THE COMPUTING COMMUNITY CONSORTIUM: CATALYZING AND ENABLING COMPUTING RESEARCH

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SOME MOTIVATING QUESTIONS

- How do we energize the community around “big ideas” that will create excitement and energy around computing and computational research?
- How do we shape and articulate our relevance to national priorities?
- How do we communicate these ideas, as a community, to science policy and funding leadership?

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OUR MISSION

The **mission** of Computing Research Association's Computing Community Consortium (CCC) is to:
catalyze the computing research community and
enable the pursuit of innovative, high-impact research.

CCC conducts activities that
strengthen the research community,
articulate compelling **research visions**, and
align those visions with pressing **national and global challenges**.

CCC **communicates** the importance of those visions to **policymakers**, government and **industry stakeholders**, the **public**, and the **research community** itself.

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WHAT DO WE DO?

Community-initiated visioning:

- Workshops to discuss "out-of-the-box" ideas
- Blue Sky Ideas tracks at conferences

Outreach to White House, funding agencies:

- Outputs of visioning activities
- Short reports to inform policy makers
- Task Forces – Computing in the Physical World, Convergence of Data and Computing, Healthcare, Industry, Privacy, Education

Communicating CS Research:

- CCC Blog [http://cccblog.org/]
- Computing Research in Action Video Series
- Research "Highlight of the Week"
- "The Impact of NITRD" symposium

Nurturing the next generation of leaders:

- Computing Innovation Fellows Project
- Leadership in Science Policy Institute
- Postdoc Best Practices Program

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WHAT DISTINGUISHES CCC?

- **Proactive, rapid response**
  - Identify, plan, and execute in a matter of weeks to months
- **Community-based**
  - Find and foster ideas from germination to fruition and beyond
- **Leadership incubator**
  - Everyone is expected to do something!

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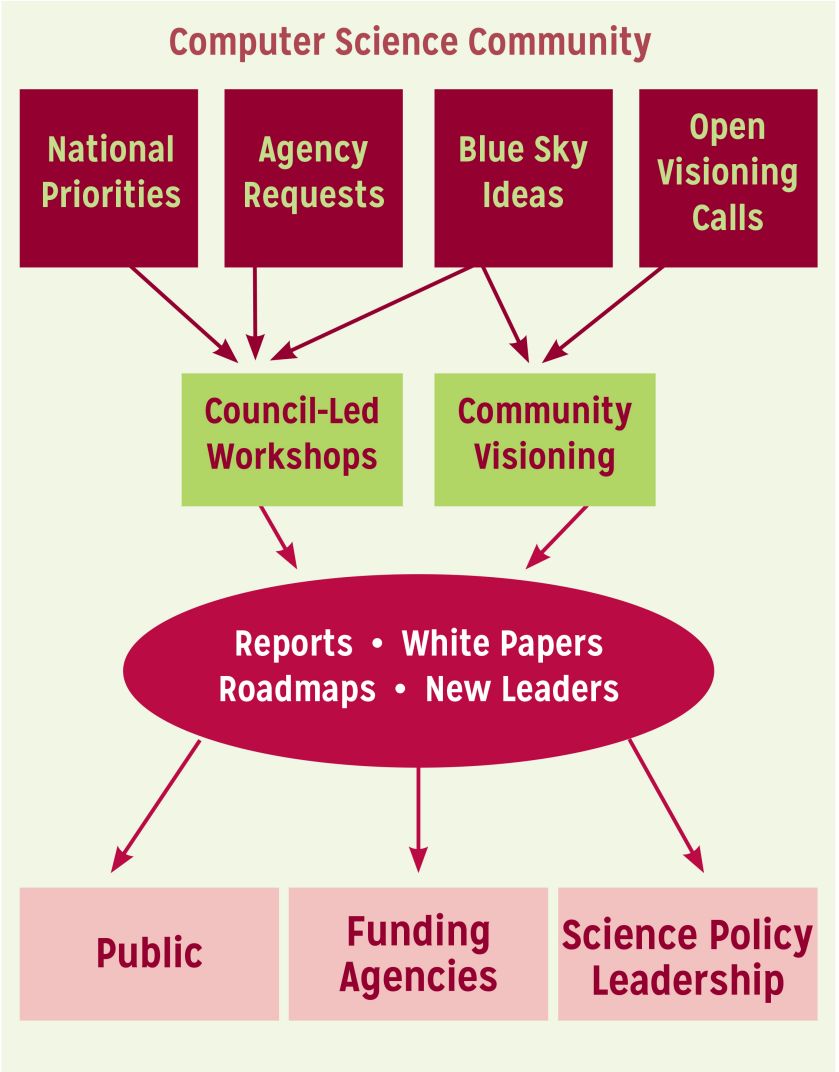
VISIONING GOALS

- Shape new directions within and across communities involved with computer science
- Communicate the excitement and promise of CS research to stakeholders



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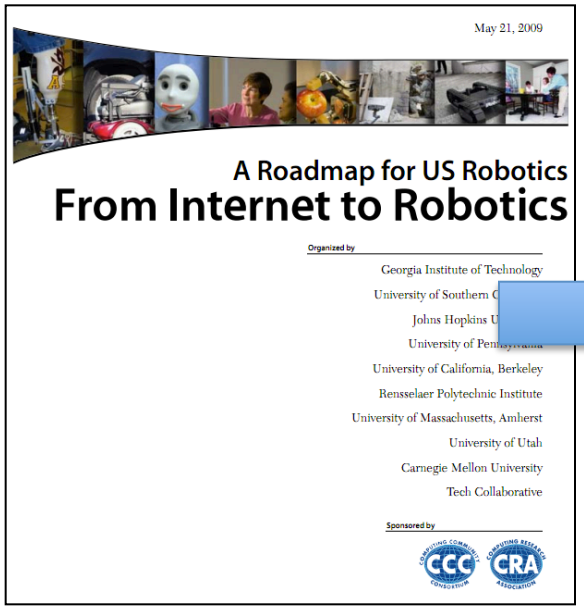
CATALYZING AND ENABLING: ROBOTICS


May 21, 2009

A Roadmap for US Robotics
From Internet to Robotics

Organized by

Georgia Institute of Technology
University of Southern C
Johns Hopkins U
University of Penn
University of California, Berkeley
Rensselaer Polytechnic Institute
University of Massachusetts, Amherst
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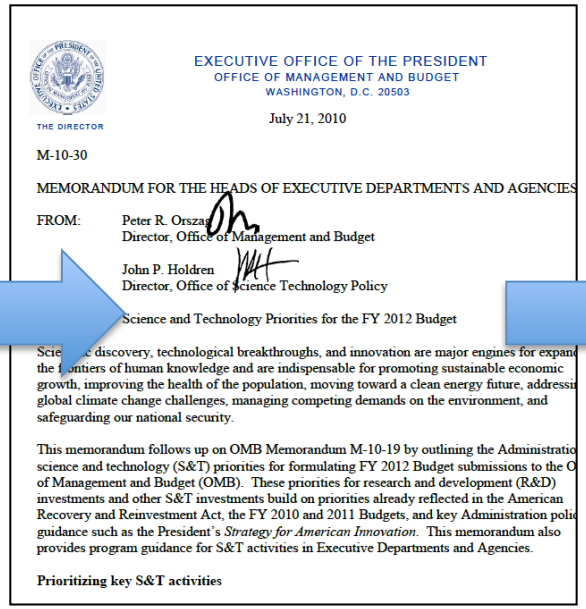
EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF MANAGEMENT AND BUDGET
WASHINGTON, D.C. 20503

THE DIRECTOR

July 21, 2010

M-10-30

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: Peter R. Orszag
Director, Office of Management and Budget

John P. Holdren
Director, Office of Science Technology Policy

Science and Technology Priorities for the FY 2012 Budget

Scie c discovery, technological breakthroughs, and innovation are major engines for expand the f ntiers of human knowledge and are indispensable for promoting sustainable economic growth, improving the health of the population, moving toward a clean energy future, addressi global climate change challenges, managing competing demands on the environment, and safeguarding our national security.

This memorandum follows up on OMB Memorandum M-10-19 by outlining the Administratio science and technology (S&T) priorities for formulating FY 2012 Budget submissions to the O of Management and Budget (OMB). These priorities for research and development (R&D) investments and other S&T investments build on priorities already reflected in the American Recovery and Reinvestment Act, the FY 2010 and 2011 Budgets, and key Administration poli guidance such as the President's *Strategy for American Innovation*. This memorandum also provides program guidance for S&T activities in Executive Departments and Agencies.

Prioritizing key S&T activities


Office of Science and Technology Po

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Developing the Next Generation of Robots

Posted by Tom Kalil and Sridhar Kota on June 24, 2011 at 10:14 AM EDT

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ch at Carnegie Mellon University, President Obama is launching the Advanc esearch initiative that will promote a renaissance of American manufacturing.

One ex ting element of the President's Advanced Manufacturing Partnership is the National Robots are working for us every day, in countless ways. At home, at work, and on the battlefie increasingly lifting the burdens of tasks that are dull, dirty, or dangerous.

But they could do even more, and that's what the National Robotics Initiative is all about. So t (the National Science Foundation, the National Institutes of Health, NASA, and the United Sta Agriculture) are issuing a joint solicitation that will provide up to $70 million in research fundin generation robotics.

The focus of this initiative is on developing robots that work with or beside people to extend o capabilities, taking advantage of the different strengths of humans and robots. In addition to i technology needed for next-generation robotics, the initiative will support applications such a

4 meetings during summer 2008

Roadmap published May 2009

Extensive discussions between visioning leaders & agencies

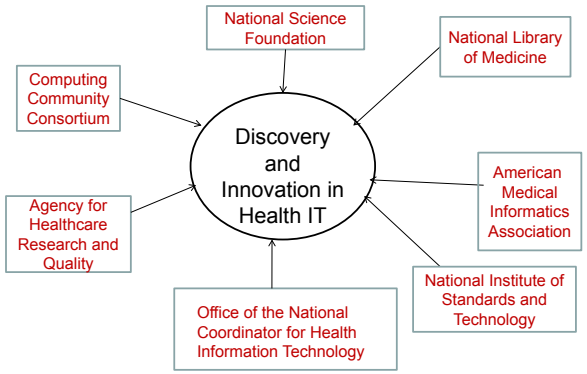
OSTP issues directive to all agencies in summer 2010 to include robotics in FY 12 budgets

National Robotics Initiative announced in summer 2011

Henrik Chistensen
Georgia Tech

CATALYZING AND ENABLING: HEALTH IT

October 2009 Workshop



National Science Foundation
WHERE DISCOVERIES BEGIN

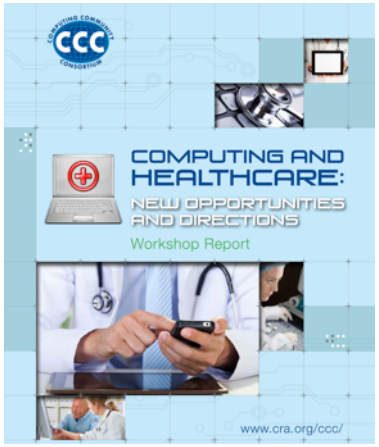
Directorate for Computer & Information Science & Engineering

SMART HEALTH AND WELLBEING (SHW)

CONTACTS

See program guidelines for contact information.

SYNOPSIS



Smart and Connected Health (SCH)

PROGRAM SOLICITATION
NSF 13-543

REPLACES DOCUMENT(S):
NSF 12-512

National Science Foundation

Directorate for Computer & Information Science & Engineering
Division of Computing and Communication Foundations
Division of Computer and Network Systems
Division of Information & Intelligent Systems

Directorate for Engineering

Directorate for Social, Behavioral & Economic Sciences

National Institutes of Health

October 2012 Workshop

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CLOSING THOUGHTS

- Don’t talk about research you’ve done, talk about ideas and aspirations for the field
- Think out of the box and across boundaries – meet new people and generate new ideas!
- Produce something that will “move the needle” by creating new ideas and avenues for discourse.

HAVE FUN!

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