

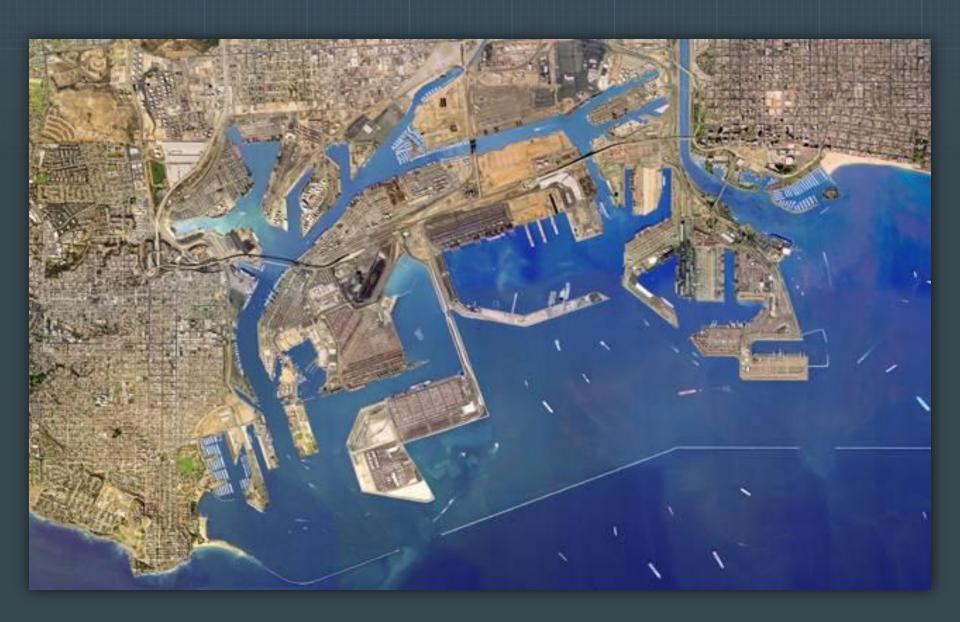
RISK MANAGEMENT: REFLECTIONS ON PORT SECURITY

Presented by Cosmo Perrone

Principal, Cosmo Perrone & Associates

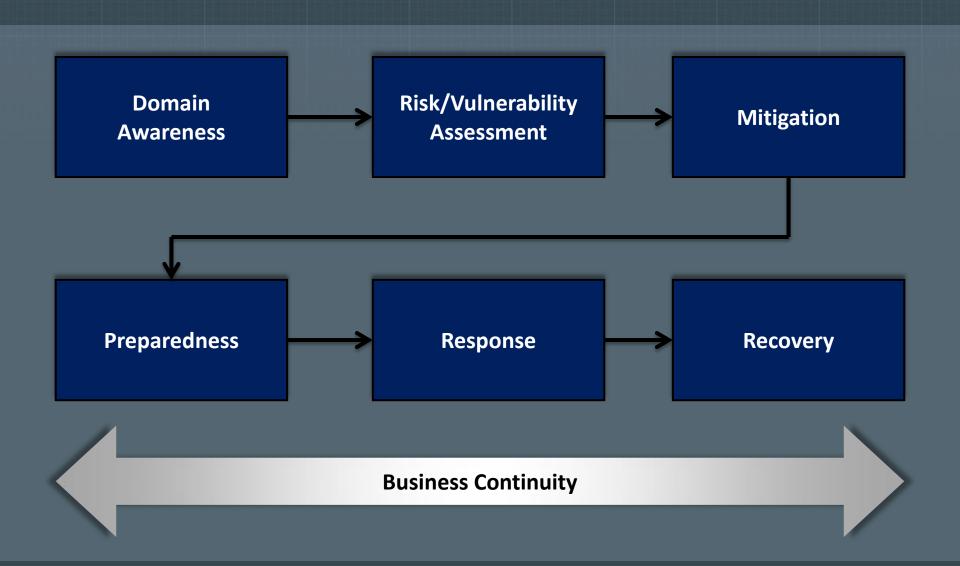


San Pedro Bay – 2 Ports, 1 Harbor



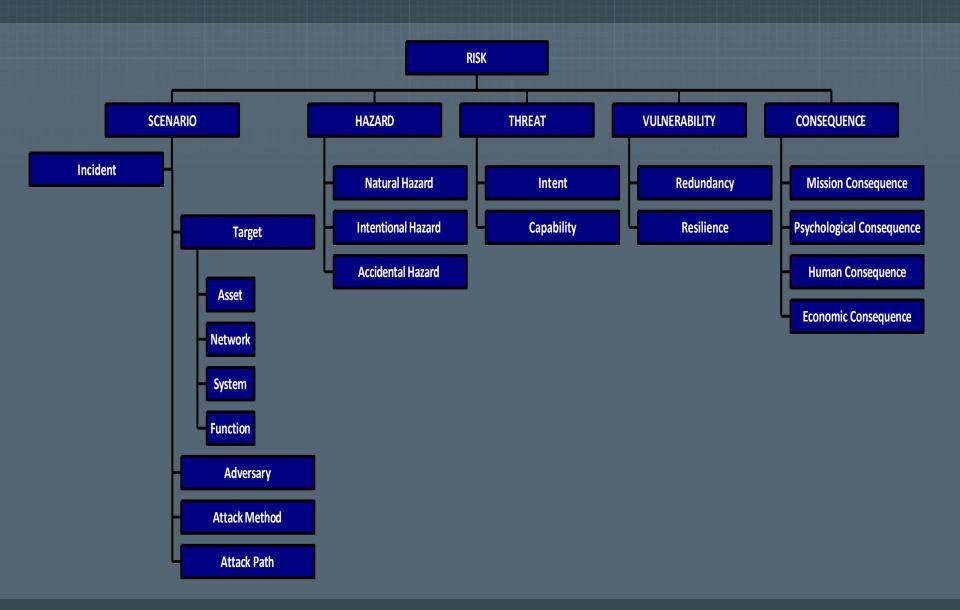


Security System Model



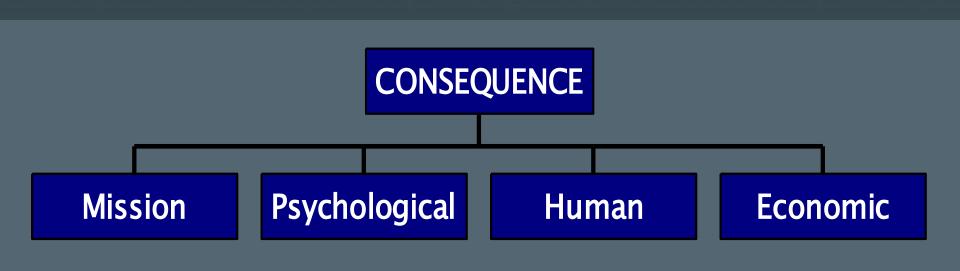


DHS Risk Model



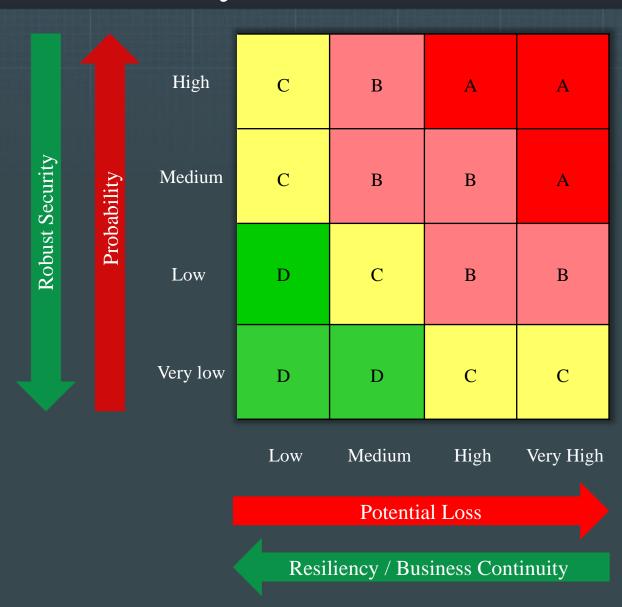


Consequence





Risk Analysis Model



Probability

X

Potential Loss

Risk =

Robust Security

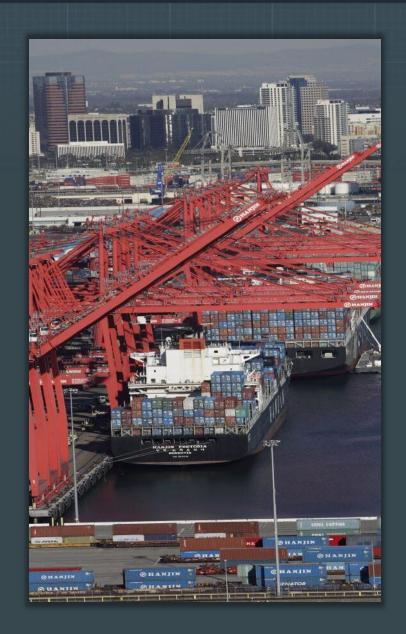
X

Resiliency / Bus. Continuity



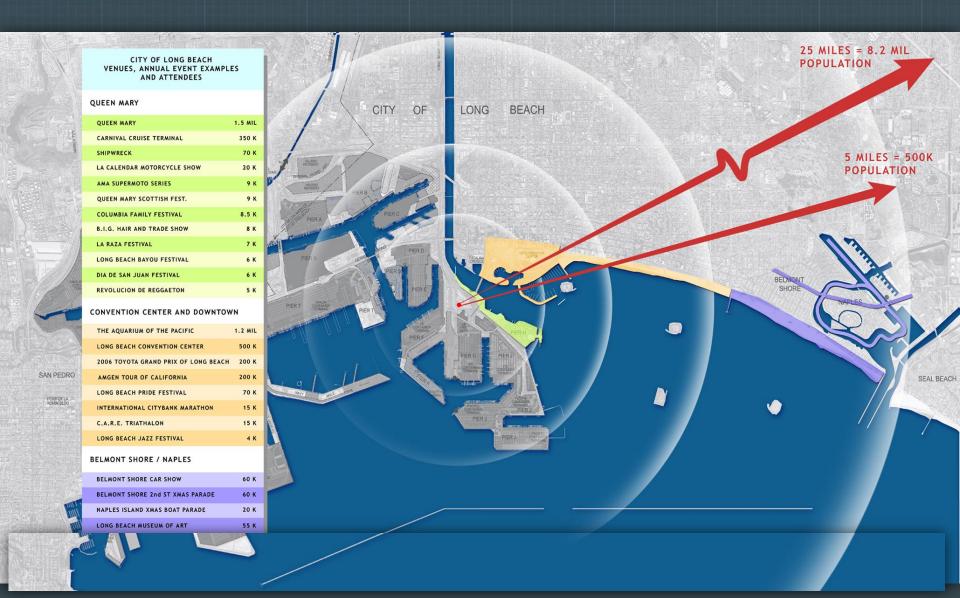
Hazards

- Earthquakes
- Infrastructure Failure
- Hazmat Release
- Labor Issues
- Power Failure
- Flooding
- Epidemic
- Tsunami
- Terrorist Act
- Sabotage
- Radiological Release



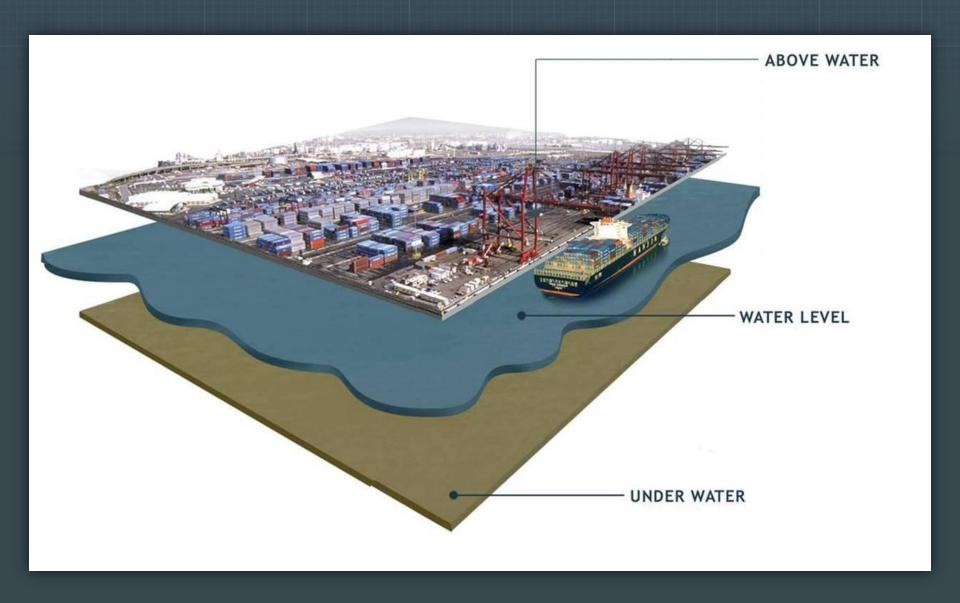


Population



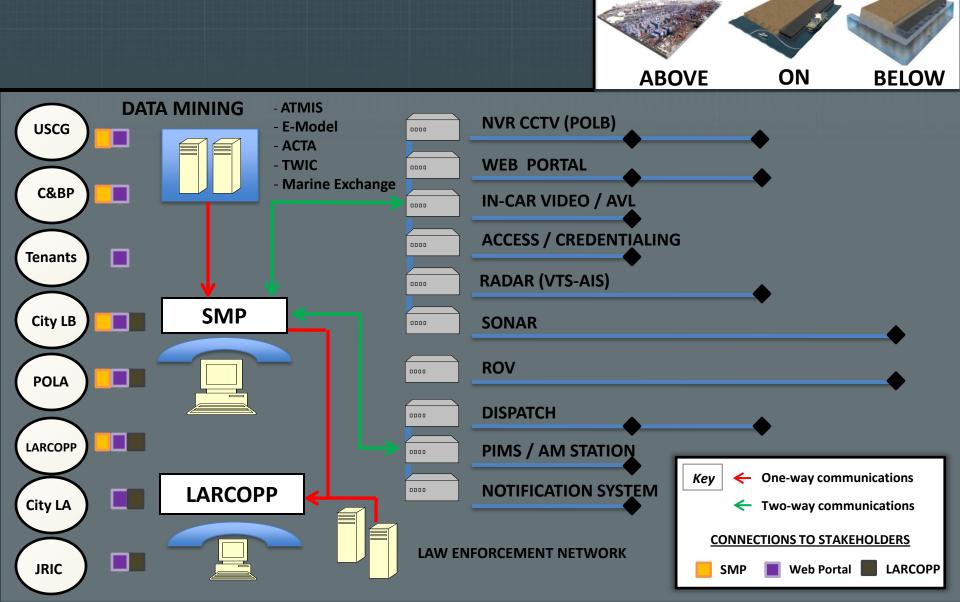


Mitigation Approach





System / Regional Integration





Regional Integration

Strategic MOU's

Marine

Exchange

POLA

Cal Trans

US Coast

Guard

UPR

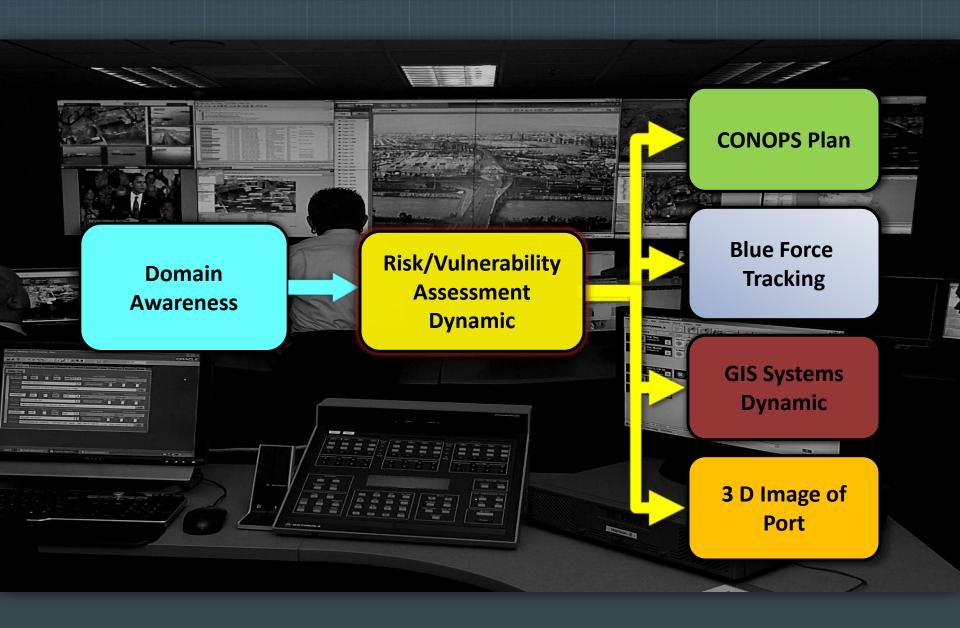
Police

- 1. Total Terminals Inc.
- 2. SSA Four Locations
- Long Beach Container Terminal
- 4. Sea Launch
- 5. Catalina Express
- 6. Mitsubishi Cement Corporation
- 7. Morton Salt
- 8. Queen Mary
- 9. Carnival Cruise Lines
- 10. Metropolitan Stevedore Company
- 11. Jacobsen Pilot Services
- 12. Georgia Pacific Gypsum Company
- 13. British Petroleum
- 14. Baker Commodities
- 15. Foss Maritime
- 16. Chemoil
- 17. California United
 Terminals
- 18. Harbor Rail Line
- 19. Pacific Tug Bats
- 20. Weyerhauser
- 21. Pacific Coast Recycling
- 22. THUMBS





Virtual Port Model





Business Continuity

• Business Model

- Governance and decision making
- Organizational resilience: key single point failures?
- Processes and procedures
- Stakeholder participation and interdependencies

Value Chains

- Flowchart process
- Identify critical support functions
- All dependencies and interdependencies

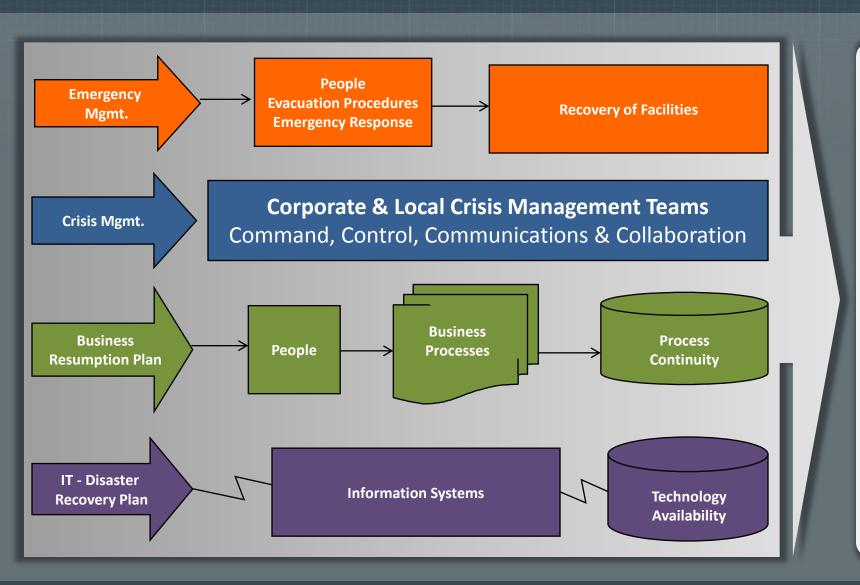


Business Impact Analysis

- Critical Infrastructure
 - Geospatial approach
- Communications
- Suppliers & Vendors
 - Single source?
 - Within same threat environment?
- Emergency Operations
- Labor
- Critical Societal Factors
- "Psychology Of The Incident"



How It Fits Together



n e S



Resiliency Culture

- Assessment on a regular interval
- Designing and delivering improvement
- Exercise of plan
- Maintenance of the plan
- Audits
 - Self
 - 3rd party



Benefits

- Ability to absorb stress and operate critical functions
- Quick decision making
- Adaptability
 - Pre-identified alternatives
- Improvement management systems
 - Identifies waste



Regional Strategic Planning

- POLB Security Strategy
 - Future Business Model: 5, 10, 20 Years
- Area Maritime Security Committee
 - 7B Risk Mitigation Plan
- LB City Homeland Security Strategy
- LA County OA Strategic Plan (UASI)
- California Maritime Security Council
- Pan-Pacific Strategy?
 - Canada And Mexico?
 - All West Coast Ports?



