

GÉANT Cloud Update on eHealth

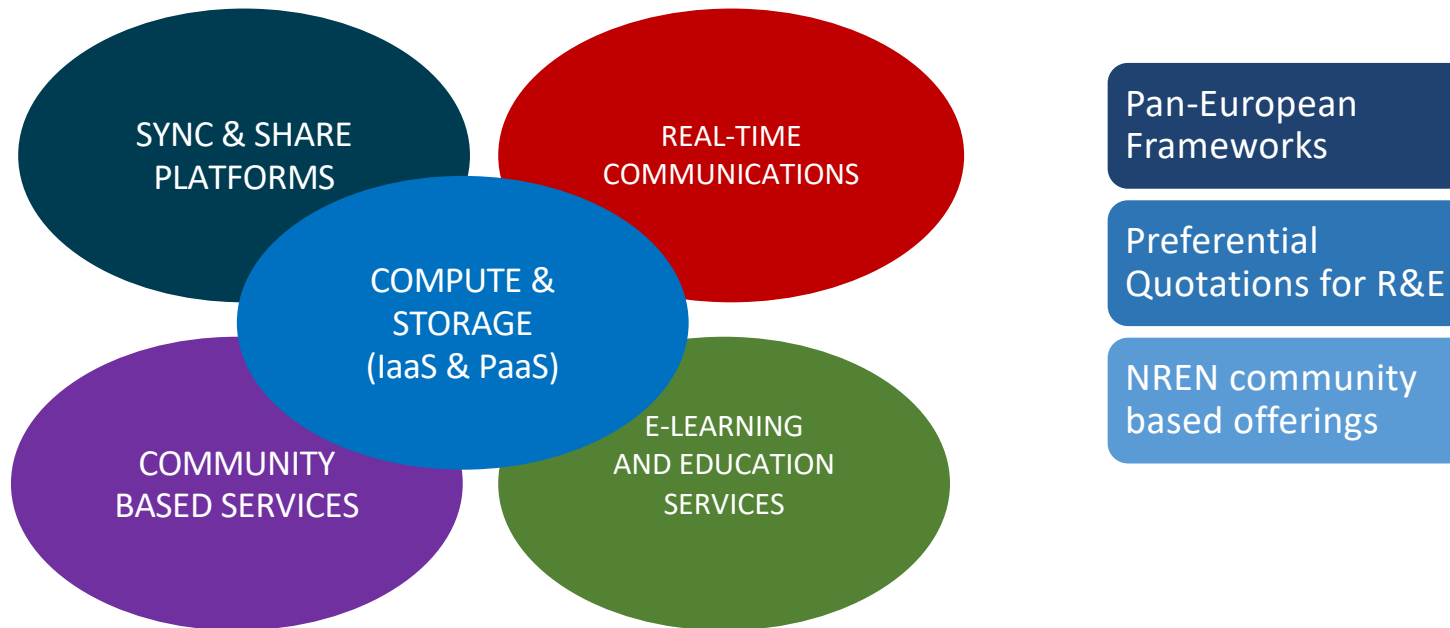
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GÉANT and EAPConnect baselining workshop on eHealth
27 January 2021





GÉANT Cloud Collaboration



GÉANT Cloud Services Portfolio

Commercial offers

- 2016 IaaS Framework (call-offs valid until 2024)
- OCRE 2020 IaaS+ Framework (FW until 2024, call-offs 4 years)
- Videoconferencing Framework for NRENs (valid until June-July 2021)
- Preferential Quotations for R&E (IaaS, file storage & sync, collaboration, real-time comms, e-learning)



Community clouds

GÉANT Cloud Flow in Pilot as a software

Real-time comms

eduMEET as a software

GÉANT clouds at Cloud4Health Symposium in 2019



K-DACH 1st Cloud 4 Health Symposium, 30 September 2019, Munich

- K-DACH = Korea (K), Germany (D), Austria (A), Switzerland (CH)
- GÉANT and DFN as keynote speakers
- Representatives from government & competency centres
- Industry representatives (Google, IBM, etc)

Policy and regulation trends in medical ICT & software (policy, trust & privacy)

Cloud Health Initiative of Korea + examples from DACH countries

Strategies and technologies session

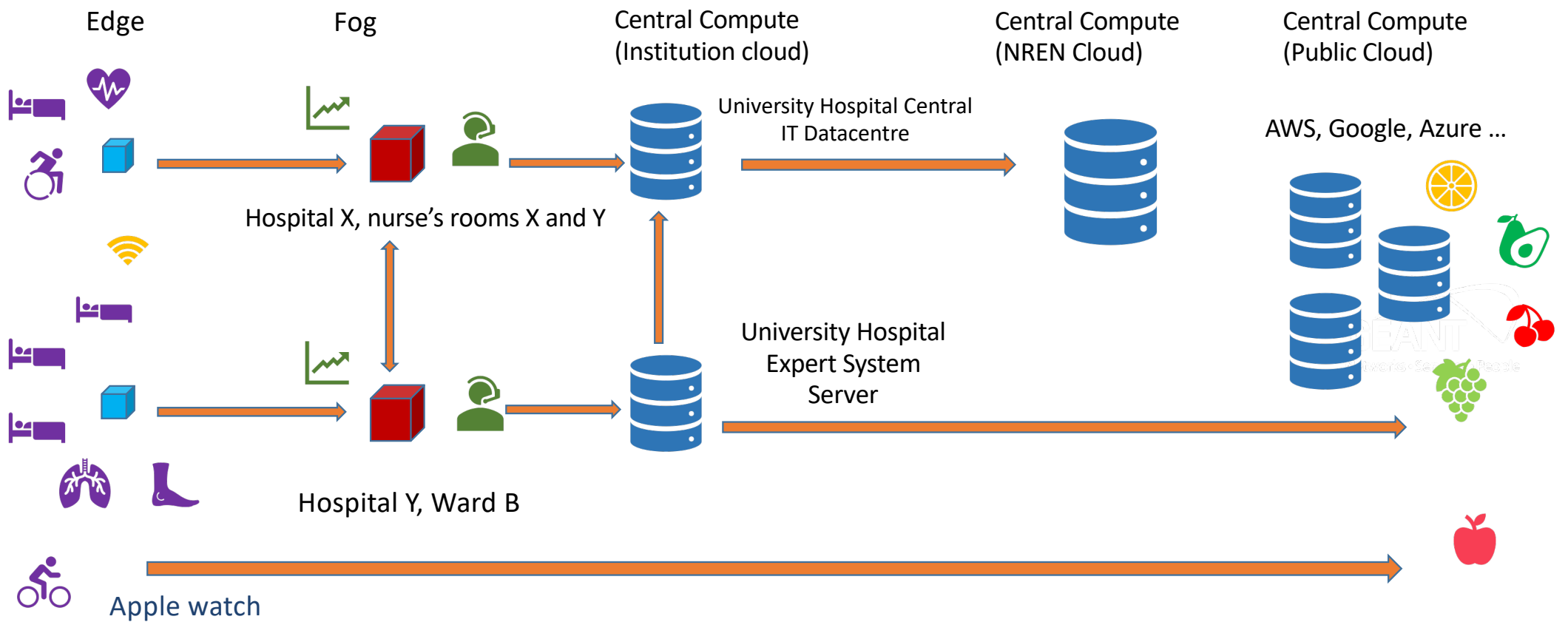
Some topics presented

- Precision medicine hospital information system
- Privacy-preserving record linkage in the cloud
- Healthcare AI (Google)
- Chances and risks
- Medical AI In The Cloud - How cloud-based AI and ontology-based data together will change medicine, a first field report from Ada
- A need and reality - Software on a prescriptions

R&E community demand and what GÉANT & NRENs offer

eHealth Demand	GÉANT & NRENs provide
Central Cloud Computing	Yes
Fog computing	No
Edge computing	No

Examples



Central compute (cloud), Fog and Edge computing

Central computing & data handling

- Remote data centres and central servers
 - Management of medical records
 - AI based expert systems for medical workers

Fog computing

- Analysis, aggregation & storage

Edge computing

- Gathering wireless sensory data (incl monitoring systems) moved towards AI & Machine Learning
- For effectiveness of treatments, identifying patients at risk, personalise care, etc

Research network is changing

TERM “NETWORK” IS CHANGING
with cloud computing & data handling

Research network takes place between
the central computing
(using suppliers’ datacenters and fibres),
but also elsewhere than NREN backbone

RESEARCH COMPUTING IS MOVING
OUTSIDE NRENS NETWORK

Between central computing
& edge devices

Between the edge devices
themselves

What role the NRENS and GÉANT would play in the changing
landscape, like 5G and fog computing?

Do NRENS need to widen their focus?

Thank you

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