

Cyber Security And The Rhode Island Economy

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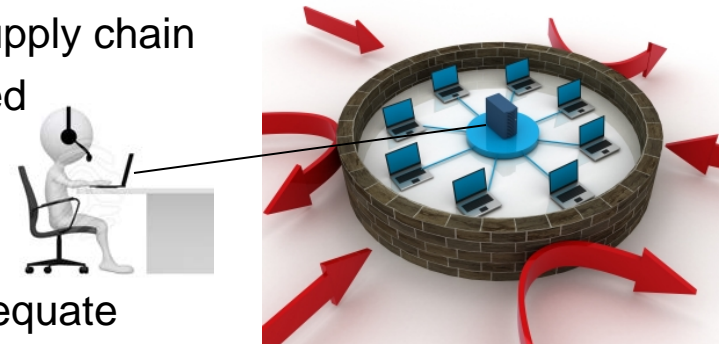


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What Is The Cyber Threat?

- ❑ NCIS Video www.youtube.com/watch?v=u8qgeH3kEQ
- ❑ Growing pains – connectivity exploded fast without enough concern for security
 - Vulnerable Systems - e.g. URI
 - Poor system design – too much on public network
 - Staff overwhelmed or under skilled, do not patch/update systems
 - Vulnerable Software
 - Code is developed quickly, security not in acquisition process Lifespan lost computers
 - People
 - Unsecure practices: weak passwords, response to Phishing, etc
 - Insider threats
- ❑ System is only as strong as its weakest link – e.g. supply chain
- ❑ Cyber threat is often ignored or considered not valued in the *business case*
 - Don't invest in security, clean it up afterward
 - No State mandated cert or liability in RI for personal data
- ❑ The workforce nationally and RI is dangerously inadequate



Who Is The Cyber Threat?

- ❑ Script Kiddies - e.g. crypto locker
- ❑ Rogue hackers
- ❑ Hacking groups
 - e.g. Anonymous, LulzSec
- ❑ Organized Crime
- ❑ Nation States



Attribution and prosecution is very difficult



Threats To Rhode Island

- ❑ Threat To Citizens
 - Loss of privacy and personal information
 - Loss of personal wealth
- ❑ Threat To Critical Infrastructure
 - Disrupt: communications, emergency response, law enforcement, power, water, hospitals, financial
- ❑ Threat To Economy
 - Theft of wealth
 - Theft of intellectual property
 - Loss of consumer trust
 - Loss of corporate trust in the state



Rhode Island Organization's Efforts

❑ Government

- Cyber Disruption Team
- National Guard
- EMA and efforts at critical infrastructure providers



❑ Industry

- DoD Industry (SENEDIA)
- Dell SecureWorks – private cyber security firm

❑ Academia

- URI – DHS/NSA Center of Academic Excellence
 - Degree programs, State support
- Salve - Corporate Cyber Awareness Initiative, Cyber policy degrees
- Roger Williams University – Cyber tech degrees
- New England Tech – cyber courses
- CCRI – networking and system administration certifications, feeder to 4-year colleges



Coordinated RI State-Wide Efforts

- ❑ Cyber Disruption Team
- ❑ State-wide Dept of Labor Grant Proposal 2010
 - RI high schools, community college, 4-year, and state agencies coordinating cyber security education and training
- ❑ State-wide DHS Grant Proposal 2014
 - RI Academia, Industry, Government think tank on cyber
- ❑ Cyber Security Summits/Events
 - URI, Salve, Brown, CCRI, others
- ❑ Cyber Patriot
 - high schools across RI competing in national cyber defense challenge coached by experts from industry and academia.



Economic Opportunity For Rhode Island

- ❑ Cyber Secure Zone – attract industry with the message that we have the workforce and the State government infrastructure that defends and supports.

- ❑ Cyber industries
 - Leverage defense expertise, academic excellence to grow cyber defense and resiliency companies
 - Cultivate more Dell SecureWorks

- ❑ SENEDIA to provide details



The Southeastern New England Defense Industry Alliance

