



**GÉANT (GN3plus)**  
*Building a European Communications Commons*

**GÉANT is the pan-European 500Gbps research and education network that interconnects Europe's National Research and Education Networks (NRENs).**

**Together we connect *over 50 million users* at 10,000 institutions across Europe, and with extensive links to global partners *GÉANT reaches over 100 NRENs worldwide.***

# GÉANT (GN3plus)

- vital to the EU's e-Infrastructure strategy



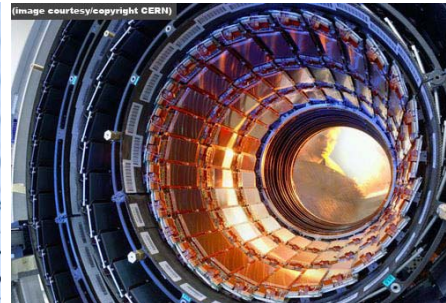
Key Facts	GN3plus
Start date	April 1 2013
Duration	24 months
Total budget	€84,283,018
EC contribution	€41,800,000
Participants	250+
41 Project Partners: 38 NRENs, DANTE, TERENA, NORDUnet (representing 5 Nordic countries)	

- **GN3plus:** extension and expansion to 3rd term of the successful GÉANT networking project, vital to the EU's e-Infrastructure strategy.
- **GÉANT vision:** to become the unified *European Communications Commons* - driving knowledge creation as the global hub for research networking excellence
- **GÉANT Mission:** to deliver world-class services with the highest levels of operational excellence
- **Co-funded:** by the EU and Europe's NRENs

# Supporting the growth of R&E Communities - *transforming how researchers collaborate*



- GÉANT delivers real value and benefit to society by enabling research communities to transform the way they collaborate on ground breaking research



*Together with Europe's NRENs, GÉANT connects 50 million users in 10,000 institutions across Europe*

Health and Medicine | **Energy** | Environment | **Particle Physics**  
**Radio Astronomy** | Arts & Education | **Society**

# Innovation through collaboration

*- for delivery of advanced networking services*

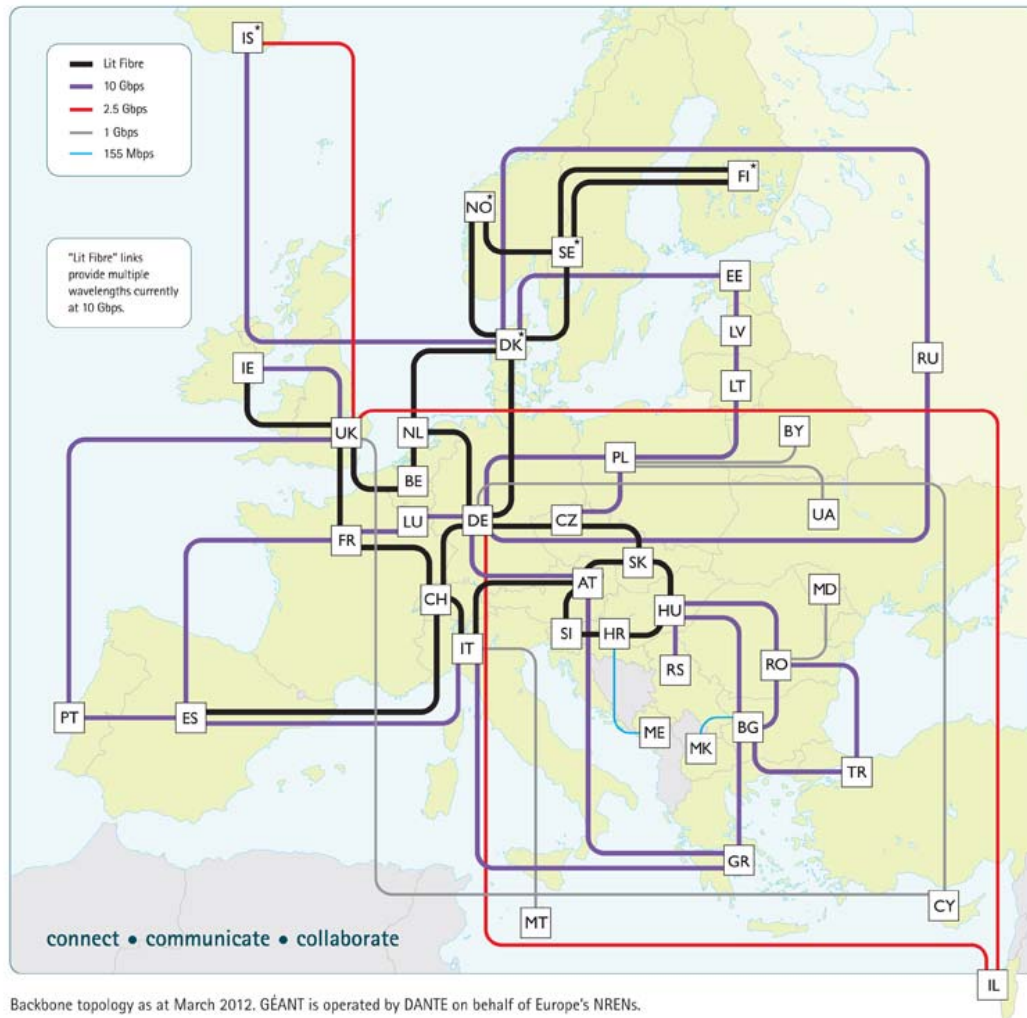


- Building the GÉANT “eco-system” through development and delivery of a world-class networking service portfolio:
  - Flexible connectivity options & test-bed facilities
  - Performance tools & expertise
  - Advanced AAI, cloud and mobility services
- Collaborative research into state-of-the-art technology
  - network architectures - mobility, cloud, sensor, scientific content delivery, high-speed mobile
  - identity and trust technologies
  - paradigm shifts in service provisioning and management
  - influencing global standards development
- **Open Calls** to widen the scope and agility for innovation



*Delivering innovative services to end users, their projects and institutions across Europe and beyond: secure access to the network and resources they need, when and where they want it.*

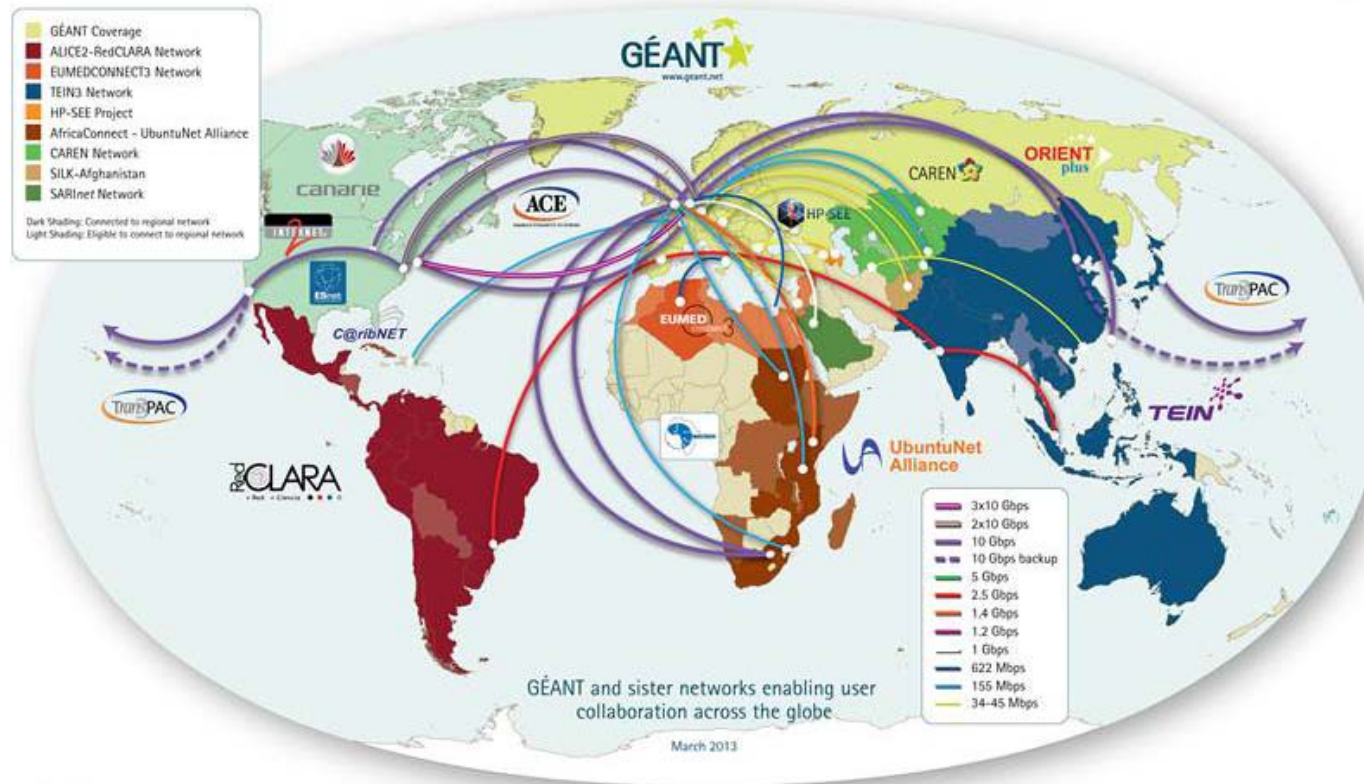
# Europe's 500Gbps Network - e-Infrastructure for the "data deluge"



- Latest transmission and switching technology
- Routers with 100Gbps capability
- Optical transmission platform designed to provide 500Gbps super-channels
- 12,000km of dark fibre
- Over 100,000km of leased capacity (including transatlantic connections)
- 28 main sites covering European footprint

# GÉANT Global Connectivity

- at the heart of global research networking



connect • communicate • collaborate  
 GÉANT is co-funded by the European Union within its 7th R&D Framework Programme.  
This document has been produced with the financial assistance of the European Union. The contents of this document are the sole responsibility of DANTE and can under no circumstances be regarded as reflecting the position of the European Union.



**GÉANT connects 65 countries outside of Europe, reaching all continents through international partners**

# GN3plus in numbers



**14**  
**Activities**

**58**  
**Tasks**

**250+**  
**People**

**41**  
**Partners**

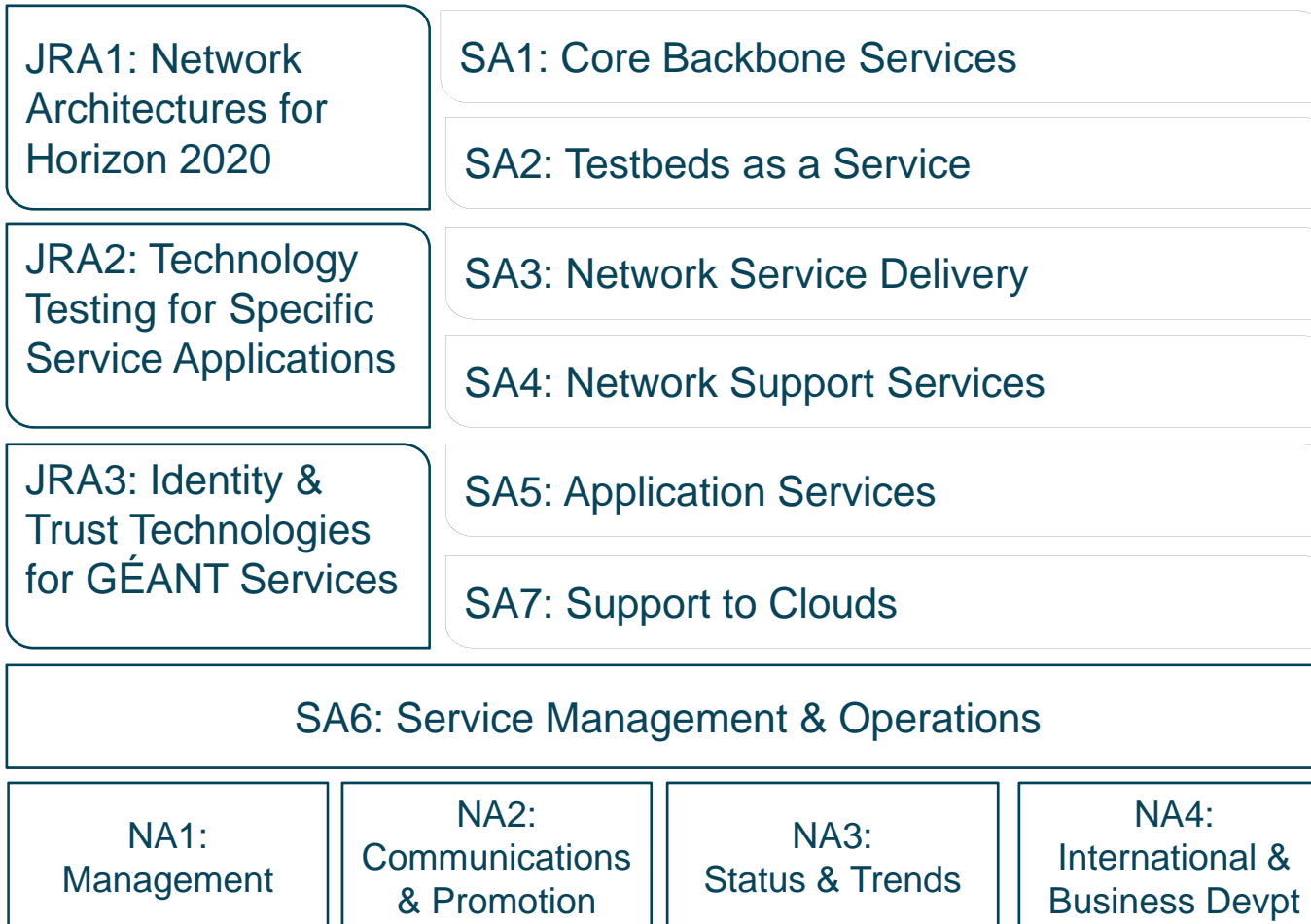


**50,000,000 users**  
**10,000 institutions**  
**across Europe**



**Reaching over**  
**100 countries**  
**worldwide**

# Delivering world-class services to R&E communities





# Networking Activities (NAs)



The Networking Activities (NAs) will provide management (NA1) and support for all GN3plus Activities with the full extent of both internal and external communications, promotion, international liaison and business development (NA2, NA3, NA4). A particular focus is to support and encourage take up of services among users by working closely with NRENs and worldwide partners.

NA1:  
Management

NA2:  
Communications  
& Promotion

NA3:  
Status & Trends

NA4:  
International &  
Business Devpt

# Joint Research Activities (JRAs)



JRA1: Network Architectures for Horizon 2020

JRA2: Technology Testing for Specific Service Applications

JRA3: Identity & Trust Technologies for GÉANT Services

The Joint Research Activities (JRAs) will focus on investigating new technologies and service trends that are expected to influence future development of networking services for the R&E community. GÉANT's first Open Call will invite third parties to...

# Service Activities (SAs)



The Service Activities (SAs) will expand to include new areas of value to provide end users secure access to the network with the resources they need, when and where they want it.

SA1: Core Backbone Services

SA2: Testbeds as a Service

SA3: Network Service Delivery

SA4: Network Support Services

SA5: Application Services

SA7: Support to Clouds

SA6: Service Management & Operations

# Thank you!



Connect | Communicate | Collaborate

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