



## *Strategic Port Initiative*

The vast majority of supply chain logistics moves by sea.

Sea-based cargo exceeds 95 percent of total required military logistics flow for sustained operations in each defined war risk / major regional crisis theater.

There are 14 designated Strategic Ports within the United States that are critical links in logistics transfer to our military forces overseas.



## *Present state:*

- ◆ Strategic Port project grants:
  - ◆ Fragmented.
  - ◆ Variances in...
    - ◆ vendor support,
    - ◆ agency resources,
    - ◆ planning quality, &
    - ◆ execution
  - ◆ Few performance metrics
  - ◆ Minimally integrated
    - ◆ physical security focus
    - ◆ point to point communications systems
    - ◆ perimeter sensor and surveillance systems
  - ◆ Limited cargo screening technology
  - ◆ Few infrastructure cost reduction or environmental project efforts





## *Challenges:*

- ◆ Institutional challenges inhibit progress:
  - ◆ Fund distribution methods
  - ◆ Ineffective national interest needs analysis
  - ◆ Lack of focus on logistics flow
  
- ◆ Ports compete...
  - ◆ For scarce facility enhancement funds
  - ◆ For carrier business & do not share technologies to enhance productivity
  
- ◆ Vendors face...
  - ◆ Procurement and prototype placement obstacles for new technologies
  
- ◆ Education institutions seek...
  - ◆ Partnerships for research
  - ◆ Grant collaboration





# Goals:

## Strategic Port Initiative Goals:

- ◆ Time-efficient, streamlined platform opportunities to test and integrate candidate technologies and implement infrastructure projects
- ◆ Fairly evaluate technology and process improvements to:
  - ◆ reduce life-cycle capital and operating costs
  - ◆ enhance cargo transfer and transport efficiency
  - ◆ bolster security measures
  - ◆ facilitate multi-agency response to crisis or threats.
- ◆ Overcome barriers to communications throughput and data sharing
- ◆ Develop coordinated plans to export proven technologies and lessons learned to all Strategic Ports

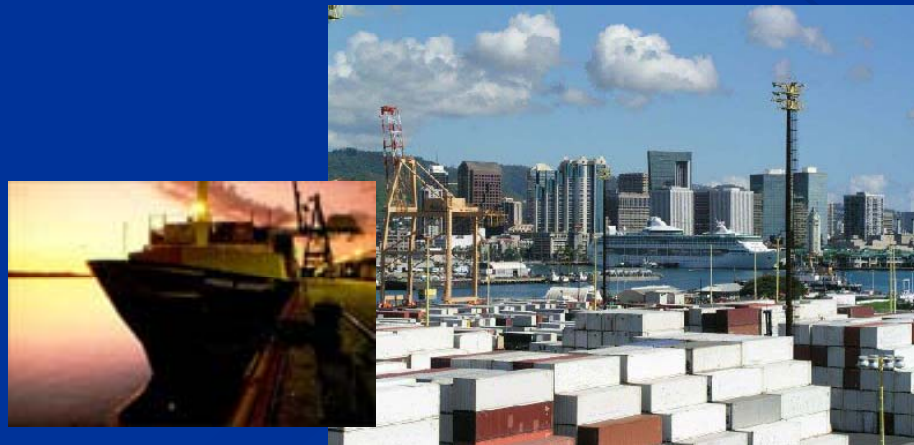




# *Target Concepts:*

## Strategic Port Initiatives:

- ◆ National focus
- ◆ Port and intermodal infrastructure support
- ◆ Process and product testing
- ◆ Integrated system prototyping
- ◆ Attract funds (Commercial and Public, including TIGER Grants)
- ◆ Attract high tech businesses & jobs to each Port
- ◆ Create exportable, standard “package designs”
- ◆ Replicate “packaged designs” for a fraction of the cost of local-unique systems
  - ◆ Diverse test environments
  - ◆ Align interests of Congressional team: House / Senate Military Affairs & Transportation Committees.





# *Strategic Port Initiative (SPI)*

- ◆ Directed by MARAD
  - ◆ Funded by U.S. Congress and others
    - ◆ Infrastructure, prototype and evaluate concepts, equipment & processes to improve
      - ◆ Cargo throughput,
      - ◆ Intermodal operations,
      - ◆ Strategic Port security,
      - ◆ communications,
      - ◆ maintainability &
      - ◆ reduce infrastructure life-cycle cost.
  
- ◆ Strategic Port Centers:
  - ◆ Guam
  - ◆ Anchorage
  - ◆ Honolulu
  - ◆ San Diego \* (enabling legislation required for MARAD MOU).



# *SPI*

## *Task Efforts*

### Test and prototype:

- ◆ Security measures
- ◆ Port utility control and monitoring
- ◆ Data and surveillance systems integration
- ◆ Integrated communications initiatives
- ◆ Construction life extension
- ◆ Cargo expediting and tracking equipment

### Candidate task efforts:

- ◆ Security monitoring and integrated response
- ◆ Data and surveillance systems integration
  - ◆ Vessel traffic management system
  - ◆ GCCS-M
  - ◆ Air traffic control and identification
  - ◆ Underwater surveillance systems
  - ◆ Common secure communications
  - ◆ Integrated communications databases
  - ◆ Intelligence gateways
  - ◆ Backup & data to military facilities





# *SPI*

## *Task Efforts*

- ◆ Intermodal operations and security
  - ◆ Railway infrastructure enhancements
  - ◆ Aircraft monitoring – civilian and military
  - ◆ Waterborne logistics and transit
  
- ◆ Integrated infrastructure upgrades
  - ◆ Rail, Truck and Intermodal Systems
  - ◆ Storm water run-off, filtering / reuse
  - ◆ Pipe lining & coating technologies
  - ◆ Antifouling technologies
  - ◆ Earthquake resistant upgrades
  - ◆ Cargo handling equipment
  - ◆ Environmental technologies
  - ◆ Cold ironing infrastructure
  - ◆ Blast mitigation





# *SPI*

## *Summary*

- ◆ Funding:
  - ◆ Congressional budget allocations,
  - ◆ Federal Railway Administration grants and loans,
  - ◆ Department of Homeland Security grants;
  - ◆ Military Sealift Command, and Military Transportation Management Command capital programs and operating funds;
  - ◆ Commercial project research and development funding,
  - ◆ Education institution research grants,
  - ◆ TIGER Grants
  
- ◆ The Strategic Port Initiative:
  - ◆ Select, implement, and evaluate
  - ◆ technology and methods
  - ◆ of national significance
  - ◆ and benefit to our critical military logistics nodes.





# *Strategic Port Initiative*

