

# PORT *MODERNIZATION* at a GLANCE



## Port of Guam Resiliency and Readiness Initiative ATOSSCOM 47<sup>TH</sup> Annual Conference

Hotel Nikko Guam  
December 5-6, 2022



# PORT *MODERNIZATION* at a GLANCE

**Port Modernization Video**



# The Way Forward (2022 – 2025)

## Planned Resiliency and Readiness Initiatives

- 2022 PAG Master Plan Update
  - Port Readiness Plan
  - Port Wharves Assessment & Upgrade
  - Customs Inspection Feasibility Study
  - Solar Power Energy Feasibility Study
- Crane Demolition Project
- PAG New Cranes Acquisition Program
- Wharves Service Life Extension- Hardening of F1 Pier and Wharves F2 to F6
- F1 Pier and Golf Pier Fuel Pipeline Connectivity Project
- Rehabilitation of Area A Fuel Storage Facility
- OLDCC funded In-Water Infrastructure Study
- Guam/CNMI Regional Resiliency Assessment Report (RRAP)
- PAG/PUGG/Customs Port Community System

# Gantry Cranes 2 & 3 Demolition



- Demolition of two (2) archaic, damaged, and inoperable STS gantry cranes that will be shipped off island to an approved disposal facility
- Included in the demolition activity is the dismantling of two (2) rubber gantry cranes, one (1) mobile harbor crane, and one (1) damaged floating barge

# New STS Gantry Crane Acquisition Program



- The PAG submitted a grant application to MARAD's FY22 MEGA Grant Program for three (3) STS gantry cranes in the amount of \$48 Million
- The three (3) operational cranes are refurbished 1983/1984 era upgraded Hitachi cranes (Green) purchased in 2008 from the Port of Los Angeles are at the end of their useful life

# Wharves Service Life Extension



- \$22 million project - \$17.6 million USDOT RAISE grant award
- Repair and replacement of portions of F1 Pier
- Repairs to sheet pile walls on F2, F3, F4, and F6
- Repair cracks at F5
- Currently in National Environmental Protection Act (NEPA) and Section 106 review processes

# F1 Pier & Golf Pier Fuel Pipeline Connectivity Project



- Installation of fuel pipeline between F1 Pier and Golf Pier to provide for connectivity between Guam's only two (2) fuel piers
- Ensure that bulk fuel, jet fuel, and LP gas distribution and delivery remains uninterrupted on Guam in the event either piers are taken off line for necessary maintenance/repair or if impacted by natural or man-made incidents

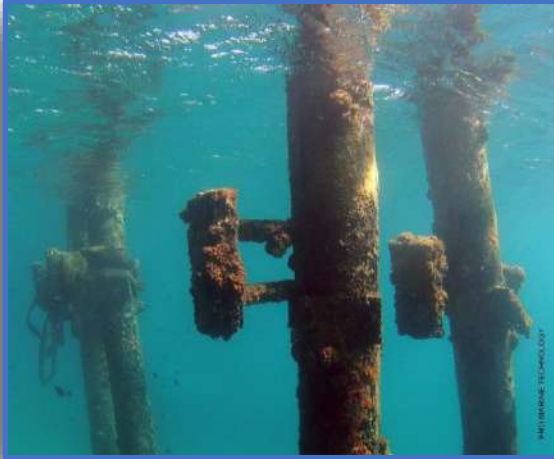
# Rehabilitation of Area A Fuel Storage Facility



- Grant application submitted to MARAD's FY22 MEGA Grant Program in the amount of \$53 Million to replace above-ground fuel storage tanks and infrastructure
- Increase Guam's overall fuel storage capacity
- Ideal secondary/alternate fuel depot to support anticipated DOD increased fuel capacity requirements in the Indo-Pacific Theater
- Upgrade design to accommodate a wide range of fuel products including gasoline & diesel for civilian consumption, jet fuel for military use, and oil for use by the Guam Power Authority



# In-Water Infrastructure Study & Military Readiness



## Phase 1:

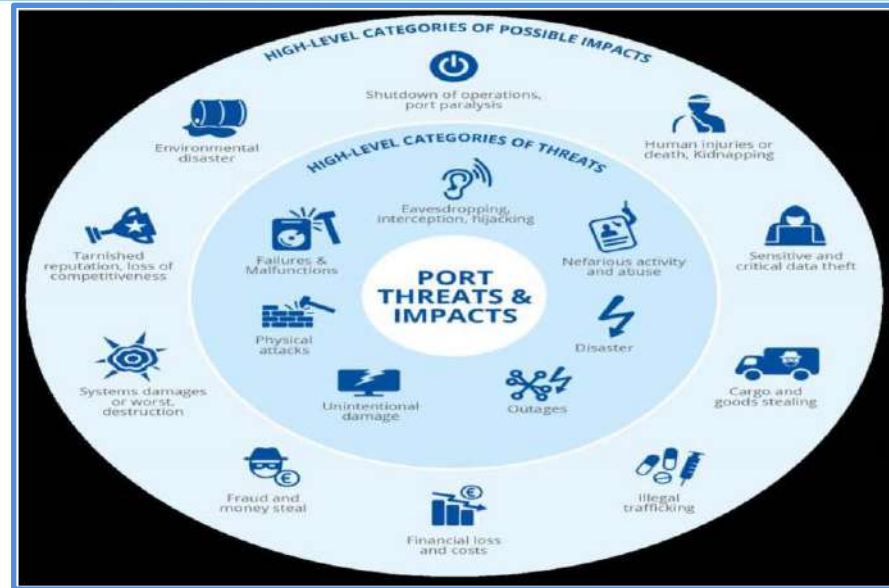
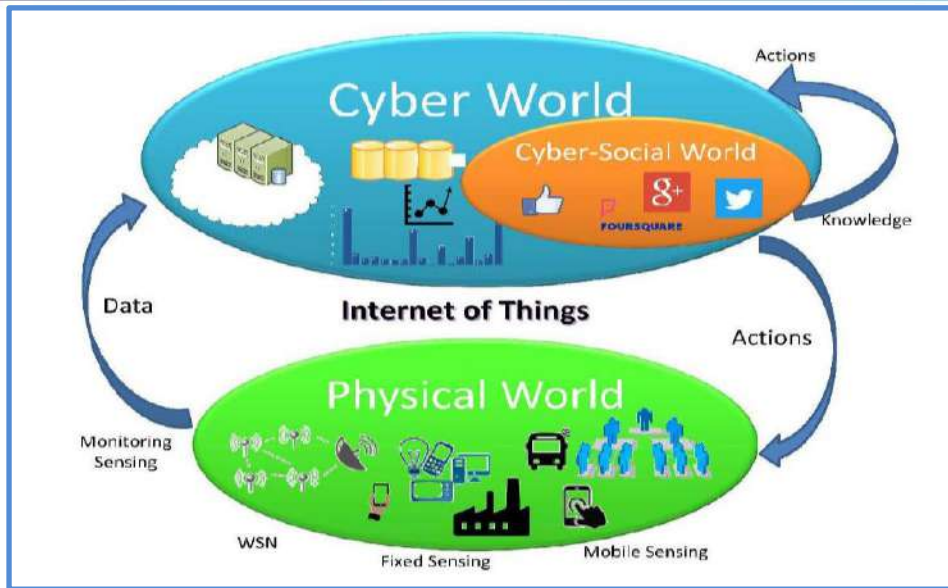
- In-Water Feasibility Study
  - Above-Water Inspection
  - Underwater Inspection
  - Facility Condition Report
  - Concept Development and Report

## Phase 2:

- Military Readiness
  - Evaluate Area A
  - Evaluate Hotel Wharf
  - Military Readiness Report



# USDHS Cybersecurity & Infrastructure Agency (CISA) Guam/CNMI Regional Resiliency Assessment Report



- The increased growth and reliance to information technology has made Guam's critical infrastructure sectors more complex and more interdependent to each other, thereby making them more fragile and susceptible to threats that focus on their vulnerabilities, both cyber and physical
- The Guam RRAP will result in an assessment of cyber and physical security threats and their impact across all critical infrastructures and provide solutions that will build cyber/physical resilience and economic sustainability
- The Guam RRAP will also study Port information & operational technologies to include port restoration and alternate port solutions

# PAG/PUGG/Customs Port Community System

## Creating a Connected Port Community

	PORT AUTHORITY OF GUAM	GUAM CUSTOMS	PORT USERS GROUP GUAM
VALUE PROPOSITION	<ul style="list-style-type: none"> <li>✓ INTELLIGENT AND SECURE EXCHANGE OF INFORMATION</li> <li>✓ MULTI-LAYERED TRANSPARENCY ALONG LOGISTICS CHAIN</li> <li>✓ DATA INTEGRITY AND RELIABILITY</li> </ul>		
	Automated intermodal data	Ability to mobilize based on demand	Automated data flow related to Port logistics
	Reliable operational and cargo data	Reduction of contraband from cargo transparency	Simplified view into port-related activities
	Automated revenue processes	Automated tariff processes	Transparent and reliable cargo invoicing
	Reduce unexpected interruptions in processes	Decrease Customs clearing time	Increase control over shipping logistics

The end goal of a fully integrated, self-sustaining PCS requires an understanding of all the actors, their roles and the exchange of information required in order to drive business value into the Guam supply chain ecosystem.

# Federal Partners / Funding Resources

- US Department of Defense
- US Office of Local Defense Community Coordination
- US Department of Transportation / MARAD
- US Department of Homeland Security / FEMA
- US Economic Development Administration
- US Army Corps of Engineers
- US Department of Interior
- US Department of Agriculture
- US Fish and Wildlife Services
- US Office of Public Safety



# PAG Next Steps

- Replacement of STS gantry cranes, hardening of Port wharves and infrastructure, and replacement of aged buildings
- Buy American Act (BAA) Waiver – work with AAPA and other jurisdictions with similar BAA equipment and construction materials challenges and network for a stronger voice to USDOT MARAD
- Continue to elevate PAG's strategic importance to DOD's Pacific Deterrence Initiative to key policy makers in Washington DC
- Continue to pursue funding/financing opportunities to further harden Port facilities to achieve resiliency and supply chain sustainability

# Port Authority of Guam

**Rory J. Respicio**  
**General Manager**

[rjrespicio@portofguam.com](mailto:rjrespicio@portofguam.com)

[www.portofguam.com](http://www.portofguam.com)

