

RSAConference2016

San Francisco | February 29 – March 4 | Moscone Center

SESSION ID: 49273

Here, There and Everywhere – How to Harness Your Value Chain Security Beast!



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Connect **to**
Protect

Edna Conway

Chief Security Officer,
Global Value Chain



Agenda



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The IT Value Chain Beast

Security Built In Is the Answer

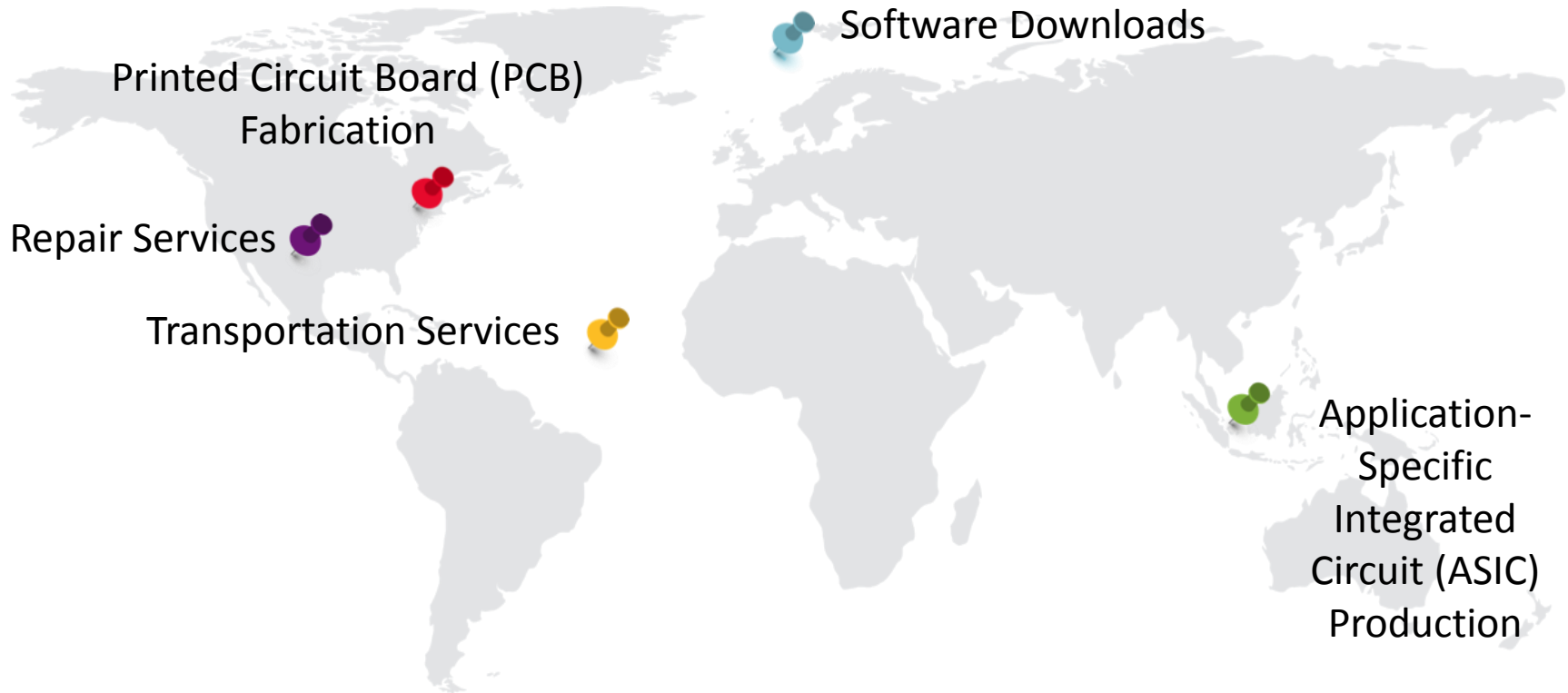
Pervasive Value Chain Security

Winning Together

Today's IT Value Chain Beast



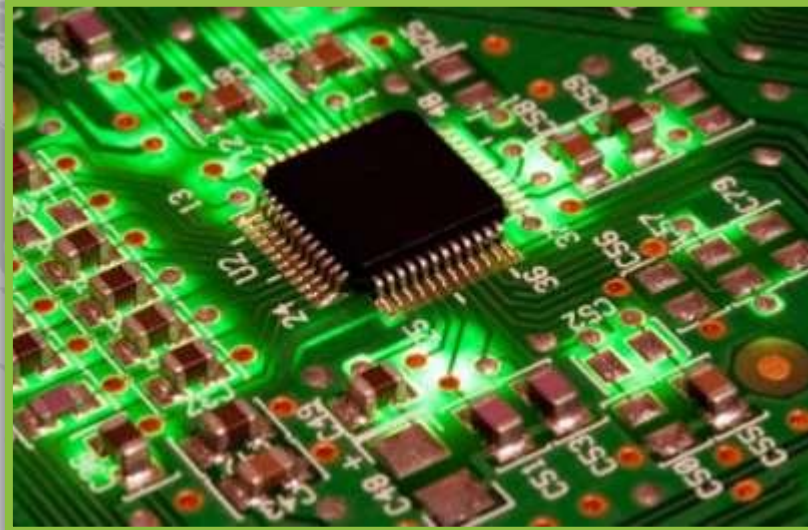
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Today's IT Value Chain Beast



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ASIC Production

Today's IT Value Chain Beast



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Repair Services

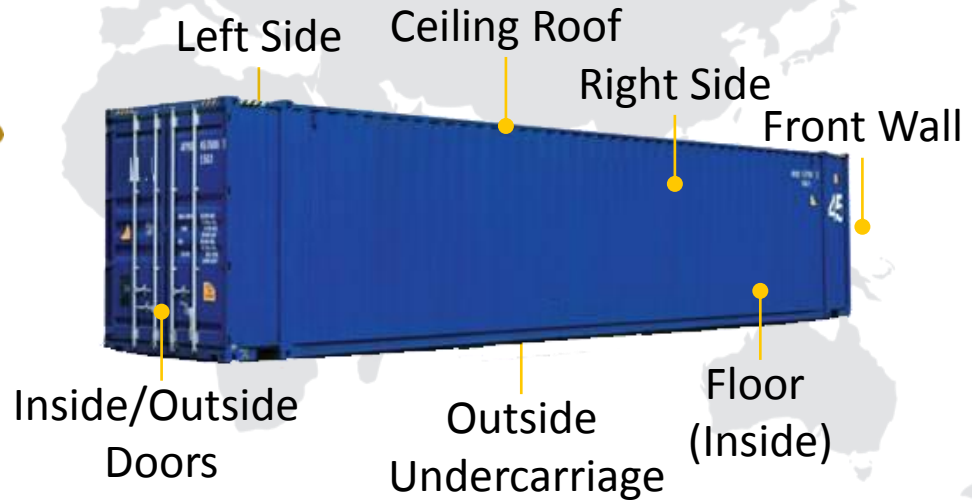


Today's IT Value Chain Beast



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Transportation Services
7 Point Container Inspection

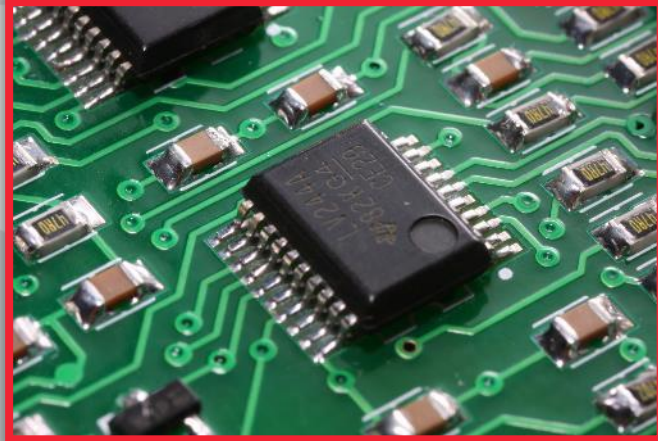


Today's IT Value Chain Beast



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PCB
Fabrication



Today's IT Value Chain Beast



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Software Downloads



The Risk of Non-Alignment



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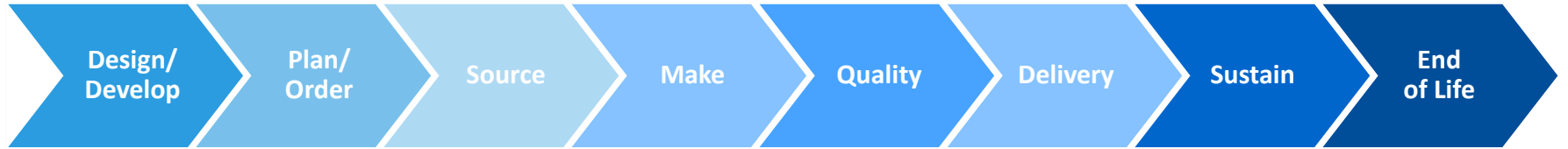
The Risk of Non-Alignment



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What Is the IT Value Chain?



What Are the Threats to the IT Value Chain?



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Manipulation
Unauthorized Control



Espionage
Unauthorized Visibility



Disruption
Denial of Service

What Exposures Arise from IT Value Chain Threats?



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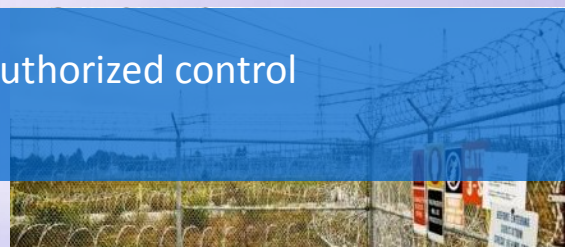


Manipulation
Unauthorized Control



TAINT = alteration allowing unauthorized control or content visibility

COUNTERFEIT = raw materials, software or finished goods which are not authentic



Disruption
Denial of Service

IP MISUSE = unauthorized access to IP, allowing unfair business competition and increased risk to end users

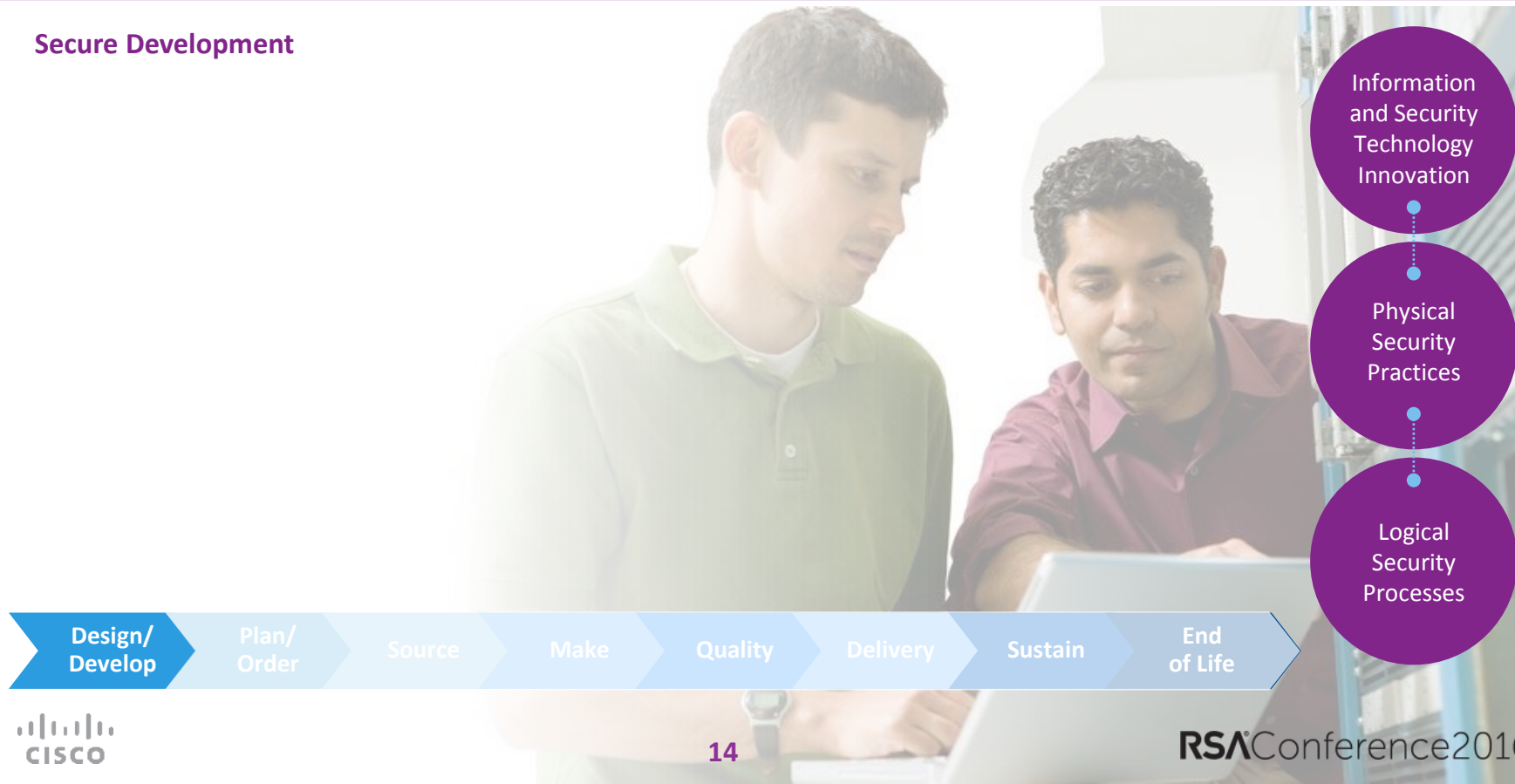
Value Chain Security

Making Security Pervasive



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Secure Development



Value Chain Security

Making Security Pervasive



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Secure Development

Information Exchange and Access Controls



Information
and Security
Technology
Innovation

Physical
Security
Practices

Logical
Security
Processes

Design/
Develop

Plan/
Order

Source

Make

Quality

Delivery

Sustain

End
of Life

Value Chain Security

Making Security Pervasive



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Secure Development

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Physical Plant Security

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Value Chain Security

Making Security Pervasive



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Secure Development

Information Exchange and Access Controls

Physical Plant Security

Talent Security and Integrity

Supplier Resiliency and Crisis Management



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Supplier Resiliency and Crisis Management

**Protection of High Value/IP Containing
Components and Finished Goods**



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Protection of High Value/IP Containing
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Supplier Resiliency and Crisis Management

Protection of High Value/IP Containing
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Logistics Security

Fabrication Security

Scrap Management



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Service Security



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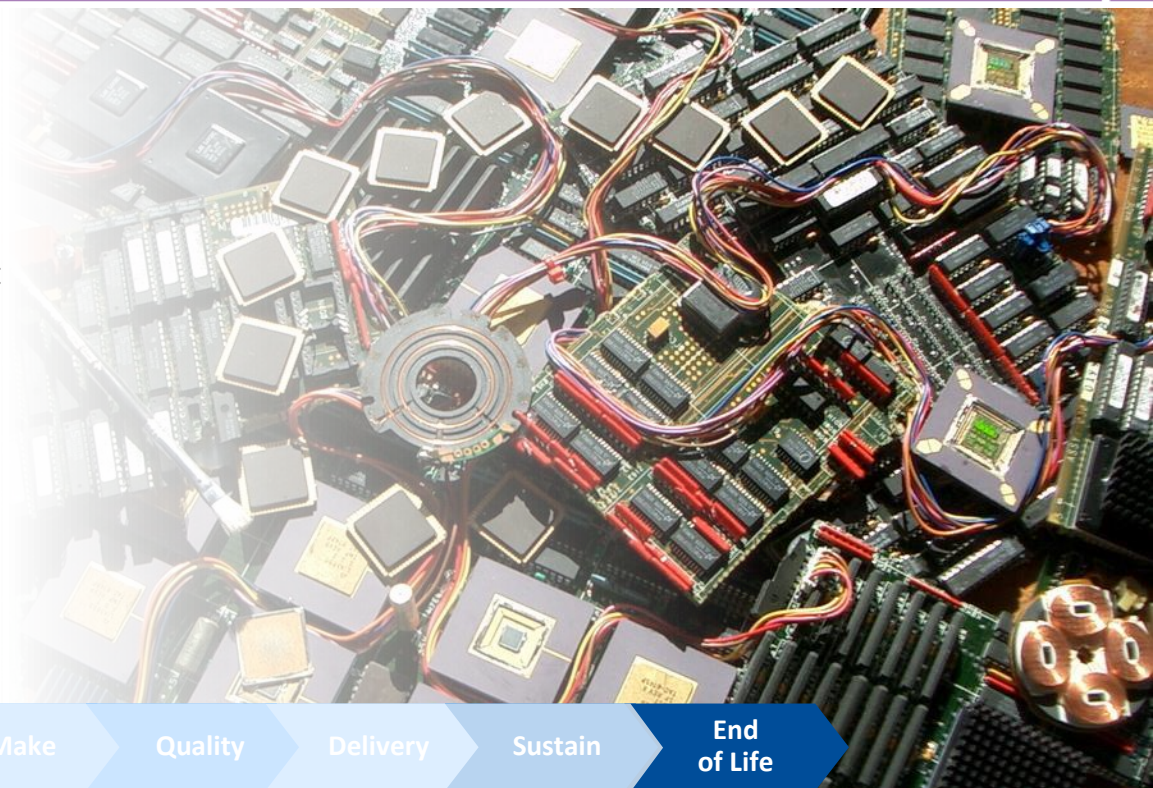
Logistics Security

Fabrication Security

Scrap Management

Service Security

End of Life Security Management



Design/
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Taming the Value Chain Security Beast

Rallying Call to Unite the Chain



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Leveraging Security Technology and Process



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Bone Pile



VS

Tracked Inventory



Leveraging Security Technology and Process



Guard/Door



VS

Biometric Access



Physical Scans



Value Chain Security

Applying A Winning Formula



1

An Adaptable Security Architecture

Flexible Requirements

2

A Coordinated Deployment Plan

The Value Chain Ecosystem

3

Metrics that Embrace Security

Scorecard

4

Trust but Verify

Audit Template

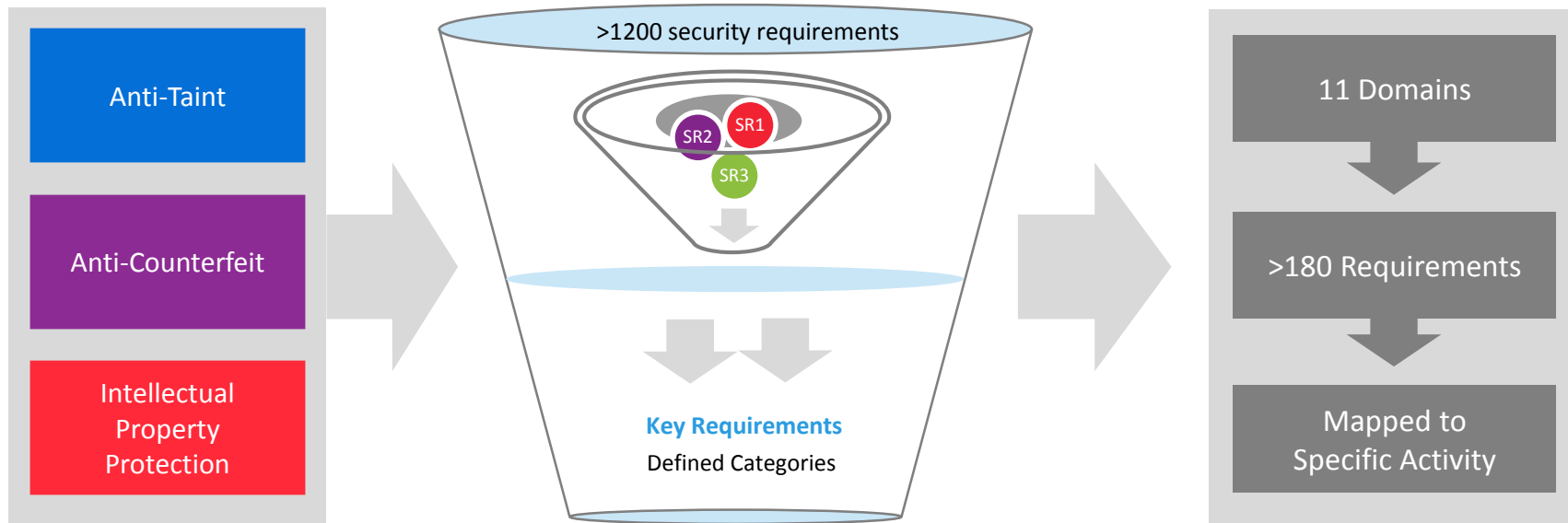
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Join the Industry Discussion

Global Collaboration

Value Chain Security

Adaptable Pervasive Security



Value Chain Security

Adaptable Pervasive Security



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Domains

1 Security Governance

2 Security in Manufacturing
and Operations

3 Asset Management

4 Security Incident Management

5 Security in Service Management

6 Security in Logistics and Storage

7 Physical and Environmental Security

8 Personnel Security

9 Information Protection

10 Security Engineering and Architecture

11 Third-Tier Partner Security

Value Chain Security

Adaptable Pervasive Security



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Domain	Sub Domain	Requirement Description	Direct Fulfillment (final assembly, Prototype and test)	PCB Assembly (PCBA Prototype)	Design/ Development	Transportation	Warehousing / Hubbing	Destruction/ Recycling	Failure Analysis	Channel Partners
Security in Manufacturing and Operations	Security in Inventory Mangmt.	Supplier must produce a written report on the results of the cycle counts that identifies the individuals who performed the activity. The results of all cycle counts must be reconciled and discrepancies must be reported to Cisco immediately.	✓	✓			✓			
Asset Management	Media Protection and Disposal	Cisco IP and/or Confidential Information must not be stored in removable Media unless authorized in writing by Cisco.	✓	✓	✓	✓	✓		✓	✓
Information Protection	Information System Logging and Monitoring	Supplier must monitor Information Systems for: a. attacks and indicators of potential attacks; b. unusual transactions that could indicate unauthorized access to Cisco IP or Confidential Information; c. unexpected changes to system configurations and privileges; and d. unauthorized local, network and remote connections.	✓	✓	✓	✓	✓	✓	✓	✓



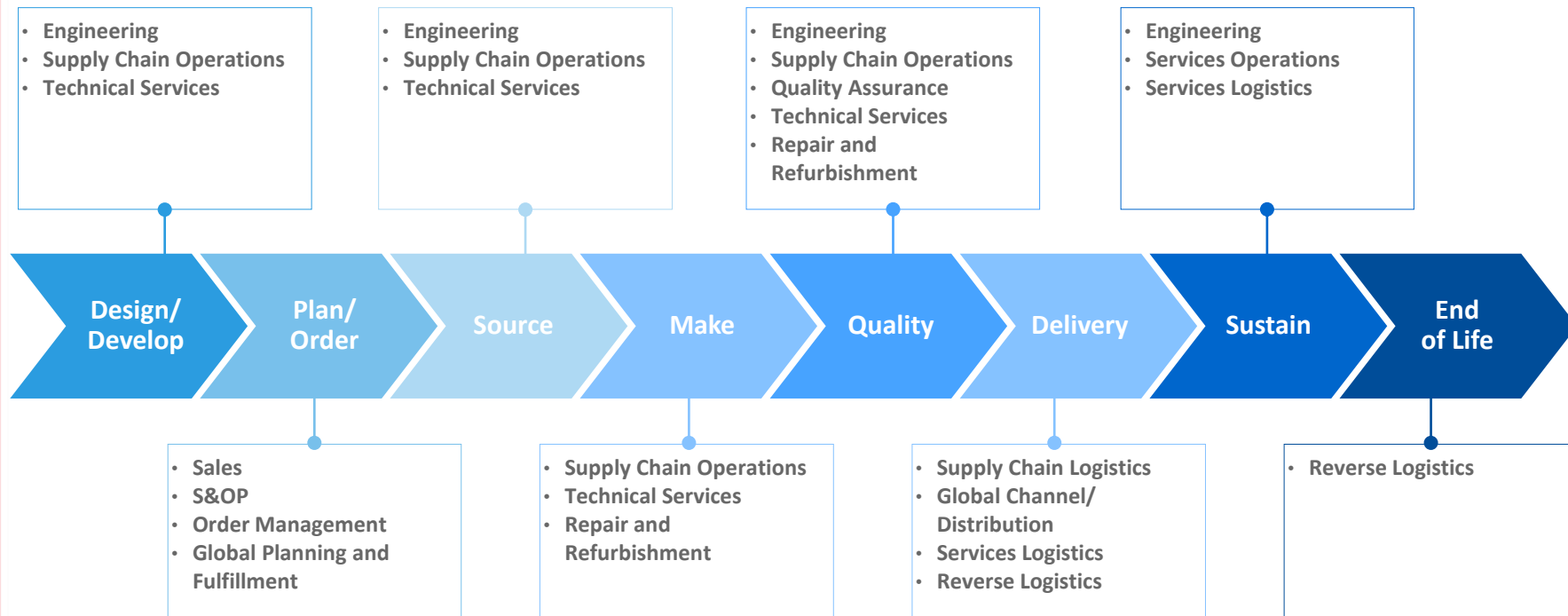
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Value Chain Security

A Coordinated Deployment Plan



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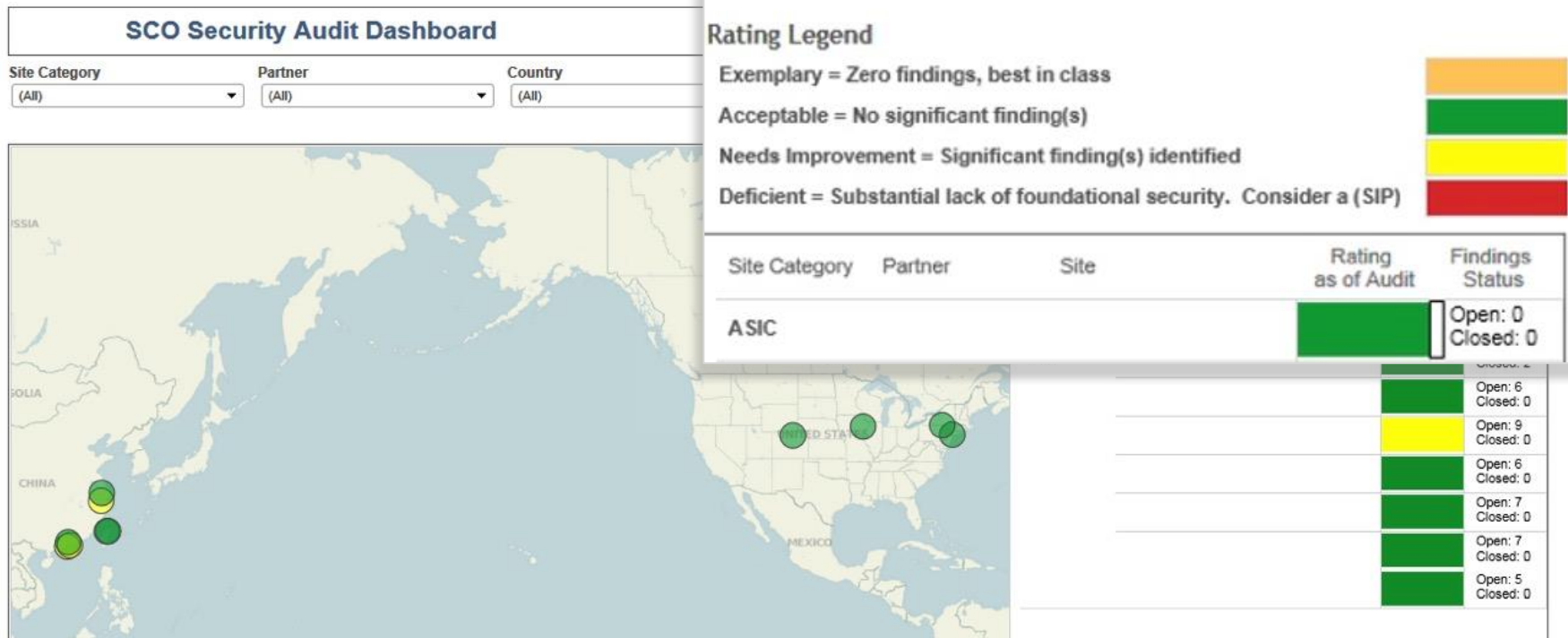


Value Chain Security

Security Accountability



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Value Chain Security

Make Security Really Count



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Category	Metric	Global	Direct Fulfillment	PCBA
Top level	Cost Savings			
	Cost per Placement			
	Innovation			
	Non-Material Spend			
	Financial Health			
	Sustainability			
	Business Continuity Plan			
	Time to Recover			
	Security			
	Data Governance			
	Subtotal	Actual: __	Actual: __	Actual: __
	Percentage	__%	__%	__%



Global Collaboration

Join the Industry Discussion

Industry/Government Guidelines

A truly layered approach requires addressing security in the value chain across the industry and with governments worldwide

ISO/IEC 15408



ISO/IEC 27036 Part 3



ISO/IEC 20243



Combating Crime and Terrorism Collaboratively

Certifications

International certifications obtained by Cisco and our value chain partners reflect our commitment to protect against terrorism, smuggling, and other criminal activities

Tier 3 Partner in US Customs and Border protection



Canada's Border Services Agency's Partners in Protection Program



EU Authorized Economic Operator Program



Value Chain Security

Applying A Winning Formula



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Unified Security Architecture



The Value Chain Ecosystem



Audit Dashboard



Scorecard



Global Collaboration



Thank you

