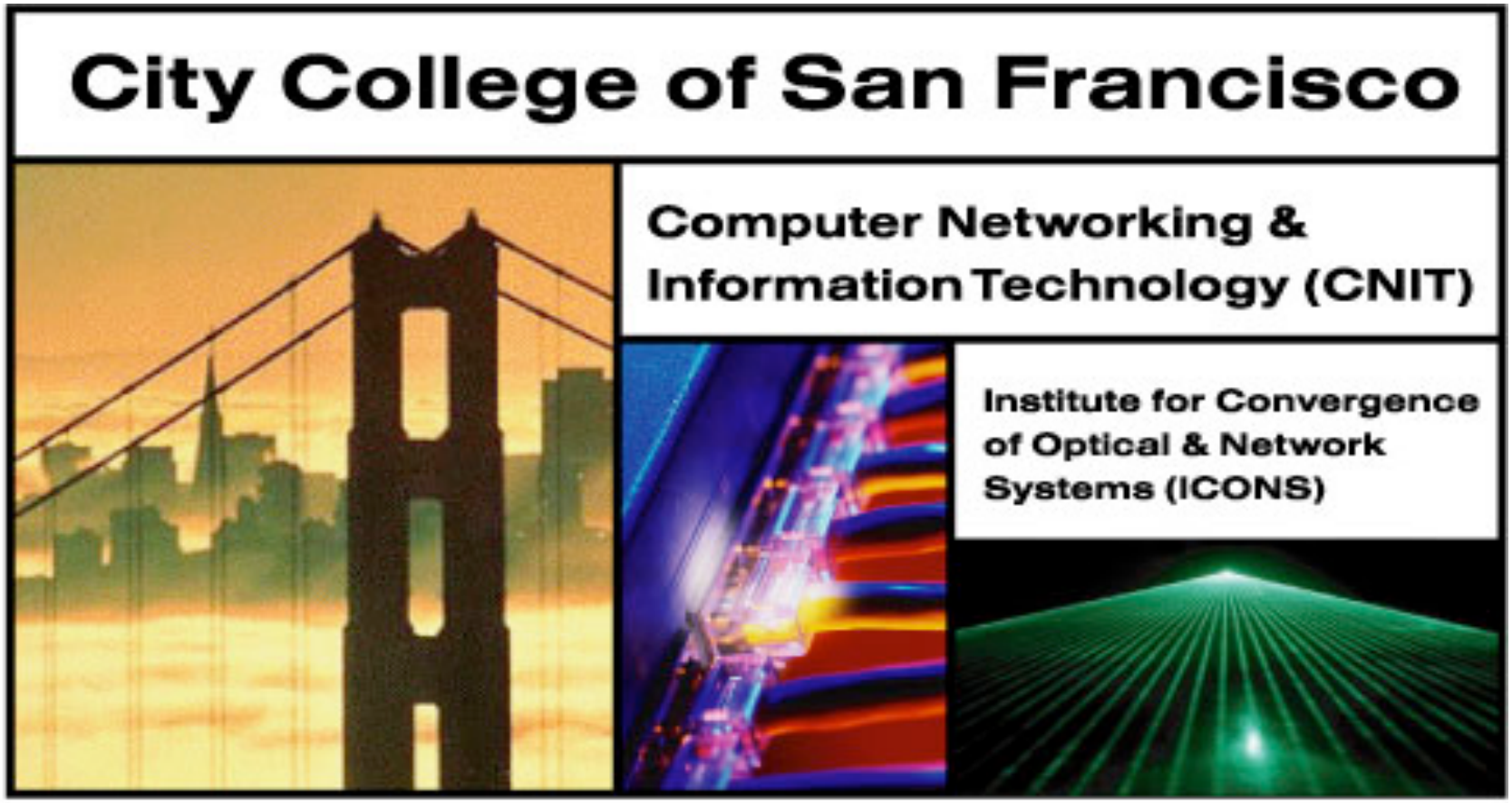


4th ICONS Advisory Panel Meeting

City College of San Francisco Downtown Campus Room 821
March 20, 2007 11am to 1pm

This material is funded in part by the National Science Foundation under Grant DUE 0501703

Presentation & Facilitation By

- **Dr. Pierre Thiry** - ICONS Principal Investigator & CNIT Instructor
  - pthiry@ccsf.edu (415) 239-3594
- **Tim Ryan** - Network Manager & ICONS Co-Principal Investigator
  - tryan@ccsf.edu (415) 452-5352
- **Carmen Lamha** - Chair CNIT Dept & ICONS Co-Principal Investigator
  - clamha@ccsf.edu (415) 239-3396
- **James Jones** - Consultant
  - james@photisis.com (415) 867-6616

CNIT Education & Training Services at City College of San Francisco

CNIT Seminars & Workshops

For Exposure to Advanced Technologies & Other Specialized Subjects

For Bay Area Residents of All Kinds With Relevant Specialized CNIT Interests

Creating CNIT Literate Communities and Competent CNIT Workforces in the San Francisco Bay Area!

Continuing CNIT Education & Training

For Working Professionals & Managers Seeking New Knowledge & Skills

Of Interest to CNIT Professionals, General Management & Others Seeking Additional CNIT

Academic Program Majoring in CNIT

For Students Seeking AS Degrees And/Or Further Academic Studies at 4 Year Institutions

Of Interest to High School Students & Graduates Desiring Transfer Credit Toward Longer-Term Academic Goals

Entry Level CNIT Job Training

For Entry Level and Other Specialized Computer, Network and Information Technology Jobs

Of Interest to High School Students, CCSF Students & Other Bay Area Residents Looking For Employable Technology Skills

General CNIT Competencies

Basic CNIT Knowledge, Skills and Capabilities Needed to Function Well in Information and Knowledge Economies

Of Interest to All Students at Any High School, College or University (regardless of major); All Bay Area Residents & Employees of All Kinds

CNIT provides knowledge and skills to succeed and prosper in our modern information and knowledge economy!

City College of San Francisco

ICONS

Institute for Convergence of Optical & Network Systems

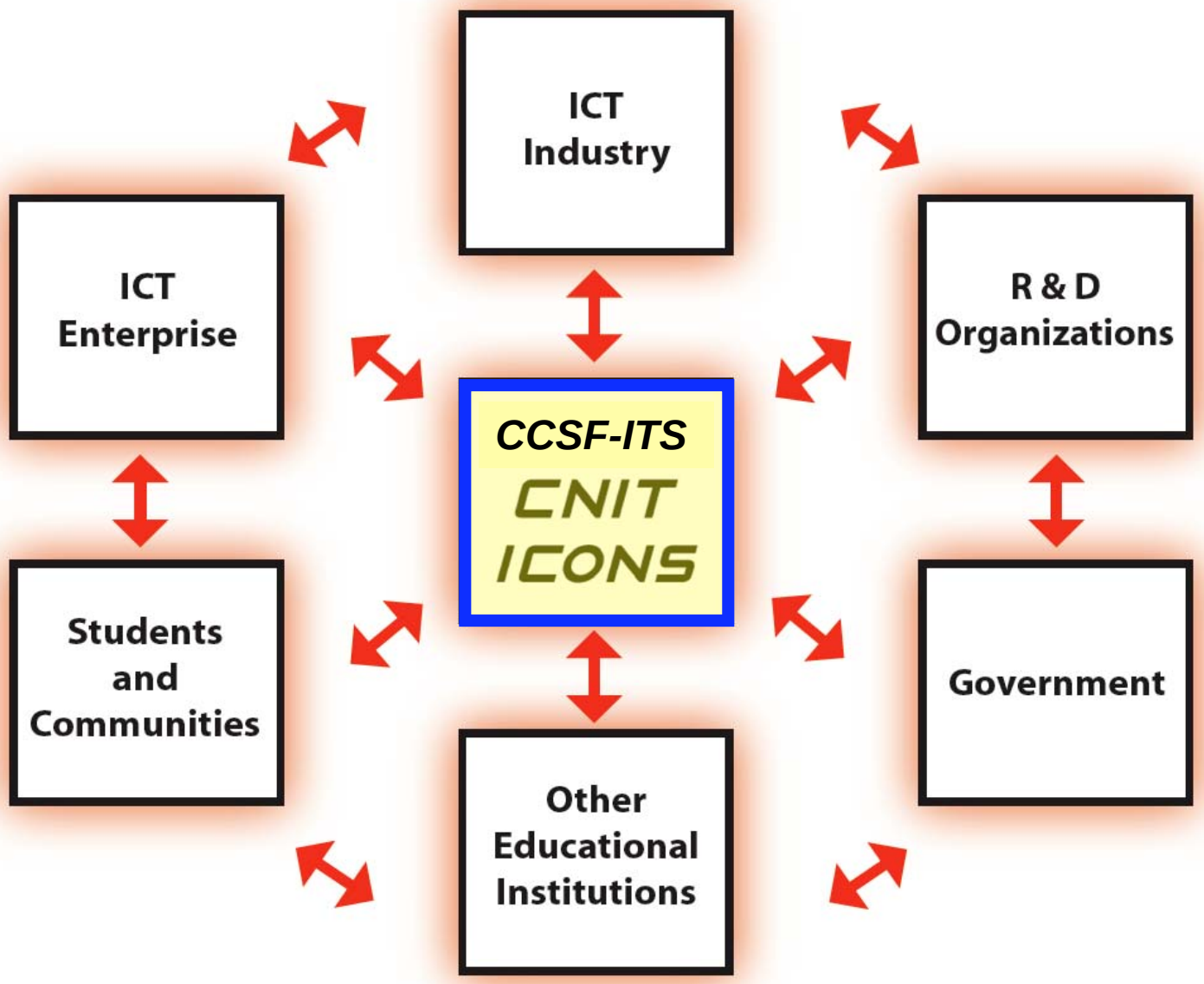
CNIT Chair Carmen Lamha with
San Francisco Mayor Gavin Newsom
At Press Event Announcing ICONS

- **NSF ATE Project**
- **$750,000 over 3 years**
- **Convergence Technician Training**
- **Utilizing ICT Infrastructure**
- **Cost-Effective Skill & Knowledge Transfer for Economic Advancement**

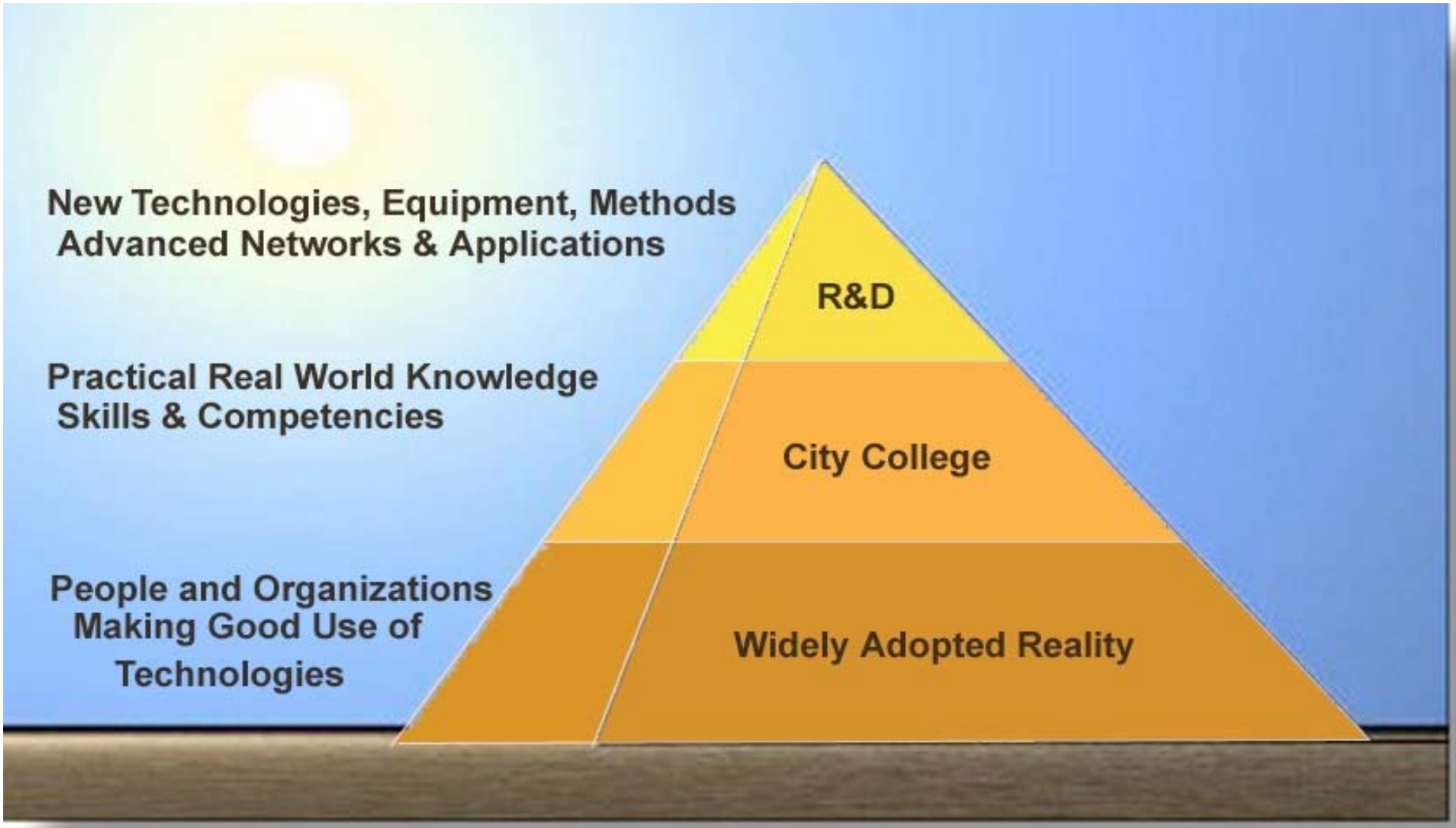
Advisory Panel

- ***CCSF***
- ***Service Providers***
- ***Educational Institutions***
- ***Equipment Manufacturers***
- ***Private Enterprises***
- ***Standards Bodies***
- ***Community Non-Profits***
- ***Government***

ICT Collaboration Web



ICT Pyramid


New Technologies, Equipment, Methods
Advanced Networks & Applications
R&D
Practical Real World Knowledge
Skills & Competencies
City College
People and Organizations
Making Good Use of
Technologies
Widely Adopted Reality

Accomplishments Since Last Meeting

- Enrollment currently at 1,322 in 59 sections, which is up roughly 10% from Last Spring
- Started IEEE Student Chapter
- Added 3rd Network Neighborhood Center Supported by CCSF Students in Bayview/Hunter's Point (SeaKay)
- 1st Juniper Networks University Center in North America
- Completed Formalized Curriculum Review & Planning
- AS Degree Endorsed & Ready for Submission to State
- Hosted NCTT Winter 2007 Conference
- Established Alumni Relations Survey
- 2 New Faculty Positions Approved)

CNIT
Computer Networking & Information Technology

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Institute for Convergence of Optical & Network Systems

Accomplishments Since Last Meeting

- **Dissemination Efforts**
  - NSF ATE Conference – Wash. DC
  - League for Innovation – Charlotte, NC
  - Society of Telecom Consultants (STC) – SF
  - IEEE GLOBECOM – San Francisco
  - CENIC Annual Conference – San Diego

CENIC `07
MAKING WAVES

- **Public Outreach**
  - SF TechConnect Community Events
  - SF Fiber Feasibility Study Interview
  - Cover Story 2/07 *Communications News*

- **Instructor Training**
  - Juniper Networks, IPTV, Asterix – (Open Source VoIP), Tropos WiFi Mesh Training, Ethical Hacking

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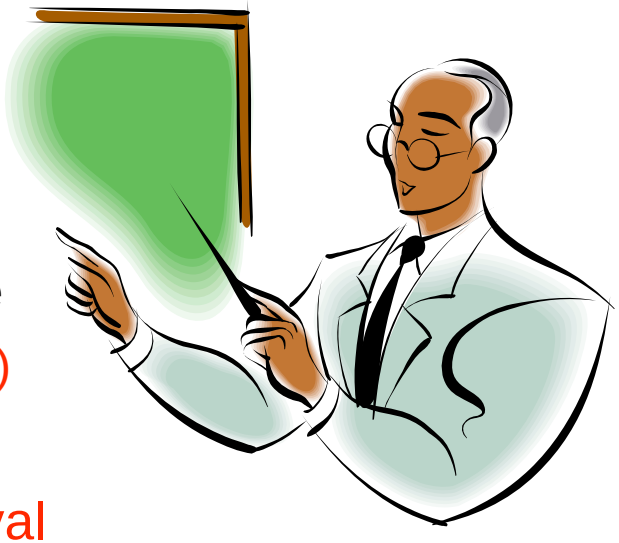
Comprehensive Review & Upgrade of CNIT/ICONS Curriculum

- Formal Process with Advisory Panel Input, Faculty Workshops…
- Consolidating Existing Courses & Adding New Skills Modules
- Addition of New Courses
  - Fiber Optics
  - Voice over IP (VoIP)
  - Ethical Hacking and Network Defense
  - Operating Juniper Routers in the Enterprise
  - Digital Home Technology Integration (DHTI)
  - #6
- Submission of CNIT AS Degree for Approval
- Creation of Convergence Certification



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Computer Networking & Information Technology

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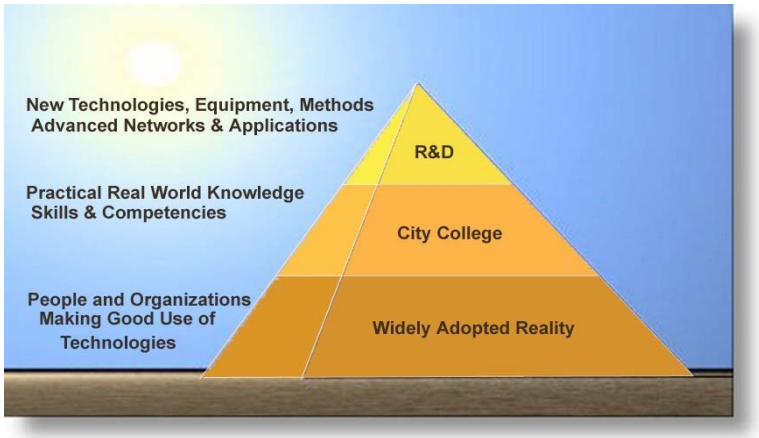
Advisory Panel Input

Emerging Technologies:



- Municipal Wireless
- RFID
- Data Center Technologies
- Multi-protocol Label Switching (MPLS)
- Virtual Private Networks (VPNs)
- Digital Video Transmission Technologies
- Unified Communications (email, voicemail…)
- Cellular Wireless Communications (3G, 4G, video…)

Advisory Panel Input

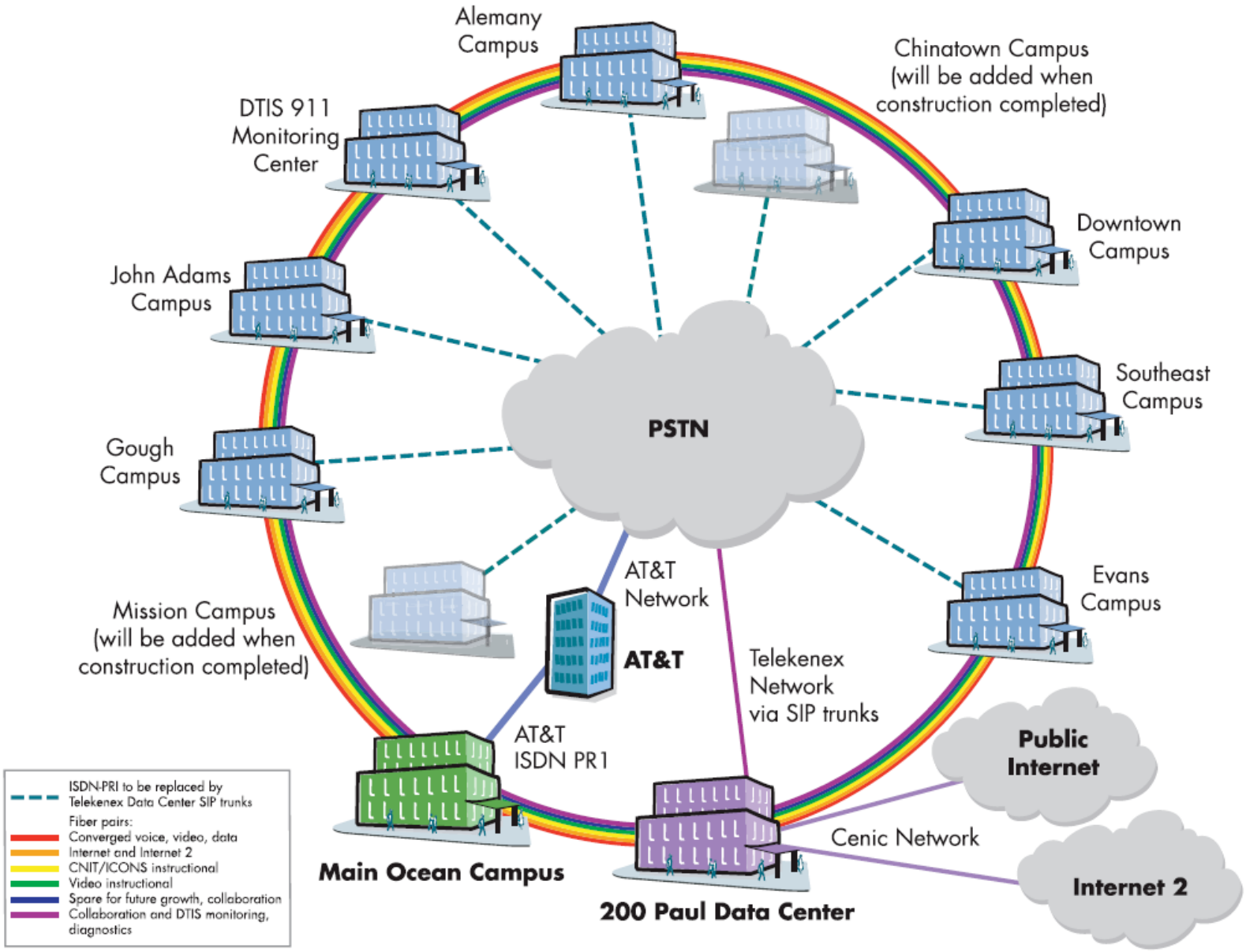
New Grant Proposal:

- NSF ATE Regional Center
  - 4 Years, Higher Funding
  - Working Closely with other Bay Area Community Colleges
- Additional Dedicated Staff Resources
- ICT Technology Showcase Facility
- State of the Art Lab and Instructional Facilities
- Additional Collaborations & Partnerships
- Other Ideas?

- **Educating Tomorrow's ICT Technicians Today!**

Advisory Panel Input

Other Ideas and Suggestions?:

- ICT Enterprise Collaborations
- Labs and Equipment
- Other Grant Opportunities
- Internships, Service Learning, Mentorships, Job Placement
- Apprenticeships
- Community Service
- Faculty Development
- Marketing and Advertisement

Alcatel–Telekenex SIP Trunks