

CENT LANGUAGE IN DOUBLE ADVANCES IN DOUBLE AND A SECOND SE

ADDRESSING RESILIENCY IN STATE TRANSPORTATION PLANS; NORTH CENTRAL TEXAS COG--JUNE 26, 2019 "Enhancing Freight Transportation System Resiliency Through the Application of Strategic Asset Management Methodology" ERIK STROMBERG, EXECUTIVE DIRECTOR, CAPM

CAPM: DEGREES, CERTIFICATES AND CONTINUING EDUCATION

- Degrees/Concentrations:
 - Masters of Science in Port and Marine Terminal Management
 - MBA and Masters of Engineering Management with Concentrations in Port and Marine Terminal Management
- Certificate Programs
 - Global Trade and Logistics
 - Ports and Marine Terminal Development and Operations
 - Management and Leadership



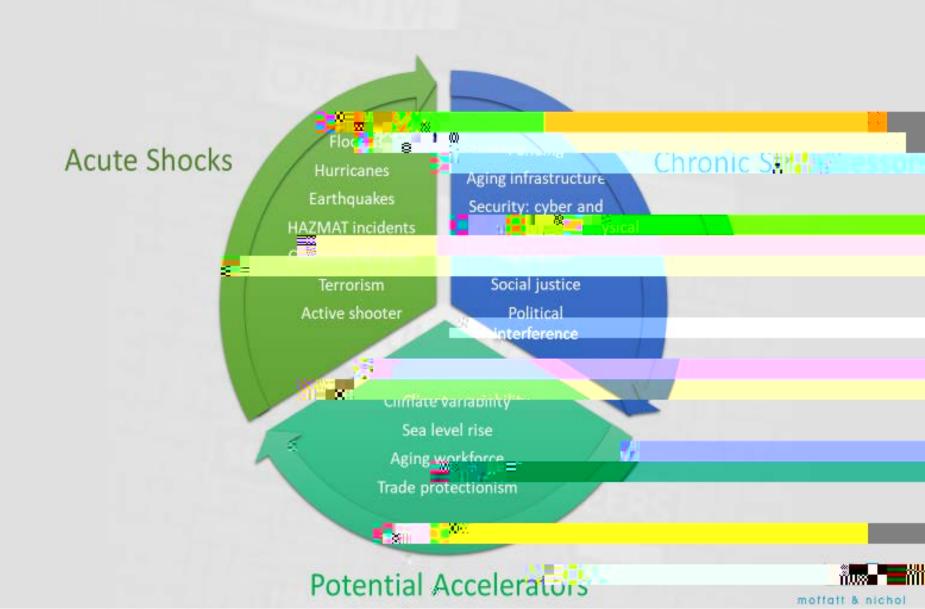
PORT AND MARINE TERMINAL MASTERS DEGREE CURRICULUM

•



WHAT IS STRATEGIC ASSET MANAGEMENT?

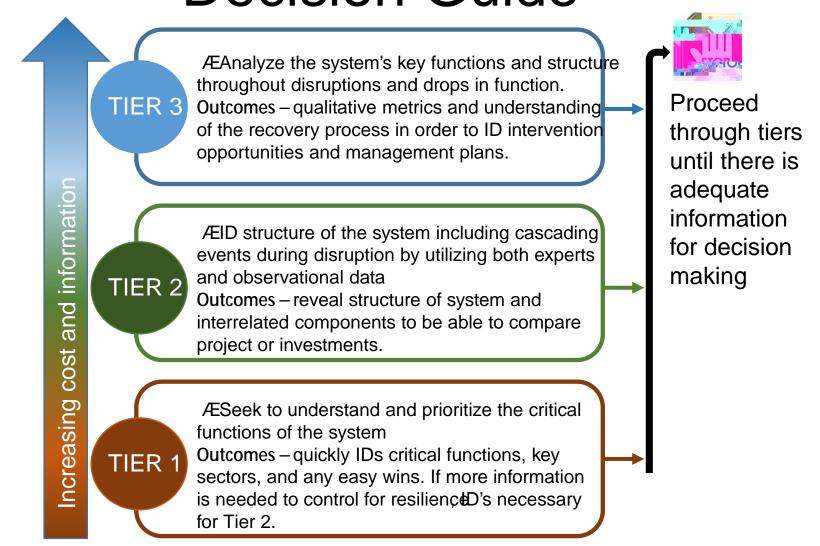
- "...coordinated activity of an organization to realize value from assets." (ISO 55000)
- …links the organization'system's assets to its strategic and business goals
- It is not a project, but a process: dadaiven, risk based
- Success is derived through the engagement of the entire organization (osystem).



Hurricane



Port Resilience Assessment and Decision Guide



SABINE-NECHES WATERWAY PORT AND TRANSPORTATION SYSTEM RESILIENCY

- SNWW and connecting transportation infrastructure critical to regional, statewide and national prosperity and security
- Approach:
 - Utilize SAM methodology
 - Build on 2009 USCG 'Povitde risk mitigation study' (ontime, nation-wide initiative)
- Proposed study supported by all major SE Texas private and put stakeholders
- Overarching study on SE Texas Economic Resiliency Underway funded)

SNWW RESILIENCY STUDY: APPLICATION OF SAM METHODOLOGY

• Outcome: Identification through a datariven, riskbased process, critical infrastructure projects and 9.9To



3. Identify, assess and inventory assets/asset classes critical to resilient SNWW port and waterway system

- Navigation channel
 - Dimensions—average and under stress
 - ATON
 - Levees, drainage and other flood control assets, including wetlands
 - Pilots
 - Tugs
 - VTS and PCT
- Docks and wharves
- Roads and highways
- Railroads—Class I and short lines
- Pipelines
- Airports (international and regional)
- Communication infrastructure
- Power supply infrastructure
- Emergency management facilitys)
- Workforce



STAKEHOLDER SURVEY SAMPLE QUESTI

- What is your organization is ission/goa(s), as related to your corporate priorities as well as those of your Texas location?
- What assets or asset classes under your control (built, natural, human) are strategically critical to the achievement of your mission/goal(s)? Have these assets been identified as part of a deliberate ottoth B961.3739 384.305 Tmmat beakEle(r)2Q8w7 (a)8 (tt)2.7 (o)

PRELIMINARY SELECTED KEY ISSUES

- Public/private sector support-partnership with SETWAC critical
- Communication networks and processes--critical
- Assembling/harmonizing data across public and private sectionstitutionalize data and processes (aging workforce retires)
- Private sector (g, oil and gas) proprietary concerned (plant vulnerabilities; impact on nation's gas prices)
- CorporateHqvs plant managers
- Railroad participation
- Corporate interest and resource availability (staff/funding) easuring benefits and costs (run to failure) vs competing priorities. Making the business case.
- Freight transportation forecasting and lack of capacity for redundancies and amounted. (Regional approach.)
- Integrate planning initiatives freight interests and COGS (SETWAC and SETRP@ideateest gulf)
- Model risks—implications for transportation system and asset classes (including regional/functional particularities,egnitrogen)
- Collecting appropriate data and detail to extent necessary to facilitate decision making
- Current and relevant flood plain maps
- Regulatory role (waivers?)
- Study and implementation funding!



A&D

- Contacts:
 - Erik Strombergrstromberg@lamar.ed,u rolferikstromberg@gmail.co,m409880-7114, 910617-6800