About the Exploratorium
Museum of Science, Art, and Human Perception

• Over 500 interactive exhibits
• Educator professional development programs
• ExNet museum partners
• http://www.exploratorium.edu
What is Internet2?

Internet2 is a university-led effort to develop advanced network applications for research and education, mostly via the Abilene Network. Abilene complements and peers with other high-performance research networks in the U.S. and internationally.
The Abilene Network

The Abilene Network supports the development of applications such as:

• virtual laboratories
• digital libraries
• distance education
• tele-immersion
• advanced networking capabilities

Over 25,000 K–12 schools and most large universities are connected to the Internet2 Abilene network.
Exploratorium on I2

- Connection made possible through the generosity of the National Science Foundation and the Corporation for Education Network Initiatives in California (CENIC)
- 100 Mbps connection to CENIC’s CalREN (California Research and Education Network) Digital California network
- Networked locations: Webcast Studio, Learning Studio/Library, Microscope Imaging Station, conference rooms, individual workstations
- Internet2 Gateway: [http://www.exploratorium.edu/i2](http://www.exploratorium.edu/i2)
High Performance Network Activities
What are we doing?

• Webcasting
• Microscope Imaging Station
• Remote Collaboration
• Sharing Digital Collections
Webcasting
Webcasting

• We provide high-resolution video in multiple formats, including Real Player, Windows Media, Flash, and soon in MPEG2 Multicast

• We do about 25 live events per year

• http://www.exploratorium.edu/i2
Microscope Imaging Station
Microscope Imaging Station

• Research-grade microscopes in a museum setting

• Website provides high-resolution images & video:  
  www.exploratorium.edu/imaging_station

• Developing virtual microscope and classroom activities

• Planning live demonstrations and remote operation
Remote Collaboration
Remote Collaboration

• Project collaboration and public programs connecting museums, universities, research facilities, and K12 schools

• Center for Informal Learning and Schools: Exploratorium, King’s College London & UC Santa Cruz

• Professional Development: Teacher Institute and Institute for Inquiry
Digital Collections
Digital Library

• So many resources! How does a teacher make sense of it all?

• Exploratorium Digital Library allows educators to search and browse our collections according to subject, grade level, resource type, etc. (We are working on aligning to standards.)

• [http://www.exploratorium.edu/educate/dl.html](http://www.exploratorium.edu/educate/dl.html)
Future Directions
Future Directions

• Study use of Exploratorium resources by schools, universities, museums, libraries, and other partners with access to advanced networks

• Explore advanced videoconferencing applications

• Refine media production and project planning

• Develop new exhibits, Web resources, and museum programs that make use of advanced networks
Is your school on I2?

You can use the Internet Detective
http://detective.internet2.edu/
to see if you have I2 connectivity at
your school
More I2 Resources

• Internet2
  http://www.internet2.edu/

• Internet2 K20 Initiative:
  http://k20.internet2.edu/projectfinder_index.php

• Internet2 Resources:
  http://k20.internet2.edu/resources/index.html
Is anyone here on I2?

What resources do you use?

What would you like to have made available to you or your teachers and students?
Questions? Comments?

You can view this PowerPoint at:
http://www.exo.net/dhunt/IS2005/

_____________________________________

Deb Hunt
dhunt@exploratorium.edu

Exploratorium Internet2 Gateway:
http://www.exploratorium.edu/i2