

GÉANT

 Cloud

Services



TOWARDS PAN-EUROPEAN CLOUD SERVICES

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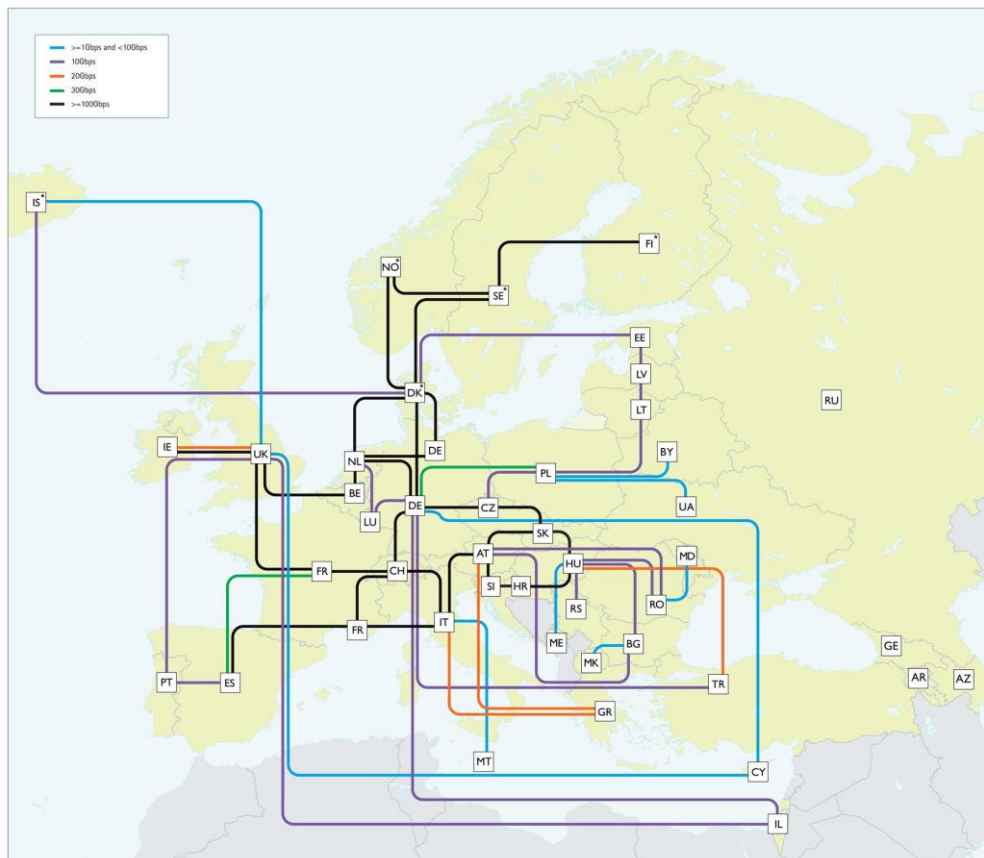
9 June 2016

Who we are, and what we do?



34 NRENs
20.000 Institutions
50.000.000 Users

Computer network!



GÉANT

2000-2003

GÉANT 2

2004-2007

GÉANT 3

2008 – 2012

GÉANT 3 plus

2013-2014

GÉANT 4

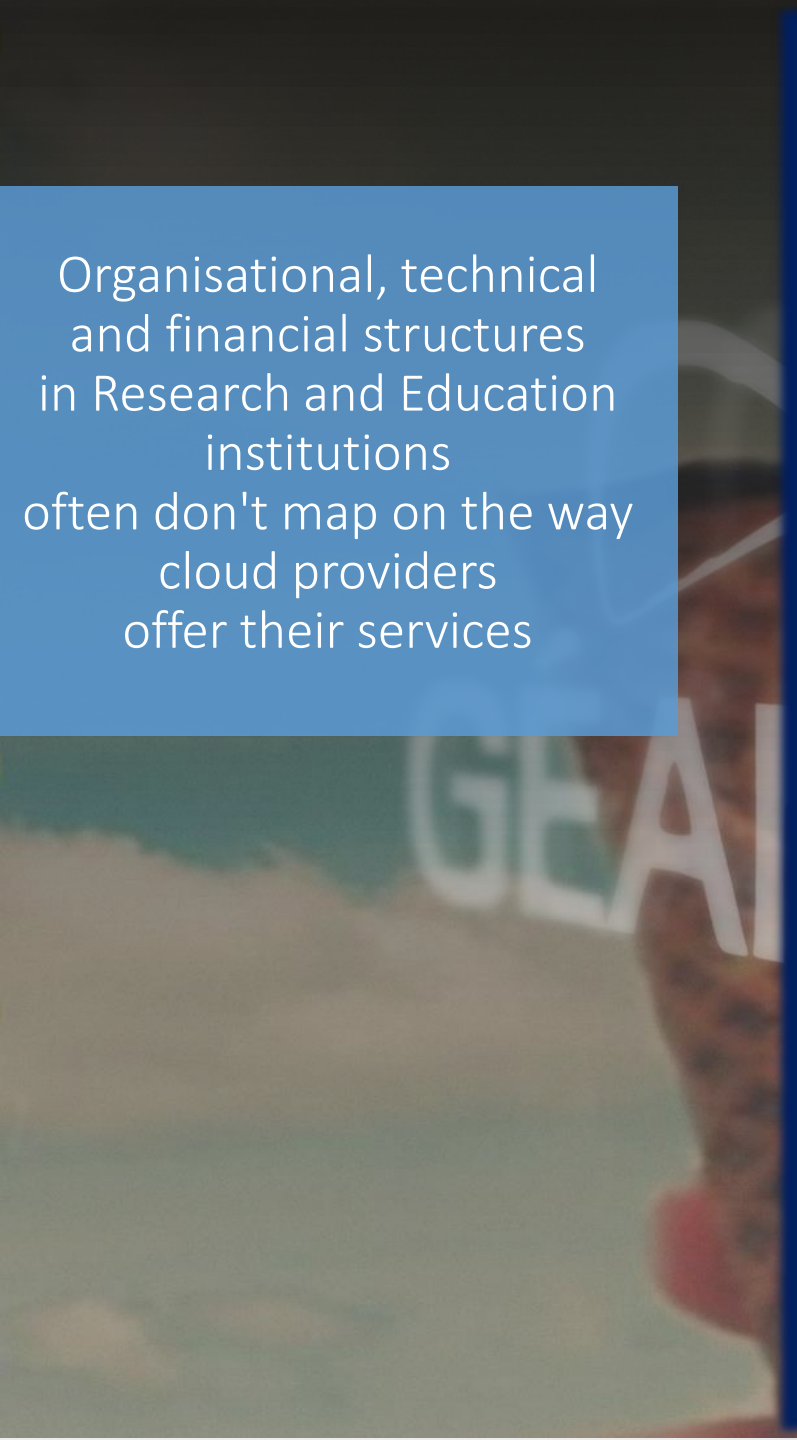
2015-2022

A new activity since GN3+ project:

Support to Clouds

The NRENs working together in GÉANT, want to bring cloud services to the European Research and Education community, through a model where they are able to provide their users with:

- choice
 - openness, ease of use
- a safe and secure work and learning environment



Organisational, technical
and financial structures
in Research and Education
institutions
often don't map on the way
cloud providers
offer their services

GET IN

Assure data is handled safely and meets European and national regulations.

Acquire services through the institutions' purchasing structures:
Predictable cost models (prevent bill shock)

Limit network traffic costs

Log in with institutional account

GET OUT

Be able to to move data
(to another provider)

GÉANT Cloud Provider?



GÉANT DOES NOT BUILD OR
OPERATE A CLOUD
INFRASTRUCTURE

OTHERS DO,
R&E PROJECTS & INSTITUTIONS,
NRENs
COMMERCIAL PROVIDERS

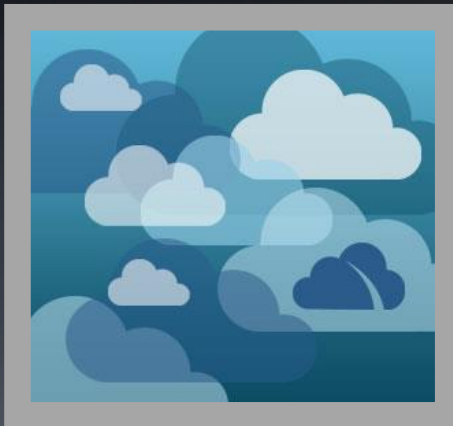


CLOUD POWER

NREN collaboration in GÉANT
to enable and facilitate
the Research and Education community
to use online services
on a large scale, with the right conditions

SERVICE SHARING AND DELIVERY

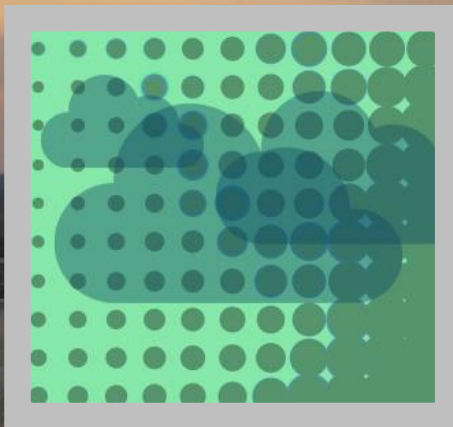




TERMS & CONDITIONS
BROKERAGE
PROCUREMENT



FEDERATED IDENTITY
MANAGEMENT &
SINGLE SIGN-ON



NETWORK
PEERINGS

**COLLABORATION
SUITES**

**REALTIME
COMMUNICATION**

**FILE STORAGE
AND SYNC**

**INFRASTRUCTURE
AS AS
SERVICE**

- Meet the needs of our community
- Right time to act
- Cloud is happening now
- Community demand
- Willingness to work together
- Common approach

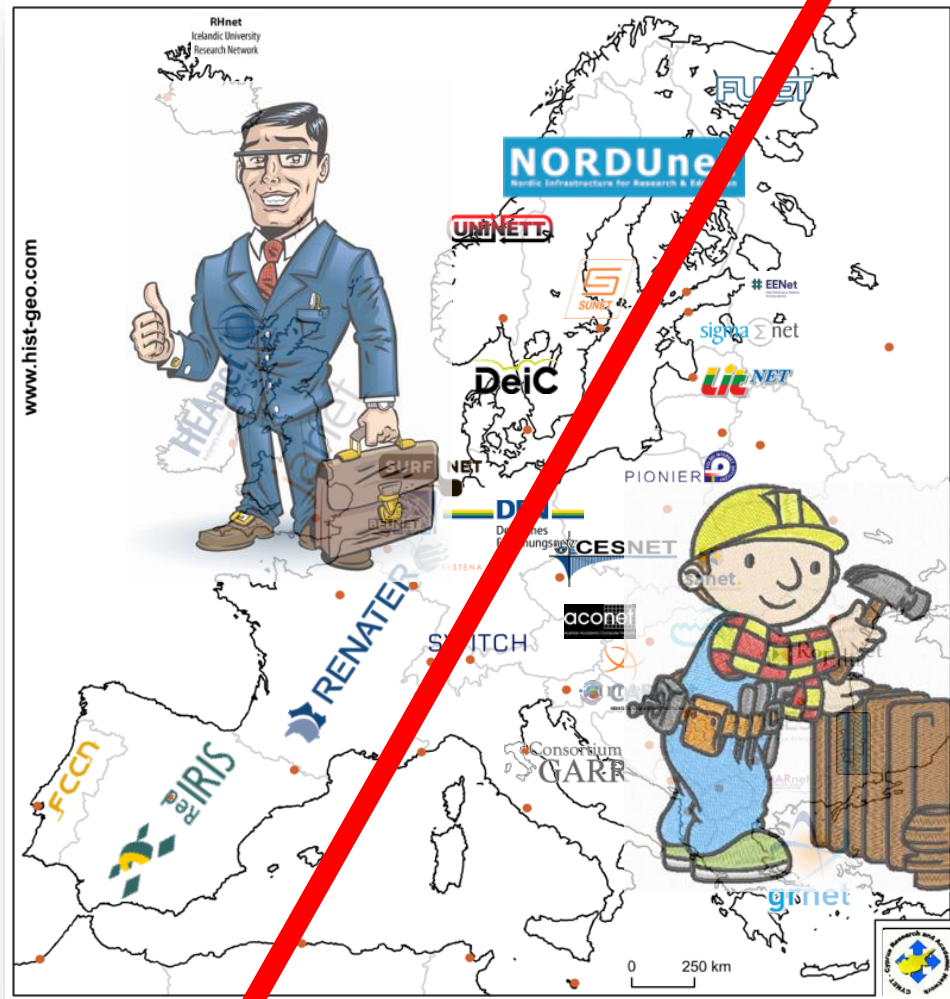
NEW areas:

E-learning and educational resources

Business administration services

Medical applications

Buy or build?



IN-HOUSE
CLOUDS

OUTSOURCED
CLOUDS

MAKE AND BUY

ADDED VALUE FROM NRENS

TRUSTED ADVISORS, BROKERS, PROVIDERS

= RIGHT CONDITIONS FOR COMMUNITY



Dear cloud provider,

These are the elements which help you achieve a large scale use of your service by the European Research and Education community:

- Provide clarity about your capabilities.
- Offer affordable services with a predictable and transparent payment model.
- Integrate your services with the Research and education IT infrastructure.
- Show your services to the community.

regards,


the GÉANT
cloud team



Collaboration with commercial vendors



catalogue.clouds.geant.net

















GÉANT Cloud Catalogue

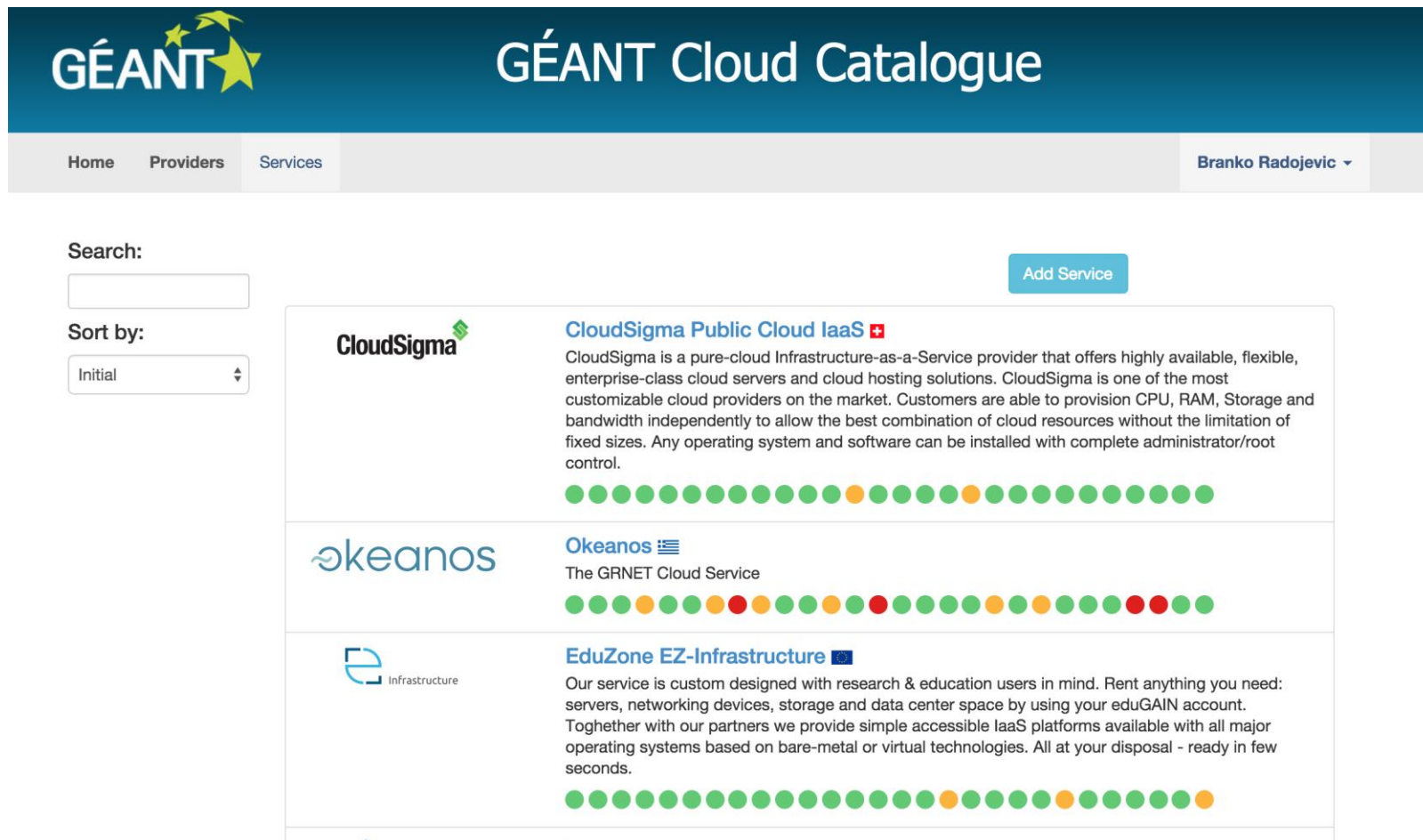
Home Providers Services Log in

Search:

Sort by:

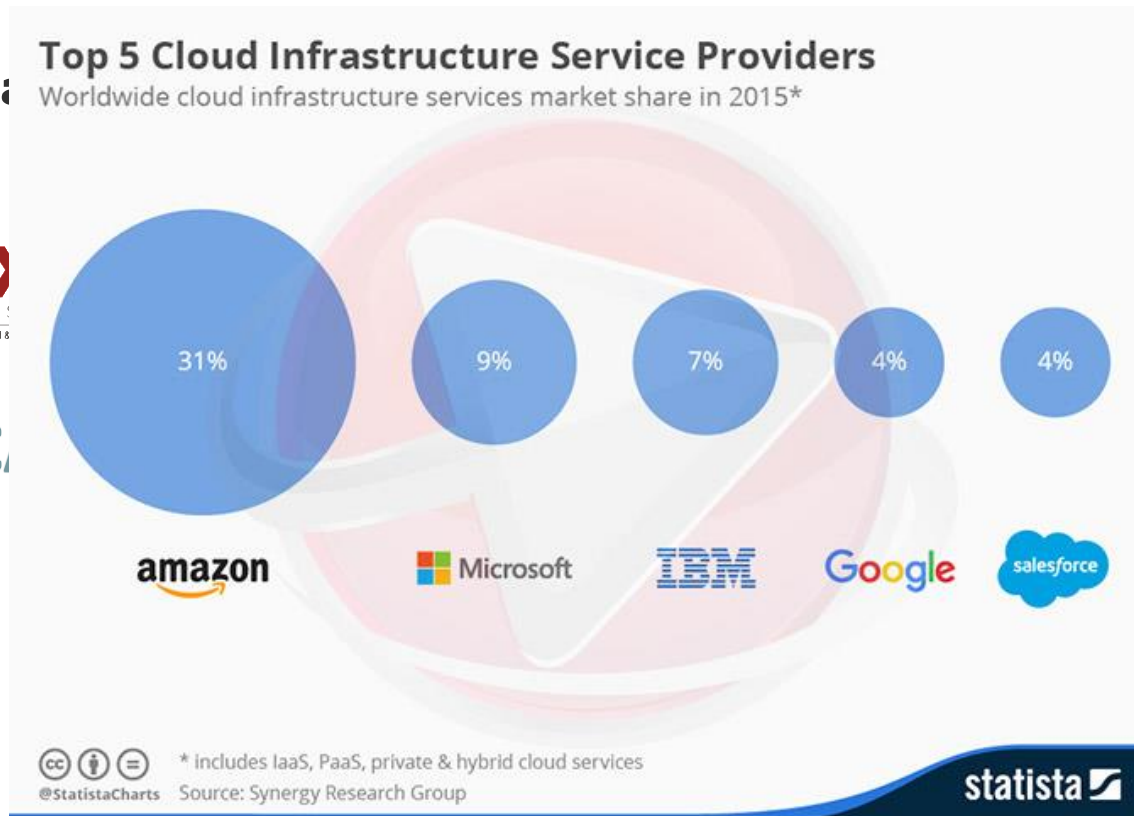
 CODE42	Code42  Code42 connects people to the files they need on the devices they love, enabling continuous data protection and secure access for people and businesses everywhere. 35,000 business and leading educational institutes globally use our products.
 grnet	GRNET  The Greek Research and Technology Network provides networking and cloud services to the Greek academic research and education community and beyond.
 CloudSigma	CloudSigma  CloudSigma is a pure-cloud Infrastructure-as-a-Service provider that offers highly available, flexible, enterprise-class cloud servers and cloud hosting solutions.
 edu zone	Edu Zone  Dedicated to provide cloud services exclusively to the Research and Education community, through a specially designed platform that follows NRENs and institutions business logic.
 box	Box  Box is the secure way to share content and improve collaboration for over 275,000 organisations and 32 millions users as we believe that technology should never limit the invention and productivity of enterprising minds
 Microsoft	Microsoft  Microsoft Corporation develops, licenses, markets, and supports software, services, devices and cloud services comprising Office 365, Dynamics CRM Online and Microsoft Azure worldwide.
 netskope	Netskope  Netskope™ is the leader in cloud app analytics and policy enforcement.

catalogue.clouds.geant.net



The screenshot shows the GÉANT Cloud Catalogue website. At the top, there is a dark blue header with the GÉANT logo on the left and the text "GÉANT Cloud Catalogue" on the right. Below the header is a navigation bar with links for "Home", "Providers", and "Services", and a user profile for "Branko Radojevic" on the right. On the left side of the main content area, there is a search bar and a "Sort by:" dropdown menu set to "Initial". A blue "Add Service" button is located in the top right of the main content area. The main content area displays three service cards:

- CloudSigma Public Cloud IaaS** (with a Swiss flag icon): Described as a pure-cloud Infrastructure-as-a-Service provider offering highly available, flexible, enterprise-class cloud servers and cloud hosting solutions. It allows provisioning CPU, RAM, Storage, and bandwidth independently. A progress bar below the description consists of 20 circles, with 18 green and 2 orange.
- Okeanos** (with a flag icon): Described as "The GRNET Cloud Service". A progress bar below the description consists of 20 circles, with 10 green, 8 orange, and 2 red.
- EduZone EZ-Infrastructure** (with a flag icon): Described as a custom service designed for research & education users, allowing them to rent servers, networking devices, storage, and data center space using their eduGAIN account. A progress bar below the description consists of 20 circles, with 18 green, 2 orange, and 1 yellow.



Listed in Cloud Catalogue
Stating capabilities

Educational discount /
 preferential pricing
For use below tender thresholds

Framework agreements
*Results of a pan-European tender
 / tender compliant*

IaaS Tender – why together?



- IaaS in high demand by community
- NRENs can provide **value** in providing access to those services: service delivery role
 - Safe and secure use
 - Remove data egress charges
 - Federated IdM support
 - Aggregation of demand for higher discounts, cost predictability and buying process compatible with R&E
 - Provide choice (not a winner takes all approach)





EC Procurement Directive (2014/24/EU)

New Directive sets out key provisions;
key to the success of the planned GEANT IaaS tender
and Frameworks:

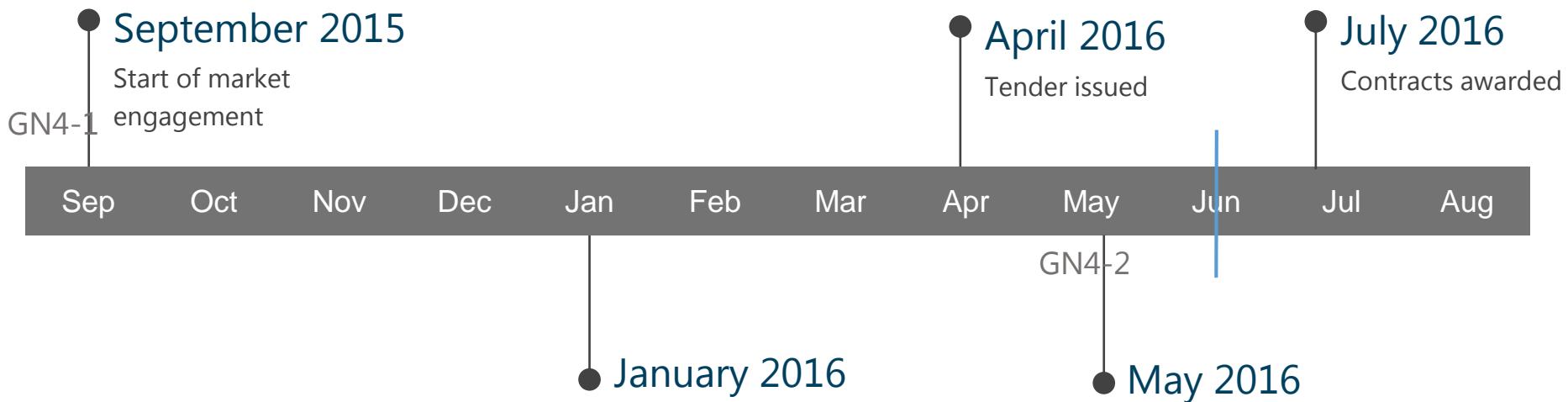
- *Framework Agreement use*
- *Cross-border procurements*
- *Centralised Purchasing Bodies*



Member State Procurement Legislation

To be implemented by Member States no later than 18th
April 16

Timeline of the GÉANT IaaS tender



Tender launched 19th April 2016

GÉANT will award multiple 4 year frameworks to all providers which meet requirements

No obligation for NRENs or connected institutions to buy



24 providers responded!



Thank you



Networks · Services · People
www.geant.org