The United States led the world’s economies in the 20th century because we led the world in innovation. Today, the competition is keener; the challenge is tougher; and that is why innovation is more important than ever. It is the key to good, new jobs for the 21st century. That’s how we will ensure a high quality of life for this and future generations.

President Barack Obama, 2009
Our Challenge
As Learning Institutions

The nation that out-educates us today is going to out-compete us tomorrow.

President Barack Obama, 2010
Think Big, Be Bold, Embrace Risk

Wealth in the new regime flows directly from innovation, not optimization; that is, wealth is not gained by perfecting the known, but by imperfectly seizing the unknown.

Kevin Kelly, New Rules for the New Economy, Wired

All great truths begin as blasphemies.

George Bernard Shaw
A FY 2010 Snap-Shot of CISE ($619 million)

- Division of Computing and Communication Foundations
  - Computer engineering
  - Computer science fundamentals

- Division of Computer and Network Systems
  - Computer systems, network systems

- Division of Information and Intelligent Systems
  - Information systems, Databases, AI, Robotics, Human-centered computing

Fundamentals of hardware and software

Translational/Applications of Computing
A FY 2010 Snap-Shot of CISE ($619 million)

Division of Computing and Communication Foundations
- Computer engineering
- Computer science fundamentals

Division of Computer and Network Systems
- Computer systems, network systems

Division of Information and Intelligent Systems
- Information systems, AI, Robotics, Human-centered computing

Expeditions in Computing (mini Engineering Research Centers), Industry-University Cooperative Research Centers
- Data-intensive Computing, Trustworthy Computing, Network Science and Engineering, Cyber-Physical Systems (with ENG)

Computing Research Infrastructure
- Developing Computational Thinking Competencies in Secondary and Higher Education
Stimulating Innovation and Economic Growth – FY 2010 and Beyond

- Cyber-Physical Systems
- Science and Engineering Beyond Moore’s Law
- Computing and the Environment
- Smart Health: Care and Management
- Educate to Innovate – putting the C in STEM
- Cyber-learning