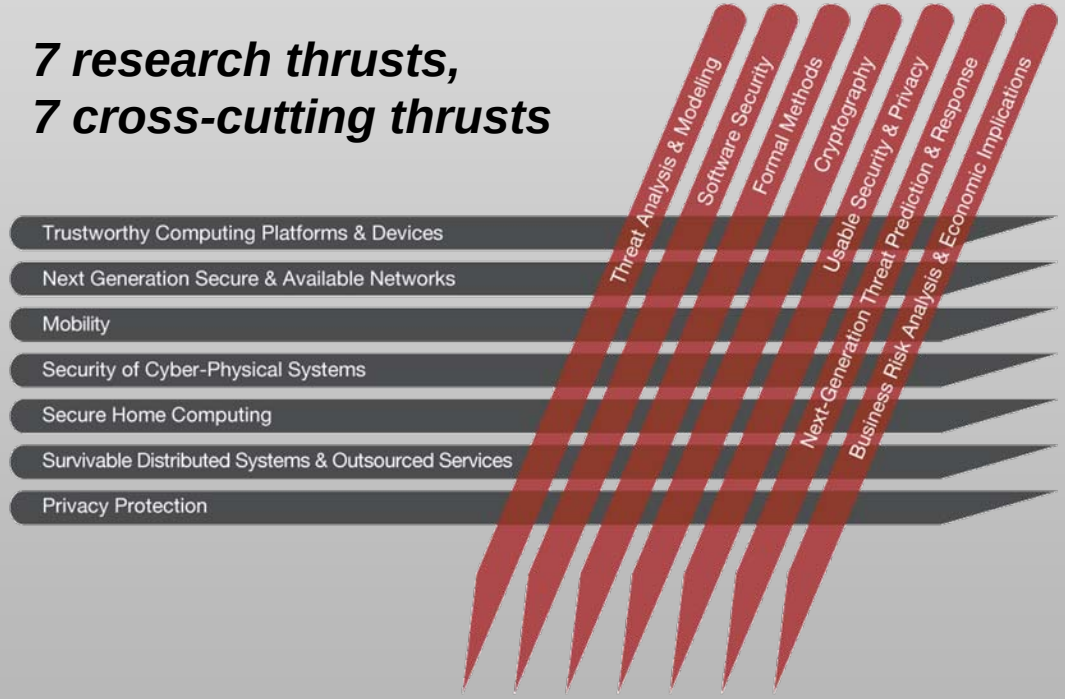
Carnegie Mellon CyLab
CONFIDENCE FOR A NETWORKED WORLD

One of World's Premier Cyber Research Programs

- ***Cross-disciplinary, university-wide: 6 colleges, 50+ faculty, 130+ grad students***
- ***Private & public funding***
- ***Technology transfers***
- ***Capacity building***

7 research thrusts,
7 cross-cutting thrusts



Carnegie Mellon CyLab BIOMETRICSLAB

CyLab Usable Privacy & Security Laboratory HTTP://CUPS.CS.CMU.EDU

mobility research center
Carnegie Mellon CyLab

Multiple centers & labs: CyLab Trustworthy Computing Center, CyLab Biometrics Center, CyLab Usable Privacy & Security (CUPS) Lab, CyLab Mobility Research Center

CYBERSECURITY RESEARCH Consortium

CyLab Consortium Research Projects

- **Detection Mechanisms for Integrity Attacks on Sensing & Control Software Systems**
  - Detect integrity attacks on distributed control software systems. Has software on embedded devices been modified? Are there discrepancies between sensed & expected behavior? What do they indicate?
- **Towards Minimizing the Attack Window for Exploitable Bugs**
  - Develop techniques, attack models and theoretical foundations for finding new bugs, prioritizing bugs by their exploitability and safely distributing patches that fix exploitable bugs
- **Real-Time Execution Trace Recording & Analysis**
  - Enable real-time forensics, which would otherwise be impossible. Did attackers exploit vulnerability to compromise systems; if yes, what operations did they perform?

CYBERSECURITY RESEARCH Consortium