



# Cybersecurity

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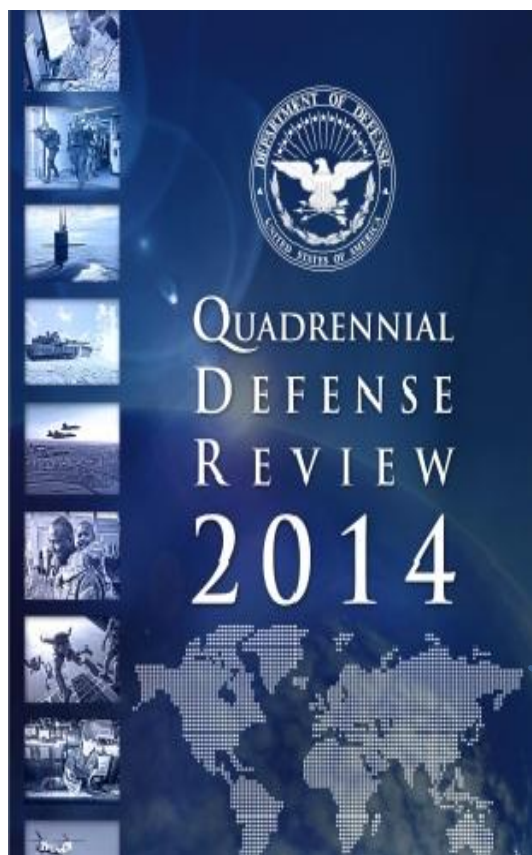
Director Cybersecurity and Technology (CS&T)

DoD CIO

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# Quadrennial Defense Review 2014



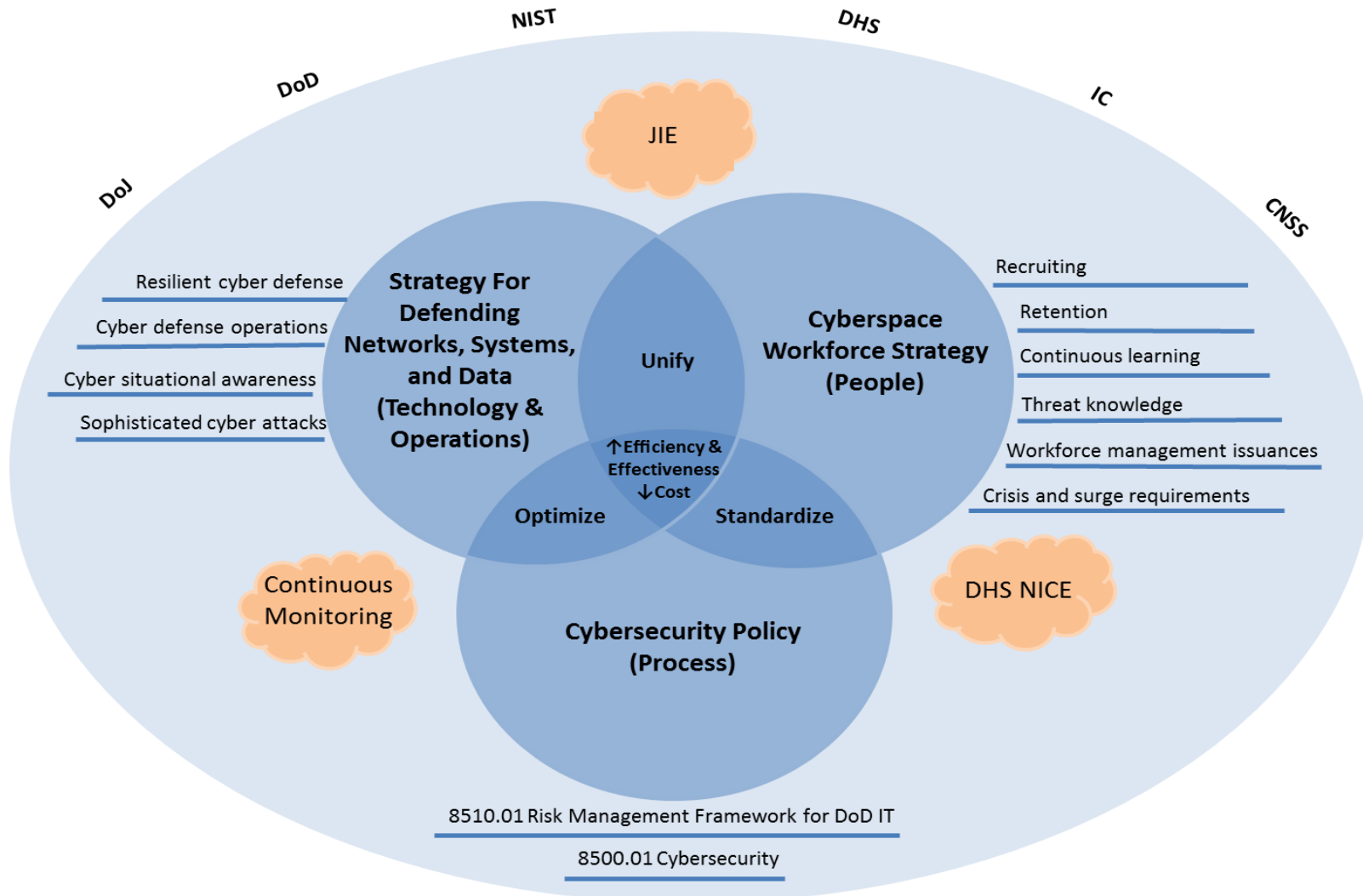
“The importance of cyberspace to the American way of life – and to the Nation’s security – makes cyberspace an attractive target....”

“Innovation is paramount given the increasingly complex warfighting environment we expect to encounter.”

“Deterring and defeating cyber threats requires a strong, multi-stakeholder coalition....”



# Multi-tiered Risk Management Initiatives





# Defending Networks, Systems, and Data

## 4 Focus Areas & 16 Critical Elements

### Establish a Resilient Cyber Defense Posture

Architect a Defensible Information Environment

Enhance Security through Cyber Hygiene and Best Practices

Strengthen Data Defenses

Increase Focus on Industrial Control Systems & Embedded Computing

Institutionalize Threat-Based Engineering & Acquisition

### Transform Cyber Defense Operations

Improve Active Cyber Defense Capabilities

Mitigate All Phases of Cyber Aggression

Ready Forces to Maneuver

Employ Unpredictable Defenses

### Enhance Cyber Situational Awareness

Improve the Cyber Sensing Infrastructure

Harness the Power of Big Data Analytics

Implement a Multi-Mission Cyber Operational Picture

Increase Information Sharing and Cooperation

### Assure Survivability against Highly Sophisticated Cyber Attacks

Assure Survivability of High Priority Mission Areas

Prepare for Success Against Large-Scale Cyber Attack

Quickly Regenerate Cyber Capabilities



# Questions

**Vanessa Hallihan**

Principal Deputy to the  
DoD Deputy CIO for Cybersecurity

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