# NSF Perspectives on the IT R&D Ecosystem



Users & uses

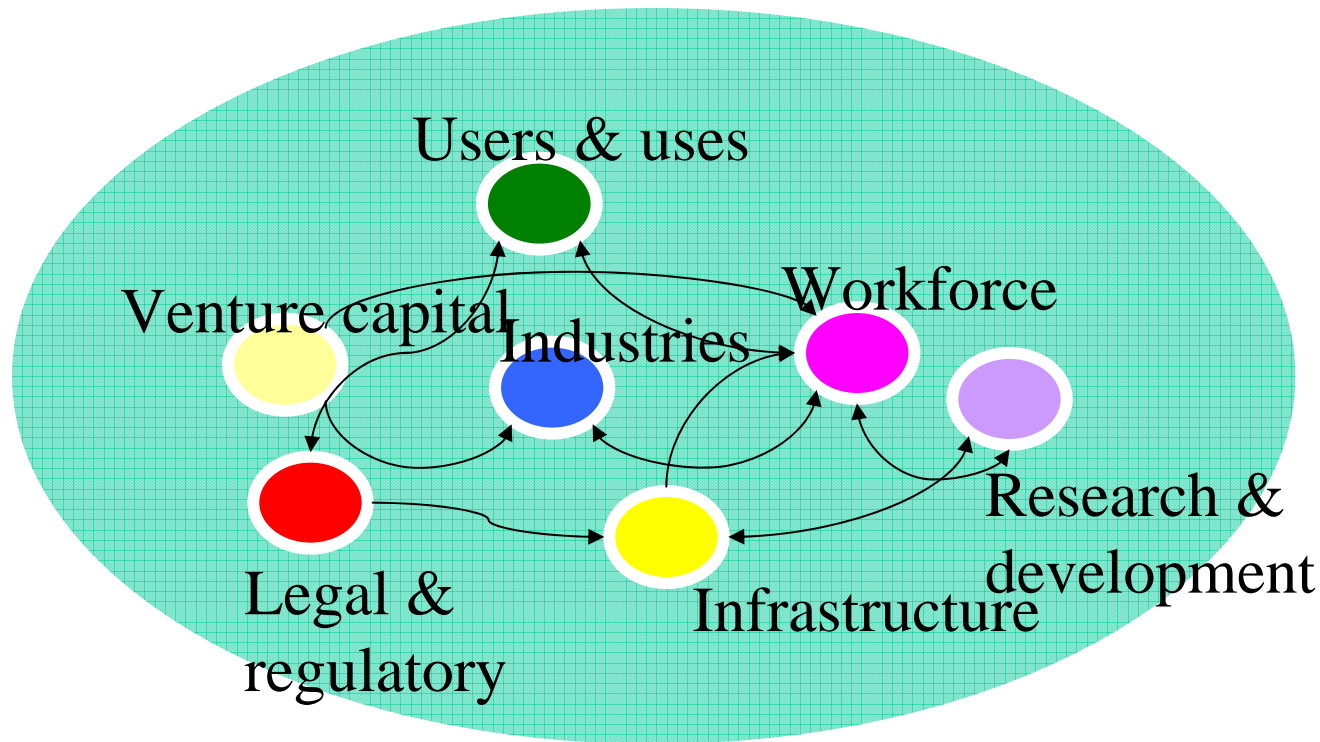Venture capital

Industries

Workforce

Legal & regulatory

Infrastructure

Research & development

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# NSF Mission

*To promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense; and for other purposes.*

# NSF Contributions to IT R&D Ecosystem

- IT Workforce
- Fundamental Research & Development in IT
- Government-University-Industry Partnerships

# Science of Science & Innovation Policy

- Goals
  - Understand contexts, structures & processes of S&E research
  - Reliably evaluate tangible and intangible ROI in R&D
  - Predict returns from future R&D investments

  Available at
    http://www.nsf.gov/sbe/scisip/scisip_prospectus.pdf

# Science and Engineering Indicators 2006

- Chapter 6. Industry, Technology & the Global Marketplace
    - US Technology in the Global Marketplace
    - US Trade Balance in Technology Products
    - US Royalties and Fees Generated by IP
    - New High-Technology Exporters
    - Patented Inventions
    - Venture Capital and High-Technology Enterprise

    Available at http://www.nsf.gov/statistics/seind06/