



**BROADBAND & THE  
WICHE WEST**

WICHE Commission Meeting  
Portland  
May 18, 2010

# PERSONAL COMPUTING: WHO CARES?

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Check out the guy in the lower left.  
He's the CEO!



# THEY HAVE CHANGED THE WAY WE WORK, PLAY, COMMUNICATE

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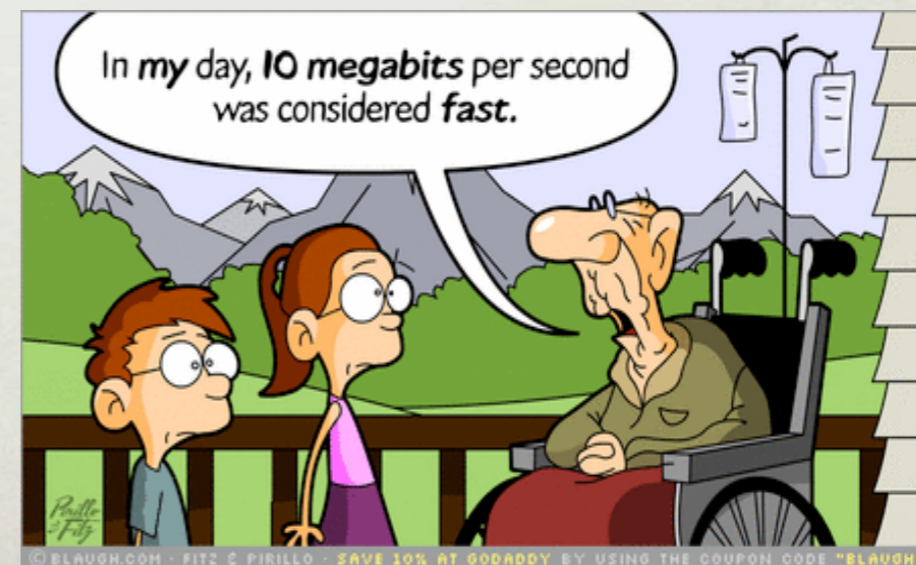


Want more  
on-line  
capacity?

 **Dynamic  
Broadband**  
Get your business up to speed.

# WHAT'S UP ON THE REGIONAL AND NATIONAL FRONTS?

- NTIA and RUS grant programs \$7B
- FCC National Broadband Plan
- Northern Tier
- Internet2-NLR: USUCAN



# NATIONAL TELECOMMUNICATIONS & INFRASTRUCTURE AGENCY

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- NTIA Broadband Opportunity Program
  - Infrastructure
  - Sustainable Adoption
  - Broadband Mapping
  - Round one completed; round two submitted
- All WICHE states have at least a mapping grant

# FEDERAL COMMUNICATIONS COMMISSION

## NATIONAL BROADBAND PLAN

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- *Connecting America*
- Innovation & Investment
- Inclusion
- National Purposes: Health Care, Education, Energy & the Environment, Economic Opportunity, Government Performance, Civic Engagement, Public Safety, Implementation and Benchmarks

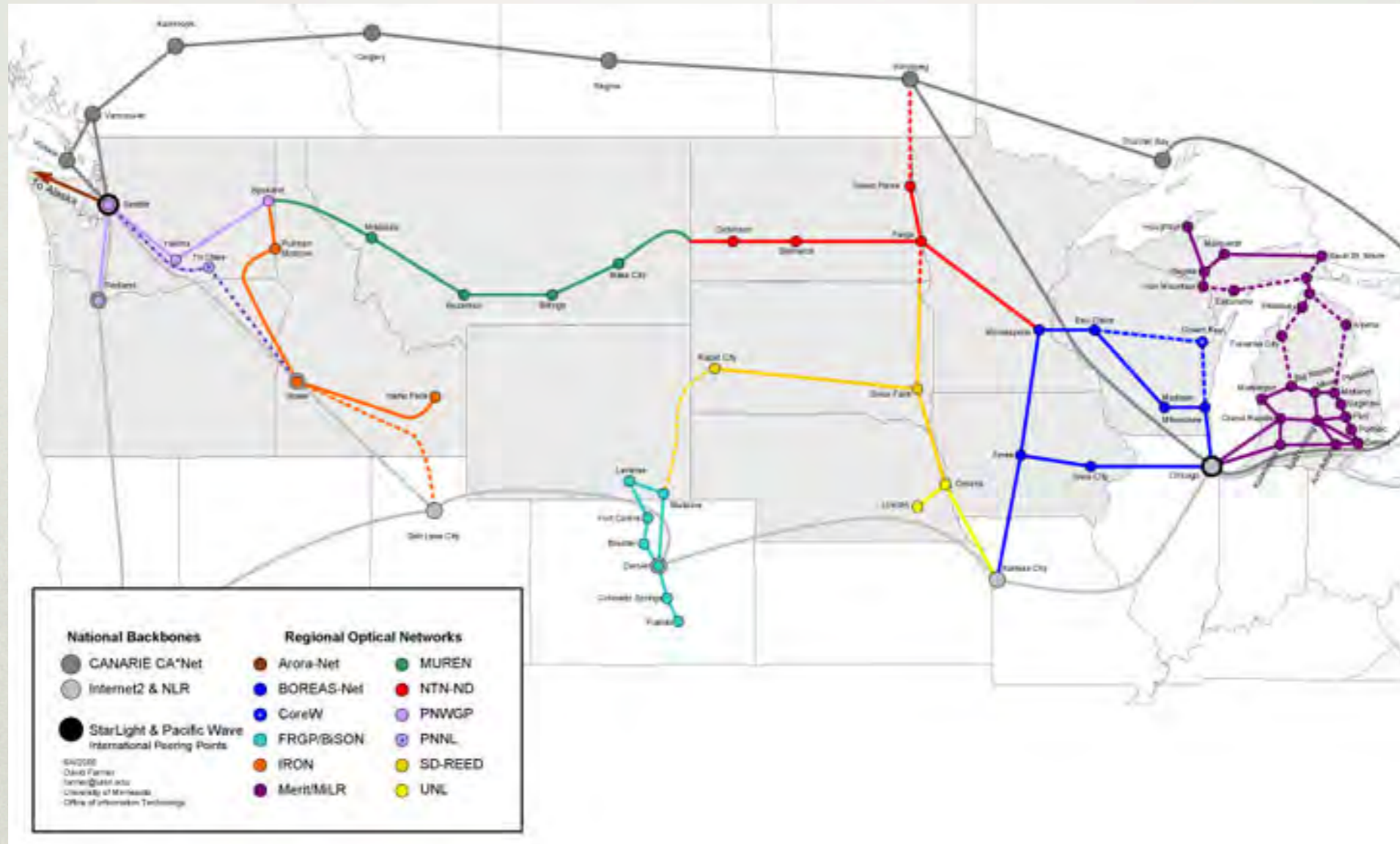
# CONNECTING AMERICA: EDUCATION

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- Supporting and Promoting Online Learning
- Unlocking the Power of Data and Improving Transparency
- Modernizing Educational Broadband Infrastructure



# NORTHERN TIER



# US UNIFIED COMMUNITY ANCHOR NETWORK (US UCAN)

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- Internet2 & NLR
- Anchor institutions: 100,000 initially (+35,000 new institutions)
  - schools, community colleges, universities, libraries, health institutions, public safety entities, local government, public media
- \$96M total and \$62M request
- 12,000 miles of newly lit fiber

# THE GEEK CORNER

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# KINDLE STUDY

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- Reed, Arizona State University, Case Western Reserve University, Pace University, Princeton University, the University of Washington, and Darden School of Business at the University of Virginia
- Key findings:
  - There is no doubt that e-readers are the future -- both for pleasure reading and for education
  - What we have in our hands today, though, are first-generation and second-generation e-readers. There is a long way to go.
  - Some of the limitations of current devices are easily fixable. Others are due to the state of technology.

# KINDLE STUDY

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- It's pretty remarkable how great Kindle is as a personal pleasure reading device. For educational use, though, there are a set of limitations:
  - When reading a novel, you start on the first page and proceed to the last page, sequentially. When reading a textbook, you flip around. Setting and accessing page markers is somewhat cumbersome.
  - When reading a novel, you seldom take notes. When reading a textbook, it's common.
  - Novel's don't have complex "look and feel." Technical papers often do. Having first-class support for PDF is important -- the ability to display it faithfully, and also to zoom it and annotate it. Kindle doesn't support these capabilities.
  - Computer Science graduate students spend 8 hours a day in front of a large-format high-resolution color display hooked to the Internet. They take for granted that online information will be instantly available. Not so on Kindle -- the web browser is purposely limited.
  - All of this is not to complain. Kindle is remarkably good for what it was designed for, and Amazon.com is remarkably committed to making it better for other applications.

# NEXT TIME: SMARTPHONES

