

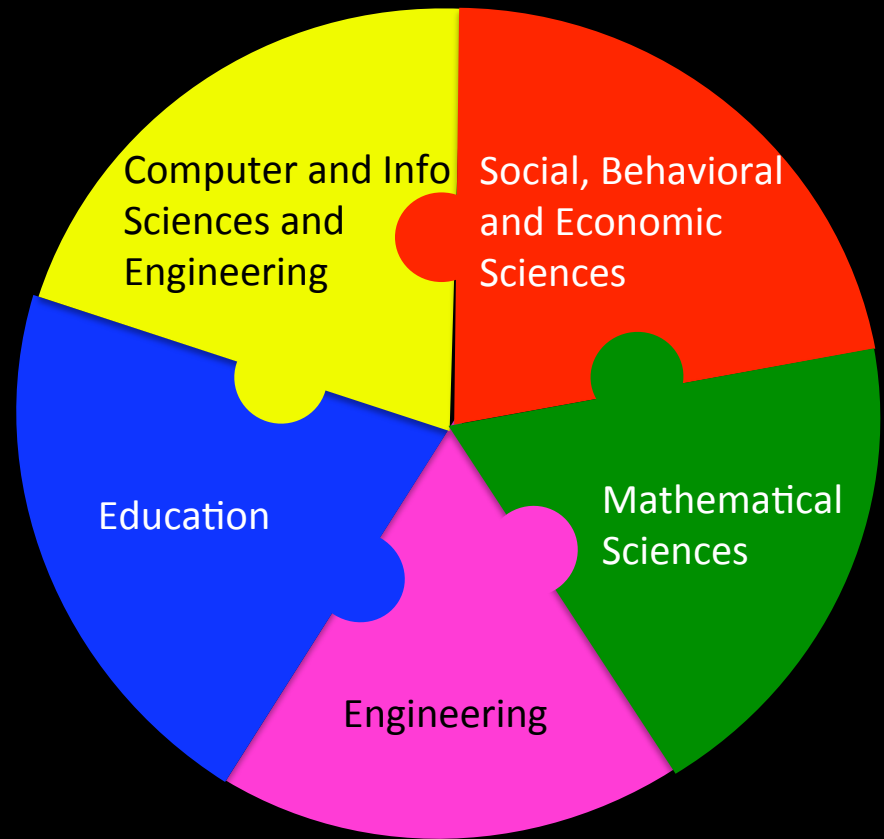
Toward More Secure and Trustworthy Cyberspace

Ken Calvert
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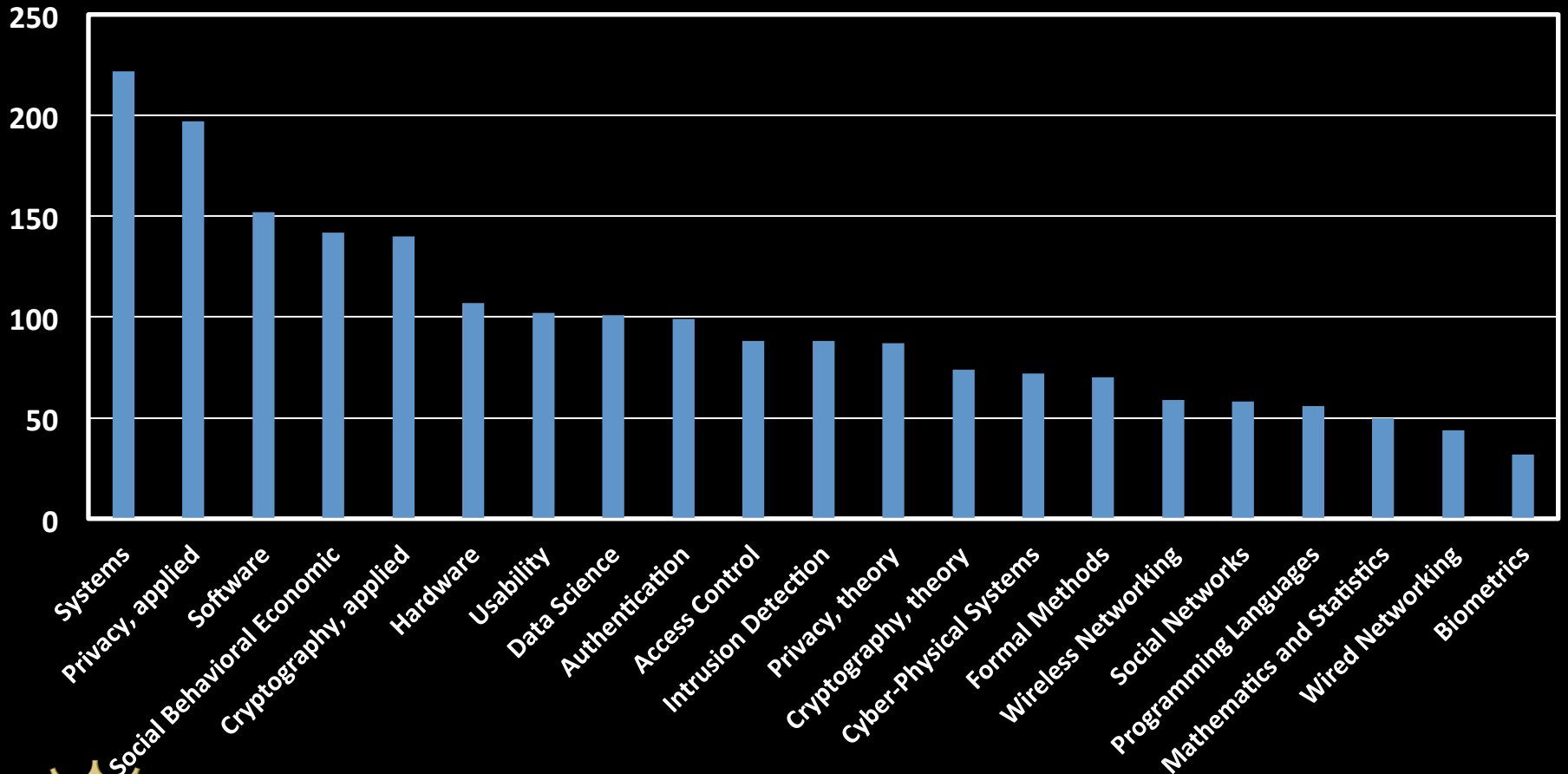


Secure and Trustworthy Cyberspace

- NSF's flagship program for security and privacy
- An interdisciplinary community of researchers
 - Primarily universities & nonprofits
- FY16 Investment: ~\$75M
- ~830 active grants



SaTC Topic Areas (per PI meeting questionnaire)



SaTC Includes Many Pieces

Base solicitation (Solicitation 16-680)

- Aligned with NITRD Strategic plans
- Holistic, no “perspectives”
- Designations are administrative (not intellectual) boundaries
 - CORE
 - EDU (max \$300K, 2 years)
 - STARSS (smalls only, w/Semicon Research Corp.)
 - Secure, Trustworthy, Assured and Resilient Semiconductors and Systems
 - Transition to Practice (small, medium only)



SaTC Includes Many Pieces

Dear Colleague Letters

- Enabling US-Netherlands Collaboration for Privacy Research (16-027)
- Special Guidelines for Submitting Collaborative Proposals under the US NSF/CISE - US-Israel Binational Science Foundation International Opportunity (17-020)
- Enabling US-Brazil Collaboration on Cybersecurity Research (17-024)



SaTC Includes Many Pieces

Dear Colleague Letters

- Enabling New Collaborations Between CISE and Social, Behavioral and Economic Sciences (SBE) Research Communities (17-019)
- Encouraging Reproducibility in Computing and Communications Research (17-022)



Partnerships with Industry

- Intel
 - Cyber-physical Systems Security
- Semiconductor Research Corporation
 - Secure, Trustworthy, Assured and Resilient Semiconductors and Systems (STARSS)
- VmWare
 - Software-Defined Infrastructure as a foundation for Clean Slate Computing Security



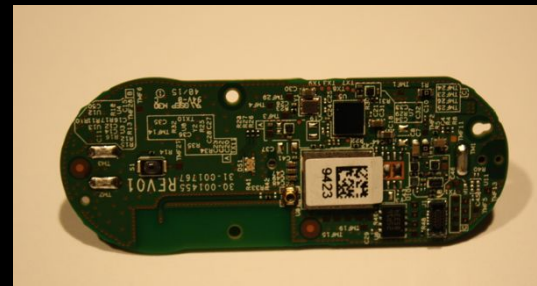
Parting Thoughts

- Ethics
- Data Management
- Sociotechnical
- “1000 points of light”



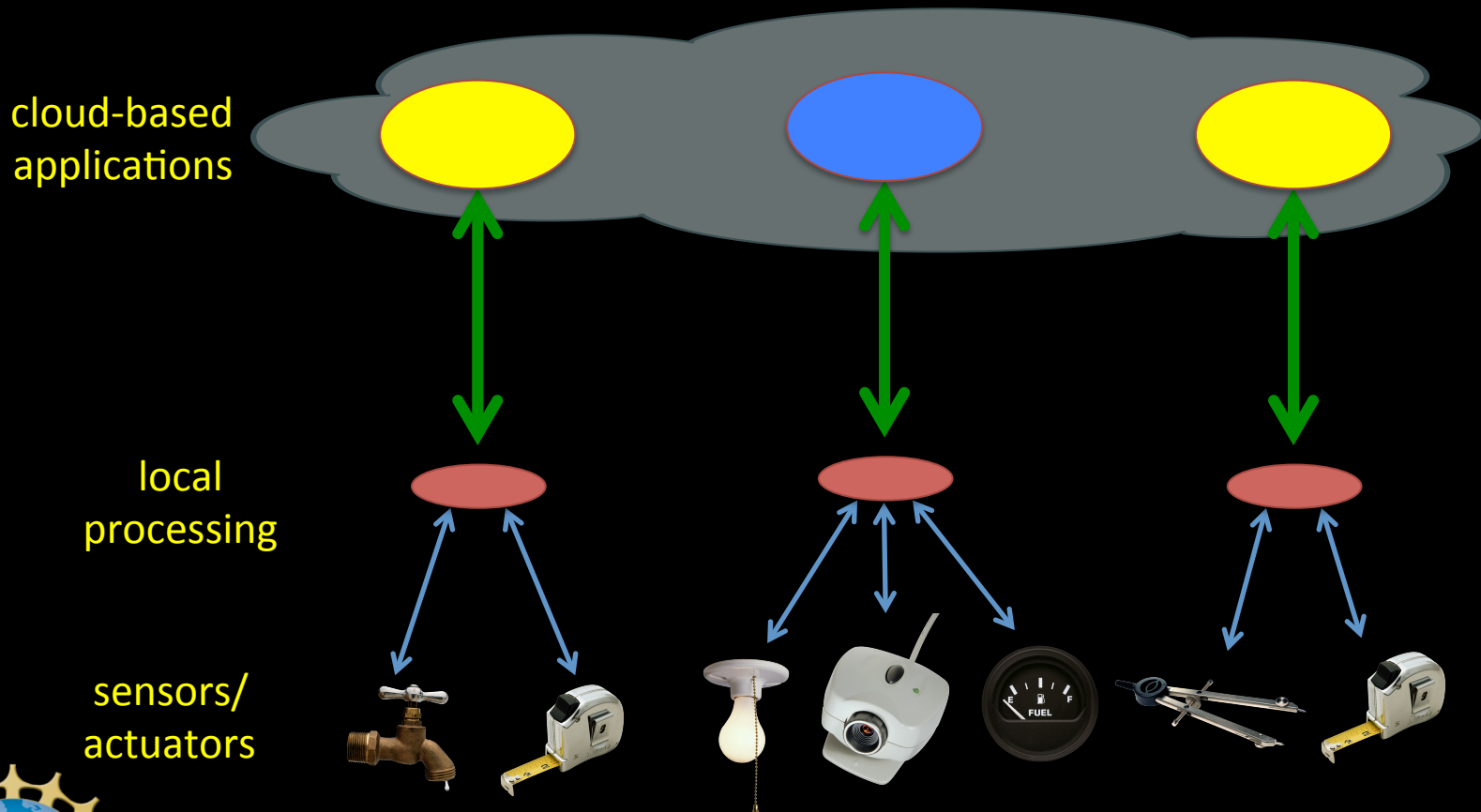
“Internet of Things” An Illustration





Example: Internet of Things

What We Have (mostly)



Thank You!

