



Cybersecurity Threats and Challenges

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Cybersecurity Is Critical to DoD Mission Success



*Every Mission
Depends on Cyber*



*Cyber Adversaries
Advancing Rapidly*



*Cyber Threats
Asymmetric*



*Must Operate with
Mission Partners*



*Integrate Cyber
with Land, Sea, Air,
and Space*



One View of Cyber Threat Sources

LIKELIHOOD

Strategic Information Warfare – Highly Structured

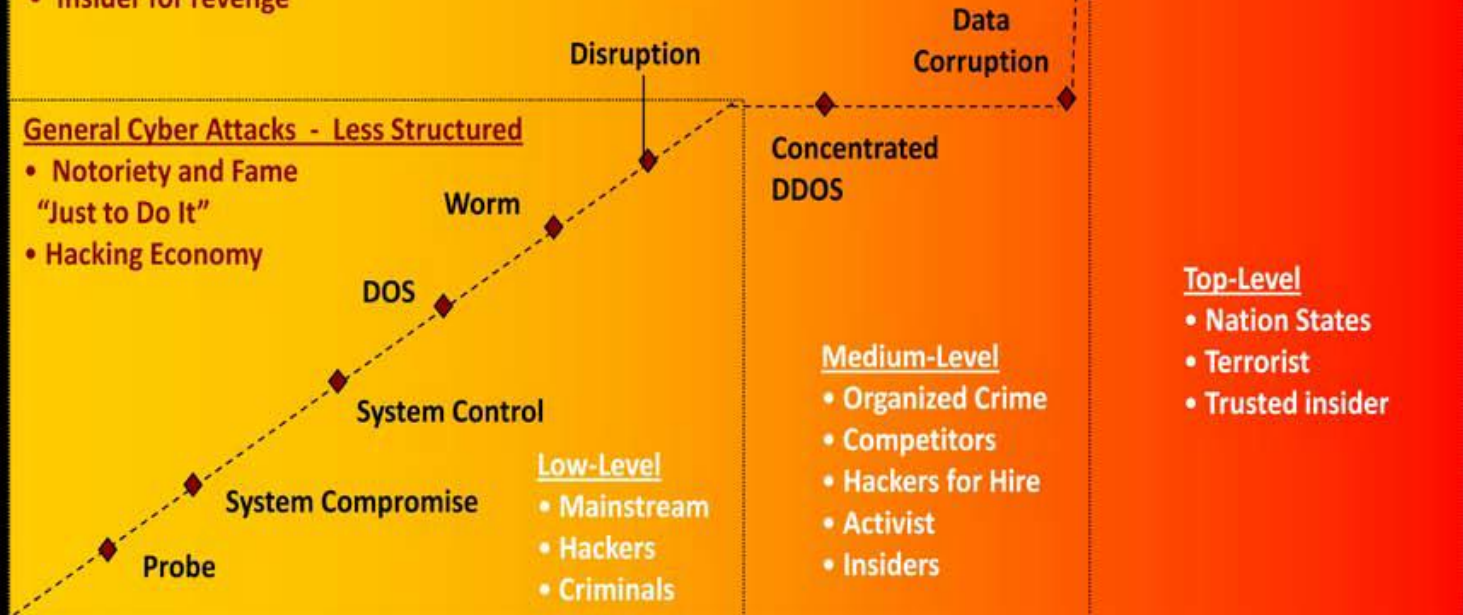
- Major Economic Gain
- Cyber Terrorism
- Asymmetric Warfare
- Cause physical damage

Directed Cyber Attacks – Structured

- Direct & Targeted Monetary Gain
- Extreme Activist / Groups
- Insider for revenge

General Cyber Attacks - Less Structured

- Notoriety and Fame
“Just to Do It”
- Hacking Economy



CONSEQUENCES



Potential Threat Vectors



IT Equipment
(Storage, comm, processing)



Mobile Devices
(smart phones, tablets)



Supply Chain
(hardware & software)



COTS Software
Operating Software
(apps, networking, GOTS)



**Acquisition,
Manufacturing, Operations**
(IP theft, sensors, displays,
TPMS)



**Industrial Control
Systems (SCADA,
HVAC, Power, etc.)**



Requires a Comprehensive Approach

