TERENA

TERENA is founded to promote and develop high-quality international network infrastructures to support the European research community

1st TNC

TERENA organises the first annual conference in Dresden, Germany, to become TERENA Networking Conference

Dresden Cathedral

EU Commission, Brussels

EU-led liberalisation

European telecoms market opens previously closed markets to competition. Prices drop as monopolies fall

Geneva Airport uses eduroam

eduroam

TERENA starts the pilot eduroam service for roaming network access

Space exploration

GÉANT enables sharpest view in the universe: Europe's radio-astronomers can observe transient objects at edge of Universe

First contact

TERENA becomes partner in the GÉANT project GN2

EuroCAMP

TERENA organises the European Campus Architecture Middleware Planning

LHC

GÉANT provides connectivity to CERN's new Large Hadron Collider Computing Grid infrastructure

Arts LoLa

First networked performing arts workshop takes place in Trieste, Italy

eduGAIN

TERENA launches eduGAIN inter-federation service

Guinness World Record for the fastest rate of provisioning multi-Terabit optical capacity across the GÉANT Network

King's College Chapel

GÉANT

October 2014

Hoekmonnikpijn, Amsterdam

City House, Cambridge

SS ROTTERDAM

1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014

DANTE

DANTE is founded as an operational unit to run the international backbone for the European research community

Network capacity

2 Mbps

34 Mbps

155 Mbps

622 Mbps

GN1

Internet history

DANTE and partners use standard TCP transfer over IPv6

2 Gbps

DANTE signs €

12.5 million

contract with EC to connect 18 countries to ALICE research network in Latin America

GN2

Refers

Research and Education Federations group is founded

Dark fibre

DANTE signs dark fibre for GÉANT network

DANTE receives €

93.0 million

funding to run the network and manage research programmes

10 Gbps

13,000 km of optical fibre

50 million USERS

GN3

NOC

DANTE creates Network Operations Centre in Cambridge providing 24-hour support

100 Gbps

GN3plus

DANTE and TERENA merge to become GÉANT

10,000 INSTITUTIONS

GÉANT SIGNS THE FRAMEWORK PARTNERSHIP AGREEMENT

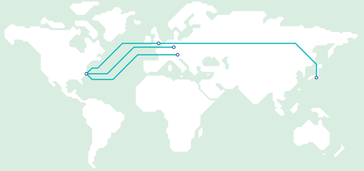
37 MEMBER COUNTRIES + NORDUNET REPRESENTATIVE MEMBER

500 Gbps Terabits capacity

GN4-1

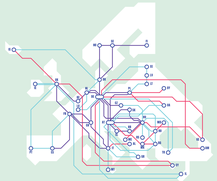
GÉANT NETWORK IN 1996

EUROPE



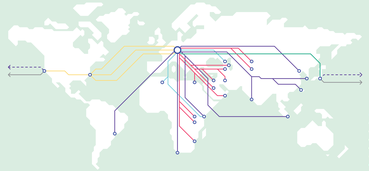
WORLD

GÉANT NETWORK IN 2017



EUROPE

multiples of 100 Gbps
multiples of 10 Gbps
1-9 Gbps



WORLD

Multiple 100 Gbps links
100 Gbps
Multiples of 10 Gbps
10 Gbps
10 Gbps backup
1-10 Gbps
≤1 Gbps