

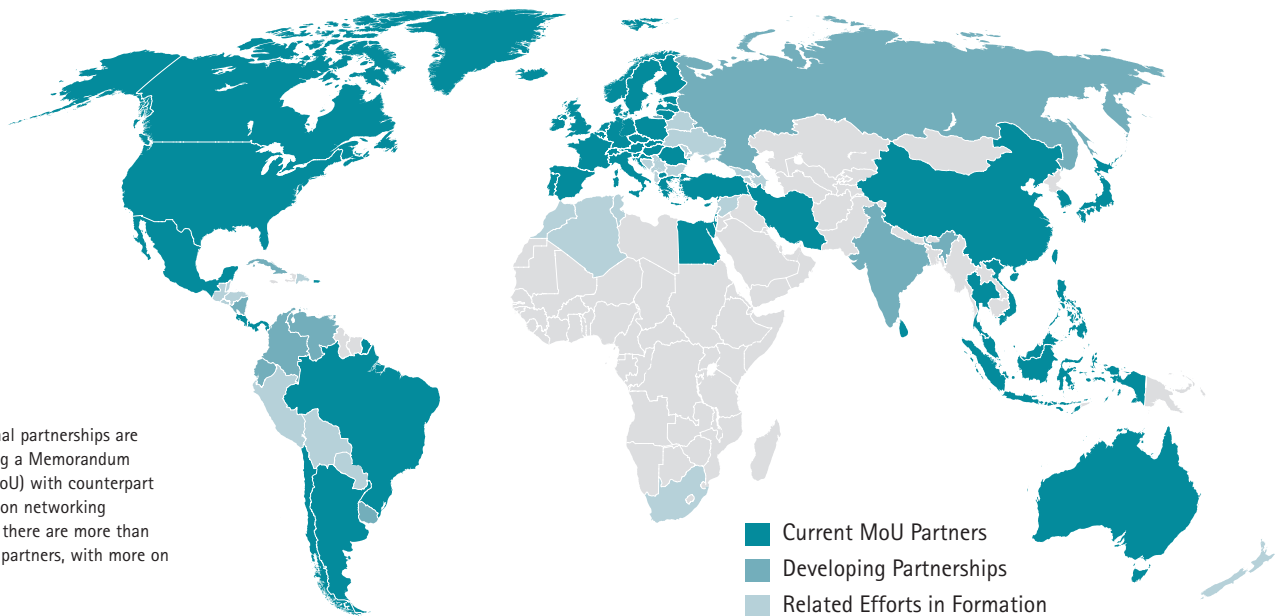


www.internet2.edu

International partnerships link Internet2 members to research and education networking organizations around the world. The principal goal of Internet2 international partnerships is to enable global collaboration in research and education by providing access to advanced international networks. By creating a global proving ground for new technologies, and by providing channels for international Internet technology transfer, Internet2 international partnerships also help to ensure that the next generation of Internet technologies and applications will be globally interoperable.

INTERNATIONAL MoU PARTNERS

Internet2 international partnerships are established by signing a Memorandum of Understanding (MoU) with counterpart research and education networking organizations. Today there are more than forty Internet2 MoU partners, with more on the way.



Global Proving Ground

Most international MoU partners operate networks which peer with Internet2's Abilene network. Internet2 members and international partners are using this global infrastructure to develop and test new technologies on a scale not possible in the commercial Internet. A key example of this is work now underway on IPv6, the new and greatly improved version of the fundamental "language" spoken by all Internet-connected devices. Internet2 partners in Asia and Europe have committed significant resources to work on IPv6 development and deployment; Internet2 international partnerships bring the IPv6 expertise of these partners to the Internet2 community.

Global Collaboration

Internet2 international partnerships support professional relationships and network connectivity across a wide variety of projects; here are a few examples.

Remote Instrumentation and Remote Data Analysis

Large scientific projects increasingly draw on resources from many countries. Scientists can use high-performance networks for remote instrument control and to pool computing resources for data analysis, improving ease of use and lowering costs.

The Gemini Observatory
www.gemini.edu



Using US and international high-performance networks, astronomers in the continental US can

operate telescopes on mountaintops in Hawaii and Chile, gaining access to the skies of both the northern and southern hemispheres.

The Grid Physics Network
www.griphyn.org



The GriPhyN (Grid Physics Network) project brings together experimental physicists and computer science researchers worldwide to enable

petabyte-scale data-intensive science.

Both Gemini and GriPhyN are funded in large part by the US National Science Foundation.

New Tools for Teaching and Learning

Internet2 international partner networks make it possible for teachers and students to gather regardless of the distances between them. A wide range of tools are available—inexpensive videoconferencing brings the classroom to the student's desktop, while specially equipped rooms can be used to create a "telepresence environment," allowing participants to appear at life size and to maintain natural forms of interaction such as gestures and eye contact.

Fuqua Global Conference System
www.fuqua.duke.edu/admin/it/telepres.htm



The Duke University Fuqua School of Business uses a telepresence environment to connect its campuses in North

Carolina and Germany. The system uses Internet2's Abilene network and the G-WiN network of German partner DFN-Verein.