Protecting the Nation’s Critical Information
One Team, One Mission
Defending cyberspace in 2018 and beyond.
Cyber Risk.

Function (threat, vulnerability, impact, likelihood)

Energy

Transportation

Manufacturing

Defense
Defense Science Board Reports

- Resilient Military Systems and the Advanced Cyber Threat
  - Cyber Supply Chain
  - Cyber Deterrence
Complexity.

Attack surface.
The adversaries are relentless.
Exfiltrate information.
Preposition malicious code.
Bring down capability.
Economic security.
National security.
Protecting critical systems and assets—
The highest priority for the national and economic security interests of the United States.
Kinetic space.
Cyber space.
OPM.
Anthem Blue Cross Blue Shield.
Ashley Madison.
2016
F-35 design documents.
2017
143,000,000
Equifax.
Navy’s advanced submarine technology.
Big Data.
Information has value.
800,000
Requirements and controls.
Blocking and tackling.
One team, one mission.
Effectiveness.
Reducing susceptibility to cyber threats requires a multidimensional strategy.

1. **First Dimension**
   - **Harden the target**
   - **Limit damage to the target**

2. **Second Dimension**
   - **Make the target resilient**

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
Some final thoughts.
Institutionalize.

The ultimate objective for security and privacy.

Operationalize.
Leadership.
Governance.
Accountability.
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