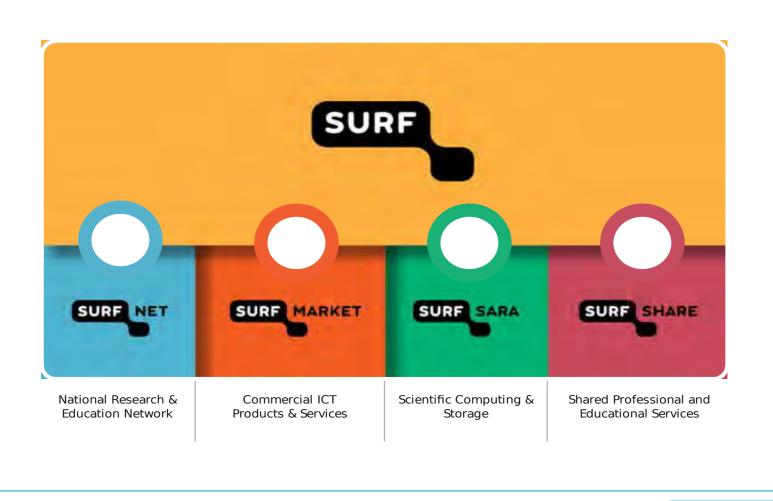


Niels van Dijk, SURFnet, niels.vandijk@surfnet.nl CAMP, Nov 15 2013, San Francisco

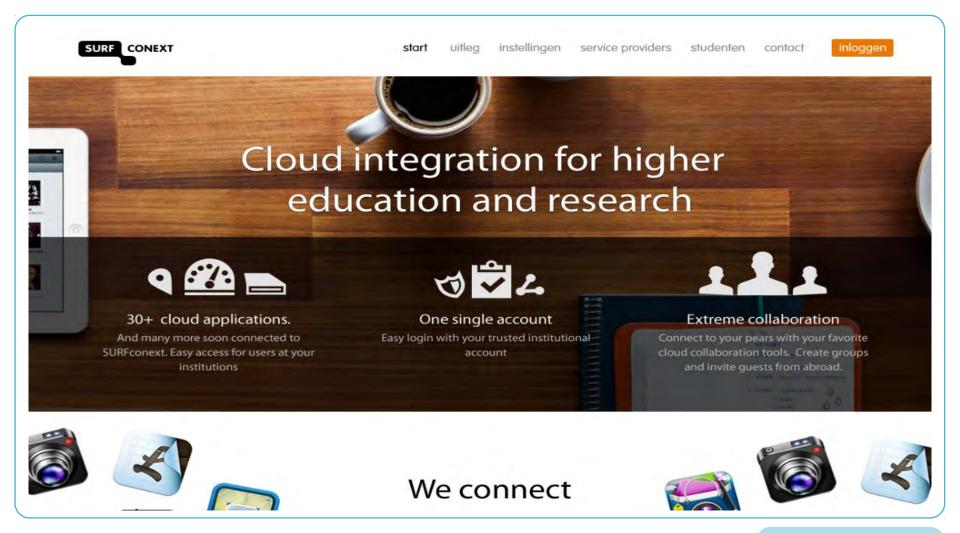


R&E in The Netherlands: SURF and SURFnet





SURFconext: Federation, Broker & Platform





SURFconext Federation

Authentication

- 112 IdPs (70% of Member Institutions), covering ~ 90% of R&E users in The Netherlands
- IdPs run ADFS (70%), Novell, SimpleSAMLphp and Shibboleth.
- Government ID login (DigiD) added for selected Services in Healthcare
- ~ 4m logins/month

Services

 ~ 150 services connected <u>http://www.surfnet.nl/nl/Thema/coin/cloudservices/Pages/Default.aspx</u>

Groups

- AdHoc using SURFteams (Grouper based),
- 4 external group providers connected (LDAP, MS AD)
- ~ 250k group request/month

Social2SAML

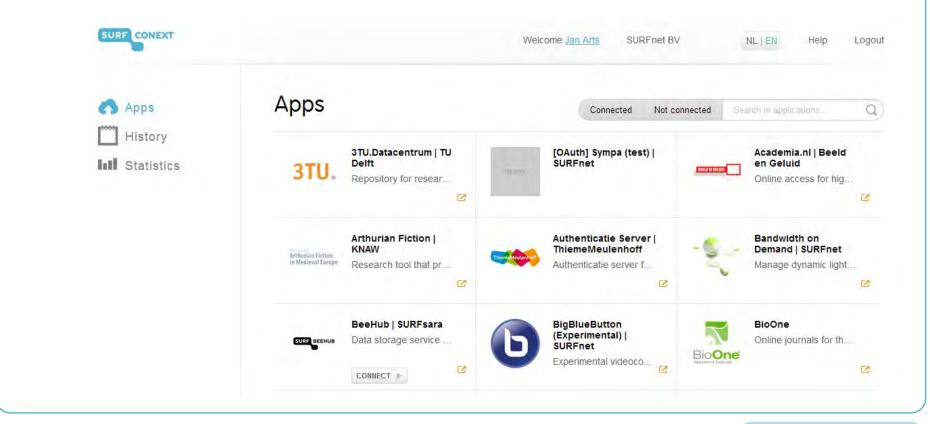
- Commercially provided gateway
- Uses account mapping to link social accounts to a peristent SAML ID



SURFconext Broker

Cloud Broker

- Working closely with SURFmarket, who take care of procurement
- Commercial services meet federation standards AND are procured on a National level

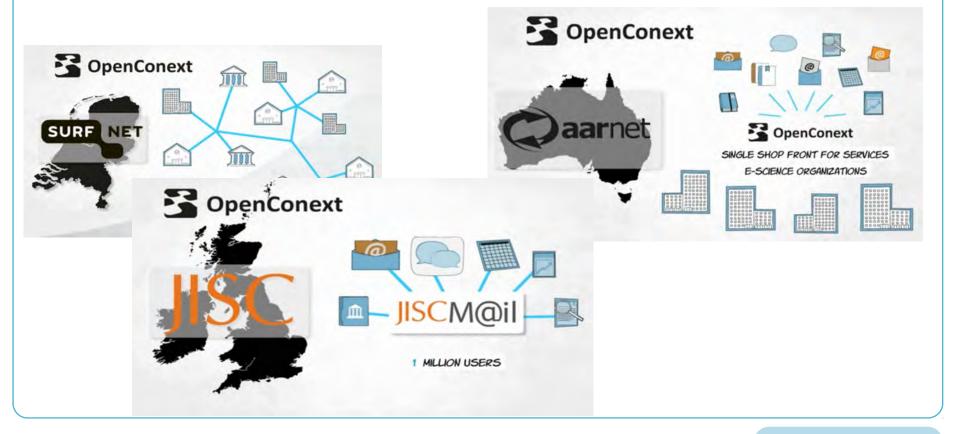




SURFconext Platform

SURFconext is build on OpenConext, an Open Source collaborative platform for AuthN, Groups & Attributes

- OpenConext in use in UK (JISC), Australia (AARnet)
- OpenConext in 3 minutes: http://www.youtube.com/embed/kUpn568NSI0?hd=1





Private Cloud

Dutch University Medical Centers

Long standing collaborations, however never actual collaboratively sharing resources or infrastructures

Project Goals

- Identify who benefits most: Use cloud to improve the most important daily activities
- Support 80.000 staff and researchers
- A safe alternative for public cloud services

Along the way

- Strengthen collaboration between institutions at IT and Management level
- Create common vision
- Identify opportunities
- Build towards future workplace for staff and reseachers



Preparation: Persona



Results:

- Centralize & share documents, agenda, tasks
- Find people and documents
- Effective use of email
- Share *documents*, also from home
- Document versioning
- Share documents with external
- Document sharing was the No 1. usecase



Why Private Cloud?

Improve collaboration between UMHs Authenticatie Server 2(A)T Aanmelden via uw eigen instelling Joined Project Kies uw instelling om aan te melden bij Teamwerk AMC. Joined Results Uw vorige keuze Joined Platform: Clear obligations from Cloud vendor All UMHs are equal Collaboration is prioritized, no hidden agenda **UMC** instellinge A safe alternative for UMH data Not using public cloud DINC WIN BARNON Implement data classification (High, Medium, Low) Maastricht UMC UMC St Radboud **Guest Access** Overige instellingen Federated Access using home institution login Multi Factor Authentication if required Teamwerk AMC + Home +Nieuwe Teamsite Support Search Zoeken op deze site. Beveiligingsniveau: MIDDEN ESCHIKT voor: bedrijfsvertrouwelijke gegevens, personeelsgegevens (beperkt), anonieme onderzoeksgegevens, etc. NIET GESCHIKT voor: Concurrentie- of beursgevoelige gegevens, proceskritieke informatie, patientgegevens, etc. Om het volledige classificatieschema te raadplegen klikt u hier: dassificatieschema beveiligingsniveau's Welkom bij Teamwerk AMC

Teamwerk is sen samenwerkingsomgeving voor de 8 Nederlandse UMC's. If knigt hier de mogelijkheid om met SharaPoint eenvoudig samen te werken binnen of tussen de UMC's en met door u uit te nodigen externen



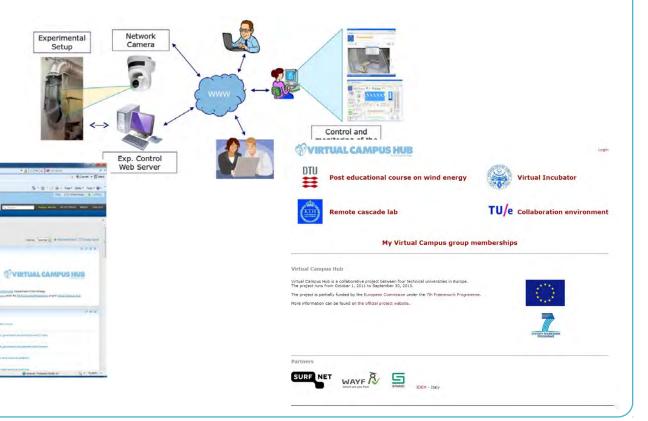
International Cloud Collaboration





Components of VCH

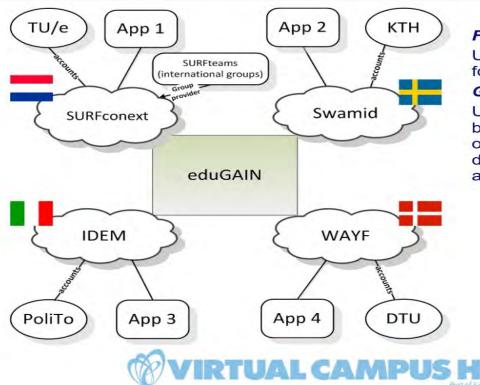
- Campus and Cloud-based Learning Management Systems
- Collaboration Portal and Platform
- Virtual Laboratory
- Integrated for end users





A template for Crossborder Learning

Enabling international collaboration: National (NRENs) and European (Géant)



Federated authentication

Use your own institution's account for applications elsewhere

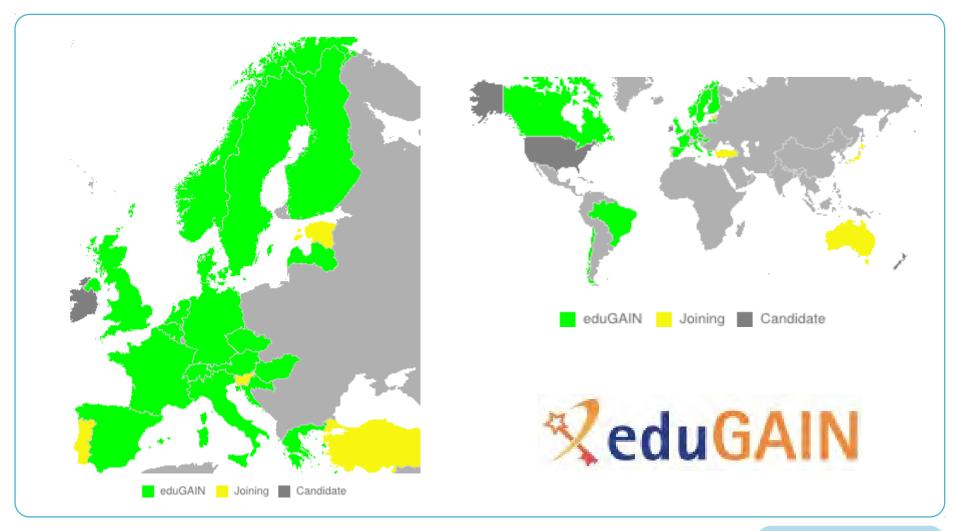
Group management

Using cross-institutional and cross border group definitions (virtual organizations) for authorization at different locations and in different applications





Global Interfederation: eduGAIN





VCH Experiences

The Good

- FIM is promising technology and fairly well standardized across NRENs (except for group management)
- Enables institutions to join forces in education

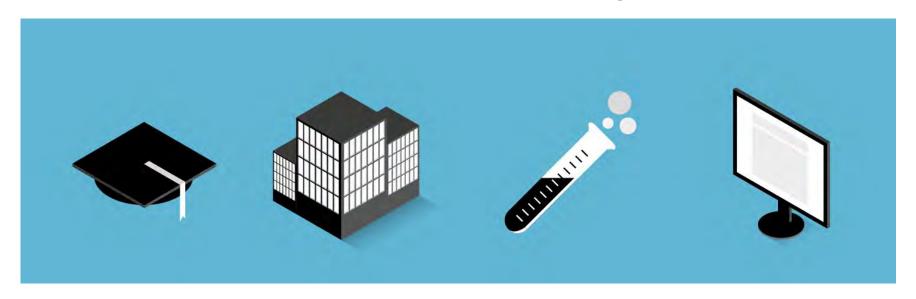
However

- Knowledge and motivation at local institutions still very limited
- Crossing borders (inter-federation) is also new to NRENs
- Difficult to sell infrastructure improvements to users
- Not allowing industry on Géant infrastructure as IdP hampers collaboration with industry
- Involve federations and central IT departments from the start!



Lessons Learned

The International Collaboration Infographic





Pointers

SURFconext

- http://www.surfconext.nl/en (generic)
- https://support.surfconext.nl/ (technical, policy)

OpenConext

- https://www.openconext.nl
- https://githbub.com/openconext
- http://www.youtube.com/watch?v=kUpn568NSI0

Virtual Campus Hub

http://www.virtualcampushub.eu

eduGAIN

http://www.geant.net/service/eduGAIN/Pages/home.aspx

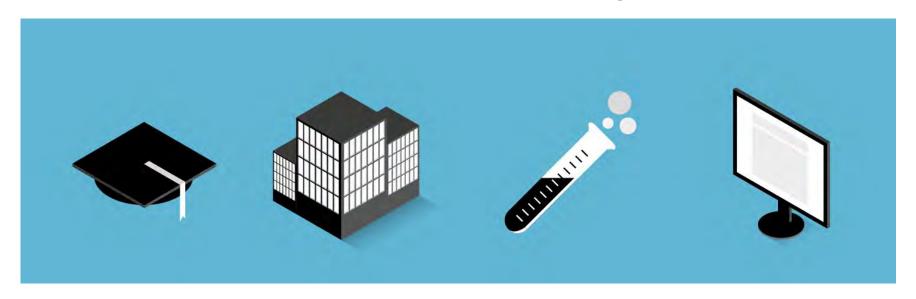
Infographic International Collaboration

Attached to this slidedeck



Lessons Learned

The International Collaboration Infographic







WHY COLLABORATE INTERNATIONALLY ONLINE?

Online collaboration at an international level enhances the quality of education. It offers space for more depth and specialisation. Collaboration saves costs, increases the institution's appeal and makes knowledge possible on a greater scale. Why would you limit yourself to the institution or country borders if, technically speaking, there were no further hindrances?



STUDENTS

LEARN MORE



EDUCATION INSTITUTIONS

INNOVATE MORE



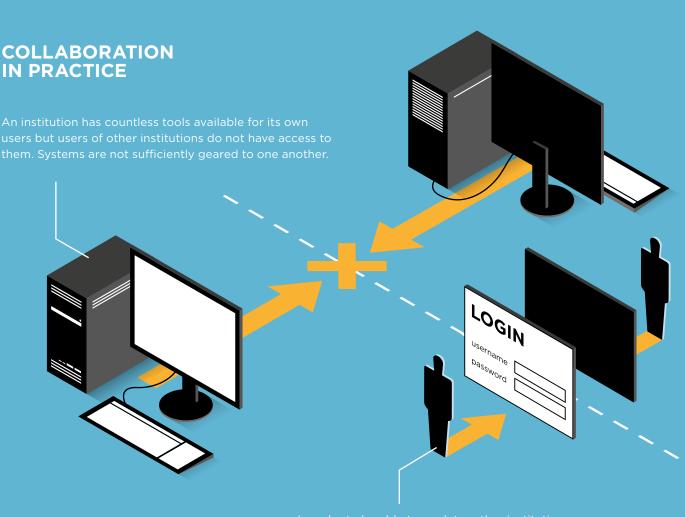
RESEARCHERS



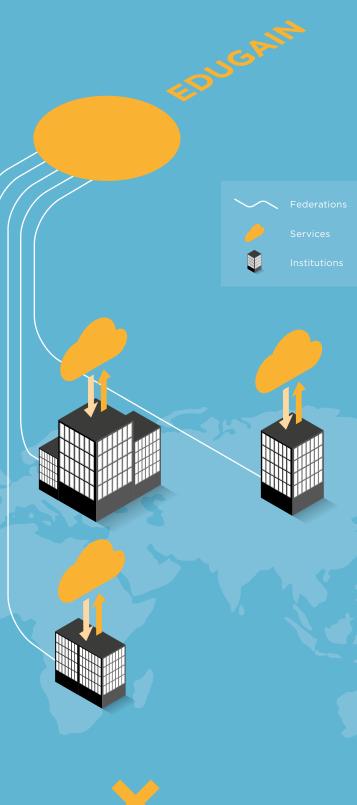
COLLABORA-TIVE ORGANISA-TIONS

EXPERIMENT MORE

INTERACT MORE



WHAT DO WE NEED FOR INTERNATIONAL COLLABORATION?



TU/e



DOS

institutions involved, the Service Providers and the NRENs Make sure you have enough to get the online collaboration

of activities and planning

BEST PRACTICE: VIRTUAL CAMPUS HUB

Don't regard testing as opti-

same technical knowledge

THE **NETHERLANDS**

ITALY

SWEDEN

and working environment for students in the field of sustai-

lab facility, do assignments and safely share documents.

DENMARK

500 STUDENTS AND 25 TEACHERS

AT 9 VIRTUAL EVENTS















