

# **The Computing Community Consortium: Why, What, Who, How?**

**Dan Reed**

***Chair, CRA Board of Directors***

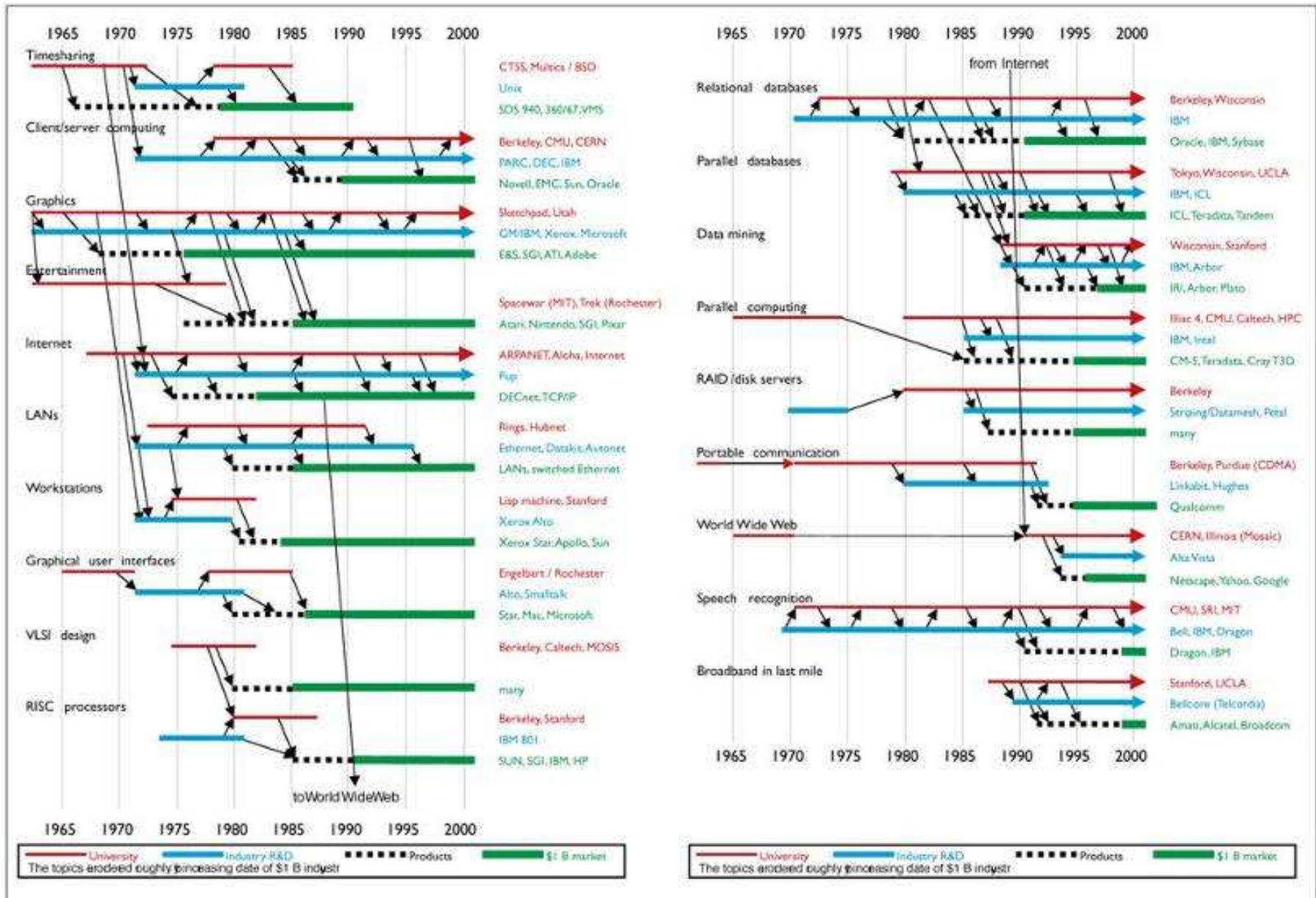
**[www.cra.org](http://www.cra.org)**



# Why A CCC?

- What questions shape our intellectual future?
- What attracts the best and brightest minds of a new generation?
- What are the next big computing ideas?
  - that will define the future of computing
  - galvanize the very best students
  - catalyze research investment and public support
- ***Computing Community Consortium purpose***
  - *create compelling research visions*
  - *create the mechanisms to realize these visions*

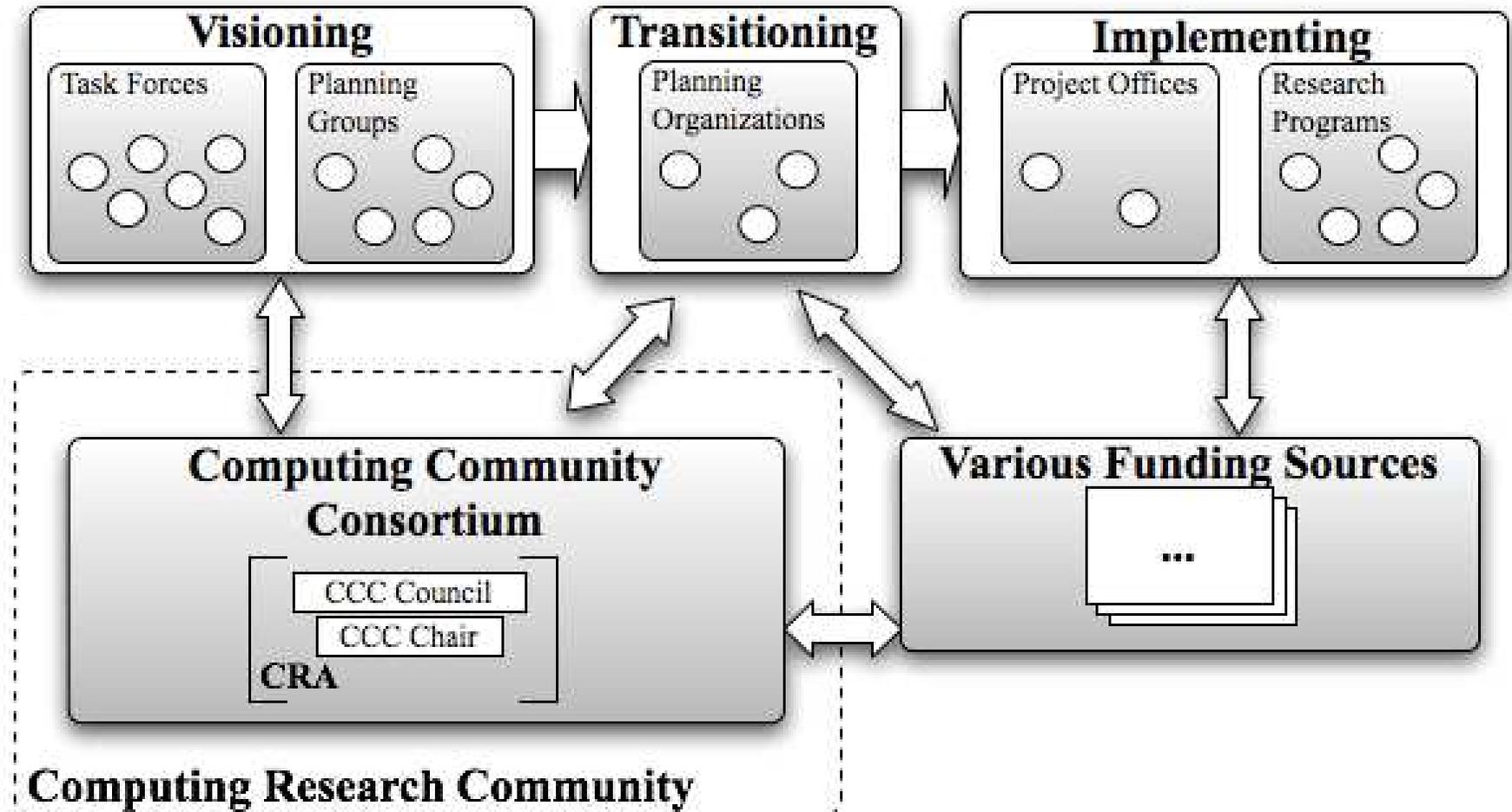
# Computing's Impact: Billion Dollar Industries



# The CCC Challenge

- **Catalyze the computing research community**
  - debate long range, more audacious research challenges
  - build consensus around research visions
  - articulate those research visions
  - work with funding organizations
    - move the challenges and visions toward funding initiatives
- **Do this without harming the research environment**
  - that has created the computing world of today

# How Will The CCC Work?



# Who Will Be The CCC?

- **Broadly inclusive**
  - the entire computing research community
- **Welcome participation**
  - any computing researcher who wishes to be involved
- **The CCC Council's role**
  - stimulate and facilitate visioning
  - NOT to do the visioning
- **A Cooperative Agreement with CISE**
  - Will be an interactive partnership

# Relationship to GENI

## Not interdependent

- **GENI was impetus for CCC**
- **But CCC's mission and impact much broader**

## Serve as proxy organization

- **Create the GENI Science Council**
  - **Work with GENI Planning Group to evolve GENI Science Plan**
  - **Work with GENI Project Office to ensure design meets science needs**
- **Communicate with the computing community on GENI**
  - **Expand community understanding of GENI**
  - **Maximize community participation**
    - **science plan, design, and use**

# Broader Impacts

## General public

- Promote computing as a thriving discipline
- Show role of IT in tomorrow's world

## Students

- Entice more students to enter computing fields
- Provide training opportunities for future leaders

# Plans

## Bootstrapping (Oct-Nov 2006)

- Interim GENI Community Advisory Board
- Interim CCC Council
- Solicit nominations for chair & council

## Steady state

- Council & chair members selected by
  - combination of CRA & CCC with community input

# Interim CCC Council

- **Interim council members**
  - Bill Feiereisen, LANL
  - Jessica Hodgins, CMU
  - John Hollerbach, Utah
  - Daniel Jackson, MIT
  - Dick Karp, California-Berkeley
  - John King, Michigan
  - Peter Kogge, Notre Dame
  - Dan Ling, Microsoft
  - Francis Sullivan, IDA
  - David Tennenhouse, A9
  - Ellen Zegura, Georgia Tech
- **Office of the chair (interim)**
  - Greg Andrews, Arizona
  - Susan Graham, UC Berkeley
  - Ken Kennedy, Rice
  - Ed Lazowska, Washington
  - Ran Libeskind-Hadas, HMC
  - Anita Jones, Virginia
  - Dan Reed, UNC

# Requirements for Success

- **Community involvement**
  - **Computing community must believe in the mission & operation of the CCC**
- **Support from funding agencies**
  - **Funding agencies must be open to the directions identified by the visioning processes**
- **Effective leadership**
  - **Dedicated and visionary people must be willing to serve as chair & council members**