

One Gigabit or Bust Roundtable

July 21-22, 2004

Hilton Oakland Airport

Latino Education Issues Action Plan

- **A Brief Overview of the previous roundtables, the whitepaper, and El Monte UHSD & Museum Activities**
- **Open Discussion to Next Steps**
 - **Good discussion reviewing assumptions and project scope**
 - Need to make sure demonstrations show need for gigabit not just Plain Old Internet (POI)
 - Not chicken or egg, but chicken and egg: Can demo gigabit while also bringing in POI
 - **El Monte reported on their findings**
 - **Report on Letter of Intent sent to NSF Informal Science program**
Rejected this time, but could still be worthwhile with further refinement
 - **Proposal development for submission in January '05**
 - **Garrett and Cathy, El Monte, to follow through with Museum demo**
 - **Dan Theobald, i2i, will check into possible proposal with Orange County library with collaboration from Anthony Costa, Califa library**
 - **Mark Macias, LA Trade Tech, to investigate role for community colleges**
 - **Ken Wyrick, calteck.net, to investigate Latino demographics across state in relation to gigabit connections**
 - **Other possibilities, such as, development of science education component to help students meet or exceed state requirements**

Cost of Deployment

- 23 Active Participants – Case Studies Based
 - Cost per premise
 - Urban, Rural, Hybrid Areas
 - Consumer Willingness to Pay
 - Seek Lower Cost for Rural/Low Income
 - Solutions: Anchor tenants/Co-location/Infra-sharing

Cost of Deployment

- Outputs
 - Identify underserved areas & possible anchor tenants
 - Identify case studies with “so whats”
- Areas/Subgroups
 - Technologies: fiber, copper, cable, wireless, BPL
 - Cost Recovery
 - What is BB?
 - Public policy/Regulation
 - Trends: wireless
 - Innovative Solutions: muni nets

University Applications Roundtable Summary

- **Discussion** – Identify demand for university applications for gigabit to the desktop
- **Decision** – form Task Force working toward improving outcomes for students, educators and administrators
- **Project** – Develop and administer empirical survey, host statewide conference of educators, present findings to CENIC
 - ID unmet needs, socialize benefits of 1GB to educational and economic, provide “*un*visionary with a vision of the future”
- **Participants**
 - STS Int’l will serve as committee chair - *Leverage experience and expertise from previous work with CCC and 4CNet*
 - Regular virtual meetings via email and blackboard
 - Next gathering at Gigabit Roundtable Nov ’04 – Sacramento

ICT Standards

Communication & Outreach

- Goal: A State Broadband Policy
- Develop broad-based support
- Articulate the capabilities between contemporary broadband technologies and one gigabit
 - Industry
 - OTRTAG
 - Demos
- Need sound bite (i.e., information superhighway)
- Substitute for technical term, e.g., X broadband
- Next Step: Development a marketing plan

Intellectual Property

- Work on a study
 - Look at how to attach proper use of information to content
 - Look at education methods to drive understanding of content use
 - Outline posted to mailing list in September for comments

Rural Issues

- Mother Lode
 - Success Triad – Leadership, hard/soft infrastructure
 - Assessments with maps
- Nevada County Telecom Team
 - Committees – planning (demand model), policies (ROW, antennae, incentives), construction/architectural, funding
- Redwood Technology Consortium (Humboldt County) – evolution and future direction
- Rural Workshop?

GIS Broadband Mapping (action items)

- **Additional Possible Sources of Data**
 - Fuzzied maps of lit fiber: long haul and offramps (Greg)
 - Identify dark fiber (?)
 - Caltrans maps of privately owned fiber (Brad and Bob)
 - Yipes! (James)
 - Cities, counties, and utilities with maps, especially web-enabled (Scott)
 - George Mason Univ fiber mapping project (Roger Burtner)
- **Hot Communities**
 - Subcommittee to establish definitions, criteria, and framework, with Seth's self-assessment guide as a starting point (Seth, Susan, other TF members)
 - Development and maintenance of system and infrastructure (Susan)
- **Possible Mapping Deployments / Entities to Maintain & Integrate Data**
 - State of CA (Brad)
 - Universities: UCLA (Brad) and CSU Humboldt (Tina)
 - CTCs (Anthony, plus Kenneth?)
- **Sources of Funding**
 - FTTH Council (Scott)
 - Federal funding for rural communities via USDA & HHS (Tina)

CTCNet BOF

- **211 California Affiliates w/ 32 BGC**
Ranging from School Districts to Churches to Coalitions
Communicating via List Serv, Annual Conferences, Leadership
Development, & other Community Related Programs
- **Oakland Technology Exchange-West (OTX-West) - Bruce Buckelew**
- **Computers for Classrooms, Inc. – Pat Furr**
- **Davis Community Network- Richard Lowenberg**
- **CTCs as Catalysts for Community Change** This project will explore ways to help bridge gaps between the fields of community technology and community development and increase the capacity of CTCs to become a force for positive social change at the community level.

CTCs as a Catalyst for Community Change

- CTCNet, a Consulting Team from BCT Partners (www.bctpartners.com), New School University, and the Project for Public Spaces (www.pps.org), with the guidance of the Ford Foundation and a National Advisory Board will work with 7 participating sites around the country to:
 - Define and develop a broader relationship with the communities they serve. Centers will build a strategic plan, identify partnerships, test some activities, and begin to build capacity in order to implement major changes.
 - Focus both on offering a richer array of activities for participants as well as on establishing partnerships with other national and neighborhood organizations.
 - Build CTCNet's capacity to support CTCs nationwide in their community building efforts and groom leaders as voices for National Policy Reform.

Entertainment Technology

- The discussion in the 2nd roundtable meeting focused around 2 areas:
 - The development of new business models that would incent content providers to utilize the network
 - New types of entertainment experiences
- Proposed ideas:
 - Sponsored competition to develop new business plans
 - Workshop with university students to brainstorm future entertainment experience
- Today's session suggested for a test project combining both ideas

Test Project

- Delivery of entertainment content to a university campus:
 - Movies, concerts, music videos, student films, film festivals
 - Television, sports, artistic performances
 - Games
- Initial type of experience will consists of:
 - Video and audio (Live/multicast and/or VOD)
 - Interactive chat
- Goals:
 - Evaluate different business models
 - Gather student feedback

Next Steps

- **Test project:**
 - Define the project details
 - Select the test locations (universities)
- **Future discussions for this forum:**
 - New type of entertainment content
 - Hi-Definition video and audio
 - 3D live content
 - Technological advances to support requirements of new types of data transfers

Fiber Action Plan

- Identify and Empower “Central Authority” to spearhead effort
- Work to reduce access restrictions and costs of ROW
- Work with ILEC’s, CLEC’s, and CATV companies to achieve access to existing dark fiber and conduit
- Work with preferred contractors to achieve reduced construction costs
- Work with carriers to standardize long-haul and metro cost models
- Work with wireless solution providers to integrate technologies for cost-effective solutions
- “Essential Public Infrastructure”

Museum Education

- Proposed El Monte Project—We need connection to CalREN
- Nikayla Thomas—Vice Chairman will lead group on museum connectivity, IMLS, Getty, LACMA and Exploratorium,
- Proposed Egyptian Project—LACMA, Getty, UCLA, USC, Caltech, UPenn, Library of Alexandria, NSF and ARCE

Wireless

- Presented ‘edited’ version of presentation on the status of broadband wireless in the U.S., given to the FCC TAC in April, 2004.
- Provided an overview of mesh networking, smart and cognitive radios
- Discussed setting up an area on the CENIC GBOB site for ‘best practices’ and other useful information. A ‘clearing house’ function.