



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

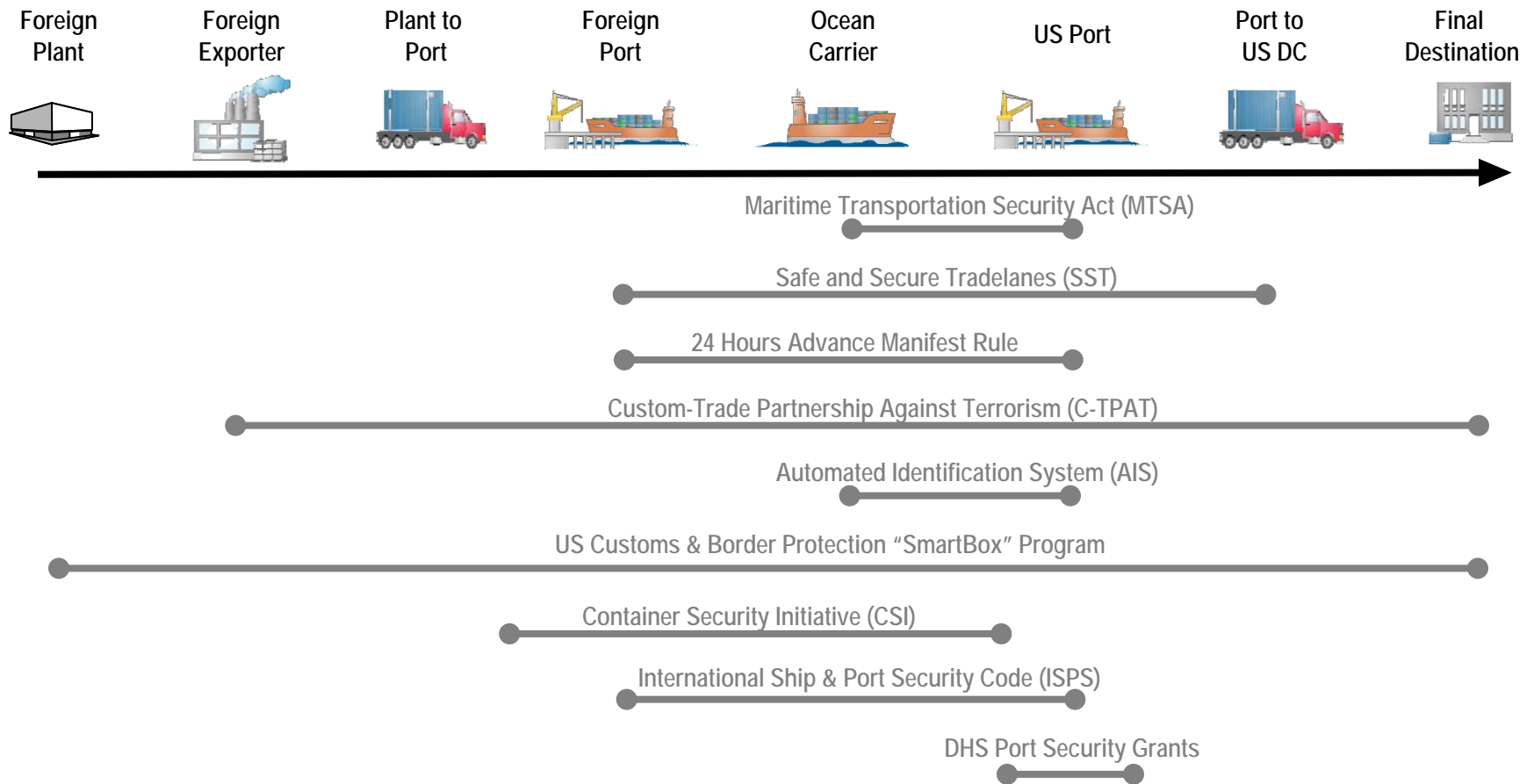


Current environment

- 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



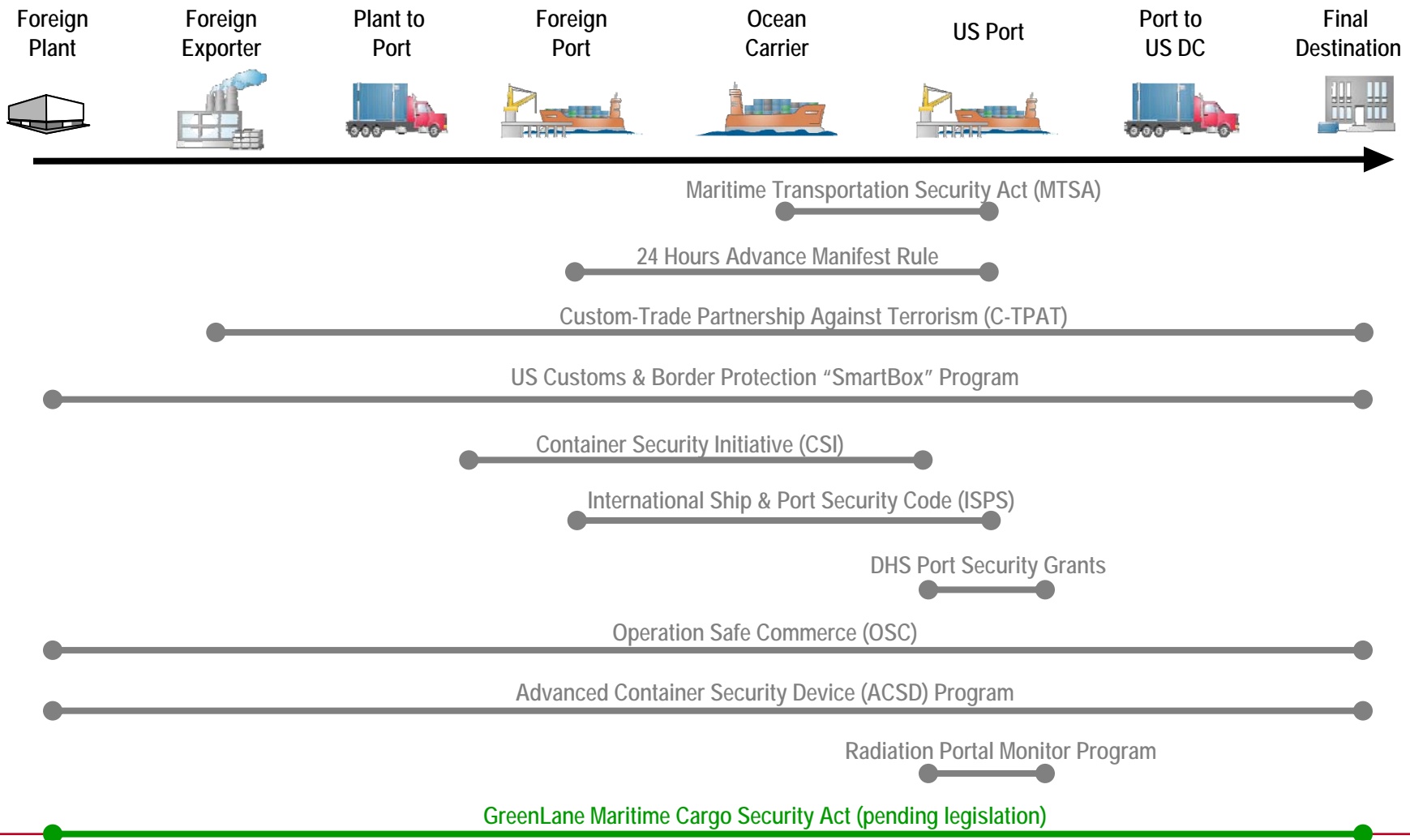


Challenges

- 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



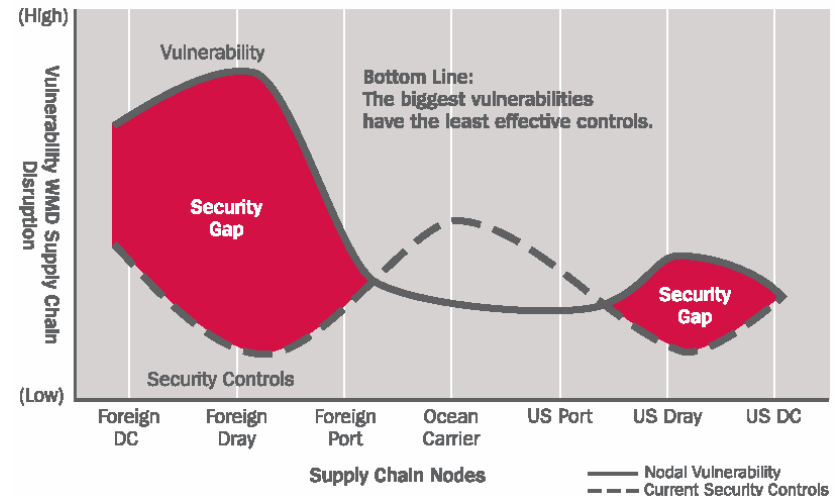
Addressing the challenges





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





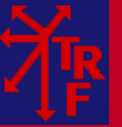
Going Forward

- 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