



Strategic Risk Management and Trade Resumption Planning



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Integrated Port Services

- Risk Assessment, Mitigation, and Management
- Development of Port-wide Risk Management Strategies
- Resource Analysis For Risk Management Strategies
- Concept/Continuity of Operations
- Trade Resumption and Resiliency Planning
- Security Systems Design
- Cost and Value Engineering





Security is key

- **Security** – The ability to:
 - Detect (and assess);
 - Delay; and
 - Respond to malevolent acts.

Security is key to the development and sustainability in the port commerce environment.



Strategic Risk Management Planning (SRMP) Goals

The primary goals of the SRMP process are to:

- Develop a comprehensive strategic risk management plan for an area
 - Utilize and build upon the conclusions and recommendations from previous assessments if available
- Develop a long term investment plan to reduce risks associated with vulnerabilities to the port community



What does a SRMP do?

- Systematically prioritizes facilities, functions, interdependencies, and resources;
- Emphasizes port-wide and region-wide partnering opportunities to optimize regional risk management; and
- Establishes a forward-looking risk management strategy to increase security, survivability, and interoperability by decreasing vulnerabilities port- or region-wide.

The SRMP Process

- Evaluate Previously Completed Risk Assessments
 - Scope and Methodologies
 - Threats
 - Vulnerabilities
 - Consequences
- Develop Data Gap Analysis Summary
- On-site Validation
- Establish Current Qualitative Risk Baseline





The SRMP Process, cont.

- Define target (end-state) risk goals
- Identify end-state risk reduction measures to “fill in the gaps” and achieve goals
- Determine future port- or region-wide risk



The International Risk

■ Critical Issues

- Piracy
- Emerging Threats (e.g., extremist groups, etc.)
- Internal Response Force Integrity
- International Task Force Response
- The Security / Development Nexus



Trade Resumption and Resiliency (TRR) Goals

- Develop mitigation strategies for rapid restoration of critical facilities
 - Includes elements of preparedness, survivability, and resiliency.
- Develop simplified cost-benefit model to identify and prioritize projects



TRR Methodology

- Conduct Regional-scale Economic Modeling
- Identify and Analyze Port-wide Systems
- Assess Recovery and Response Capabilities
- Identify and Prioritize Mitigation Gaps
- Perform Cost-benefit Analysis of Mitigations
- Develop Business Continuity and Trade Resumption Plan



Awareness, Prevent, And Protect Mission Area Gap Analysis

- Maritime Domain Awareness
 - Multi-agency Information Centers
 - Interoperable Communications
 - Intelligent Radar
 - Private Sector Information Sharing
 - Security Awareness Training



Awareness, Prevent, And Protect Mission Area Gap Analysis

- Prevention
 - Electronic Systems to Monitor the Waterway
 - National Police and Coast Guard Operations on the Waterway
 - Coordinated International Task Force Operations
 - Private Sector Security Management



Awareness, Prevent, And Protect Mission Area Gap Analysis

■ Protection

- CCTV Surveillance, Intrusion Detection, and Access Control for Critical Infrastructure (e.g., bridges, pipelines, etc.)
- Facility Access Control for Dock Workers
- Enhanced Security For Vessels In Coastal Areas



Response and Recovery Mission Area Gap Analysis

- Emergency Response Gaps
 - Interoperable Communications
 - Information Sharing
 - Lack of Planning, Equipping, Training, and Exercising (PETE), Special Teams in Police, Fire, Hazmat, EMS and Public Health
 - Inadequate Marine Fire Resources and Training to National Standards
 - Limited Marine Patrols / Presence

Response and Recovery Mission Area Gap Analysis



- Recovery
 - Short-and Long-term Recovery Plan
 - Private Sector Resource Usage Strategy
- Trade Resumption and Resiliency Gap Analysis
 - Integrated Logistics and Transportation Concept of Operations



Trade Resumption and Resiliency Gap Analysis

- The most critical support systems and elements for trade resumption and resiliency are typically:
 - Availability of a Skilled Workforce;
 - Electricity;
 - Transportation (i.e., rail, road, as well as maritime); and
 - Communication.

Resumption Prioritization

- Based on economic impacts, system interdependencies, and sector resiliencies
 - Industry Prioritization
 - Vessel Prioritization





Implementation of the SRMP mitigations will:

- Help promote a safe and secure (i.e., risk-based) operational environment;
- Promote the economic viability of ports, terminals, intermodal centers, and carriers; and
- Implement a dynamic trade resumption and resiliency plan.



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