



Cybersecurity Workforce Opportunities

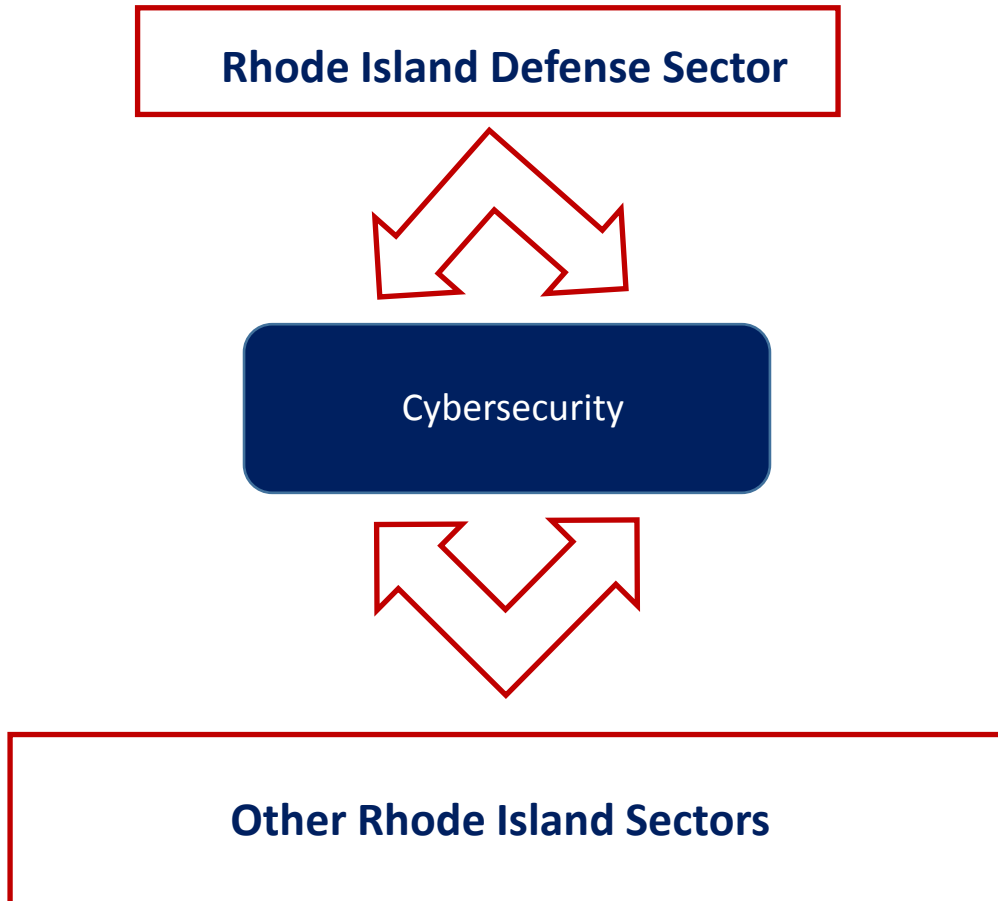
**RI Defense Economy Planning Commission
6 May 2015**

***The Rhode Island Defense Sector
Innovation Focused - Economic Generator***

The Cybersecurity Need – Growing Exponentially

- Cyber threats impact all economic sectors
 - Can inflict significant long-term harm – economic, safety, reputation, etc.
- Cyber threats are ever changing. Today's solution will not work tomorrow.
- Cyber protection requires an information sharing process and a trained workforce.
 - Process must be continuously improving

RI Workforce and Economic Growth Opportunities – Cybersecurity



RI Cybersecurity Opportunities

- **Economic Growth Opportunities**

- Growing Defense and Commercial Demand for Thought Leadership, Cyber Analysis and Cyber Detection Solutions
- Strengthen Collaborative Industry – Academia – State - Federal Partnership
- Expand existing workforce and provide growth opportunities for industry
- Position RI to be national leader

- **RI Strategic Advantage**

- Defense and other Sectors Cyber Experience
- Reputation for Innovation with related technical workforce
- Academic Cyber Research and Workforce Development
 - University of Rhode Island
 - Naval War College
 - Brown
 - Salve Regina
 - Roger Williams
 - New England Tech
 - Community College of RI – as feeder system

SENEA Cybersecurity Initiatives

- Cybersecurity Working Group
 - Information Sharing among companies – Raytheon technical lead
- Cybersecurity Internship Program
 - Partially funded through RI GWB grant
 - Experiential learning opportunity for college students
 - Outcome – 21 interns – all have received jobs in the cyber field upon graduation
- Working to establish pre-apprenticeship and registered apprenticeship program for cybersecurity
 - Part of RI Department of Labor sponsored Apprenticeship RI proposal

Workforce Development Opportunities



- Expand the RI Cybersecurity Workforce to meet growing demand
 - Prepare Students, Under- or Unemployed, and Military Veterans for Careers in Cybersecurity
 - Deliver Knowledge and Performance Training, Certifications, and Career Assistance
 - Tailored employment assistance to provide career path opportunities
- Job opportunities available at multiple education points – with ability to grow
 - Trades - Associates Degree – Technical Certification
 - Bachelors Degree
 - Masters Degree
- Some career pathways already developed
 - Cybersecurity Technician
 - Cybersecurity Analyst/Engineer
 - Cybersecurity Technical Manager
- Beta Cybersecurity Articulation Agreement
 - Middletown High School – Community College of RI – Roger Williams

**Partner with RI Department of Labor and Training to Build the RI Future Cyber Workforce
Supporting the Real Jobs RI Initiative**

Economic Development Opportunities



RI Maritime Cybersecurity Center

Capitalizes on Rhode Island's unique cyber-related assets

- Strong defense, technology and ocean engineering sectors
- Existing nationally recognized cybersecurity focused programs in our academic institutions and National Guard assets.
- Comprehensive and innovative approach to cybersecurity research and education.
- Reputation for excellence in identifying and adopting technology to mitigate risk.
- Existing cybersecurity workforce and established capability to build the future workforce.
- Federal Delegation steeped in the issue and well positioned on committees of jurisdiction.
- Focus on innovation and ability to develop scalable cyber security solutions.
- RI Emergency Management Agency with a proactive focus on cybersecurity, leading the state's efforts

The Vision:

The Maritime Cybersecurity Center facilitates information sharing, training, and the research, development and prototyping of solutions for cyber threats for government and businesses at the state, national and, as appropriate, international level.

The Organization:

The Maritime Cyber Security Center is a Public–Private partnership representing Industry, State and Federal Government, and Academia

- Enabling technology solutions for protection, prevention, situational awareness, attack detection/response, forensics, and decision support.
- Collaboration to build practical cybersecurity solutions that can be rapidly applied to real challenges.
- Thought leadership for cybersecurity.



**Partner with Commerce RI to Develop An Innovative RI Partnership
Leveraging, Sustaining and Growing RI's Cybersecurity Economic Growth**

Maritime Cybersecurity Center Inaugural Business Simulation Exercise

- **Scheduled for 28 May 2015**
- **Objectives**
 - Understand the current roles and process in the notification and follow-up to a cyber event
 - Identify current process strengths and opportunities
 - Provide decision makers a safe environment to discuss the process to respond to cyber attack
 - Understand the tools, processes and policies available, as well as those that are necessary
 - Do we have what we need? / Do we know how to use them?
 - Assess Continuity of Operations and associated plans
 - Is Cyber Addressed? / Are the plans sufficient and realistic? / Are the plans periodically tested?

**A Collaborative Event with
Industry, Academia, State, Local and Federal Participants**

Going Forward



- RI is in a unique position to grow our Cybersecurity Workforce and Economy
- RI is well-positioned to create a Cybersecurity Innovation Hub

**Sustain and Grow the
RI Defense/Technology Economic Engine**



Backup

Defense Innovation Days 2015



26-28 August 2015
Newport Marriott

- Annual forum for DoD policymakers, Congressional stakeholders, and industry leaders to discuss future challenges, needs and opportunities
- Highlighting what Secretary of Defense Chuck Hagel identified- **Southeastern New England is the “silicon valley” of undersea technology**
- Sessions on innovation from technology, warfighter, unmanned systems and cybersecurity perspectives
- Speakers confirmed to date:
 - Undersecretary of Defense Frank Kendall
 - Vice Admiral Jan Tighe, Commander, Fleet Cyber Command
- Speakers invited:
 - Secretary of the Navy Ray Mabus

