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#### Key Issues and Challenges in Intermodal Transportation Security

Transportation Research Forum March 24, 2006

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#### Agenda

- Current environment
- Programs executed to date
- Challenges
- Addressing the challenges
- Remaining gaps
- Going forward





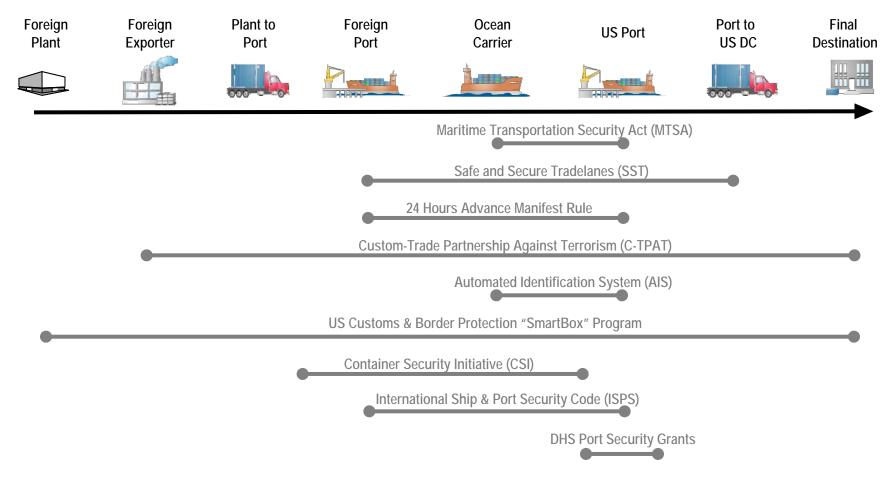
#### **Current environment**

- Intermodal Transportation is complex, involving the movement of goods, documents, and money around the world.
- No single entity or organization is responsible for goods movement
  - International jurisdiction
  - 20+ handoffs
  - 25+ documents
  - 200+ data elements
  - public/private sector integration
- No sector is more exposed than ports and the intermodal freight transportation systems
- Principle threats:
  - Tampering with valid shipment
  - Introducing false shipment in supply chain





#### **Programs executed to date**







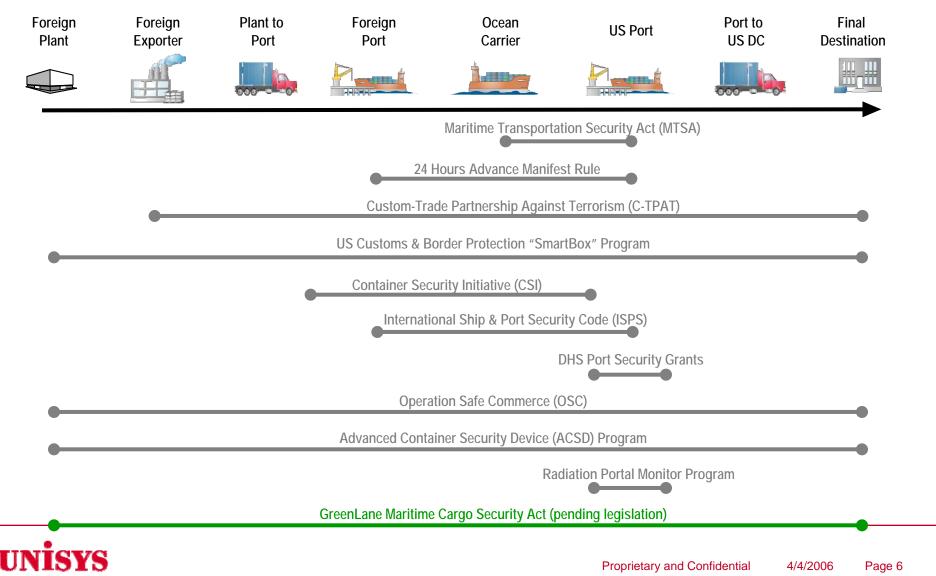
### Challenges

- International jurisdiction for enforcing intermodal security
- Development of effective process & technology security controls
- Visibility to container stuffing and overseas inland dray operations
- Information sharing and profiling with overseas parties
- Acceptance of standardized policies & procedures
- Testing & development of commercially viable security solution





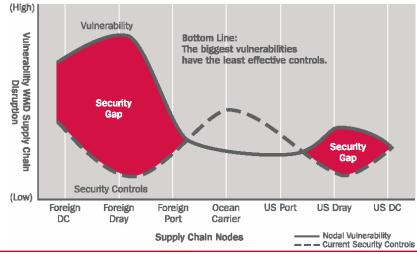
### Addressing the challenges





## **Remaining gaps**

- Well defined & executed International Jurisdiction
- Secure Stuffing validation & communication
- Direct controls on overseas in-land drayage most vulnerable node
- Near- term commercially viable container security technology
- Clearly articulated Emergency Response & Restart Protocols







## **Going Forward**

- View Vulnerability from two perspectives:
  - Point attacks against single elements
  - Systemic attacks against the infrastructure as a whole
- Get consensus on:
  - Threats and vulnerabilities to address
  - Effective & In-effective controls/policies
  - Do-Now Vs. Do-Later
- In the short term, use a Layered approach to focus on:
  - Stuffing integrity
  - Overseas drayage security
  - Container Breach detection
  - Advanced technologies at ports

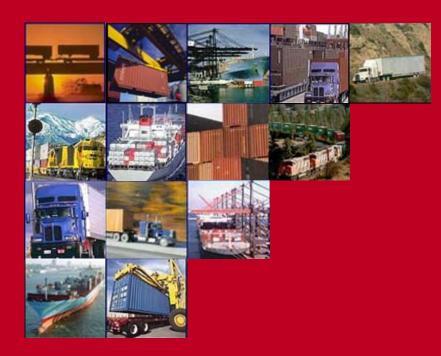
Overall, Intermodal Transportation security can be improved by:

- Practical solutions No Silver bullet technology or policy/ regulation
- Effective public and private sector collaboration.

But more needs to be done







#### **Thank You**

