Benefits of the GÉANT Cloud Framework

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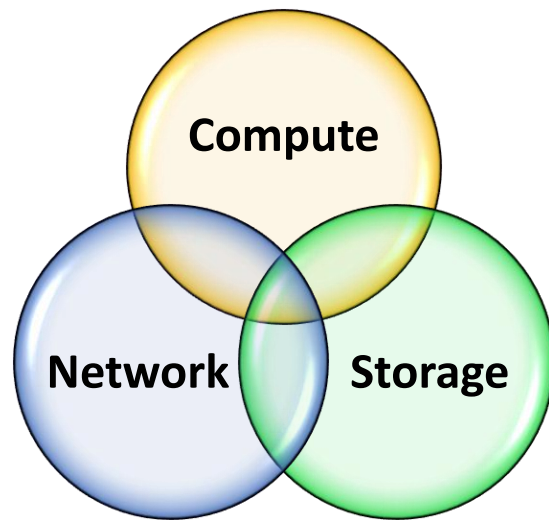EAPEC'18, Chisinau, 17-18 October 2018

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GÉANT Infrastructure-as-a-Service Framework (IaaS FW)

- **36 participating NRENs**

- **More than 20 IaaS solutions**

- **Unique innovation project**
- Pioneering Cloud Delivery in Europe
  - first digital single market

- Collaboration
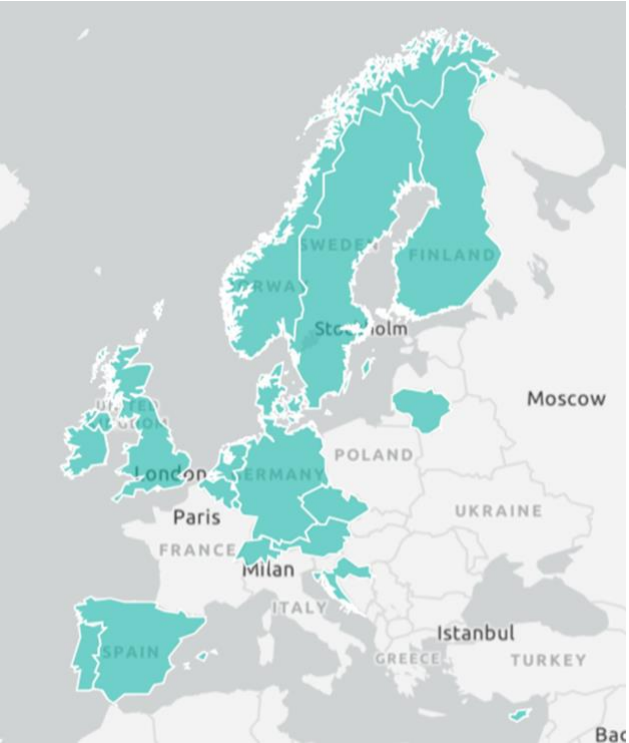
- Technological integration

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IaaS Framework Services

Compute

Network

Storage

The services should be
- ➤ **standardized**
- ➤ **highly automated**
- ➤ **available on-demand**
- ➤ **elastic**
- ➤ **on a pay per use basis.**

Access should be via
- ➤ **a web-based self-service portal or**
- ➤ **API and support multi-tenancy.**

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Consumption of the IaaS Framework by October 2018

Austria	Lithuania
Belgium	Luxembourg
Croatia	Netherlands
Czech Republic	Norway
Cyprus	Portugal
Denmark	Spain
Finland	Sweden
Germany	Switzerland
Ireland	UK

IaaS Framework Offers

Amazon Web Services

AWS Cloud for Higher Education. Whether you need to facilitate teaching and learning, better manage your university's operations or access

Read more.

ITSoft

ITSoft provides Croatian companies IaaS rental of CPU, RAM, DISK space, network and security devices in a self-service portal that

Read more.

Dimension Data

Dimension Data provides hybrid cloud-enabled by data centres, networking, collaboration and security offering 99.999 % availability SLA, IPV6 support, cloud

Read more.

Vancis

Vancis specializes in data centre services, IaaS / cloud services, managed services and value-added platform services. Vancis operates from its

Read more.

Microsoft Azure

Microsoft Azure – the perfect choice for Education and Research Microsoft Azure is the perfect choice for research and education.lt

Read more.

Cloud Sigma

CloudSigma is a leading European infrastructure-as-a-service (IaaS) provider with a focus on flexibility, performance and excellent customer support. Everything is

Read more.

Lattelecom Cloud Services

Lattelecom | Cloud is a service that provides companies with computing resources – Virtual Machines and Virtual Data Centers including

Read more.

KPN

KPN offers institutions in the Netherlands Managed Hybrid Cloud Services, an application-centric service which includes cloud infrastructure, network, managed services and integrated

Read more.

Sparkle's cloud automation offer for Research & Education

Sparkle provides GÉANT with cloud solutions to support the pan-European research and education community. Cloud solutions will be offered by

Read more.

Interoute

From the ground to the cloud Today people and customers across the globe rely on Interoute's cloud based services and
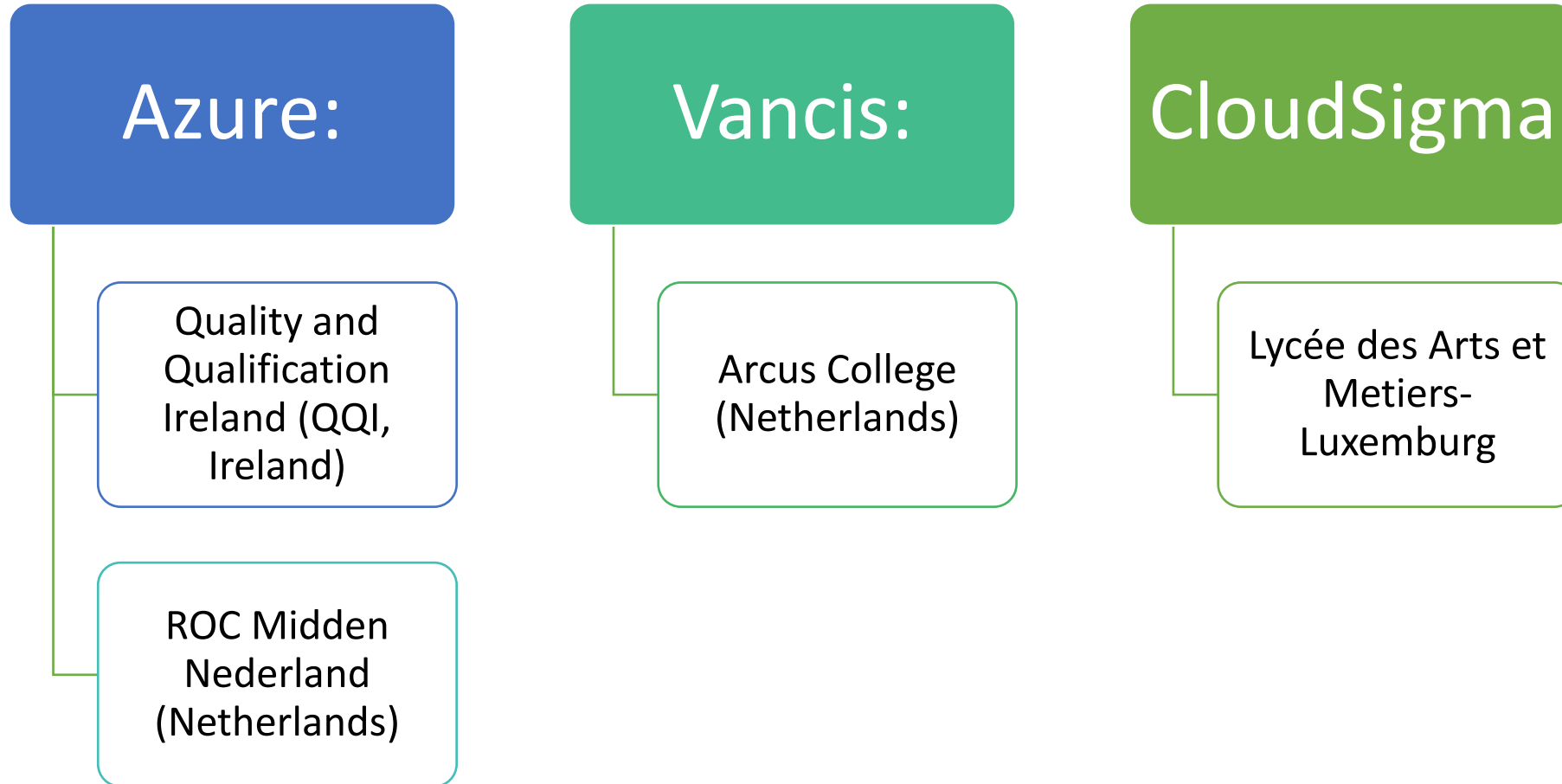
Read more.

T-Systems Cloud Service

Scientific computing: cloud support for science Digitization provides fresh impetus and inspiration across all scientific fields. In particular, scalable, rapidly
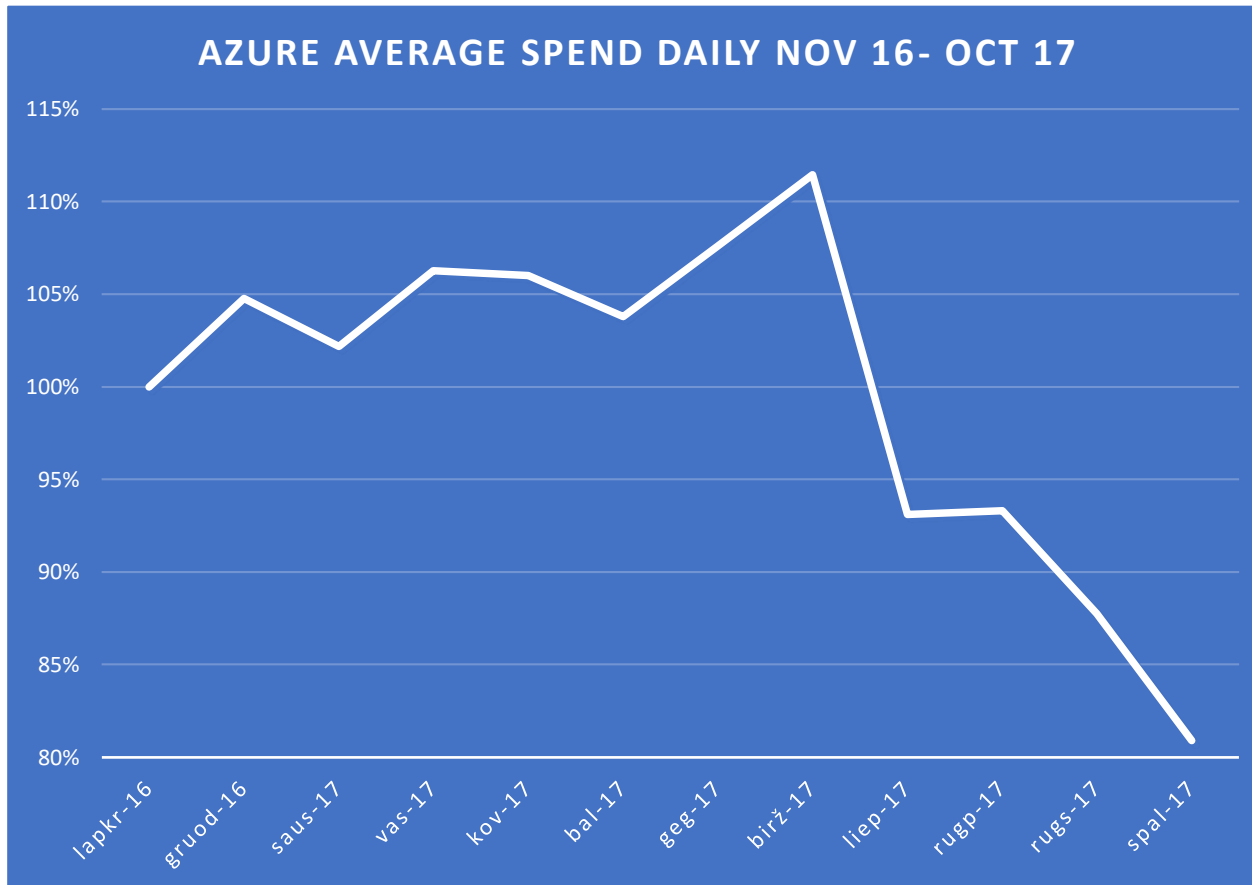
Read more.

IaaS Framework Use Cases

Azure:

- Quality and Qualification Ireland (QQI, Ireland)
- ROC Midden Nederland (Netherlands)

Vancis:

- Arcus College (Netherlands)

CloudSigma

- Lycée des Arts et Metiers-Luxemburg

Quality & Qualifications institute (QQI) in Ireland
achieves substantial savings with GÉANT Cloud Framework

- Average daily spend Nov 2016 – Oct 2017

AZURE AVERAGE SPEND DAILY NOV 16- OCT 17

(x-axis labels: lapkr-16, gruod-16, saus-17, vas-17, kov-17, bal-17, geg-17, birž-17, liep-17, rugp-17, rugs-17, spal-17)

(y-axis: 80%, 85%, 90%, 95%, 100%, 105%, 110%, 115%)

33% cost reduction

after QQI worked with the Irish NREN, HEAnet,
to transfer their Microsoft Azure workloads
to the GÉANT framework agreement,

from July 2017 onwards

InHolland University of Applied Sciences full migration to the clouds

- Full migration of datacentre to the clouds
- Hybrid cloud management portal - SURFcumulus
- Staff involvement and training
- From physical to virtual server administration
- Reduced hardware and maintenance costs
- Resources for educational innovation

Benefits of the IaaS Framework

Save time
- ready to use agreements
- no additional procurement needed
- transfer existing agreements

Save money
- aggregated discounts
- reduced data traffic costs

Easy to use
- logon with institutional account
- invoice billing

Safe to use
- procurement and legal compliance with EU Law
- no obligation to buy

Cloud Adoption Support for Institutions and NRENs

- Cloud contract repository
- Toolkits:
  - IaaS Service Matrix (online supplier comparison)
  - Data Classification Tool for risk assessment
- Communication material
  - Fliers, news, articles in magazines
  - User stories, showcases, good practices and instructions
  - 2-minute videos introducing IaaS FW portfolio
- Speakers and presentations at events, slides
- Skills development: meetings, workshops, webinars
- Combined with support from suppliers:
  - Events: technical workshops and trainings, webinars, presentations at conferences
  - Whitepapers
  - Test accounts

GÉANT Community Clouds Website: https://clouds.geant.org/

GÉANT clouds website, to better reflect the GÉANT cloud service delivery capabilities

Newsfeed & Cloud events

Cloud catalogue & IaaS Service Matrix

User stories

Maps for contacts

Guidelines

Contract Repository

Joint efforts pay off!

- **Aggregating demand of R&E institutions for online tailor-made services**

- **Understanding the supplier offerings and their unique selling points**

- **Finding solutions to concerns about data protection, incl GDPR compliance, laws and procurement regulations**

- **Problem solving scaled up on international level**

Joining the forces

         we learn together,

                  we solve our problems together

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Thank you!

- https://clouds.geant.org/
- clouds@geant.org

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