Positioning America for the Future:
Port Tomorrow Resilience Planning Tool

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Port Tomorrow Concept:
An Integrated Framework for NOAA

- Navigation Services
- Integrated Coastal Management
- Weather & Climate
Port Tomorrow: Resilience Elements

1. Develop targeted products and services to support cohesive, integrated approach to MTS infrastructure investment and coastal stewardship

2. Implement a resilience assessment framework and metrics related to port operations, community livability, and risk and vulnerability to coastal hazards

3. Pursue programmatic incentives for port community infrastructure projects
Resilience Planning Tool

- Interactive website organized around port resilience indicators and criteria
- Includes relevant documents, data, resources and links
- Designed for users to explore resilience considerations and options in developing marine transportation projects and funding applications
- Users: transportation planners, port infrastructure planners, community planners, hazards planners
Resilience Planning Tool: Objectives

• Demonstrate a niche role for ICM in marine transportation decision-making

• Provide a data-enabled resilience framework for use in:
  – Setting federal infrastructure investment goals
  – Evaluating progress
  – Applying for federal funding (e.g. DoT TIGER grants, EPA Brownfield grants, etc.)

• Demonstrate resilience framework at multiple levels
Resilience Planning Tool: Components

- Resilience Assessment & Planning Criteria Checklists
- Port Community Profiles
- Practical Examples and Maps
- Key Resources
Planning for Resilient Marine Transportation

To be resilient, port communities should have the infrastructure and resources needed to sustain safe, secure and economically viable marine transportation system operations.

**Marine Capacity**
Does the marine side of the marine transportation system infrastructure have adequate capacity to support current and projected freight transportation demands?

**Intermodal Capacity**
Does the land side of the marine transportation system infrastructure have adequate capacity to support current and projected freight transportation demands?

**Safety and Security**
Does the marine transportation system infrastructure adequately support current and projected safety and security requirements?
Planning for Resilient Port Communities

To be resilient, port communities should effectively balance economic, environmental and societal benefits and costs associated with marine transportation operations.

**Community Livability**
Does the port and surrounding community collaboratively evaluate and address marine transportation system impacts on health, safety and quality of life for local residents?

**Natural Resources**
Does the port and surrounding community collaboratively address marine transportation system impacts on the health, function and sustainability of critical natural resources?

**Economic Development**
Does the port and surrounding community collaboratively invest in marine-related economic development, workforce training and community education?
Planning for Resilience to Coastal Hazards

To be resilient, port communities should be able to keep marine transportation moving, businesses open, and people working, despite the effects of hazard events.

Hazard Risks
Does the port community collaboratively and proactively evaluate and address hazard risks to marine transportation system resources?

Community Vulnerabilities
Does the port community adequately address key physical, social and economic vulnerabilities likely to increase disaster impacts or delay disaster recovery of the marine transportation system?

Disaster Responses
Does the port and surrounding community collaborate effectively on disaster response, recovery and mitigation to improve marine transportation resilience?
Next Steps

- Prototype Development (Ongoing)
- Prototype Product Release (Aug)
- Tampa Partnership Implementation (Aug – Dec)
- Tampa Partnership Event/Activity (Sep)
For More Information

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