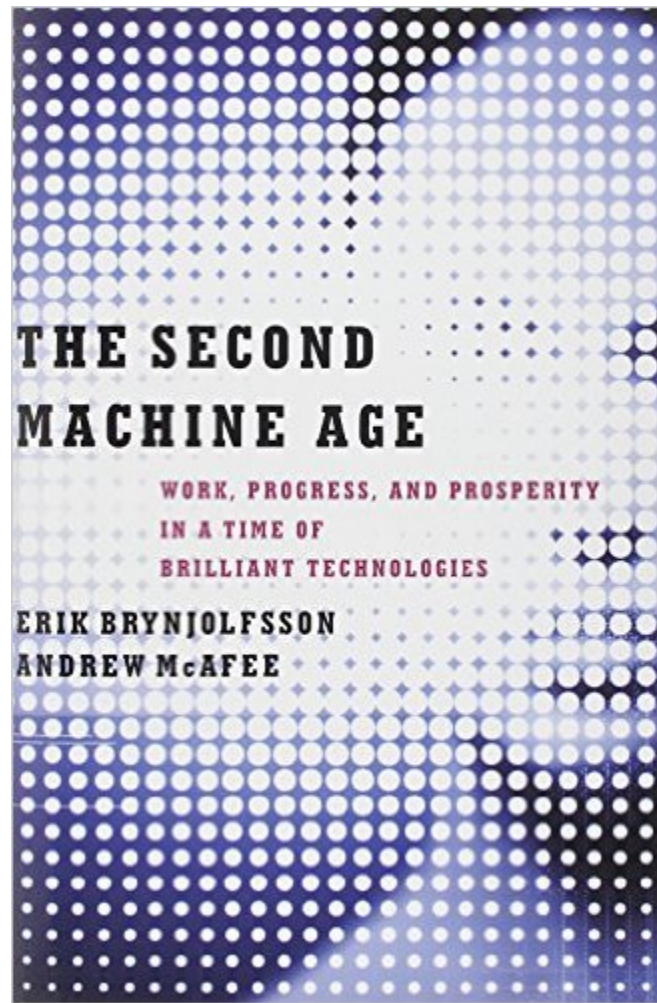




TRANSPORTATION RESEARCH BOARD

# Cybersecurity Today

## “Threats and Opportunities”

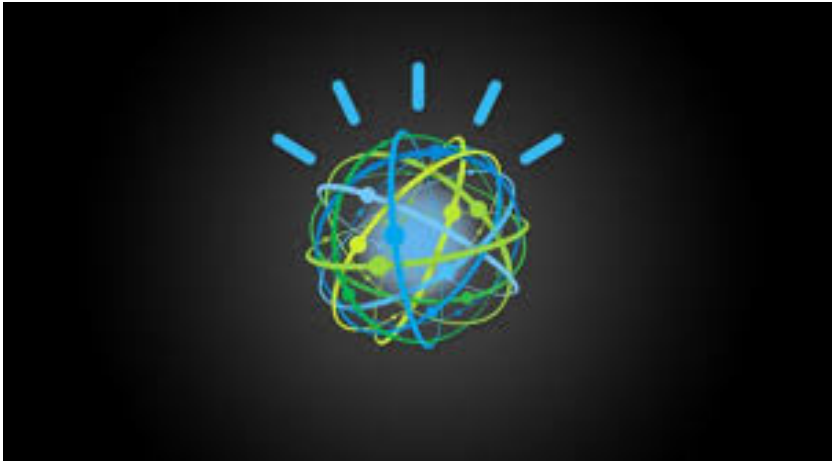
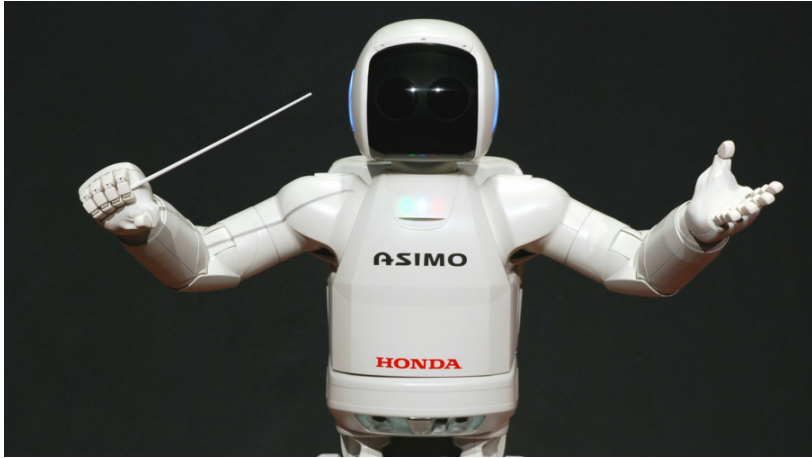


We are at a major inflection point where technology will drastically change the world as we know it.

# The Technologies

- High Speed Wireless Connectivity
- Big Data
- Artificial Intelligence
- Cheap Sensors

“The Rise of Smart Machines”





# The Cyber Battlefield



Where is this?

# The Cyber Battlefield



A Closer Look

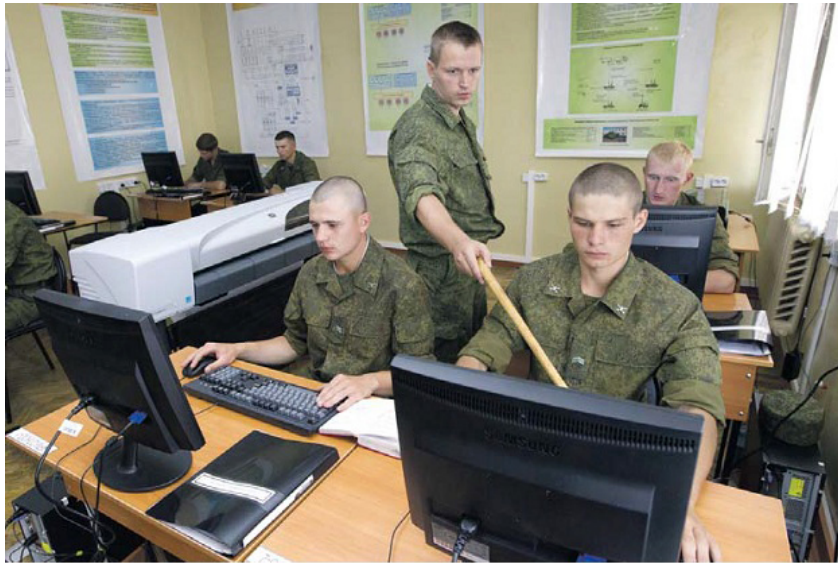
# The Cyber Battlefield



A Look Inside



# The Cyber Battlefield



**WANTED**  
BY THE FBI

Conspiracy to Participate in Racketeering Activity; Bank Fraud; Conspiracy to Violate the Computer Fraud and Abuse Act; Conspiracy to Violate the Identity Theft and Assumption Deterrence Act; Aggravated Identity Theft; Conspiracy; Computer Fraud; Wire Fraud; Money Laundering; Conspiracy to Commit Bank Fraud

**EVGENIY MIKHAILOVICH  
BOGACHEV**



Russian FSB and Criminal Syndicates



# The Cyber Battlefield



North Korea

# The Cyber Battlefield



## Iranian Ties

- Infrastructure
  - Tehran registration
  - "Parastoo"
- Iranian content
- Targeting
- Tehran working hours and days

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Iran

# The Cyber Battlefield



Even Nigeria

# The Cyber Battlefield



Blue Forces



# The Cyber Battlefield



Blue Forces

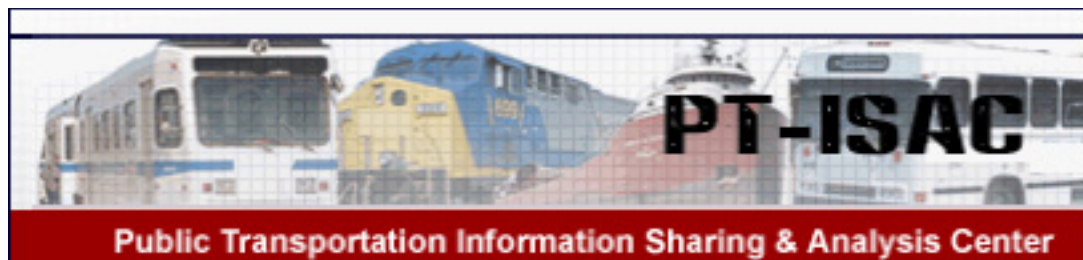
# The Cyber Battlefield



Homeland  
Security

Blue Forces

# The Cyber Battlefield



Blue Forces

# The Way Forward

All stakeholders need to agree on the appropriate frameworks to:

- Assess Risk
- Develop Mitigations to Create Resilience
- Develop Full Response Plans

“The past always tries to control the creativity that builds upon it. Free societies enable the future by limiting this power of the past”

Larry Lessig, Roy L. Furman Professor of Law and Leadership at Harvard Law School.