GÉANT
Cloud
Services

TOWARDS **PAN-EUROPEAN** CLOUD SERVICES

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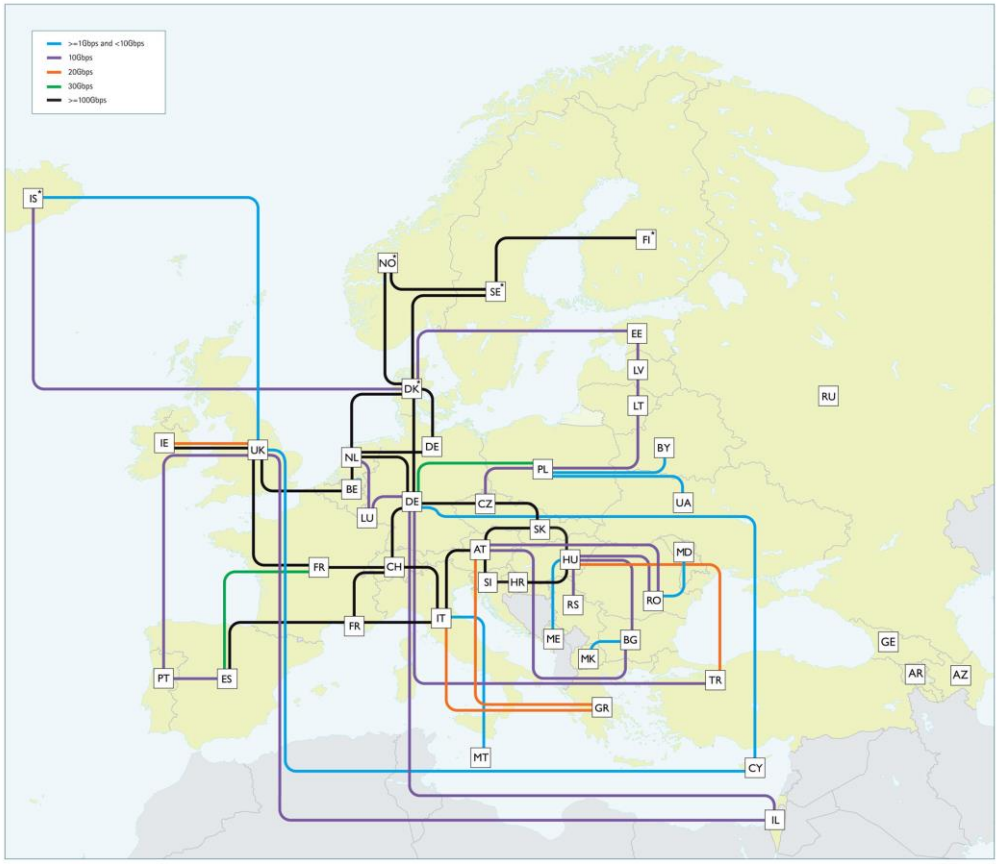
Who we are, and what we do?

34 NRENs
20.000 Institutions
50.000.000 Users

GÉANT – previous 15 years?

Computer network!



GÉANT
2000-2003

GÉANT 2
2004-2007

GÉANT 3
2008 – 2012

GÉANT 3 plus
2013-2014

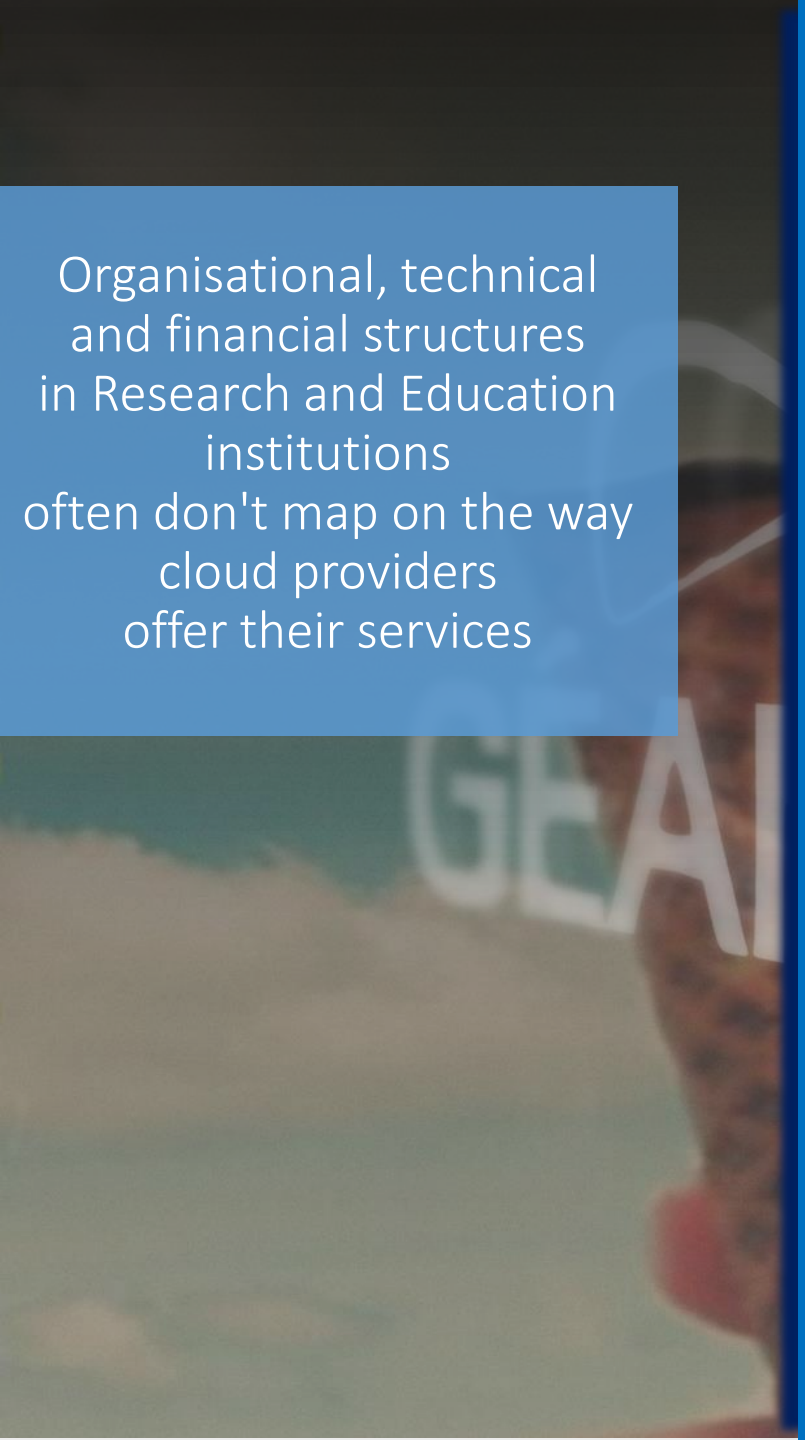
GÉANT 4
2015-2022

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
- openess, 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

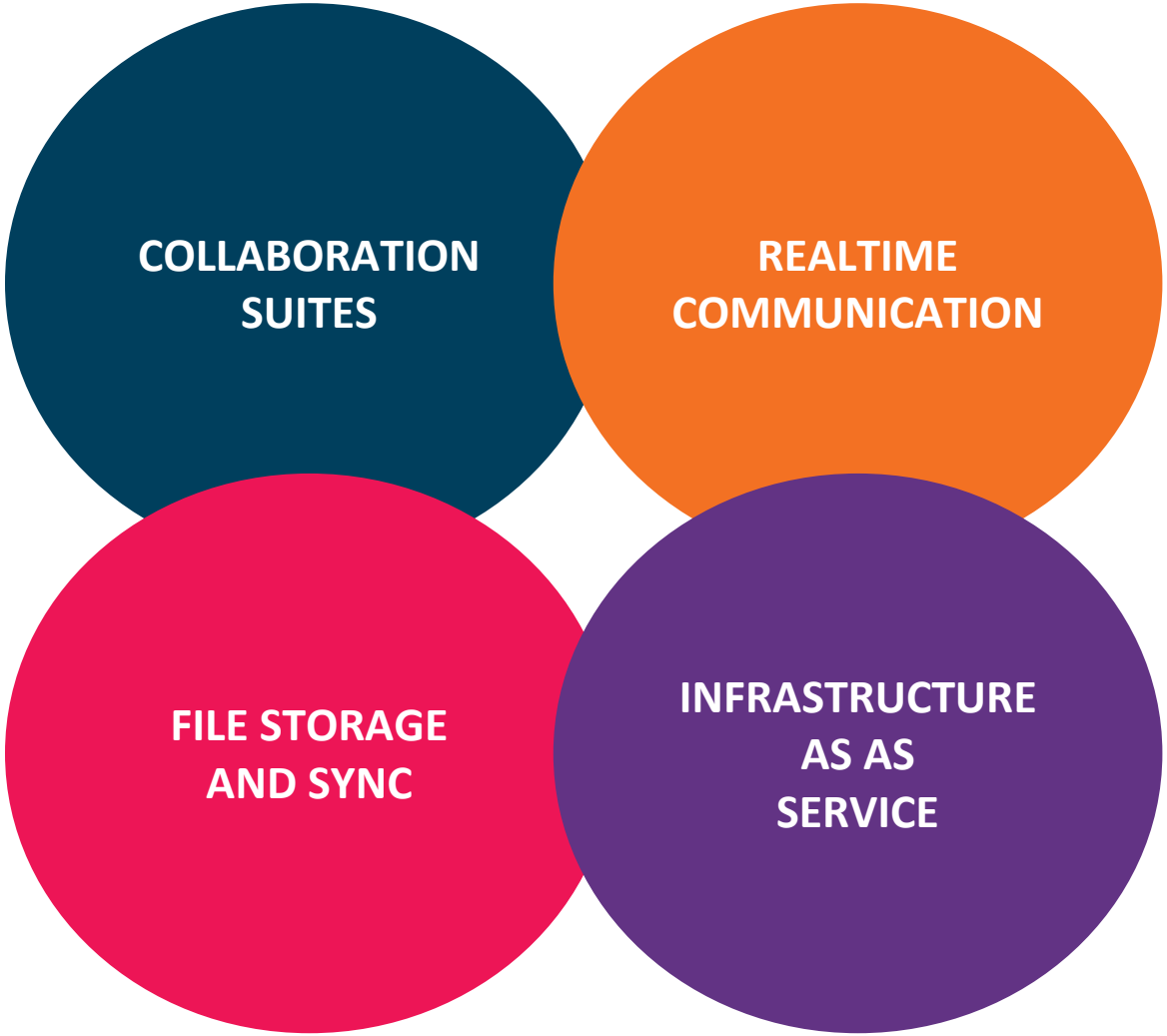
SERVICE SHARING AND DELIVERY

TERMS & CONDITIONS
BROKERAGE
PROCUREMENT

FEDERATED IDENTITY
MANAGEMENT &
SINGLE SIGN-ON

NETWORK
PEERINGS

User demand



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

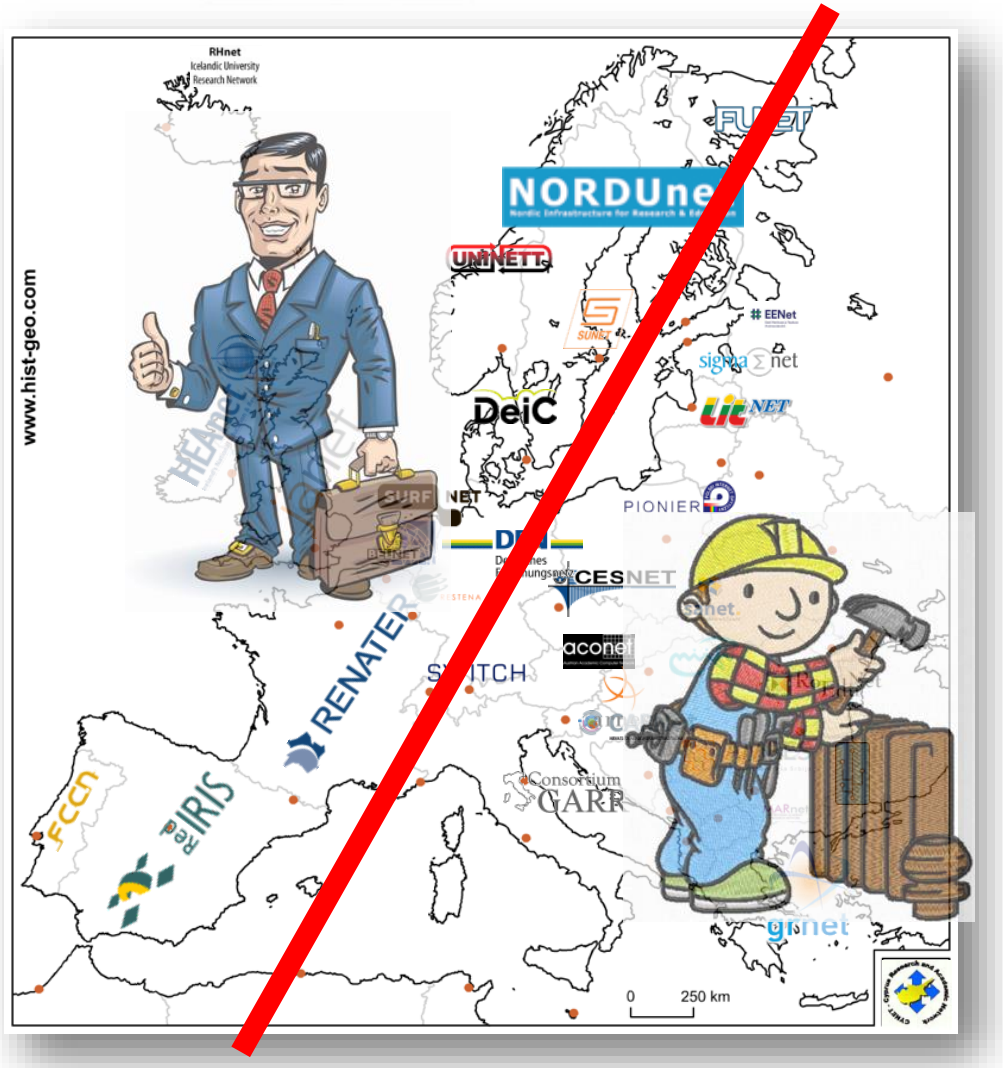
NEW areas:

E-learning and educational resources

Business administration services

Medical applications

Buy or build?



RHnet
Icelandic University Research Network
www.hist-geo.com
NORDUnet
UNINETT
DeiC
EENet
sigma net
LIC NET
PIONIER
CESNET
aconet
SWITCH
RENATER
IRIS
FCCN
Consortium GARR
gr.net
0
250 km

SERVICE DELIVERY
HYBRID APPROACH

MAKE AND BUY

ADDED VALUE FROM NRENS
TRUSTED *ADVISORS, BROKERS, PROVIDERS*
= RIGHT CONDITIONS FOR COMMUNITY

GÉANT
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
GÉANT

Collaboration with commercial vendors

50.000.000 Users

Ins Ins Ins Ins Ins Ins Ins Ins

NREN NREN NREN NREN NREN

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Requirements:
- Int. property rights
- Ownership
- Legal aspects
- Security
- Continuity
- Confidentiality
- Communication
- Billing
- Technical

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Cloud Vendor

Cloud Vendor

Cloud Vendor

Cloud Vendor

Cloud Vendor

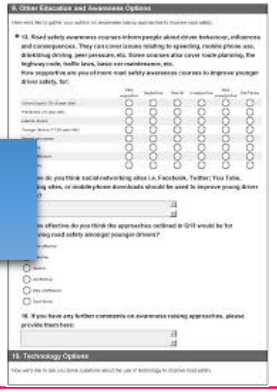
Cloud Vendor

Sell Services & Make Money

T & C | Network | eduGAIN

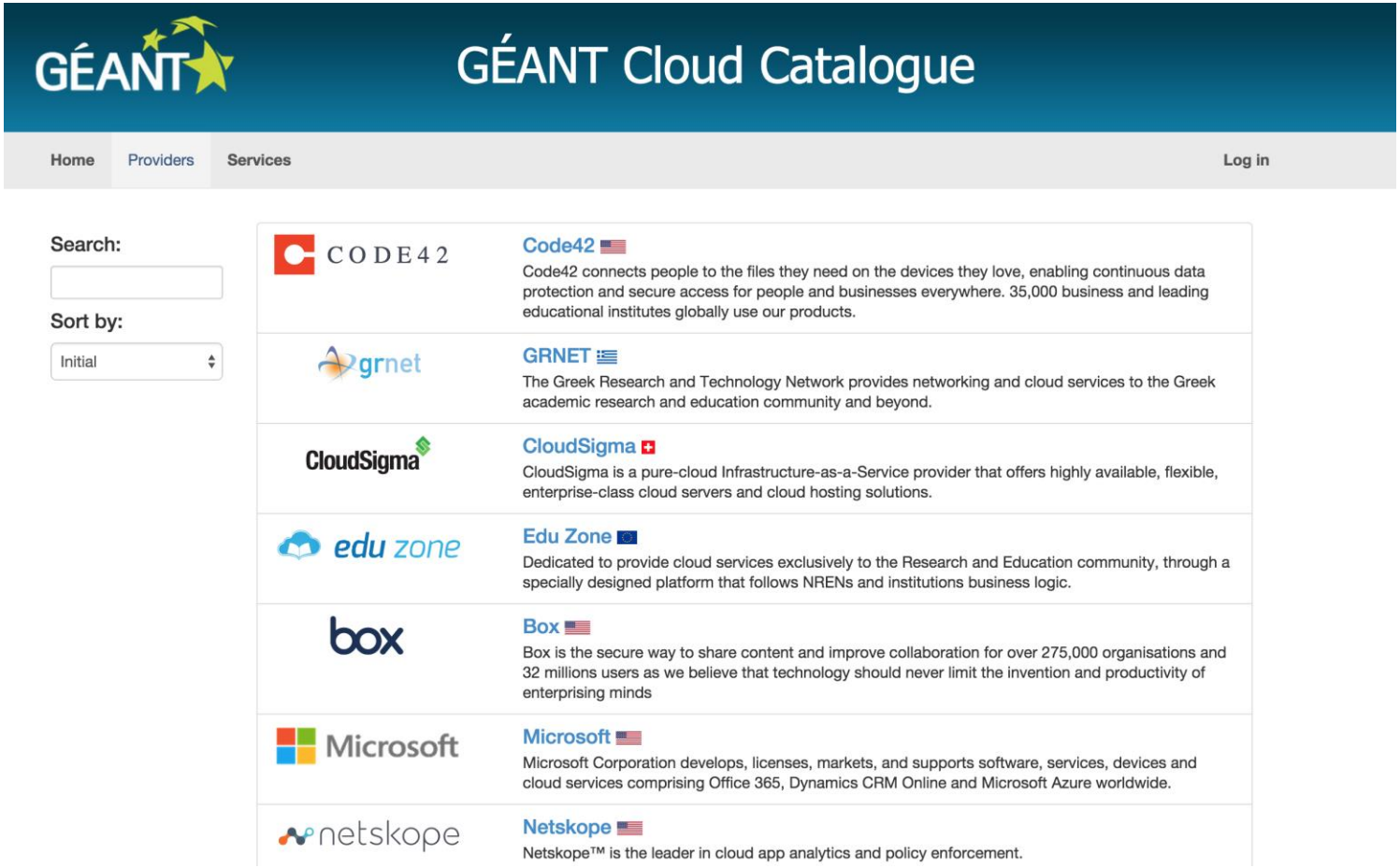
CloudServices
PART OF THE GÉANT SERVICES PORTFOLIO

GÉANT Cloud Catalogue



GÉANT Cloud Catalogue

catalogue.clouds.geant.net



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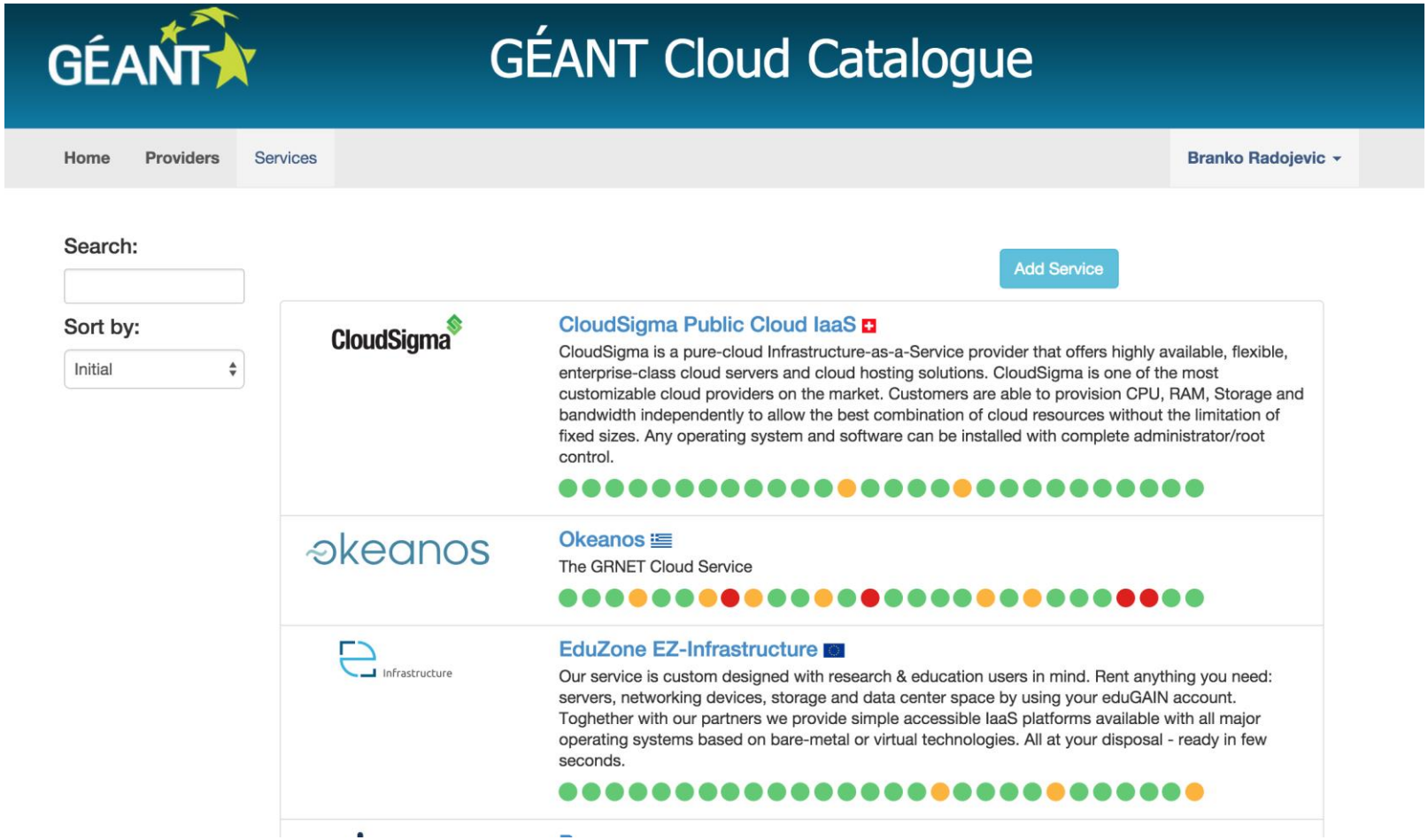
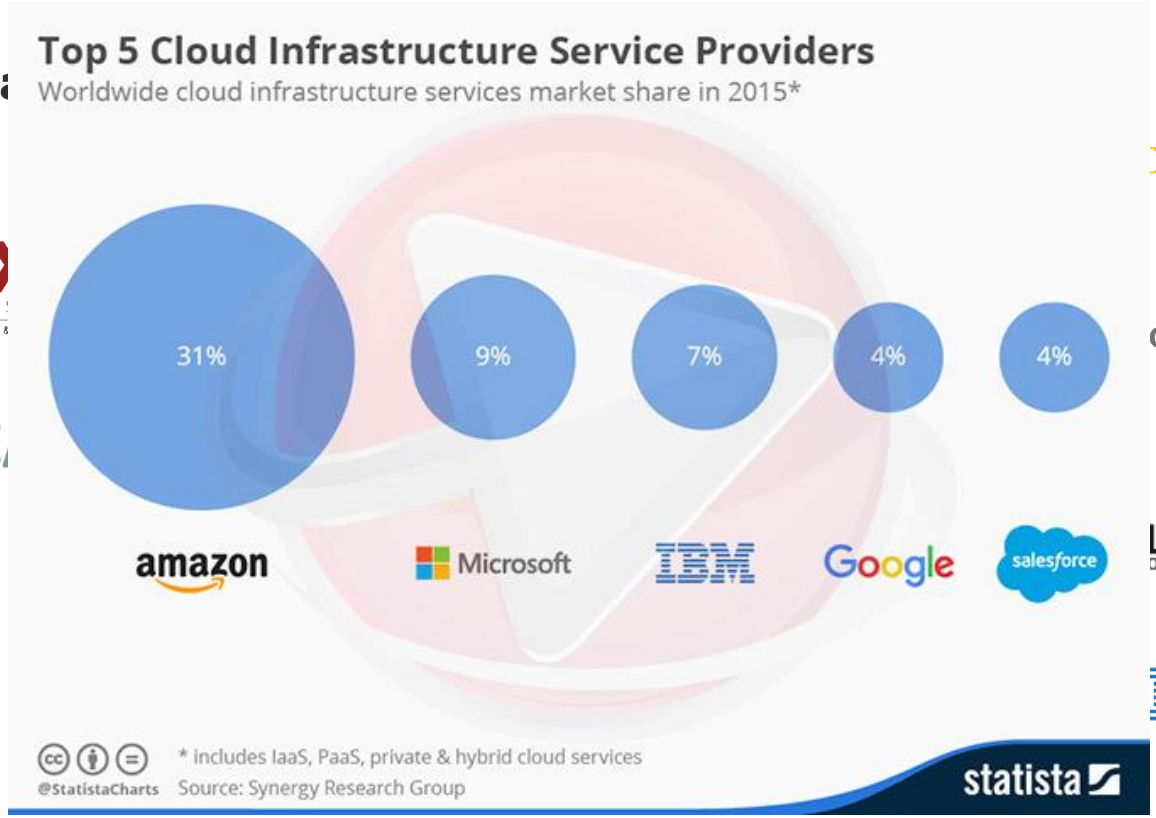


GÉANT Cloud Catalogue



Listed in Cloud Catalogue	Educational discount / preferential pricing	Framework agreements
Stating capabilities	*For use below tender thresholds*	*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)

Legal basis for joint NREN procurement activity

EC Procurement Directive (2014/24/EU)

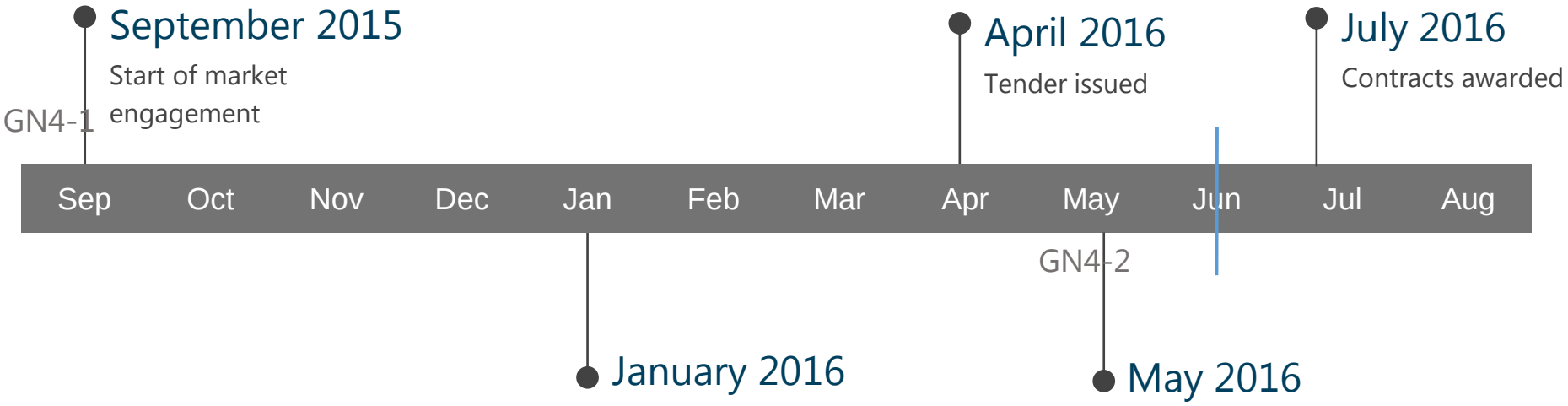
New Directive sets out key provisions;
key to the success of the planned GEANT IaaS tender and Frameworks:

- *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



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

GÉANT

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