

Increasing Competitiveness / Lowering Costs with Supply Chain Management and Security Standards

September 2010



SURGE logistics-
GSPROGRESS Inc.

1000 Potomac Street NW
The Flour Mill Building
Washington, DC 20007
USA

daine@surge-logistics.com

+1.703.869.3336

12408 SW 144 Terr.
Miami Florida 33186
USA

mapardave@gsprogress.us

+1.305.785.1832

Overview

- Supply Chain Security Basics
- Stakeholders
- Key Programs, Purposes, Responsibilities
- Trends
- Increasing Competitiveness and Lowering Costs
- Questions?

SURGE *logistics* Introduction

- Supply Chain / Trade / Transportation / Border Security Solutions Provider
- Global Public / Private Sector Experience
 - CEO of Cotecna, Inc., Global Supply Chain Security portfolio
 - General Manager of Cargo Security Programs, Director of Maritime Security at TSA
 - US Department of Defense, Unified Commands, US Navy, International Programs
- Core Expertise
 - US Government Cargo, Transportation and Border Security Programs
 - International government and private sector cargo and border security programs
 - Cargo, Transportation and Physical Security Technology and Process
- Government and Private Sector Services
 - Supply Chain Security and Logistics Service Provider
 - Advisory and Consultative Services
 - Problem Identification and Security Solution Development
 - Compliance program implementation and verification, assessments, corporate security reviews
 - Training and Exercises
 - In-Transit Visibility / Asset Tracking Service
 - Technology Selection: Tracking / ITV systems, scanning and detection systems, physical security
 - Business Development Support: Identify and select customers, develop and implement strategies to win
 - Program Management: Service delivery, implementation and outcome management

Global Supply Chain Vision

- Provide uniformity and predictability to the global trade environment by:
 - Safeguarding the end-to-end security of the trade supply chain and
 - Facilitating the passage of legitimate goods through Customs control.
- Improving security and increasing performance

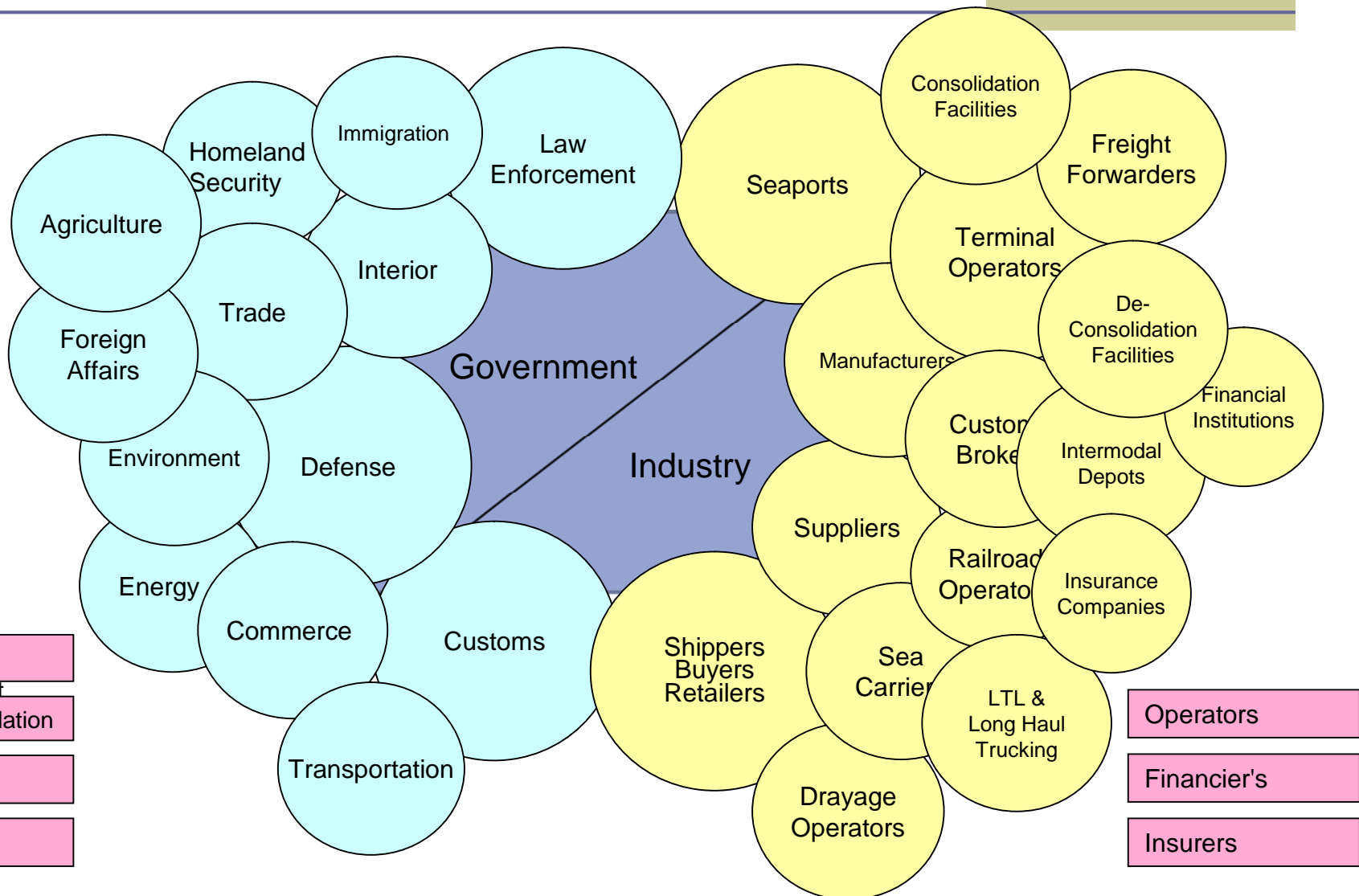
Supply Chain Security Basics

- **Efforts to Protect Cargo, Transportation and Logistics Systems From Exploitation by Criminal Activities**
 - **Five pillars**
 - Awareness -- Identify / understand threats, assess vulnerabilities, determine potential impacts and consequences
 - Prevention — Detect, deter and mitigate threats
 - Protection — Safeguard people, critical infrastructure, property from criminal acts
 - Response — Manage and coordinate the response to criminal acts or emergencies.
 - Recovery — Manage efforts to restore operations after criminal acts or other emergencies
 - **Cargo = all types:** Container, Bulk, Ro-Ro
 - **Conveyances = all conveyances:** Maritime, Rail, Air, Highway, Pipelines
 - **Activities = all locations within the chain**
 - **Involves a layered combination of activities focused on:**
 - Ensuring the integrity of the cargo
 - Ensuring the integrity of the conveyances
 - Ensuring the integrity of transactional trade data

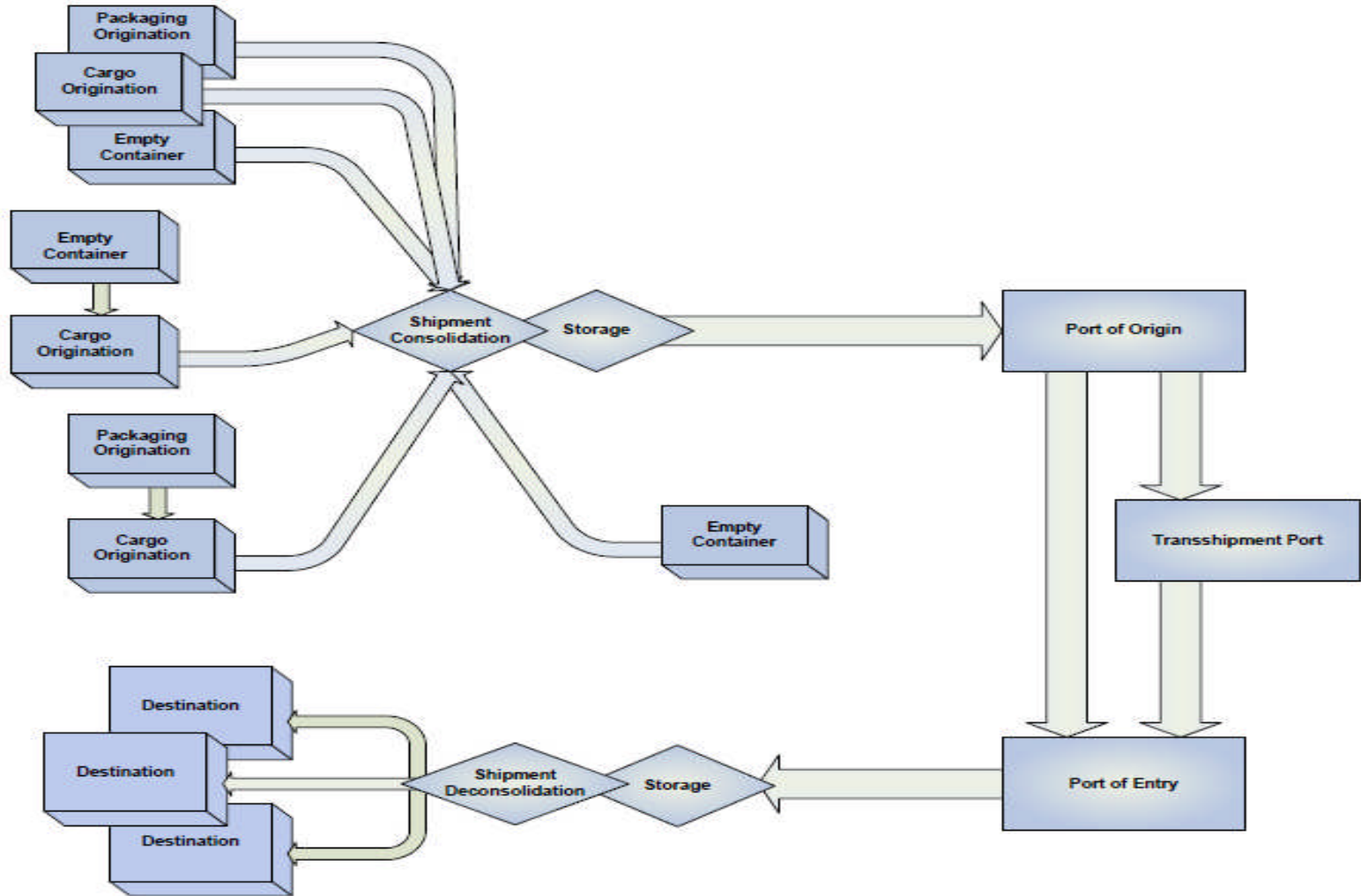
Risk-Based / Layered Security

- Security investments will generally be based on perceived or actual 'Risk'
 - Risk Equation: $Risk = Threat \times Vulnerability \times Consequence$ (R=TVC)
- Layered Security is the most effective approach to attain objectives
- Security foundation is built on assessment. First step to determine need is to conduct an 'assessments' in accordance with a compliance program
- Assessment identifies areas to focus on for risk mitigation.
- Key areas of assessment include:
 - Physical Security
 - Information Security
 - Personnel Security
 - Procedural Security
 - Conveyance Security
 - Container / Cargo Security
 - External Services Security

Supply Chain Stakeholders



Typical International Container Supply Chain



Example Program Types

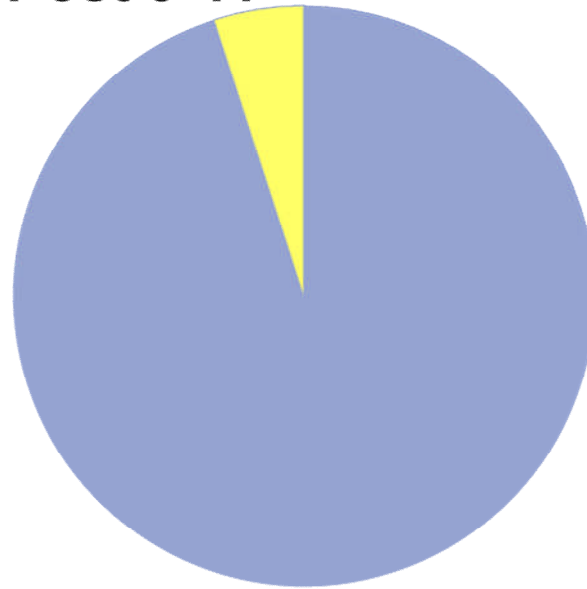
- Compliance Programs: Customs-Trade Partnership Against Terrorism and similar
- Certification Programs – ISO 9001, 14000, 26000, 27000,
- Technology Standardization Programs – (Container, Seals, RFID),
- Container Security Devices: SAFE Port Act
- Customs Requirements: 24 Hour Rules / Advanced Manifest Information
- Container X-Ray Scanning Programs
- Container Radiological Detection Programs
- Certified Cargo Screening Program – Air Cargo
- International Ship and Port Facility Security (ISPS) Code Requirements
- Transportation Worker Identification and Credentialing
- HAZMAT / Dangerous Cargoes Driver Programs
- HAZMAT / Dangerous Cargoes Tracking Programs
- Incident Recovery Programs
- National and International Research Initiatives
- National Strategic Plans

Trends

- Government and Industry compliance programs – Mutual Recognition
- Insurance Company involvement, discounts
- Pushing requirements down the supply chain – to manufacturers, Biz-partner certifications
- Maximizing use of data to strengthen and streamline operations
- Overlap with Narco-Terrorism, Human Smuggling, Weapons Trade
- Third party assessments
- Known, trusted, certified shipper programs
- In-Transit Visibility & Cargo tracking
- Hazardous material management
- Personnel security – vetting and background checks
- Access control and biometrics
- Security Awareness Training
- 100% scanning legislation – sea and air
- Radiation Detection
- Cost Transfer from Government to Private Sector
- Cost Transfer from national governments to local

Indicative Responsibility Shift

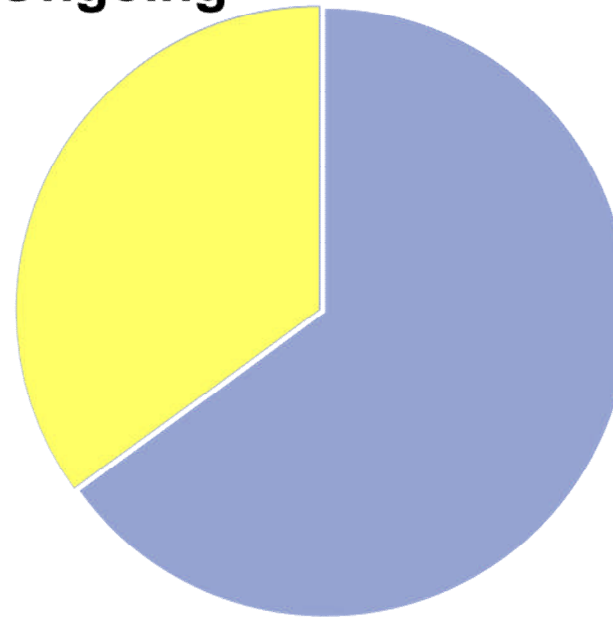
Post 9-11



■ Government

■ Industry

Ongoing



■ Government

■ Industry

Compliance Programs, Cargo Screening Programs, Background Checks, Business Partner Verifications

Business and Government Relevance

- Government shift to private sector
 - Operational problems better understood
 - Budget: too expensive, requires too many resources
 - Coverage: not enough bandwidth, problem's too big
 - International Nature: extended supply chains, multiple jurisdictions
- Private Sector Self Interest
 - Operating costs
 - Insurance
 - Global Economy: Business partner requirements
 - BOTTOM LINE

Security Investment Value - ROI

Security Investment	Direct Benefits	Collateral Benefits
Asset Visibility and Tracking	<ul style="list-style-type: none"> Provide positive location status Breach detection / localization Provide time-definite and controlled chain of custody 	<ul style="list-style-type: none"> Reduced theft and losses Faster recalls Fewer delayed shipments Increased efficiency Reduced working capital for inventory Less Overages, Shortages, and Damages (OS&D) Protection of brand name
Personnel Security	<ul style="list-style-type: none"> Thorough background check minimizes unreliable employees Improves safety, reliability Decrease theft, workplace criminal activity 	<ul style="list-style-type: none"> Customer loyalty Increased sales revenues Higher market share Employee commitment
Physical Security	<ul style="list-style-type: none"> Controls authorized access Protection of intellectual property Protection of equipment and personnel Protection of product integrity, safety 	<ul style="list-style-type: none"> Customer recognition of safe and secure environment Increased loyalty Fewer thefts and reduced damage Lower operating costs (lower insurance rates) Fewer safety incidents
Compliance Program and Management Standards	<ul style="list-style-type: none"> Coordination of company activities Increased Awareness Greater reliability / repeatability Improved breaches detection Higher levels of security and safety System-level and supplier security improvement 	<ul style="list-style-type: none"> Improve the efficiency of operations Reduced overall shipping times Platform for collaboration within industry Common processes reduce confusion, raise predictability Reduced losses

*Investing in Supply Chain Security: Collateral Benefits; Integrated Supply Chain Management Program, Center for Transportation and Logistics Massachusetts Institute of Technology (James B Rice, Jr., May 2005)

Security Investment Value - ROI

Security Investment	Direct Benefits	Collateral Benefits
Conveyance Security	<ul style="list-style-type: none"> Reduce theft losses Reduce adulteration of produce Reduce chance of using conveyance or vessel as a weapon Protect conveyance or vessel 	<ul style="list-style-type: none"> Cost avoidance of non-product-related costs Reduced crime and vandalism rates Fewer disruptions to supply chain, associated cost savings Less capital in inventory Reduced transportation cycle time
Supplier Selection	<ul style="list-style-type: none"> Ensure secure supply of materials Early warning of upstream security issues Reduced upstream and inbound losses 	<ul style="list-style-type: none"> Lower inspection costs Faster throughput Increased efficiency through joint planning Improved relationships
Information Security	<ul style="list-style-type: none"> Improved coordination Improved supply chain efficiency, reliability Intellectual property protection Financial security 	<ul style="list-style-type: none"> Improved communications Enhanced response time Competitive advantage Brand protection
Technology Investments	<ul style="list-style-type: none"> Increased ability to track, monitor cargo Early threat detection Increased reaction time to problem solve Reduced loss Better inventory management 	<ul style="list-style-type: none"> Increased process efficiency Reduced loss Insurance rate benefits Fewer disruptions More time spent on value added processes

Primary Security Investment Areas

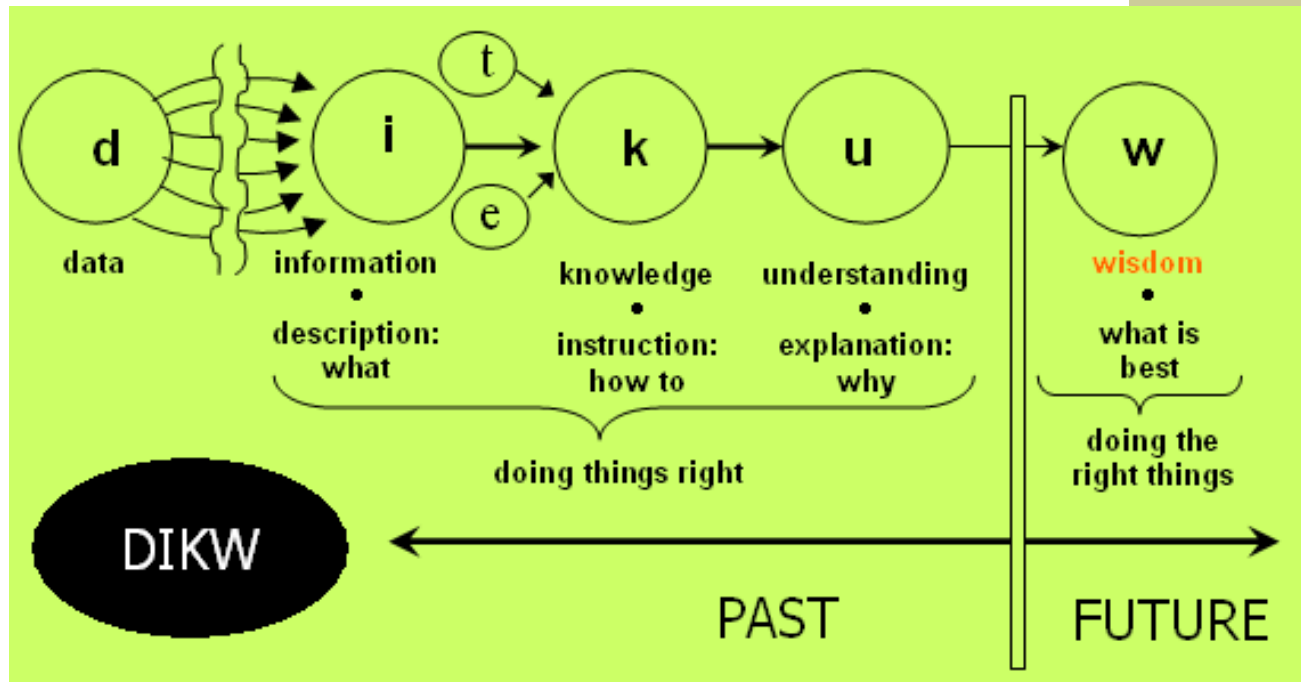
- Consulting and Advisory Services
 - Strategy, Problem Identification and Solutions
- Management and Compliance Standards
 - ISO 9001, 14001, 27001, 28000, C-TPAT, AEO, BASC
 - Assessment, Audit, Validation and Implementation
- Training and Exercises
 - Security Awareness Training, Crisis Management Exercises
- Cargo Tracking, Visibility and Chain of Custody
- Personnel Security
- Physical Security: Perimeter, Access Control
- Container Security
- Scanning and Inspection
 - Industry dependent
 - Explosives, narcotics, radiation, chemical, biological

Private Sector: Where to Invest

- Dual Purpose activities that directly enhance both security and efficiency
- Compliance and Management Programs – methodology used to identify and manage areas of both operational and security risk
 - Prioritize Information, personnel, physical, business partner security
 - Orient activities toward loss prevention. Activities will meet:
 - Anti-terrorism needs of government
 - Loss mitigation for insurance companies
 - Make the biggest improvement to bottom line
- Technology – as a means to
 - Deter, Detect, Protect, Collect
- Information Management
 - Information Management and Security will have tremendous trickle-down

The Common Thread

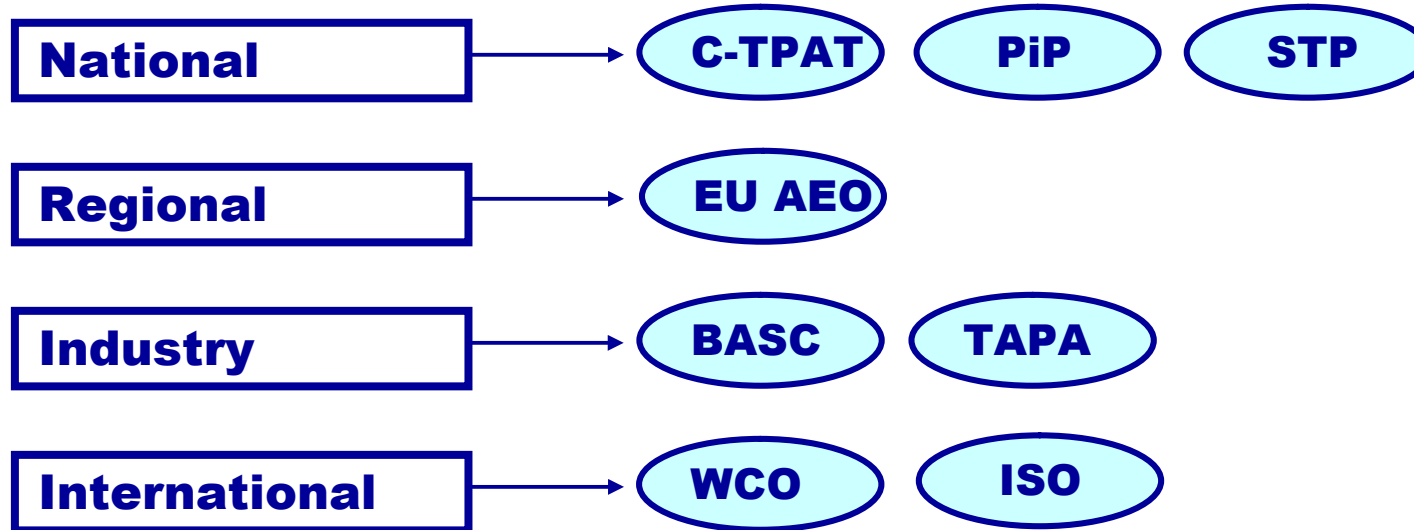
Data, Information and Knowledge:



- Data -> Information -> Knowledge -> Understanding -> Wisdom
 - Your data is valuable in many ways
 - Learn what to collect and how to collect it and
 - Turn in it to actionable information in the context of your operations to

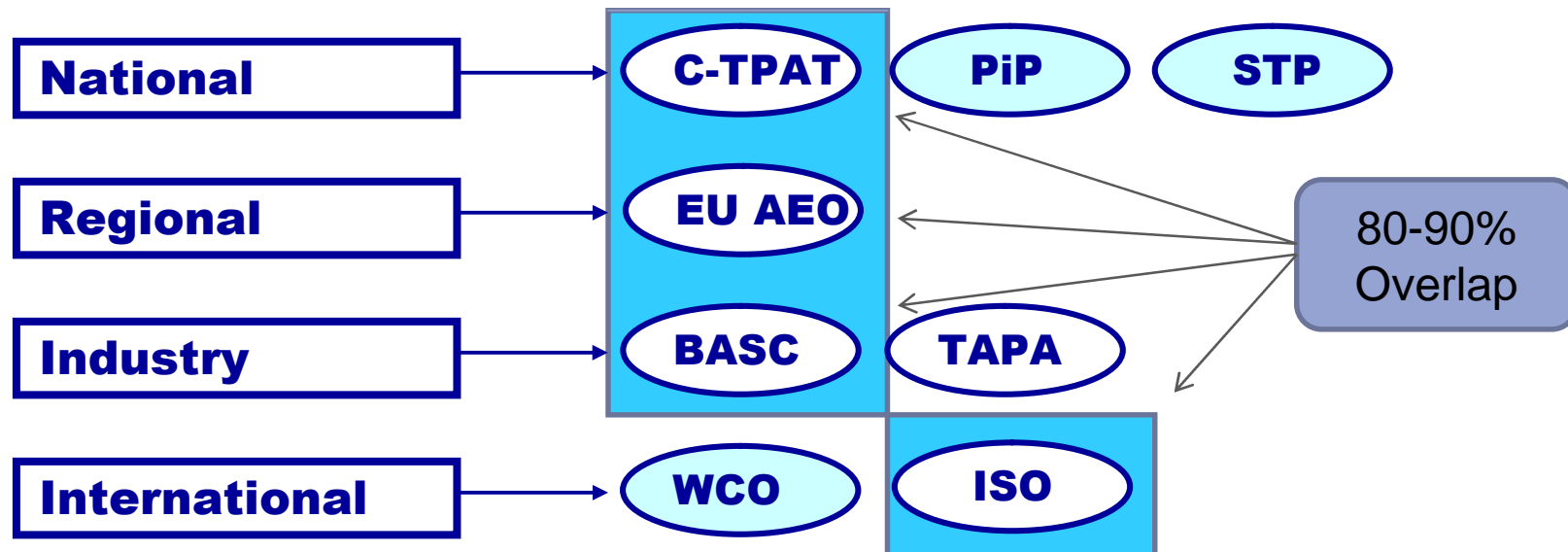
Compliance Programs & Standards

Supply Chain Security standards are now global in nature, and expected by both government and industry. They are essential to maintaining competitive advantage.

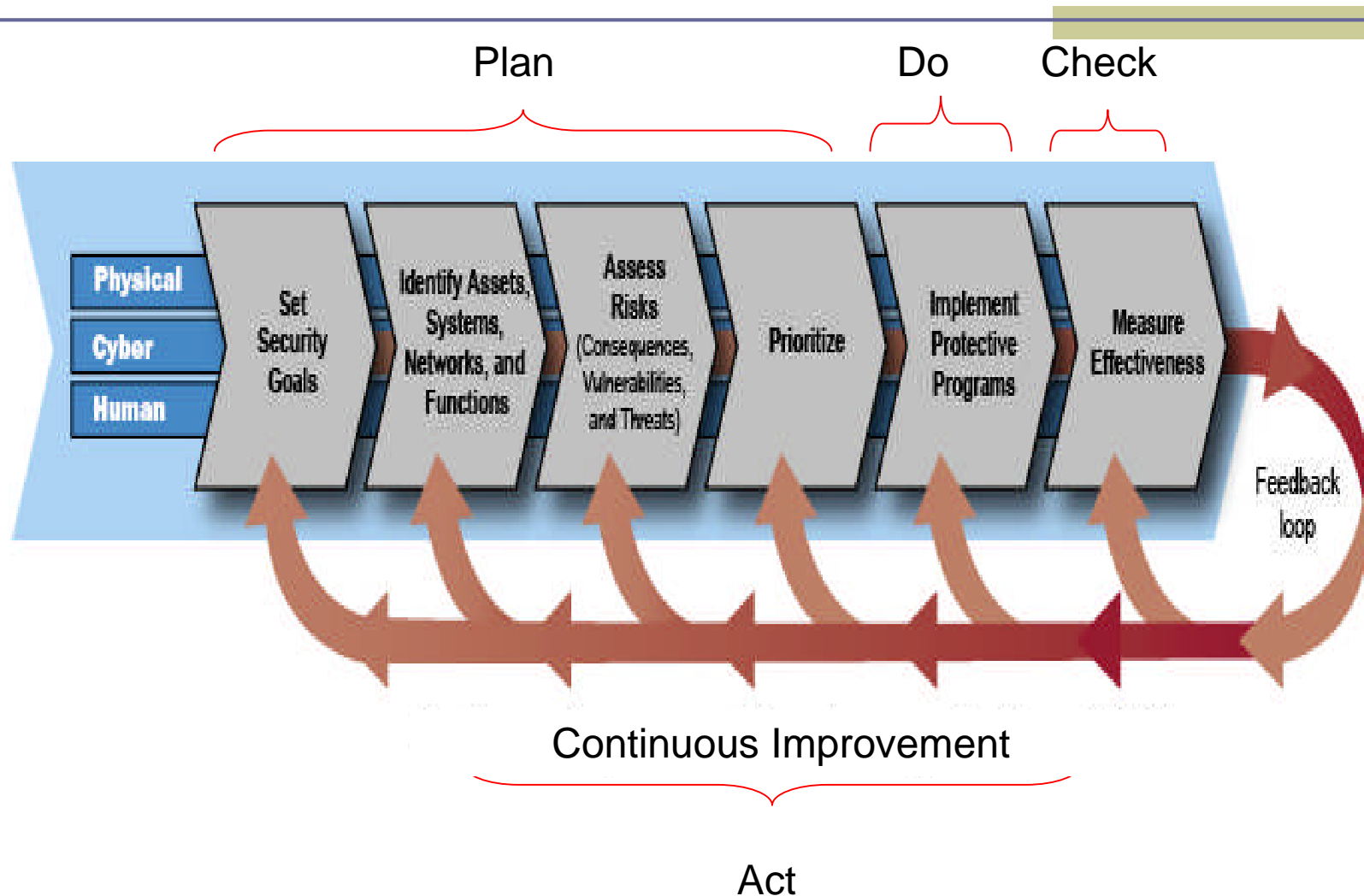


Implementation Planning

Mutual Recognition has not been fully implemented, however, due to the commonality multiple compliance programs can be economically implemented concurrently and give private sector operators a competitive advantage while enhancing security and efficiency.

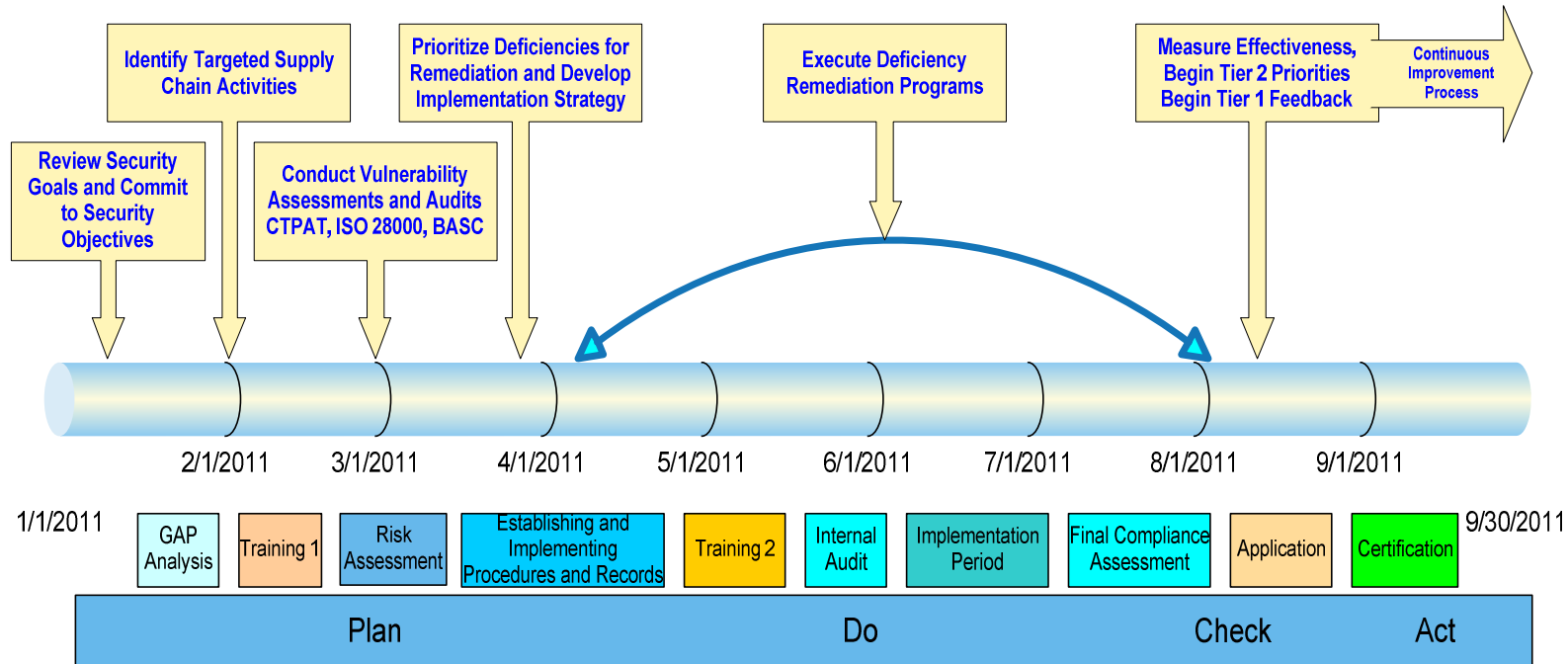


ISO Management Standards / Security Risk Planning: Similar Methodology



Current Implementation Strategy – Multiple Standards

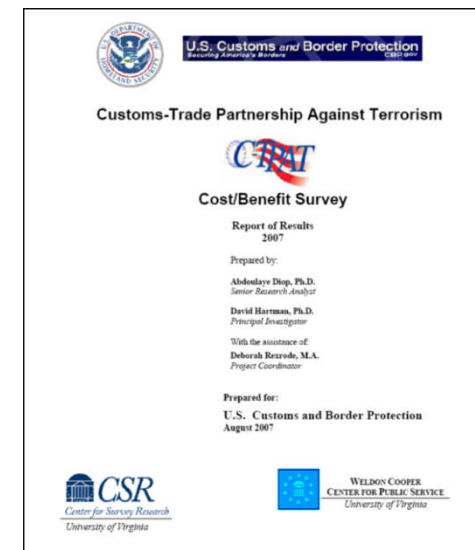
Integrated Supply Chain Security Program Implementation – Security Foundation



ROI Examples

■ Studies show examples of quantifiable benefits:

- Reduced their Customs inspections by 48%;
- Increased the automated handling of their imports by 43%;
- Saw a 29% reduction in transit times;
- Improved their asset visibility in the supply chain by 50%;
- Improved on-time shipping to customers by 30%;
- Reduced time taken to identify problems by 21%;
- Reduced theft in inventory management by 38%;
- Reduced excess inventory by 14%; and
- Reduced customer attrition by 26%.



Public Sector: Where to Invest

- Develop Partnership opportunities with the Public Sector:
 - Buy-in and cost sharing: Force Multiplier
 - Develop Compliance programs that leverage and support Private Sector programs
- Incentives
- Personnel credentialing and vetting / records checks
- Surveillance activities
- Intelligence –outside the private domain, BIG Return on Investment
- Detection activities that private sector cannot afford or manage risk
 - Cargo screening: equipment intensive and liability-heavy
- Critical infrastructure protection: ports, airports, bridges, tunnels
- Recovery activities
- Technology R&D, introduction



Thank You!

SURGE *logistics-GSProgress Inc.*

Daine Eisold
President and CEO
1000 Potomac Street NW
The Fifth Floor
Washington, DC 20007
USA

daine@surge-logistics.com
+1.703.869.3336

Marco Pardave
VP Operations and CEO
12408 SW 144 Terr.
Miami, Florida 33186
USA

mapardave@gsprogress.us
+1.305.785.1832