Improving Operational Readiness of Federal Real Property Portfolios

Moderator: Dave Savatgy, P.E., PMP, Jacobs Engineering **Speakers**:

- Scott MacCumbee, Commanding Officer CEU Oakland, USCG
- Erin Dougherty, Facility Operations & Support Division, USCG
- Nic Jarboe, Asset Management Professional, Jacobs Engineering

May 14, 2024, 4:30 p.m.





This is an interactive session.

To participate, use your mobile device: jetc.cnf.io You can also scan the QR Code below

conferences i/O



- 1. Find the session.
- 2. Participate in the poll(s) as they are unlocked during the presentation.
- 3. Please complete a brief Evaluation Survey at the end of the session.

HOUSEKEEPING ITEMS

Take Note of Exits

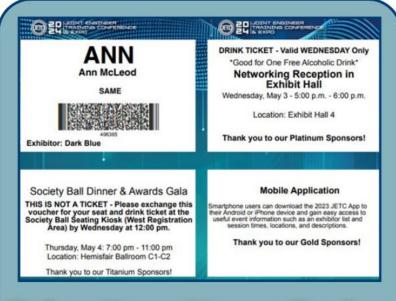
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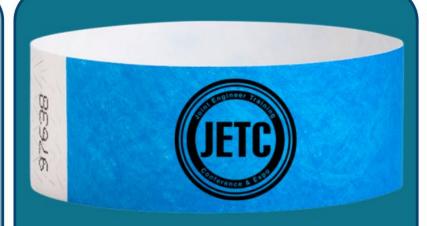
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(Minimum age 18 - No Children)



Bring Your Name Badge with Drink Tickets) + Your ID



Get Your Wrist Band
TODAY at the
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or SAME Booth



Buses depart Gaylord & Caribe Royale, beginning at 6:00 p.m.

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MODERATOR



Dave Savatgy

Jacobs Engineering Senior Consultant

- Renovating an 1880s mining cabin in the Sierra Nevada Mountains
- Did you know I have a very small 6-pound Chihuahua "mutt" (rescue pup) named GiGi?
- I like to road-bike long distances



SPEAKER



Scott MacCumbee **USCG**

Commanding Officer, CEU Oakland Mission Readiness Product Line Manager

- I'm a huge Arsenal fan...COYG!
- First tour on the West Coast...so trying to get to all the ski spots more frequently.
- My little brother is a Seabee.





SPEAKER



Erin Dougherty USCG

Facility Operations and Support Division **USCG Headquarters CG-435**

- I like to hike and bike around the DC area with my family.
- Did you know I swam from Alcatraz – it's pretty chilly!
- I like to write children's stories about my dog Benny.



SPEAKER



Nic Jarboe

Jacobs Engineering Senior Consultant

- Did you know I have twin 3-yearolds and a 9-month-old?
- Staycation Spots: I live in Hawaii, so the thought of traveling with the kids can be scary.
- Hobbies: Used to be snowboarding and watersports. Hopefully can get the kids out there soon.

Live Content Slide

Poll: Does your organization have both Asset Condition AND Mission Dependency data for infrastructure?

Problem Statement

How do we move the needle towards a better future?

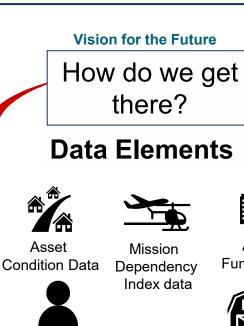
Present State

Unaffordable and unsustainable infrastructure. Federal Agencies are challenged to support mission demands within available funding limitations. The backlog of deferred maintenance continues to grow, putting Agency performance and mission success at risk. Recruiting and retention are also at risk.



Life Cycle Management

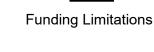




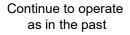


Desired Future State

Affordable real property portfolios that support









Realize something is missing



Learn new skills



Invest in the future



Become an Asset Manager



Optimize performance

Novice

Apprentice

Journeyman

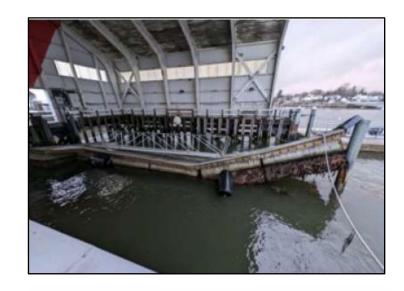
Master





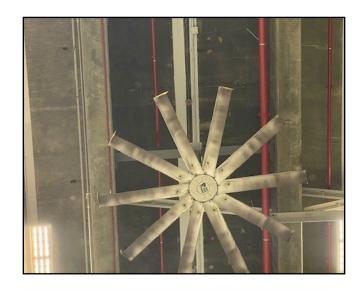


Damaged Assets and Limited Resources



Damaged boat house at Station Portsmouth Harbor, NH

→ Small boat SAR mission at risk



Spalling on concrete hangar roof at Air Station Cape Cod, MA

→ Helo SAR mission at risk



Severe shoaling of boat basin at **Sector Delaware Bay**

→ Multiple vessels SAR, LE and Aids to **Navigation missions at risk**

Damaged Assets and Limited Resources



Damaged piers at Sector San Francisco, CA

→ Multiple vessels SAR, LE and Aids to Navigation missions at risk



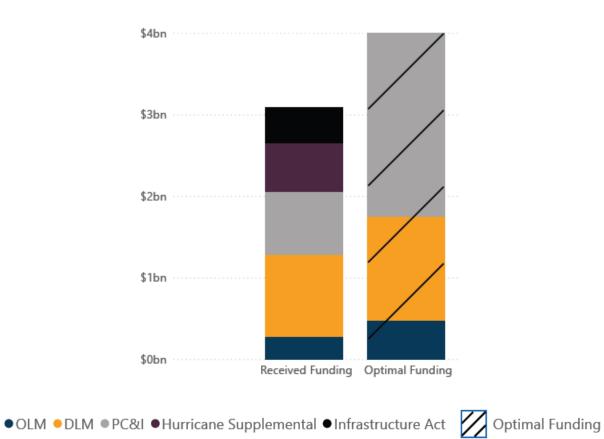
Severe shoaling Station Cape Disappointment, WA

→ Small boat SAR mission at risk

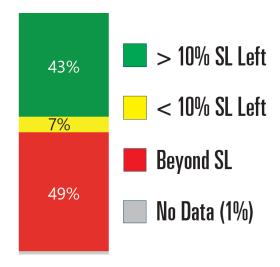
USCG Shore Infrastructure

Overall Grade

Cumulative Investment and Liability (FY2019-23)



Overall Asset Service Life¹













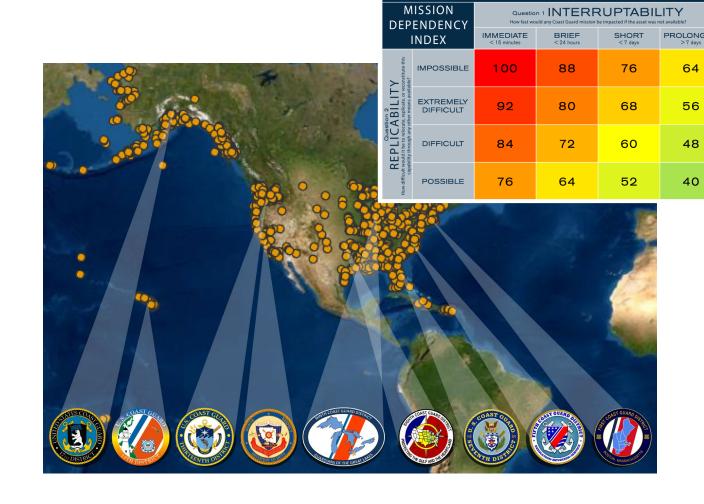
The Coast Guard Mission Dependency Index (MDI) Journey





USCG MDI Data Collection

- Nearly 13,000 assets surveyed
- January-November 2023
- 102 sites visited
 - Sectors
 - Bases
 - Air Stations
 - Training Centers
- Other sites:
 - HQ Offices
 - Service Centers

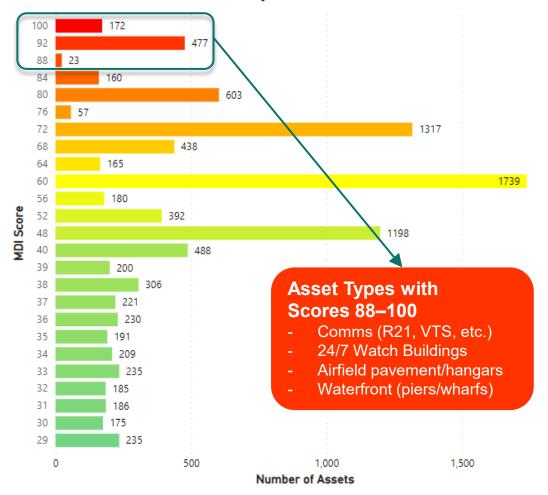


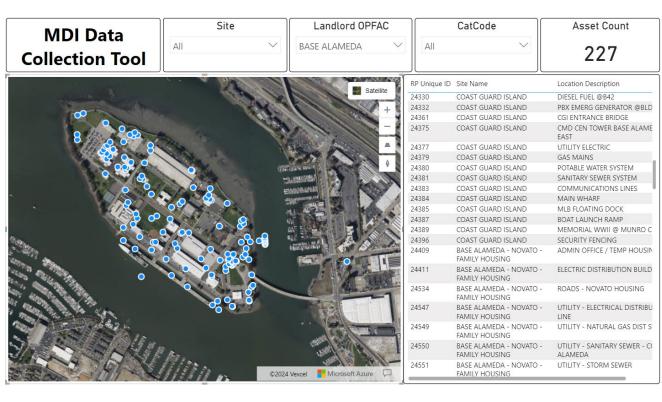


UNITED STATES COAST GUARD

USCG MDI Results & Outcomes

Assets per MDI Score





Facility Condition Index -BUILDER





Implementing BUILDER

- Preventive vs. Reactionary
- **Facility Condition** Assessments
- **Project Programming**
- **Budgeting Scenarios**

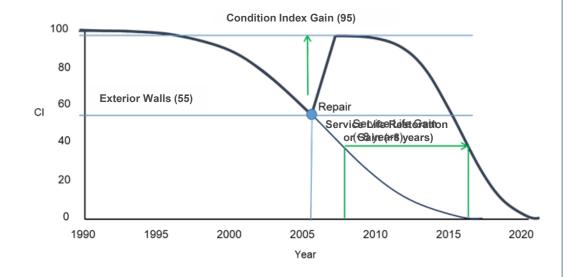


Facility Condition Assessment Report using BUILDER at Air Station Port Angeles, WA

BUILDER – Next Steps

- Incorporate additional shore asset types with system integration
- Model and predict renewal projects and prioritize with MDI
- Justify project cost with service life restoration or gain





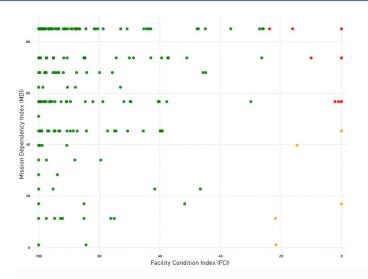




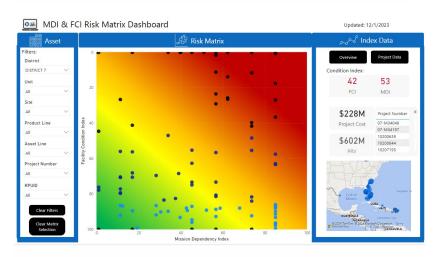
Data Analytics **Combining Mission and Condition Data**

Data Analytics – FCI and MDI (Operational Readiness)

- Create by CATCODE, asset type, location
- Shown live at Centralized Planned Obligation Prioritization (C-POP) Board
- Could be used at Regional POP Boards
- Portfolio managers at headquarters
- Potential for additional metrics in the future



MDI vs. FCI for multi-purpose buildings at boat stations

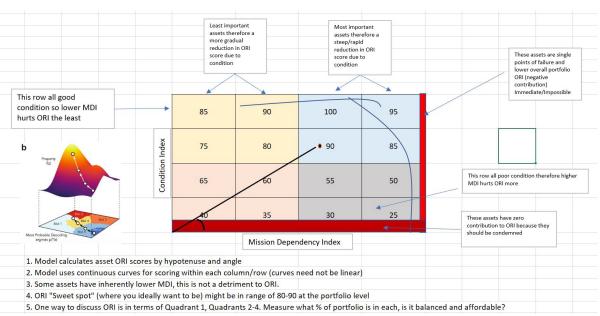


FCI vs. MDI for District 7 shore assets

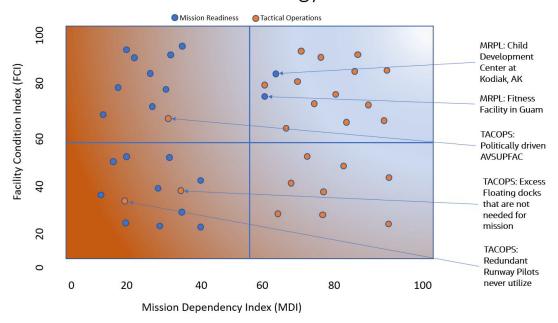
^{*}Please note examples include some unvalidated data

Operational Readiness – An Emerging Concept



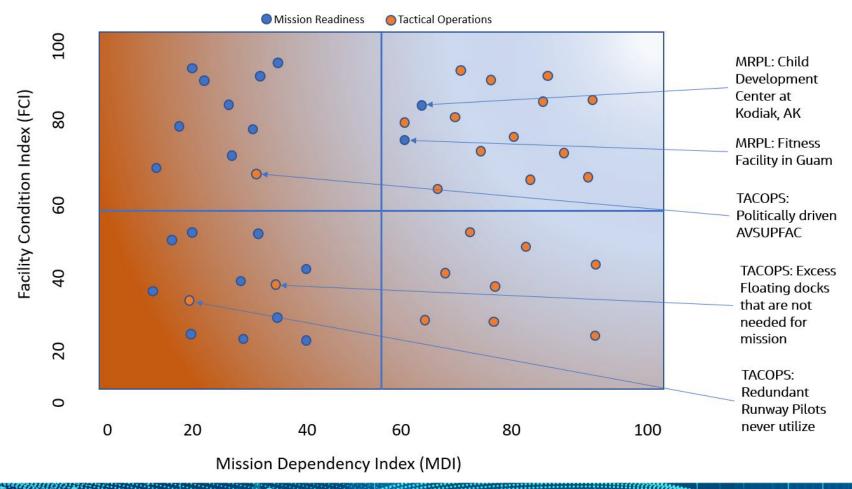


Investment Strategy Matrix

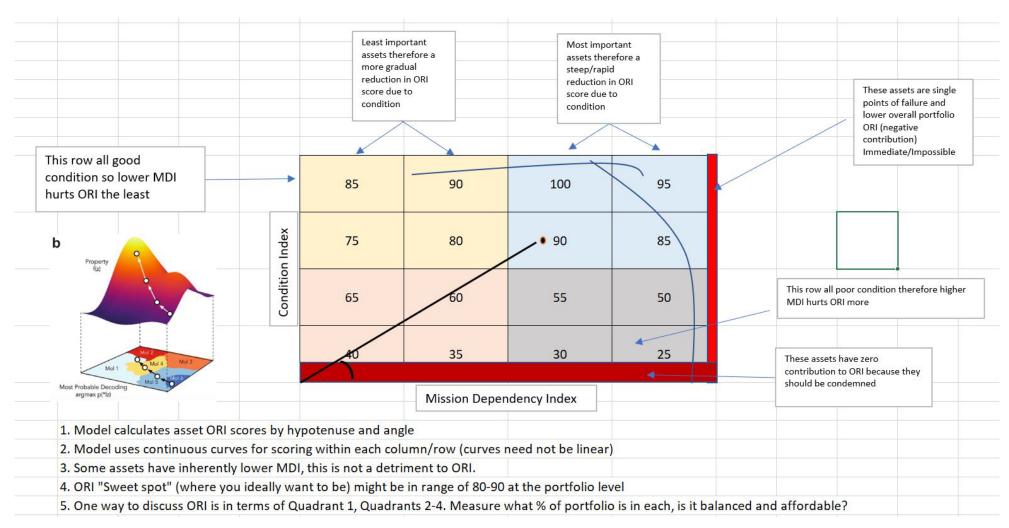


Operational Readiness – An Emerging Concept

Investment Strategy Matrix



Operational Readiness – An Emerging Concept









What About the People? Risk to Institution







Congressional Testimony on the State of Infrastructure Across the Federal Sector (February 2024)



Live Content Slide

Poll: Does your organization have a good strategy to support a healthy and high-performing workforce?

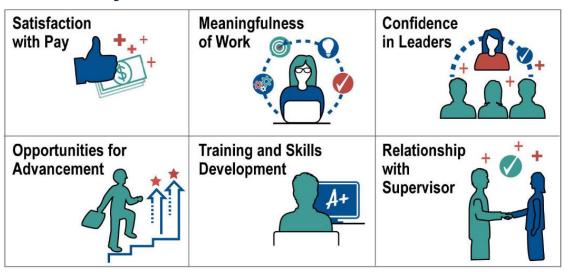
Risk to Institution



The quality of our facilities and ships not only impact mission readiness; it's an important potential recruits think about when they consider the Coast Guard for service.

-Admiral Linda Fagan, Commandant

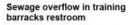
Non-facility-related Factors



Source: GAO analysis of 2017 Office of Personnel Management Federal Employee Viewpoint Survey data. | GAO-20-592

Facility-related Factors







Cracked sewage pipes recently removed from





Water damage on barracks Pests observed in barracks room hallway ceiling tiles

Source: Department of Defense (left); GAO (all others). | GAO-23-105797





Risk to Institution

- It's not just about assets missions are executed by people
- World-class operators need support and facilities they can succeed from
 - Every mission begins and ends at a Shore Facility, but missions cannot happen without people
- Coast Guard is experiencing a 3,500-person shortfall
 - Forces the CG to take ten cutters out of service, transfer five tugs to seasonal activation, and shutter 29 boat stations
 - Means there are fewer personnel available to conduct preventative and corrective maintenance at CG units
- Need to raise the overall score of "C" to a condition index of 90 to meet the DHS standard
 - Must overcome decades of underfunded shore infrastructure
 - Budget forecasting models using MDI provide data-driven approach to advocate for funding
 - Need to rethink how we operate. Can we better utilize technology to decrease demands on infrastructure?
 - Consider cheaper alternatives when planning infrastructure projects.
- Audience participation
 - Are there metrics, and how do you measure? (Surveys vs. Interviews)
 - Is there a quantitative approach?





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THANK YOU

Please take a few minutes to complete a short survey about this session. Your feedback will help us improve future programming for JETC.

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