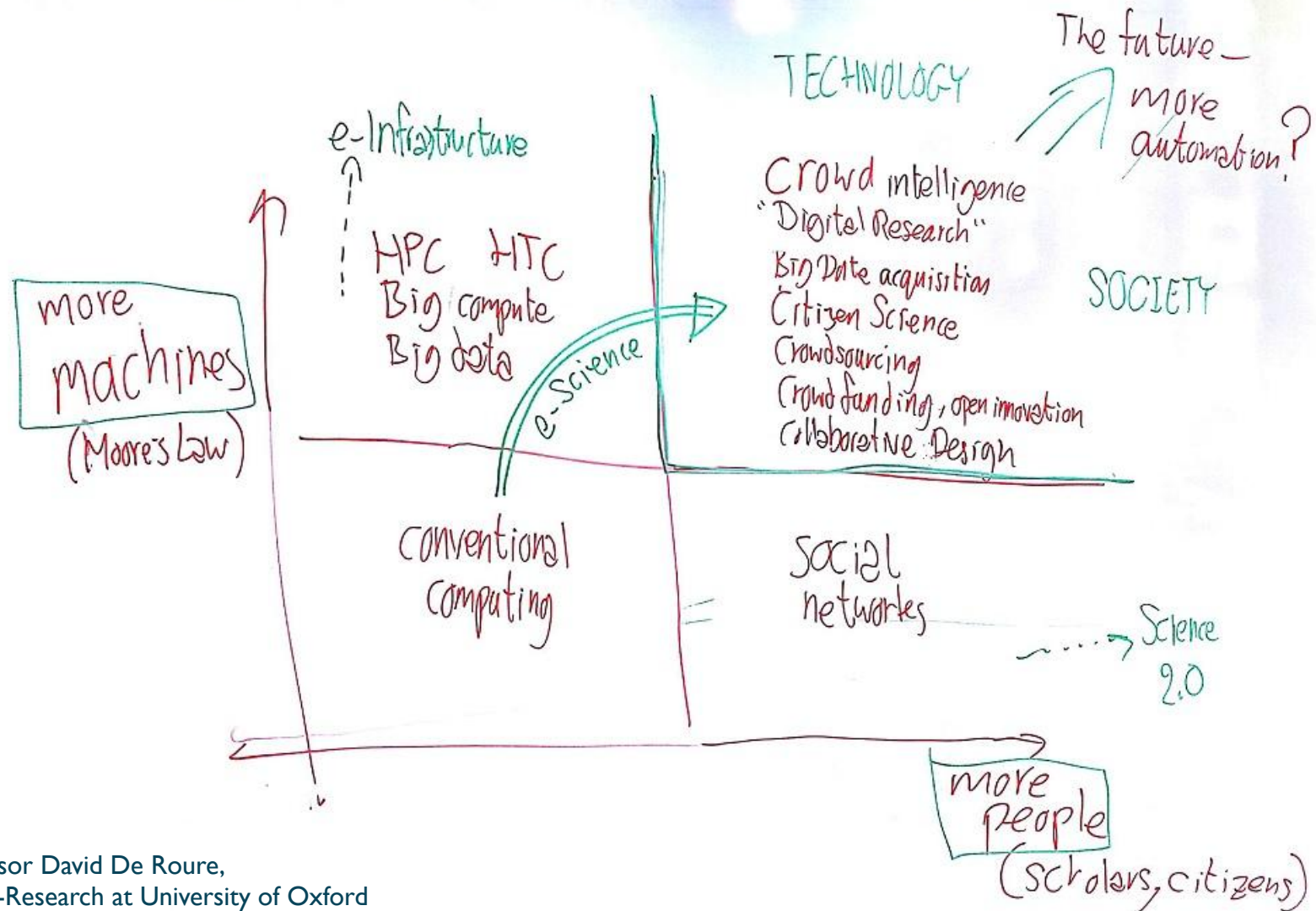


Trust and Identity

Infrastructure Services Above the Network


Ann Harding, SWITCH/GÉANT
UbuntuNetConnect 2014

e-Research in the 21st Century

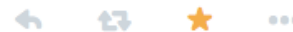


Source: Professor David De Roure,
Professor of e-Research at University of Oxford



 **Neelie Kroes** ✓
@NeelieKroesEU Following

At @CERN, "a single paper can easily have 3,000 authors" - @RHDijkgraaf
ec.europa.eu/commission_201 ...
#opendigitalscience #EUDigitalMinds
#research



RETWEETS 17 FAVORITES 5



4:51 PM - 30 Oct 2014

Distributed Data
Distributed Users

Are we ready?



Benedict Evans

@BenedictEvans

 Follow

The user ID/password/login model that worked well for CS professors in the 1970s is not scaling well to billions of people online.



RETWEETS

93

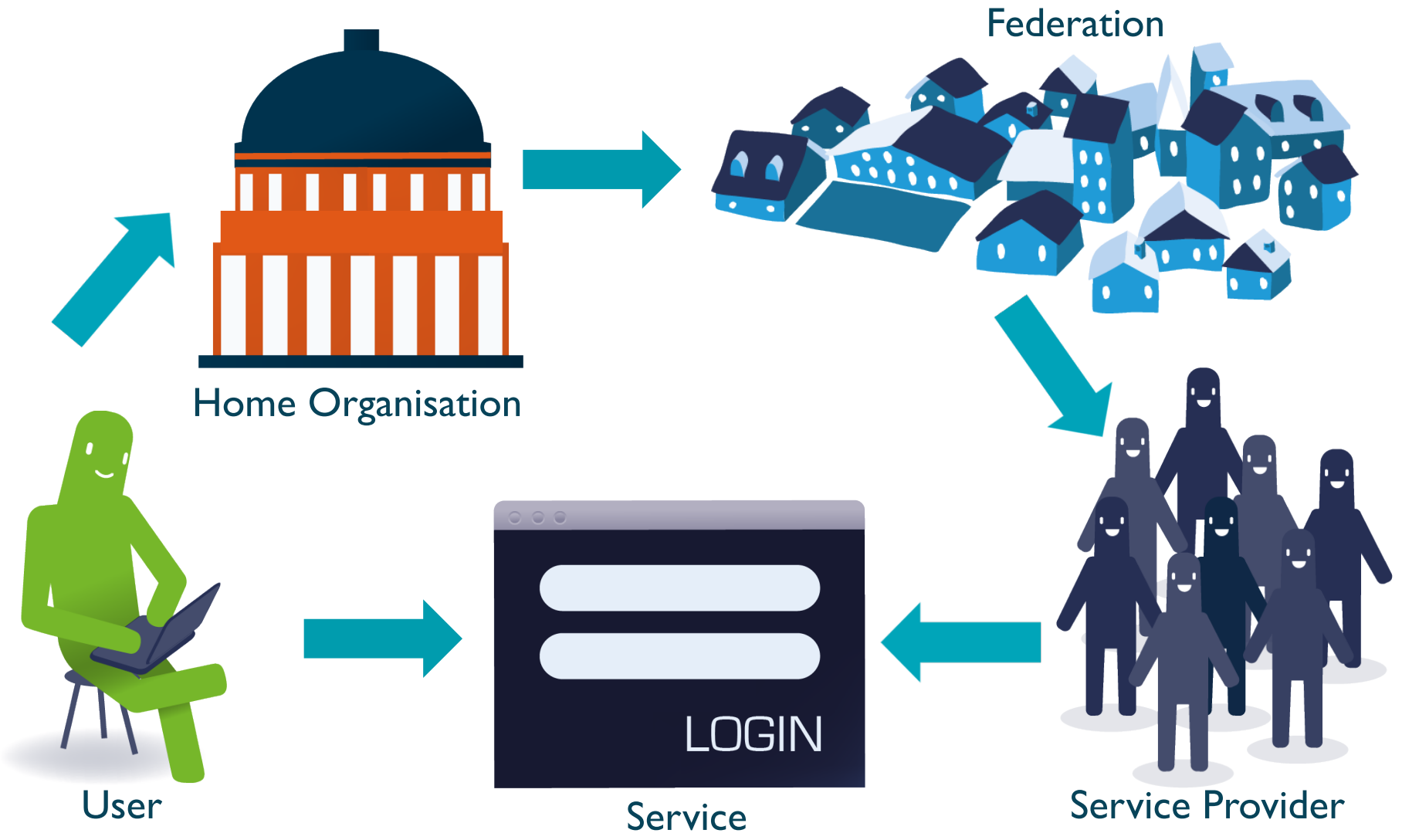
FAVORITES

98



6:33 PM - 22 Oct 2014

The Flow of Trust



eduroam

Open your laptop and be online



help@eduroam.org
join@eduroam.org



eduroam

Operating safe wireless access, scalably



eduroam Configuration Assistant Tool

https://cat.eduroam.org

Welcome to eduroam CAT

eduroam Configuration Assistant Tool

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Selected institution: **SWITCH** [select another](#)

If you encounter problems, then you can obtain direct assistance from your home organisation at:
email: noc@switch.ch
tel: +41442681530

Choose an installer to download

- MS Windows 8, 8.1
- MS Windows 7
- MS Windows Vista
- MS Windows XP SP3
- Apple Mac OS X Mavericks
- Apple Mac OS X Mountain Lion
- Apple Mac OS X Lion
- Apple iOS mobile devices
- Linux

eduroam CAT - Release CAT-1.0.4 © 2011-13 DANTE Ltd. on behalf of the GN3 and GN3plus consortia

DANTE European Commission Communications Networks, Content and Technology

Alex O'Connor
@uberalex

Just another word to say that @eduroam is awesome. Grateful for the normally-thankless work of probably 100s of admins in many places.

11:08 AM - 12 Mar 2014



eduroam

Open your laptop and be online ...anywhere?



Spaces
Hospitals
Schools
stations
Airports
Parks
Government
Public
Offices
Universities
Train

<https://wiki.terena.org/display/H2eduroam/Appendix+D+eduroam+along+with+commercial+hotspot+system>

eduroam

Open your laptop and be online ...anywhere!



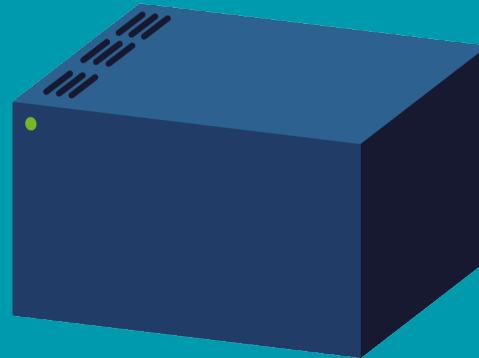
<https://wiki.terena.org/display/H2eduroam/How+to+deploy+and+promote+eduroam+for+events>

Building out eduroam – the basics



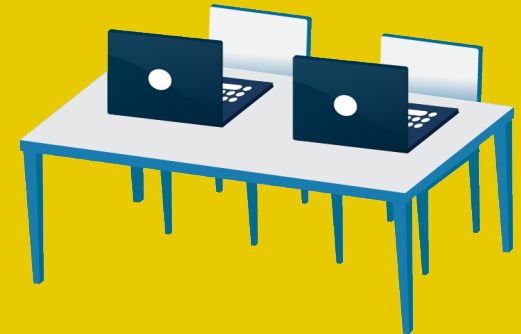
International

- International strategy & business case
- Offer Top Level Roaming Service (not essential)
 - 1-2 VMs, open source radius
 - Supporting services – e.g. cat.eduroam.org



National

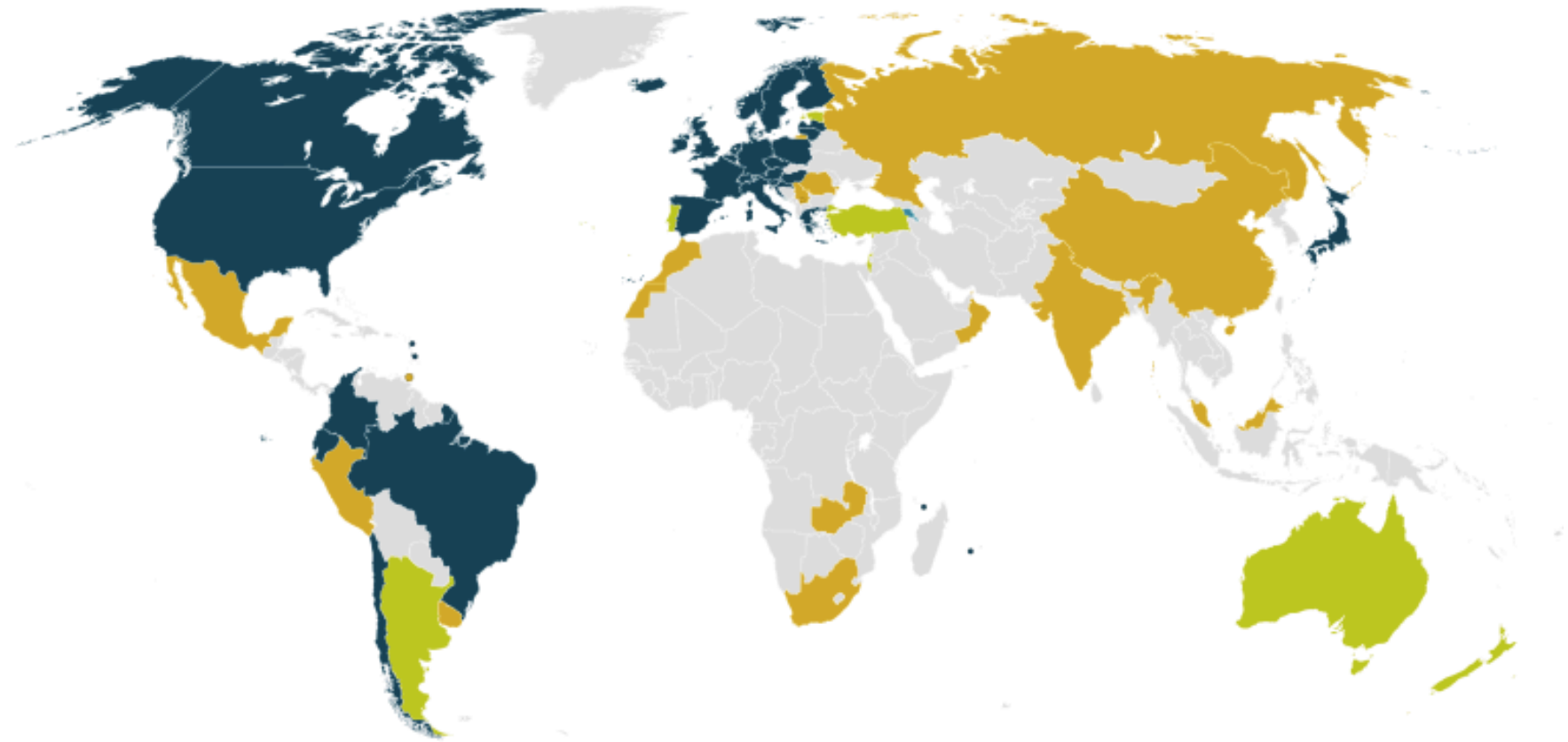
- National strategy & business case
- National roaming infrastructure
 - 1-2 VMs, free software
- Support and training
- Cookbooks available <https://wiki.terena.org/display/H2eduroam/How+to+deploy+eduroam+at+national+level>






Campus

- WIFI deployments
 - Service Provider deployment
- User management
 - Identity Provider deployment
- Cookbooks available <https://wiki.terena.org/display/H2eduroam/How+to+deploy+eduroam+on-site+or+on+campus>

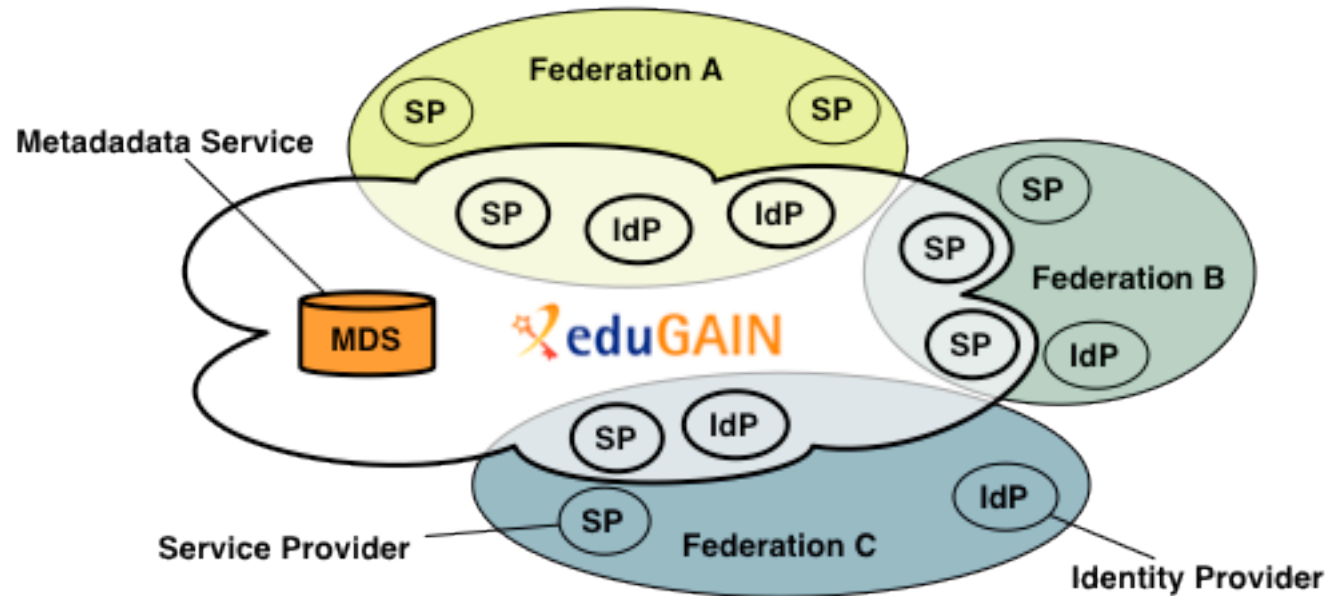
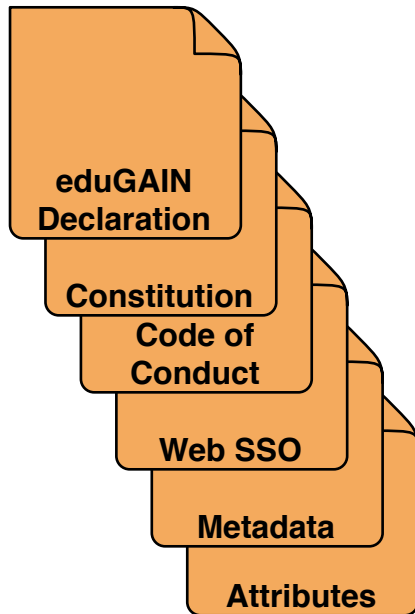
People and Skills



-  eduGAIN Members
-  Joining eduGAIN
-  Other federations

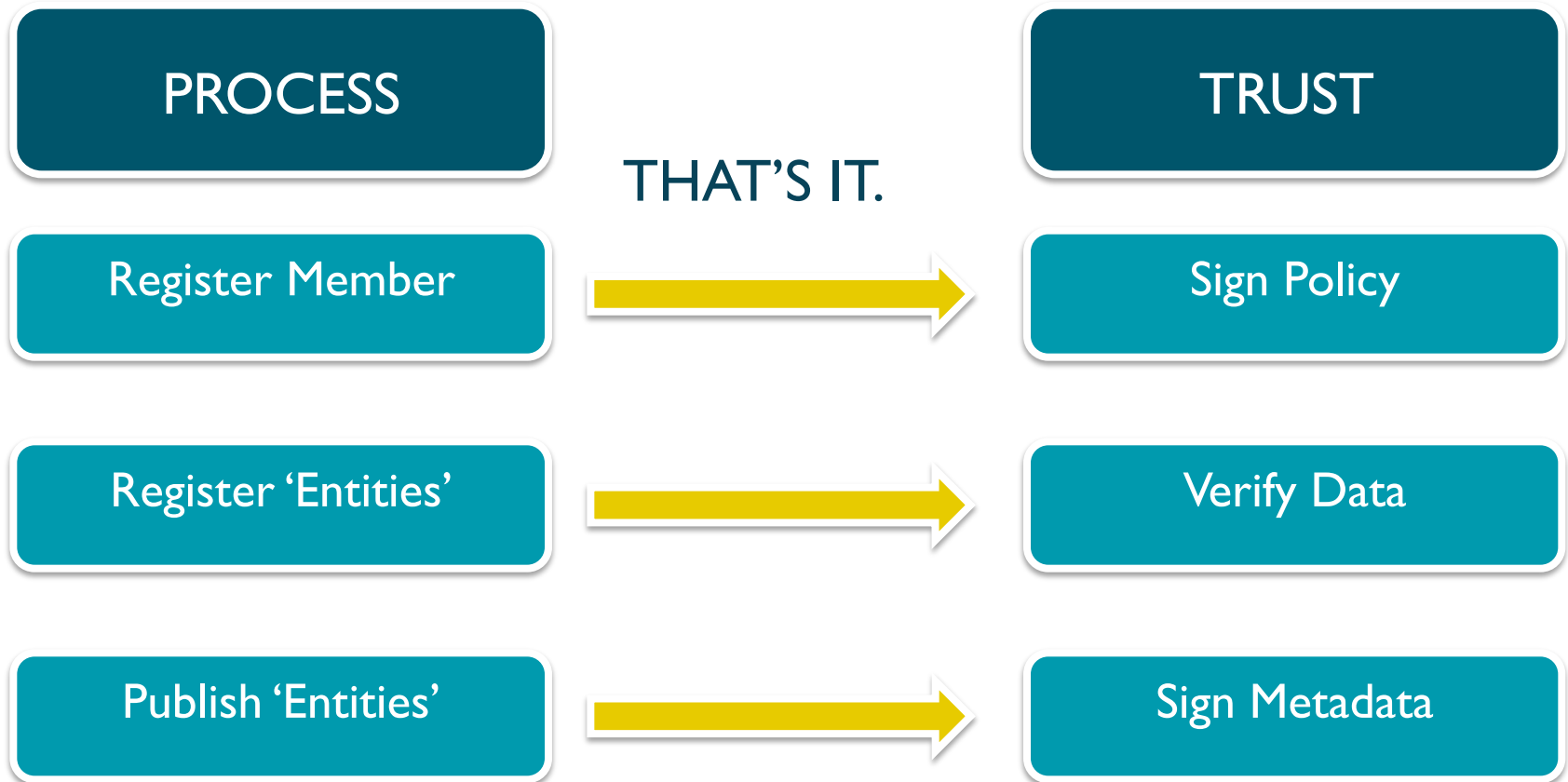


eduGAIN – a global inter federation service



MDS fetches, aggregates and republishes metadata
eduGAIN provides policy framework to build trust

How do federations build trust?



Federated Identity Benefits

The world of eduGAIN

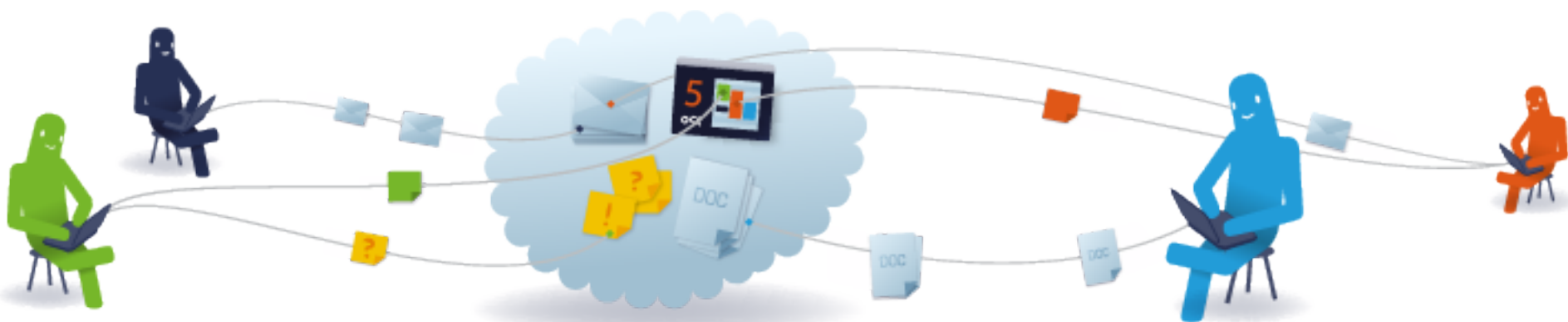


User Friendly

Reduces Work

Simplifies Adding Services

Provides Current Data



Insulation from service compromises

Minimize attack surface area

Federations

The Power of Collective Trust



Infrastructure to support collective service delivery

E-Learning platforms

Journals

Cloud providers

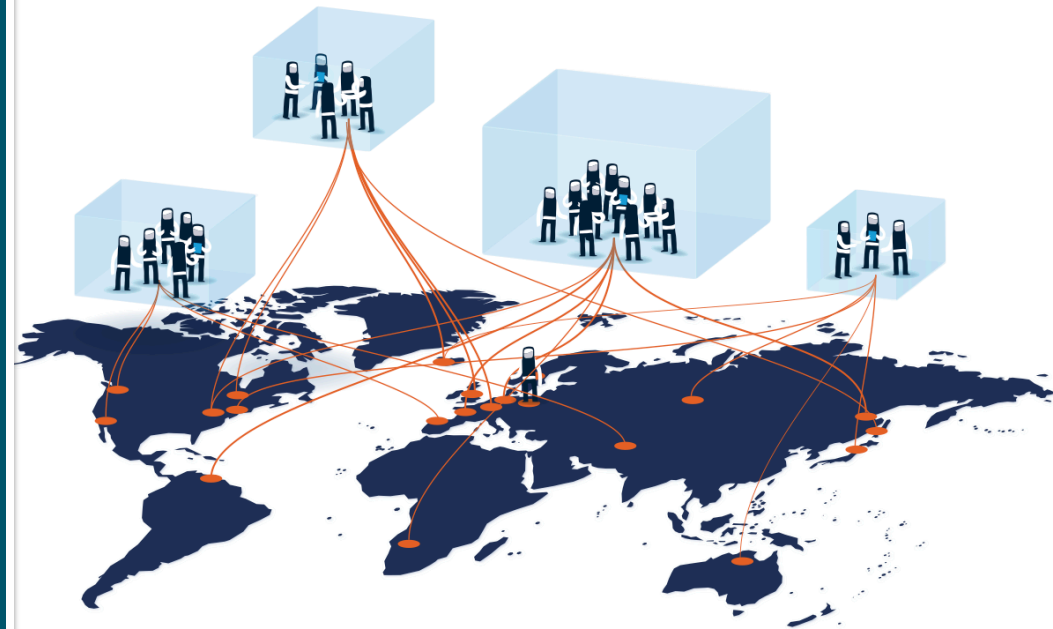
Infrastructure to maintain the privacy and integrity of users and citizens

Users are not the product

Infrastructure to reach out globally

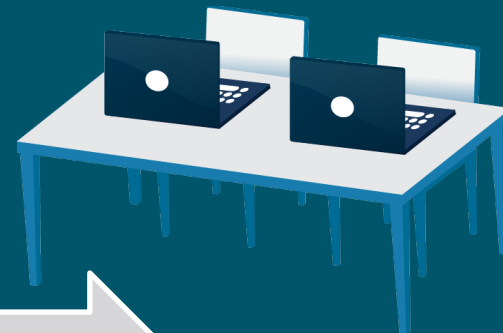
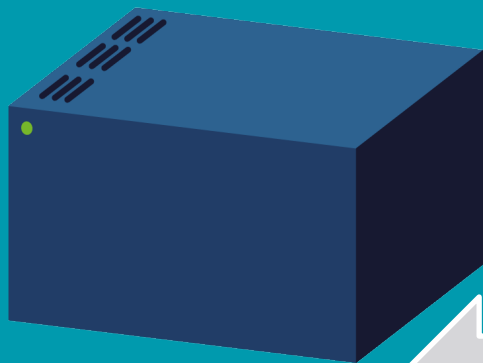
Bring users to global services

Bring services to global users



Federation development contact@refeds.org
eduGAIN & GÉANT edugain-ot@geant.net

Building out eduGAIN/Identity Federation – the basics



Strategy, People and Skills

National/International

- Develop & operate a federation policy
 - <http://www.terena.org/activities/eurocamp/oct12/slides/Identity%20Federation%20Policy%20Template%20v0.4.pdf>
- Operate infrastructure
 - 1-2 VMs, free software
 - GÉANT FaaS model
- Support and training
 - Campus & Service providers
- Join eduGAIN
 - https://www.edugain.org/technical/joining_checklist.php

Campus

- User management
 - Identity Provider deployment
 - Free software, shibboleth, simpleSAMLphp
- Support/require enabling services
 - Library Services
 - Campus services
 - Health
 - Journal providers

I am because we are.

...Ubuntu is not just a philosophy – it is a way of life that defines the relationship of the individual to the community and vice versa ...

- F F Tsubira