what's WIDE PROJECT?

WIDE
PROJECT

From

"Global perspective" - this term is the essential goal of the next-generation Internet cooperative research consortium known as WIDE Project.

Global

It is a goal not merely limited to technology, but one that also involves such diverse disciplines as education, law, medicine, government, the arts, and business.

Perspective

what's WIDE PROJECT?

Since its beginning in 1987, the members of WIDE Project include a broad range of researchers and engineers from University laboratories, corporations and government agencies.

Today, there are 118 participating institutions. (38 University laboratories, 72 corporations and 8 government agencies)

WIDE Project is perhaps one of the world's most visionary and ambitious internet projects ever, as it attempts to design the world's best next- generation computer environment.

Research Scope of The WIDE Project

Many Technologies, One Goal

A key objective of WIDE project is to realize, as much as possible, the vast potential for computer and communication technology to benefit people and society. To achieve this goal, there are many technologies that must be integrated and synergized - computer networks, operating systems, process distribution, decentralized process, system monitoring, security technology, multimedia information processing, groupware, computer education, Internet and many other technical aspects. To create the ideal next-generation computer communication environment, WIDE aims at facilitating open and productive communication among each field's researchers.

WORKING GROUPS

checkup
Developing technologies and protocols ensure that sensitive information can be sent without fear of it being intercepted.

IEEE1394
Proposal, implementation and experience on the testbed for "IP over 1394". Study for home network in future.

InternetCAR
How the Internet might be linked to cars.

LAST(Label Switching Technology)
Establish "Label Switching Router" technology by developing and operating the next-generation WIDE backbone.

Lifeline
Application systems that employ the Internet to assist with emergency situations.

Lifelong Network
Technical research and proposal for establishing lifelong internet environment.

MC (Multicast)
Establishing practical applications for the new "MBone" technology.

Mobile Security (mobsec)
Verification of "MobileIP". Proposal of FireWall for mobile internet environment. (Completed in March '98)

moCA
Study and proposal of establishing a certification bureau (CA) for WIDE members and related issues.

RT-Bone (Real Time Backbone)
The objective is to test and evaluate the application and queuing mechanism for a "Resource ReSerVation Protocol" network.

School of Internet (SOI)
Constructing virtual "WIDE University." Establish curriculum and learning objectives.

TWO (Team of WIDE Operation)
An accumulation of critical internet application technologies to facilitate development of new WIDE internet applications.

v6
Installation and linking test for IPv6 and IPsec. Operating 6bone and develop transitional technology.

W4C
Operation of wide area www cash system. Analysis of statistical information and proposal of new system.

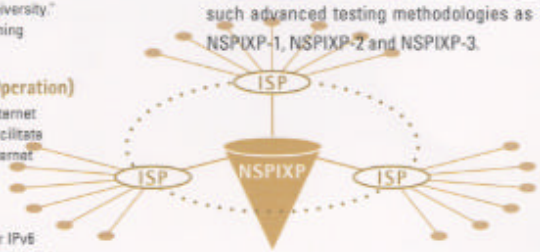
Web AD
Evaluation of advertising technology through WIDE home page banner advertisement.

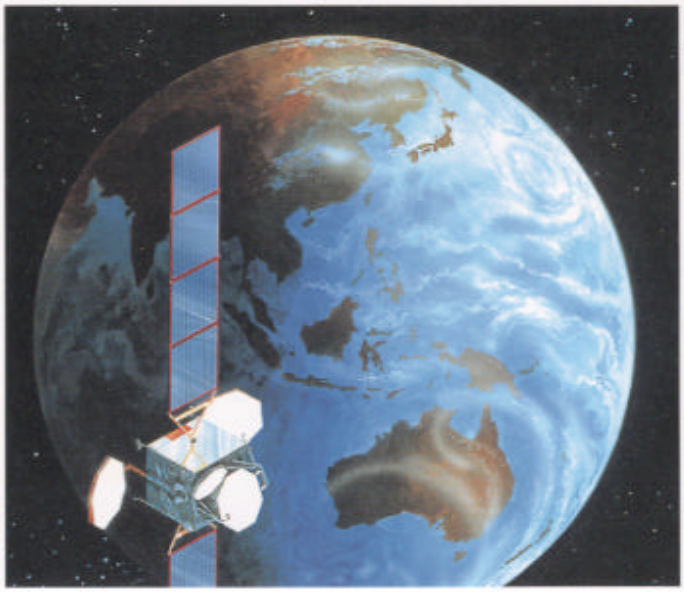
WISH (WIDE Internet with Satellite Harmonization)
Evaluation and proposal of UDLR via satellite. Proposal of optimum application for UDLR.

WT (WIDE Telecommunication)
Proposal of Internet phone and FAX. Installation test to existing network.

NSPIXP

NSPIXP (**N**etwork **S**ervice **P**rovider **I**nternet e**X**change **P**oint) is designed to research IX technology, an essential internet development technology. It extensively quality-checks and troubleshoots over commercial ISP , utilizing such advanced testing methodologies as NSPIXP-1, NSPIXP-2 and NSPIXP-3.





WIDE
PROJECT

Experimental Projects

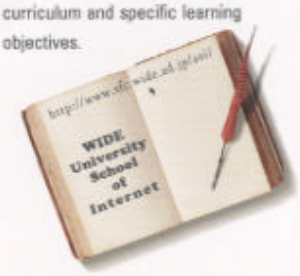
KAME Project

WIDE Project was the first to develop and install the next-generation internet protocol "IPv6" and openly shares its research results with other institutions internationally. Researchers from each participating institution combine their efforts.

IPv6

School of Internet

The goal of "WIDE University, School of Internet" is to establish a new form of Internet-based educational institute and determine the best system for doing this. Many leading Internet experts and professionals are participating in this project with regard to creating the curriculum and specific learning objectives.



AI3 (Asian Internet Interconnection Initiatives)

This large-scale project aims at establishing a satellite Internet link for Asia. With the cooperation of the WISH Working Group, it is contributing the testing environment for this major "Information Superhighway" upgrade.

WIDE INTERNET

Testing Next-Generation Technology

"WIDE Internet" was originally founded for the development of internet-related technologies and the communications among project members over JUNET. As it evolved, it played a key role in the growth of the internet, well before commercial ISPs became popular. Currently, "WIDE Internet" operates several test projects, such as "WIDE 6bone" for installation and testing of "IPv6," "WISH AI3" through satellite and "RT-Bone" for QoS. Testing extends beyond the laboratory as it is essential to collect the live data over internet to ensure real-world utility. As one of the world's foremost internet innovators, "WIDE Internet" will continue to respond to next-generation internet development needs.

For Everyone - The "WIDE" mission.

(Internet for Everyone.)

We want to make the Internet as useful as is humanly possible. The diverse range of our projects reflects - using the internet to help deal with emergency situations (the IAA "I am alive" Survivor Information System). The 100-School Networking Project. Internet coverage of the Atlanta and Nagano Olympics. Live internet for concerts, shows, and other live events. Internet accessibility for the disabled. Internet-based communities for special-interest groups. For everyone! That's our mission.

("Mobility" and "Ubiquitous Computing")

"WIDE Project" envisions that the mobile computing environment of the future will have "anywhere, anytime" wireless access to virtually any network in the world, enabled by the effective integration of three key elements: "Ubiquitous Computing Infrastructure," "The Internet Car" and mobile computer technology.

"WIDE Project" participated in 1996 Rally Raid Mongol as Internet live technical supporter.

Result and Goal

WIDE Project, Our Purpose

"WIDE Project" (Widely Integrated Distributed Environments) goal is to develop, test, and implement new computer environments. We also help identify and support promising cooperative research opportunities for our member organizations.

Our Role in the Future of the Internet

It has been ten years since "WIDE Project" originated. During this period, it has helped many research groups and institutes to work more productively via the Internet, domestically and internationally. The data collected and shared by the various "WIDE Project" research activities will continue to play a significant role in the continuing development of Internet technology.

A Productive Partnership

Cooperation Over Networking

To achieve its goals, "WIDE Project" has links with various fields, such as university and laboratory networks, regional networks, commercial networks and government networks to facilitate technology and data sharing.

Activities over Global Internet

"WIDE Project" maintains close relationships with leading international computing organizations such as "IETF" and "Internet Society." As an active member of these groups, we are working to develop universal standards that will enable more effective technology development.

Global Cooperative Institutes

- Internet Engineering Task Force(IETF)
- Internet Society(ISOC)
- Internet Architecture Board(IAB)
- Internet Engineering Planning Group(IEPG)
- Internet Assigned Numbers Authority(IANA)
- Asia-Pacific Advanced Network(APAN)
- Asia Pacific Networking Group(APNG)
- Asian-Pacific Network Information Center(APNIC)
- Gated Consortium(Gate Daemon)

Participating Projects

- Japan Network Information Center(JPNIC)
- Japan Internet Engineering Group/IP(JEPG/IP)
- Japan Network Operators Group(JANOG)
- Other Academic Activities

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