The Cyber Security Research Alliance

An Industry Led Initiative
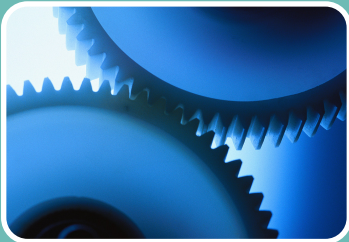
November 28, 2012

2012 Secure and Trustworthy Cyberspace Principal Investigators' Meeting

The Status Quo

Government

- Invests primarily in R&D that is critically important to the security of the nation but cannot ensure the commercial applicability and productization of the technologies developed.

Industry

- Corporate research focuses on developing innovations to fuel the organic growth of their enterprises. These innovations are viewed as strategic assets for competing in the marketplace. But industry is not motivated to invest in cybersecurity research and development that does not have near-term tangible economic benefits.
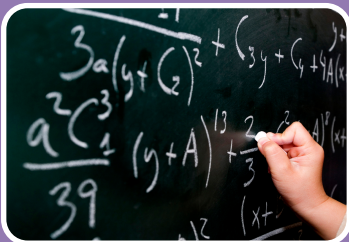
Academia

- Academia primarily engages in long-term basic and applied research in cybersecurity which pushes the frontier of what is known and possible. However, this frontier is often disconnected from the operational reality. Members of this community often find it difficult to move beyond first-level deliverables, such as research papers and limited prototypes.

CSRA
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Opportunity

Coordinated industry participation to address national cybersecurity R&D imperatives and create viable game changing solutions

Industry leadership in a public-private partnership

- All stakeholders see strong need for a public private partnership
  - Internet is fabric of private sector technologies and operations

- Benefits of industry leadership in partnership with government and academia for future generations of technologies
  - Economic viability of security solutions
  - Security solutions that fit within practical business models, schedules and incentives, customer demand and commercial architectures
  - Technologies developed at Internet innovation speed, across a wide range of collaborating technology and operating companies
  - Security solutions are enablers, not obstacles to implementation

CSRA Mission and Value Proposition

- **Mission**
  - Foster the research and development of game changing solutions to critical cybersecurity challenges through effective government, industry and academia partnerships

- **Value Proposition**
  - CSRA will bridge the gap between government funded R&D and commercially available cybersecurity solutions
  - CSRA will facilitate solutions addressing grand challenges that are bigger than any one company, consortium, sector or nation

Emphasis on Technology Transfer

- Current R&D structure in academia and government doesn't put sufficient emphasis on technology transfer
  - Frequently because industry participation is limited

- CSRA will work towards increasing the practical focus in research in cybersecurity
  - Research Outlook focusing on deployability of broadly applicable ideas in cybersecurity
  - Research agenda focusing on next generation solutions
  - Pilot projects creating foundations for the next generation security technologies

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