

# Risk Management and Port Resilience

**USCG**

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# Challenge – Natural Disasters & Port Vulnerability

- **Ports are critical nodes in global and regional supply chains.**
- **Increasing frequency and severity of hurricanes, floods, and other natural disasters threaten port operations and infrastructure.**
- **Disruptions can have cascading effects on economies and communities.**



# Comprehensive Risk Management – A Layered Approach

- **Definition: Coordinated activities to direct and control risk across all port operations.**
- **Key Elements:**
  - **Risk Identification:** Recognize hazards (weather, cyber, operational, etc.)
  - **Risk Assessment:** Analyze vulnerabilities, threats, and consequences.
  - **Risk Treatment:** Implement strategies—acceptance, avoidance, loss prevention/reduction, transfer.
- **Layered Security: Integrate physical, procedural, and technological measures.**



# Building Port Resilience – Anticipate, Prepare, Respond, Recover

- **Anticipate:** Use predictive analytics, early-warning systems, and scenario planning.
- **Prepare:** Develop disaster response plans, conduct regular training, and invest in robust infrastructure.
- **Respond:** Activate emergency protocols, coordinate with stakeholders (government, private sector, regional agencies).
- **Recover:** Rapid assessment, phased reopening, and continuous improvement based on lessons learned.



# Collaboration & Regional Coordination

- **Stakeholder Engagement:** Port authorities, Coast Guard, emergency agencies, shipping lines, and local communities.
- **Committees & Communication:** Establish port security committees for information sharing and joint decision-making.
- **Regional Partnerships:** Leverage organizations like CDEMA and OAS for coordinated disaster response and resource sharing.



# Key Takeaways & Actionable Steps

- **Comprehensive risk** management is essential for port resilience.
- **Collaboration and communication** are critical before, during, and after disasters.
- **Continuous improvement:** Learn from real-world events and adapt plans accordingly.
- **Call to Action:** Invest in risk management frameworks, foster partnerships, and prioritize resilience in port operations.

An aerial photograph of a port area, showing a river or canal winding through the landscape. On the left side, there are several large industrial buildings and structures. The right side of the river appears to be a more natural, wooded area. The overall scene is dimly lit, with a dark blue tint.

# Questions?

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