



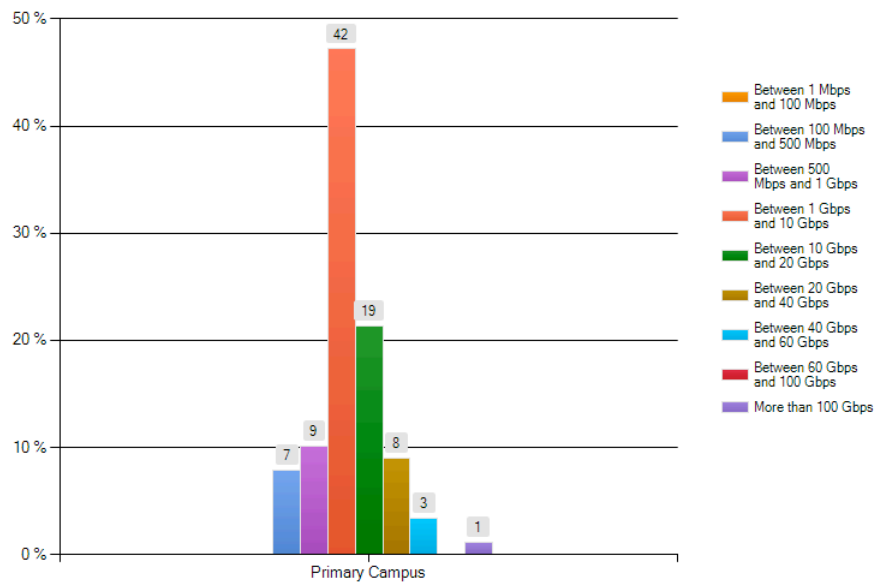
Research and Commercial Network Capacity at U.S. Research Universities

At the request of the National Science Foundation, Internet2 issued an electronic survey in October, 2009, to its Research University members inquiring about the current level of connectivity they have to the commercial Internet and research networks like Internet2.

The results show that of the 89 responses received, 82% already had between 1 and 10 Gbps of capacity to their campuses. Of the total 89 campuses, 35% had more than 10 Gbps of capacity in place at the time of the survey.

Internet2's Research University members described their network capacity needs as shown in the following graphs.

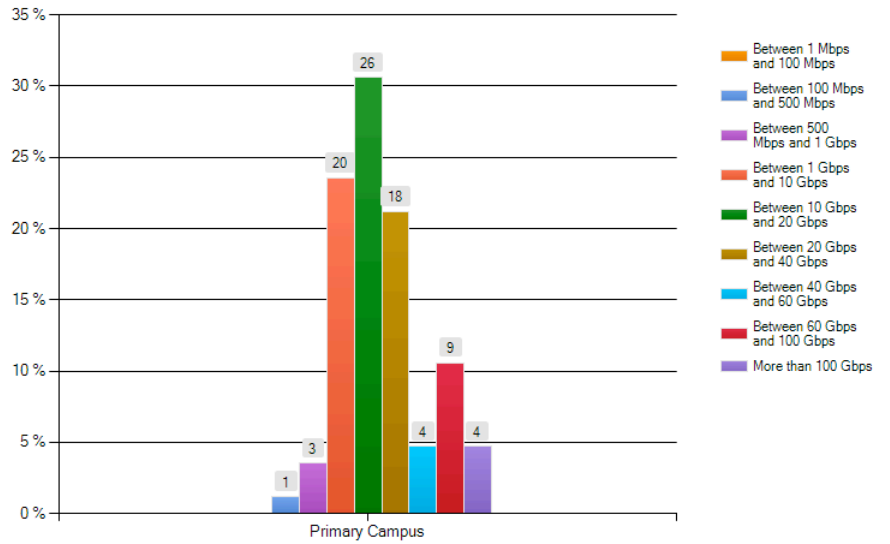
Describe the *total capacity of all networking links* from your primary campus to external networks that is in place today, including commercial Internet, regional network, Internet2, dedicated wave, circuit capacity, other national network and other Internet-type connections.



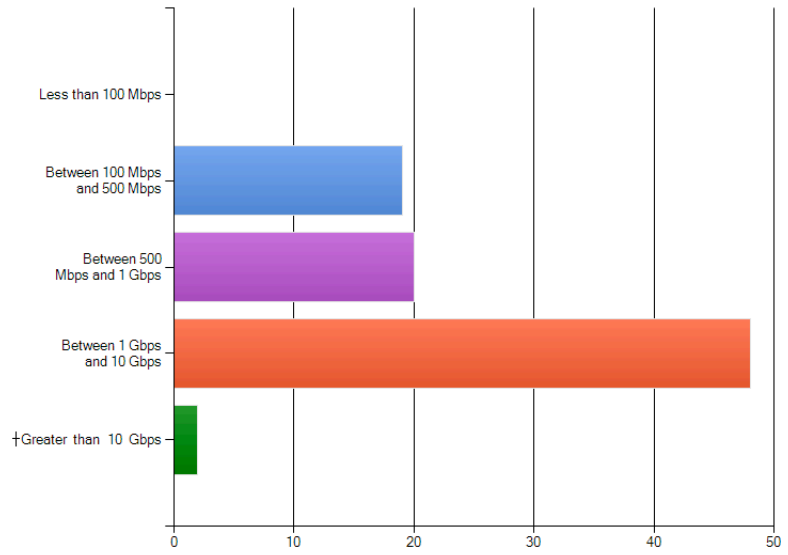
Great expectations

In describing their aspirational needs, over 35% of the campuses expected to need more than 20 Gbps of capacity within 5 years, with nearly 15% indicating they would need 60 Gbps or more in that time frame.

Describe the *total capacity of all networking links* from your campus or campuses to external networks that you believe needs to be put in place to satisfy your needs in the next 5 years, including commercial Internet, regional network, Internet2, dedicated wave, circuit capacity, other national network and other Internet-type connections.

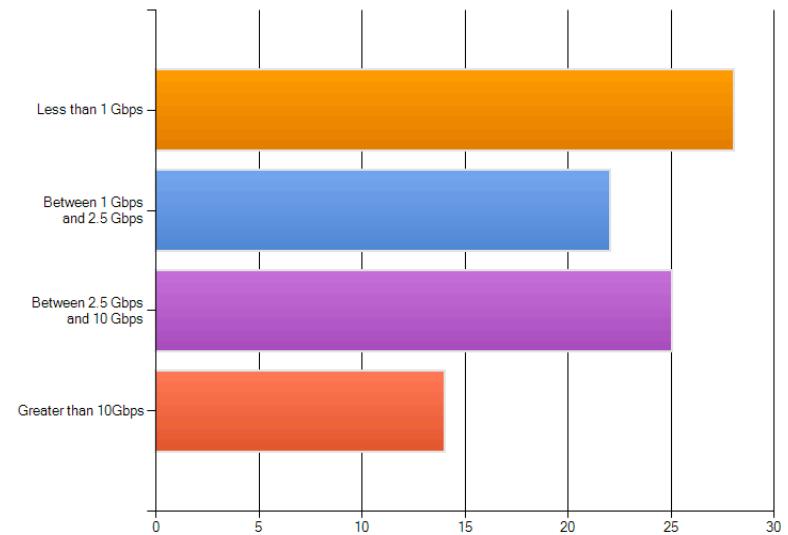


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As you understand it, what is your total capacity to commercial Internet providers?

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As you understand it, what is the total possible capacity from your campus through to your Internet2 connector, regional network or other research and education network?

October 2009 Network Connectivity Survey Respondents

MEMBER LED, MEMBER FOCUSED

211 Higher Education
Members

32 Research and Education
Network Members

54 Affiliate Members

44 Industry Members

Arizona State University
Boston University
Bradley University
Brandeis University
Carnegie Mellon University
Case Western Reserve University
Catholic University of America
Clemson University
Cleveland State University
Columbia University
Dartmouth College
DePaul University
Drexel University
Florida Atlantic University
Florida International University
George Mason University
Georgetown University
Georgia State University
Idaho State University
Jackson State University
Kent State University
Louisiana State University and A&M College
Marquette University
Mayo Foundation
Michigan State University
Missouri University of Science & Technology
NC State University
North Dakota State University
Northwestern University
Oklahoma State University
Old Dominion University
Oregon State University
Pepperdine University
South Dakota State University
Southern Illinois University
Stony Brook University
Syracuse University
Texas Tech University
Texas A&M University
Texas Christian University
The George Washington University
The Pennsylvania State University
The University of Texas at Austin
The University of Texas at El Paso
Tufts University
University of Alabama
University of Alaska
University of Arizona
University of Arkansas at Little Rock
University of California Berkeley
University of California Irvine
University of California Riverside
University of California, Davis
University of California, Santa Cruz
University of Central Florida
University of Cincinnati
University of Colorado - Boulder
University of Colorado Denver
University of Connecticut
University of Delaware
University of Hawaii
University of Houston System
University of Idaho
University of Illinois at Urbana-Champaign
University of Illinois at Chicago UIC
University of Iowa
University of Kentucky
University of Maryland
University of Maryland Baltimore County
University of Massachusetts Amherst
University of Memphis
University of Michigan
University of Missouri-Columbia
University of Nebraska
University of Nevada Las Vegas
University of New Hampshire
University of North Carolina at Chapel Hill
University of Notre Dame
University of Oregon
University of Southern Mississippi
University of Vermont
University of Virginia
University of Wisconsin, Madison
University of Wyoming
Utah State University
Vanderbilt University
Virginia Tech
Wake Forest University
Worcester Polytechnic Institute

Internet2 Offices

1000 Oakbrook Drive
Suite 300
Ann Arbor MI 48104
T 734.913.4250
F 734.913.4255

1150 18th Street, NW
Suite 1020
Washington DC 20036
T 202.872.9119
F 202.872.6648

About Internet2

Internet2 is an advanced networking consortium led by the research and education community. An exceptional partnership spanning U.S. and international institutions who are leaders in the worlds of research, academia, industry and government, the Internet2 community is developing breakthrough cyberinfrastructure technologies that support the most exacting applications of today—and spark the most essential innovations of tomorrow.

Led by its members and focused on their current and future networking needs since 1996, Internet2 blends its unsurpassed human, IP and optical networks to develop and deploy revolutionary Internet technologies. Activating the same partnerships that produced today's Internet, our community is forging the Internet of the future.

For more information, please visit www.internet2.edu.