Partnering Opportunities with Calit2

CPCC Research Showcase

March 9, 2011

Dr. G. P. Li

California Institute for Telecommunications and Information Technology
Integrated Nanosystems Research Facility

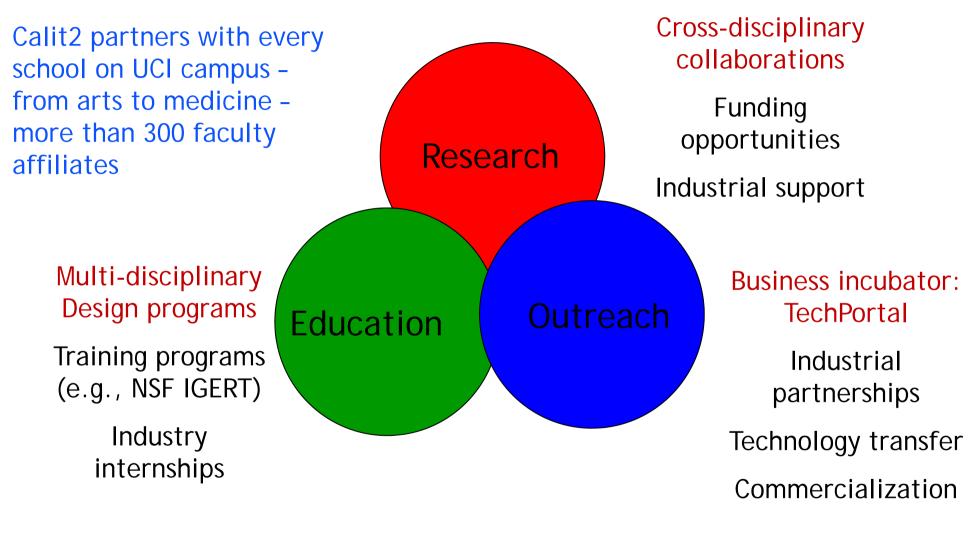
Dept. of Electrical Engineering and Computer Science Dept. of Biomedical Engineering

Dept. of Chemical Engineering and Materials Science
Henry Samueli School of Engineering





An Institute to Create Collaborations



Academia • Government • Industry





Calit2 Application Thrusts

The Digital Transformation of....





Environment





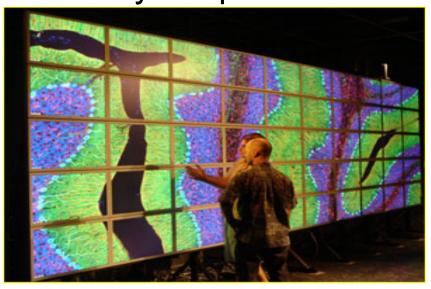
Healthcare



Calit2 Foundation Enabling Technologies

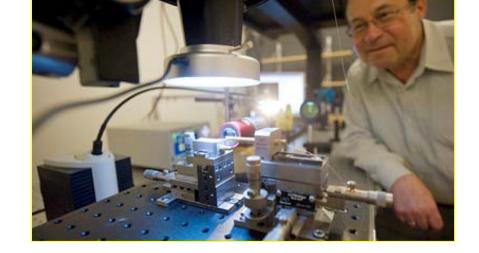


Cyberspace



Photonics

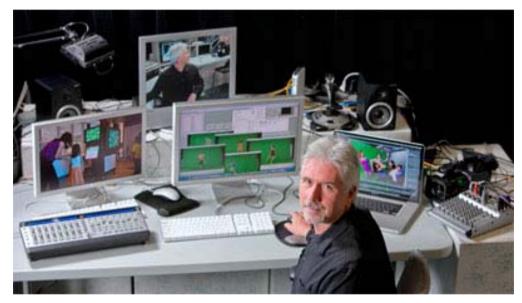






CULTURE: e-Media Studio and Distributed Arts Collaboratory

Embodied Interaction – combines processed video, computer-generated animation, motion capture and real-time motion tracking



ActiveSpace software development

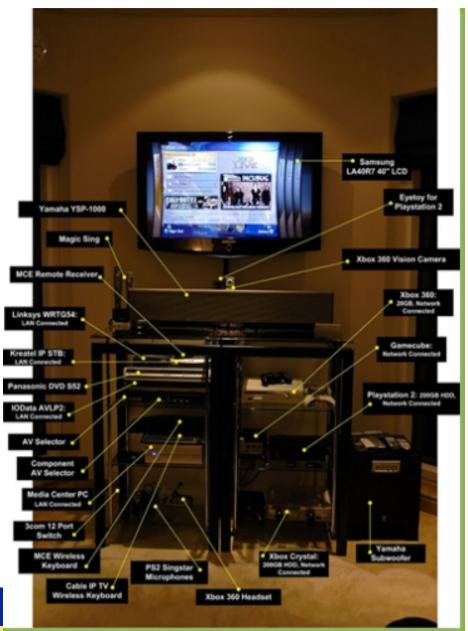
IT for understanding orthopaedic anatomy and mechanics of the lower extremity in dancers







ENERGY: Cal-Plug Center



Engineering Research:

Applied research, including the physical sciences

Work will include:

- developing test standards
- lab testing of appliances & equipment
- circuit design
- adding intelligence and remote control
- computer modeling and simulation
- mechanical engineering design
- construction of prototypes
- demonstration projects





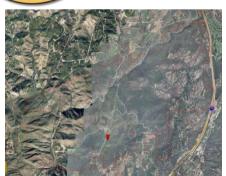
ENVIRONMENT: Empowering the Green World





- Deployment of IT for smart environmental monitoring, ie water infrastructure
- Intelligent transportation
- Water resources and environmental health
- Atmospheric sciences (global warming)















HEALTHCARE: e-Health Collaboratory

TELIOS – Telepresence Interactive Operating

System











Personalized Telemedicine

Data driven medical devices for individualized medicine

"How are you feeling today? Have you been taking your medicine? It looks like your implant needs to be checked."







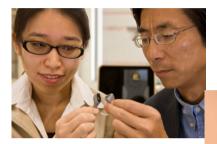
HEALTHCARE: Wireless Sensor Lab

Eco-Node Sensors

Pre-term infant motion monitoring Wearable ECG, vital sign monitoring



Bionic & Assistive Technologies



Cochlear Implants





X-Sense



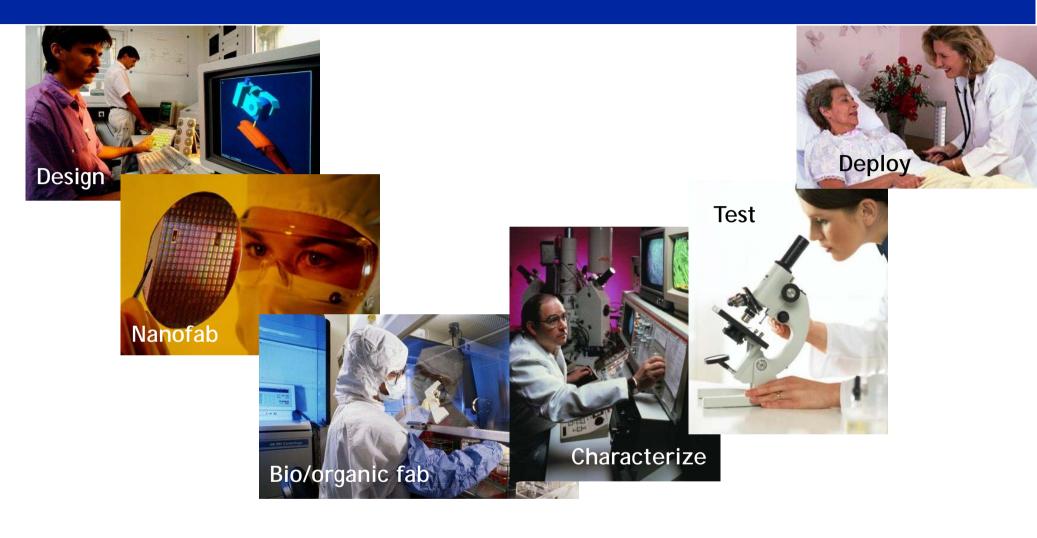
MEMs for Balance







Calit2@UCI Innovation Pipeline



Calit2 empowers technology innovation through its "Innovation Pipeline."

Innovate. Integrate. Incubate. Ignite.





We welcome collaborative opportunities. Thank You!





