

Oregon Cybersecurity Center of Excellence

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**Network & Systems
Security and
Resiliency**



**Cyber Security
Operations**



**Public Policy &
National Security**

OREGON CYBERSECURITY CENTER OF EXCELLENCE

Cutting Edge Research

Community Engagement

Workforce Development

PSU National Center of Academic Excellence in Cybersecurity: Collaborative Cybersecurity Community Development

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Cyber Threats & Challenges Facing OREGON

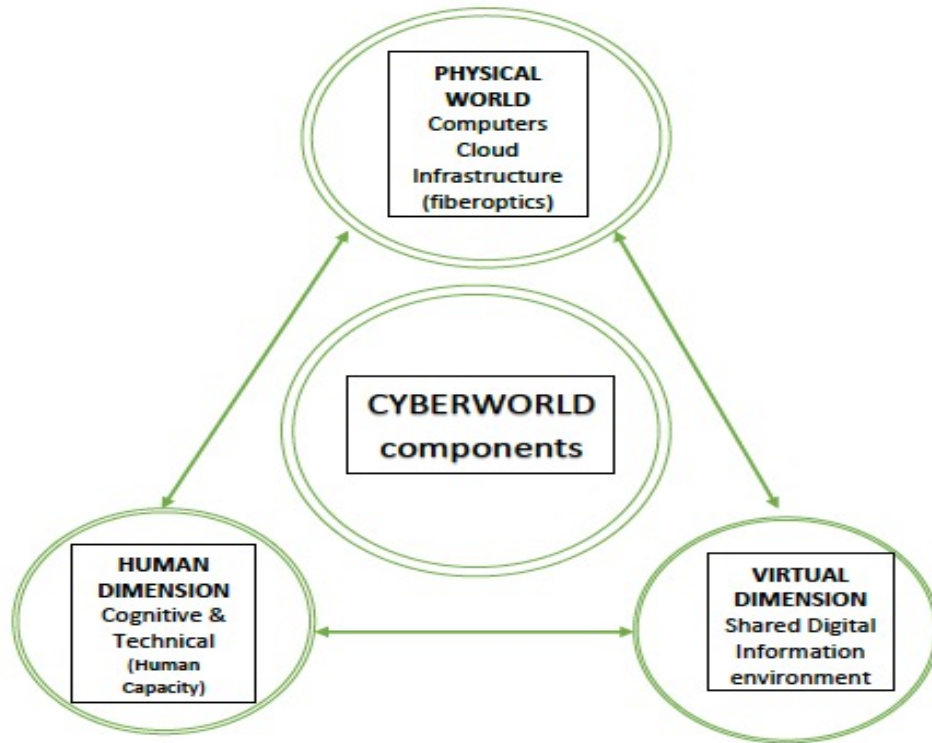
- A Severe Vulnerability of City, County, Special Districts, Tribal Governments, School Districts, and FEMA, DHS, CISA Regions - *America's Soft-Underbelly- global cost is \$215 billion.*
 - (<https://www.seculore.com/resources/cyber-attack-archive/Oregon>)
- Foreign Enemies of the USA
 - Attacks increased on IT, critical infrastructure, and social engineering via social media to destabilize democracy
- A Severe Workforce Shortage of Cybersecurity Professionals
 - 3.5 million open jobs in the USA
- Educational gap – need for a systems approach to cybersecurity education.
- Oregon's strategic position in the Pacific basin for commerce.

PSU's National Center of Academic Excellence in Cybersecurity



- Portland State University (PSU) has been designated as a **National Center of Academic Excellence in Cybersecurity (CAE)** by the National Security Agency (NSA) and the Department of Homeland Security (DHS).
 - We are now an academic partner of the US CYBER COMMAND.
 - Critical Infrastructure Subcommittee member of the Intelligence and National Security Alliance.
- In August 2021, our center received a \$3 million multi-year grant from the NSA to evaluate cybersecurity energy-critical structure and workforce shortcomings in the Pacific Northwest and establish an intra- and inter-state cybercommunity community consortium of **academia-government/public-industry/private partnership** to find solutions to these challenges.

OUR GOALS:



- **Establish an academia-industry-government partnership in Oregon and the PNW.**

- Address Workforce Homogeneity and the Significant Shortage of Cybersecurity Capacity.
- Systems based education in cybersecurity bridging public policy/law and technology/business blockchain.
- Work with NSA, DHS, and FBI to Analyze National Security Risks with Local Implications to Meet New Challenges in Cyber Attacks from Both Foreign and Domestic Adversaries
- Develop Evidence-Based Policy Recommendations for and a Technology Roadmap (TRM) to Improve Cybersecurity Whole of State System Strategy.

POLICY Recommendations for elected local, state, and federal officials, private sector partners, and federal agencies.

Conclusions

- No single institution can meet the challenges posed by Cyber threats.
- We need a partnership between our academic institutions, government(s), industry, and citizens.
- This will enable us to create the necessary synergies to better serve Oregon.
- Legislative financial support will serve as a catalyst to attract private and federal funding and other resources to OCCE.
- This partnership will enable our institutions to better serve the citizens of the State and better train our students for careers in cybersecurity and cyber defense.

Thank You for Listening