

# UC Berkeley Interactive University

## Using the Internet for University/K-12 Partnerships

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# Today's Presentation

- IU project overview and history
- Current Phase
- Lessons for Educational Systems
- Possible Lessons for PNC / ECAI

# IU Project Overview

- Framework for thinking about the use of the Internet for University/K-12 relationships
  - ◆ Improve effectiveness of UC outreach efforts
  - ◆ Improve implementation of technology in schools
  - ◆ Broaden the base of students qualified for University education
- Initial Plan
  - ◆ Build a *model* of UC/K-12 use of the Internet to support teachers, students, and their families in disadvantaged communities

# Experimentation Phase

## ■ Explore Internet Outreach

- ◆ Electronic mentoring and tutoring
- ◆ Electronic recruitment and admissions
- ◆ Digital curriculum development w/ teachers
- ◆ Access to digital libraries and museums
- ◆ On-line access to faculty and visitors
- ◆ Peer-to-peer networks of teachers, students, families

# 20 Pilot Projects

- 40+ campus academic & outreach units
- 100 teachers from Oakland and SF
  - ◆ 10 high schools, 10 middle schools, 6 elementary schools
- Adult center, charter school, comm colleges
- Students, families, and counselors
- All major disciplinary areas: sciences, social sciences, and humanities

# Overall Project Coordination

- Leadership at three levels
  - ◆ Vice Chancellor and Associate Superintendents for Curriculum
  - ◆ Campus pilot coordinators and school principals
  - ◆ UC faculty/staff/students and K-12 teachers
- Full time liaisons for each district
- Evaluation team from UCB Grad School of Education

# Support by major stakeholders

- U.S. Department of Commerce TIIAP Grant
- Oakland and San Francisco School Districts
- AT&T, Pacific Bell, IBM
- UCB Chancellor's Office
- Berkeley Pledge
- Campus Departments and Units

# Example projects:

■ Interactive University Pilot Projects:

◆ <http://iu.berkeley.edu/iu>

■ Institute of International Studies:

◆ <http://globetrotter.berkeley.edu>



# Evaluation: Tough questions about Internet outreach methods

- Real *impact on students* and achievement?
- Have we *improved teaching practices*?
- *Balance* of face-to-face & Internet methods?
- Do these Internet outreach methods *scale*?
- Are they *sustainable*?
- Are they *cost effective*?
- Integrate research, teaching, and outreach?

# Results: Importance of relationship and evaluation

- Collaboration improves communication and visibility of school district needs
- University is in a in good position to do research on what is effective technology for K-12 education

# Lessons: Technology

- Infrastructure: Requires money and time
- Technical support: Chronically under funded
- Distribution of resources in the schools: Need more equitable distribution
- Training: Essential and most effective when tied to projects

# Lessons: Technology cont.

- Internet tools: Software product changes and lack of standards has impact
  - ◆ University can help drive standards and provide tools
- Internet outreach methods:
  - ◆ multiple modalities may be most powerful but are most complicated

# What's next?

## ■ Goals

- ◆ Project design that is community driven
- ◆ Core values and standards incorporation
- ◆ Curriculum development
- ◆ Collaboration support

# Beginning Second Phase

- Grants for continuing projects

  - ◆ <http://iu.berkeley.edu/iu>

- Core standards project

  - ◆ <http://www.ousd.k12.ca.us/CV/>

- Collaborative spaces

  - ◆ <http://ucnexus.berkeley.edu>

# Lessons for Educational systems

- Advantages of University/K-12 relationship
  - ◆ University research expertise
  - ◆ University technical implementation expertise
  - ◆ Information resources of University available to schools
  - ◆ Changes in K12 teaching methodology
  - ◆ Student relationship with university

# Parallels with PNC

- Collaborative model
- Distributed responsibility
- Dynamic participant group
- Mixed source media and diverse audience
- Technical and social issues
- The sum is greater than the parts



# Lessons for PNC

- Need to look for scalable solutions
  - ◆ document successes
  - ◆ create tool sets
- Need collaboration support mechanisms

# More information on the Interactive University Project

■ [iu.berkeley.edu/iu](http://iu.berkeley.edu/iu)