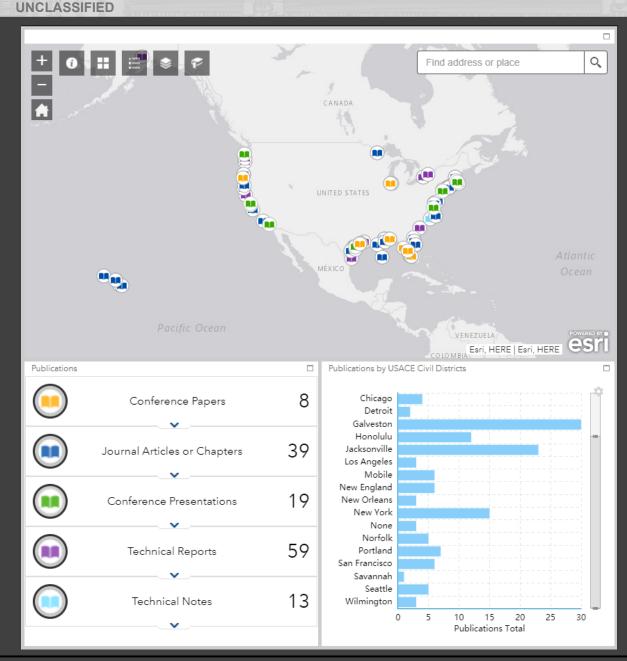
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StoryMaps for Quick Tech Transfer

https://cirp.usace.army.mil/products/portal.php





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Summary

FY20

- Advancing channel sedimentation and vessel analytics
- Swash closure in CMS/C2SHORE and FRF-sandbar validation
- Testing new aeolian transport code (Aeolis) and Dune Response Tool
- Nearshore nourishment & machine learning in Citizen Science
- Long-term Modeling of Inlet Systems to Optimize Dredging & Placement
- Transition Technologies to NavPortal framework and Open Source GIT Repositories (numerical models & tools)
- Tech Transfer –webinars/workshops at all levels (Engineer, Divisions, HQ)

FY21

- Base Budget of \$2.45M; Reviewing research pre-proposals
- Increase technology transfer opportunities and PDT engagement
- Cross-program Coordination on Mapped R&D and Strategic Direction
- Mentoring and growing CIRP teams



