Computing Research Association
Computing Research Association

• Members
  – 200 university departments that offer the PhD in
    • Computer Science, Computer Engineering, Information Science etc
  – 25 Research labs
    • Mostly industrial, a few university and government labs
  – Six professional societies
    • American Association for Artificial Intelligence
    • Association for Computing Machinery
    • Canadian Association of Computer Science
    • IEEE Computer Society
    • Society for Industrial and Applied Mathematics
    • USENIX Association
Mission - Strengthen Research and Graduate Education in Computing

- Influence *policy* that impacts computing research
- Encourage development of *human resources*
- Contribute to cohesiveness of the professional *community*
- Collect and disseminate *information* about the importance and state of computing research
Policy

- IT Research Funding and Research Environment
- Tracking Budgets
- Educating Members on Advocacy
- CRAN (advocacy network)
- Testimony
- Submissions to Congressional Committees
- Policy Reports
- Workforce Policy
- Issues Related to Women and Minorities
- CRA Women (CRA-W) Senior Leadership Development Seminar
- Digital Government Fellowship
- News Conferences
- Congressional Visits
- Publications
- Website
• World’s largest federation of scientific and engineering societies

• More than 135,000 scientists, engineers, science educators, policymakers, and other interested citizens among its individual members

• Mission: To advance science and innovation throughout the world for the benefit of all people
AAAS

- Where science, government and society intersect:
  - Center for Science, Technology and Congress
    - Briefings for congressional staff, newsletter, regional meetings
- Dialogue on Science, Ethics and Religion
  - Facilitate communication between scientific and religious communities
- Fellowships for Scientists and Engineers
- R&D Budget and Policy Program
- Research Competitiveness
  - Assists universities and other R&D institutions in enhancing their research capabilities
- Science and Human Rights
  - Application of scientific methods and techniques to the promotion of human rights worldwide
- Scientific Freedom, Responsibility and Law
  - Works to uphold high ethical standards for science and engineering
AAAS R&D Budget and Policy Program

- Studies and colloquia on funding and policy issues affecting federal support of R&D
- Annual Research and Development analysis each FY
  - Key resource for tracking the federal budget process and its impact on federal R&D
  - CRA contributes analysis on computing research
  - [www.aaas.org/spp/rd/](http://www.aaas.org/spp/rd/)
The Problem

• Industrial research in computing is changing
  – There is less of it
  – It is shorter term
  – Consider: Bell Labs, IBM, Xerox PARC, NEC

• Federal funding is not closing the gap
• Short term - optimize what is there
• Long term - work to re-incentivize corporate investment and to increase federal investment