



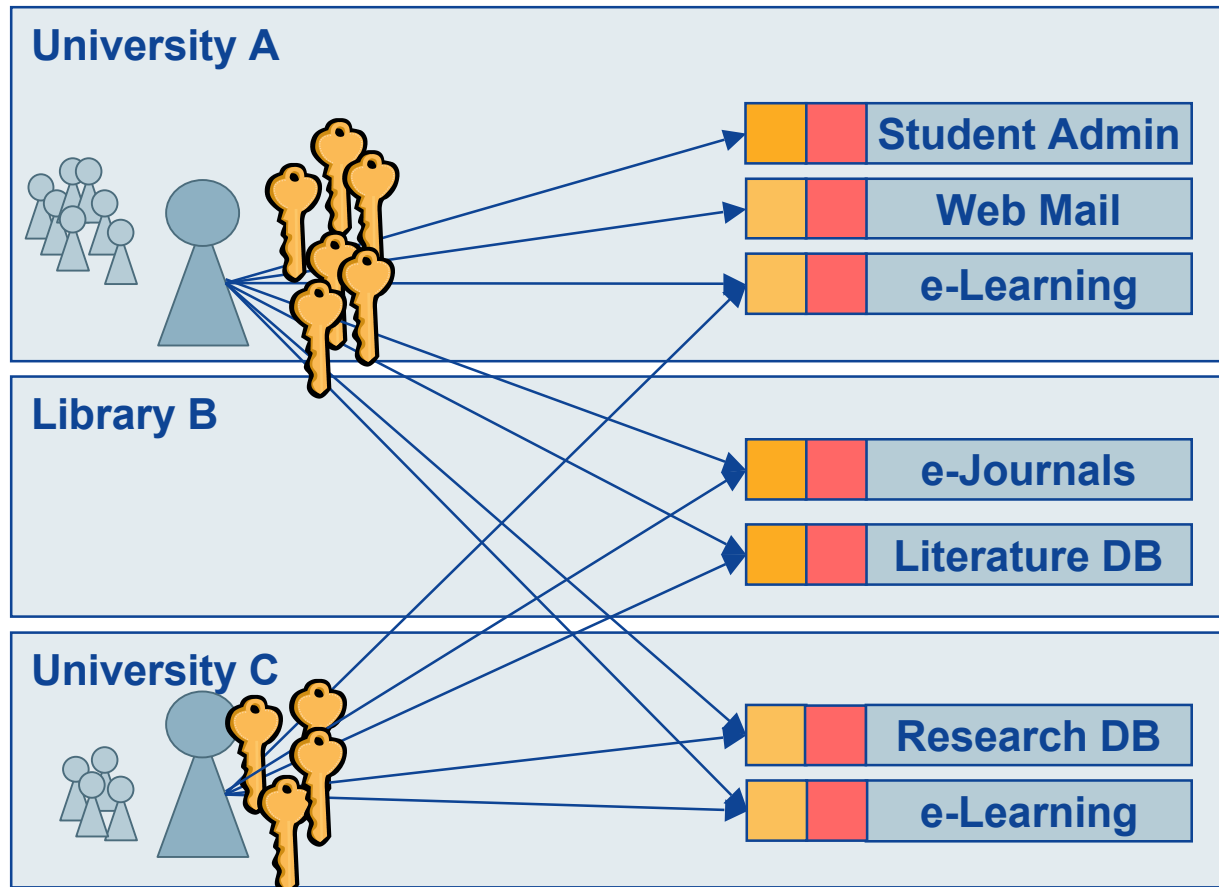
SWITCH

The Swiss Education & Research Network

Introduction to AAI

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Without AAI



- Tedious user registration at all resources
- Unreliable and outdated user data at resources
- Different login processes
- Many different passwords
- Many resources not protected due to difficulties
- Often IP-based authorization
- Costly implementation of inter-institutional access

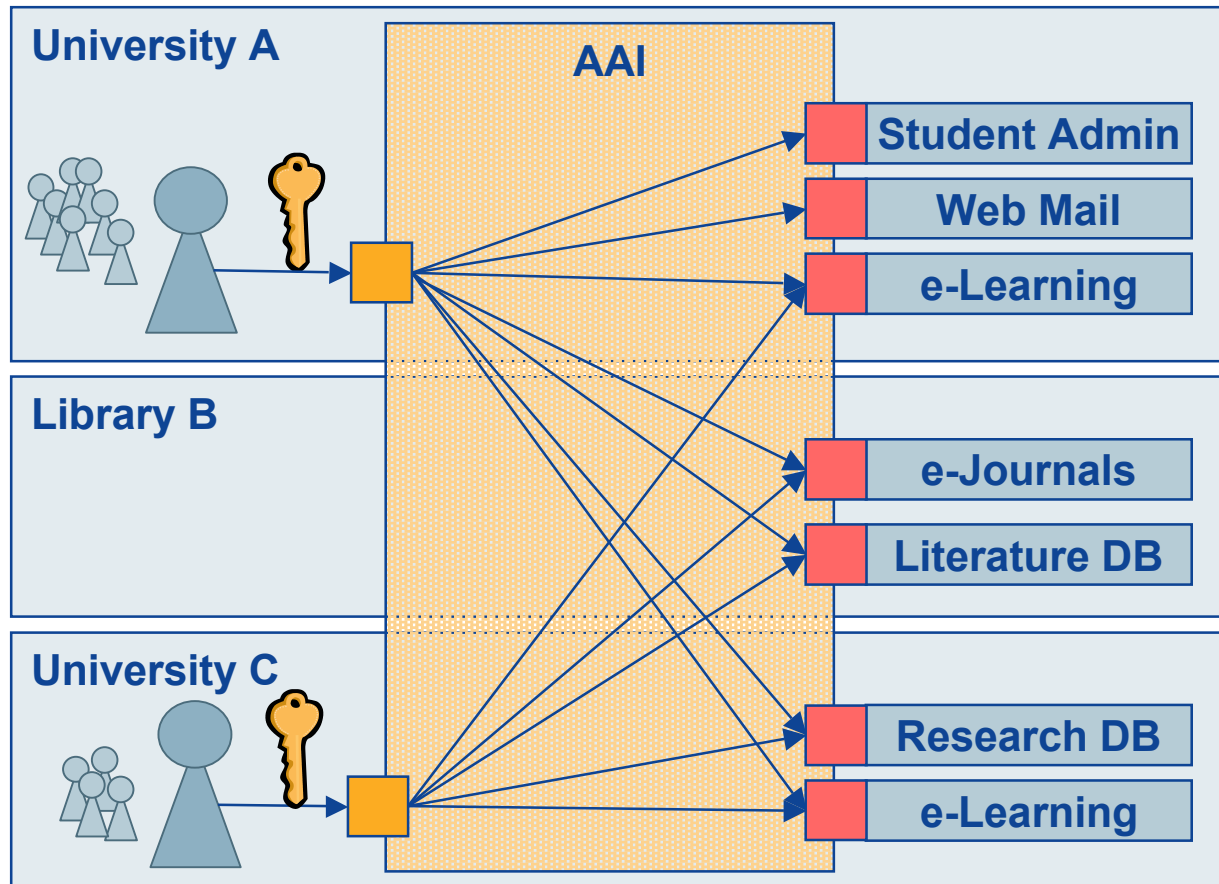
User Administration
Authentication

Authorization

Resource

 Credentials

With AAI



- No user registration and user data maintenance at resource needed
- Single login process for the users
- Many new resources available for the users
- Enlarged user communities for resources
- Authorization independent of location
- Efficient implementation of inter-institutional access

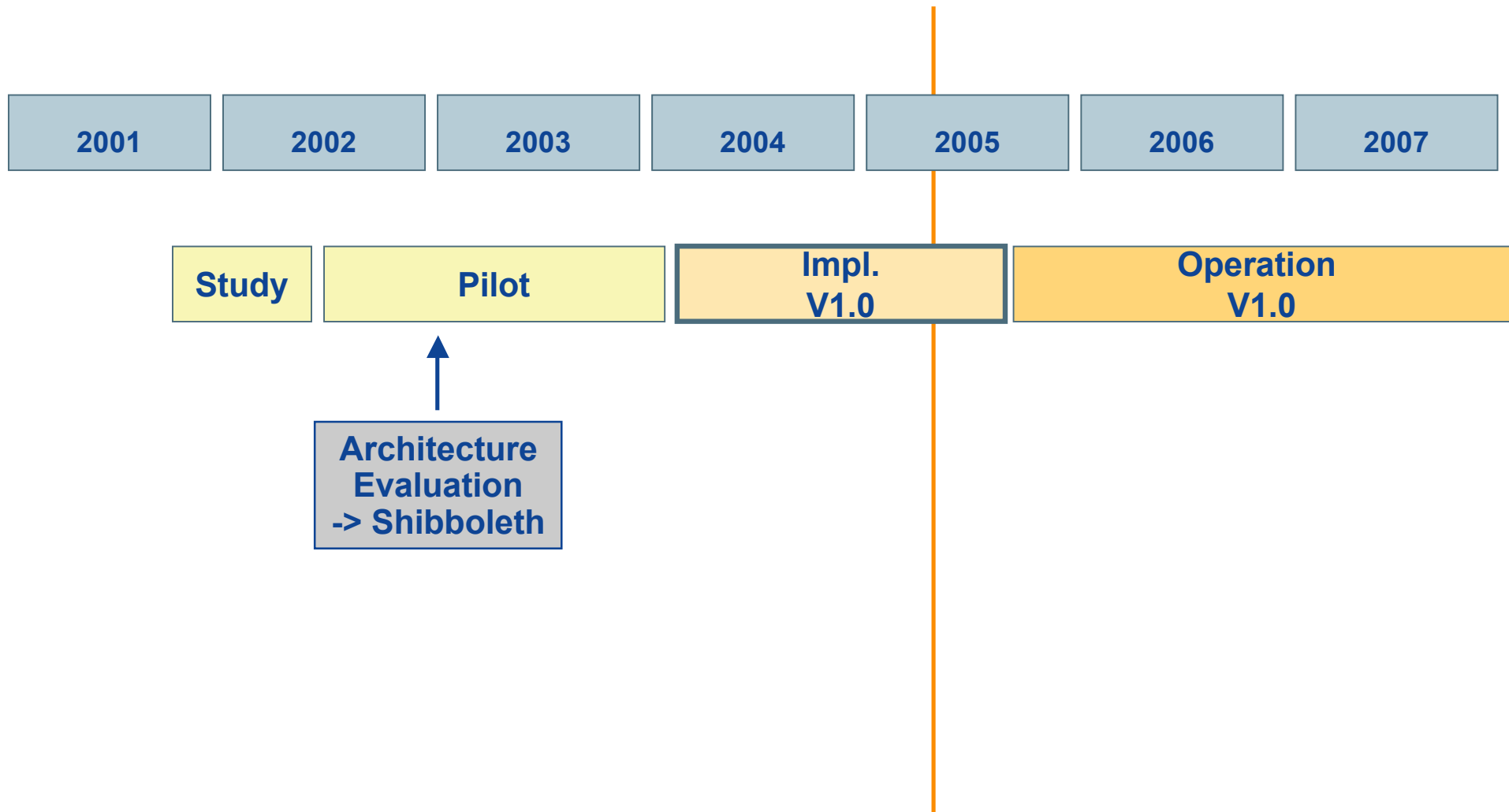
User Administration
Authentication

Authorization

Resource



SWITCH Hai Project Planning

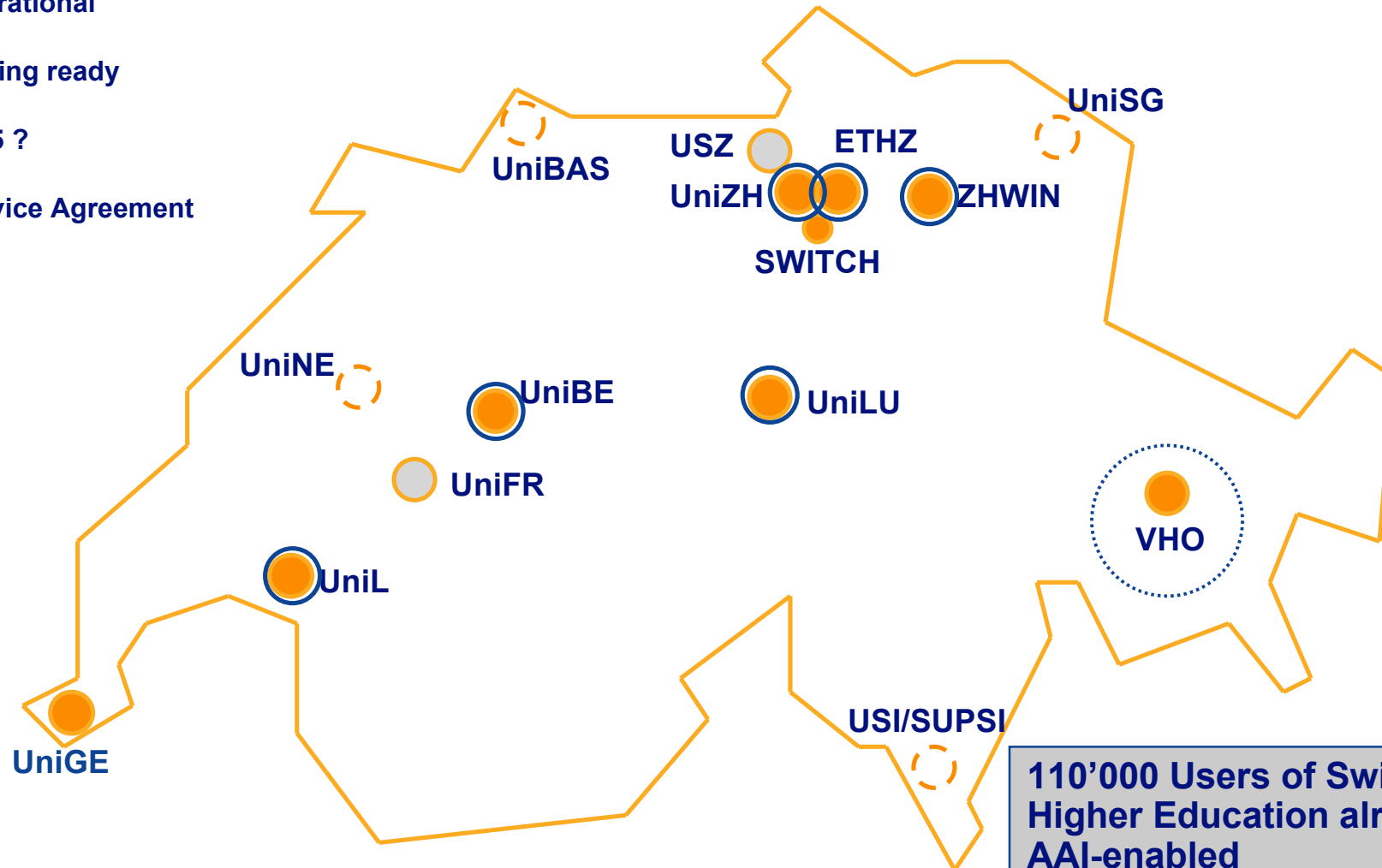


- ❑ **Open Source**
- ❑ **Developed by Internet2**
- ❑ **Federated Approach**
- ❑ **Privacy**
- ❑ **National deployment projects in the US, UK and Finland, growing interest in other European countries**
- ❑ **For web resources only - as a first step**
- ❑ **Based on SAML**
- ❑ **Cooperations with Liberty Alliance**
- ❑ **Cooperations with Content Providers (e-journals)**

<http://shibboleth.internet2.edu/>

AAI Home Organizations

- Operational
- Getting ready
- 2005 ?
- Service Agreement



110'000 Users of Swiss Higher Education already are AAI-enabled (= 50% of all users)

<http://www.switch.ch/pki/import.html>

Internet Explorer (Windows)

- Click on Certificate
- Open
- Install Certificate
- Defaults OK

Safari (für OS 10.3 Panther)

- Download Certificate
- Doubleclick on File
- X509 Anchors
- Keychain Password = Administrator Password
- Keychain Access -> Quit Keychain Access

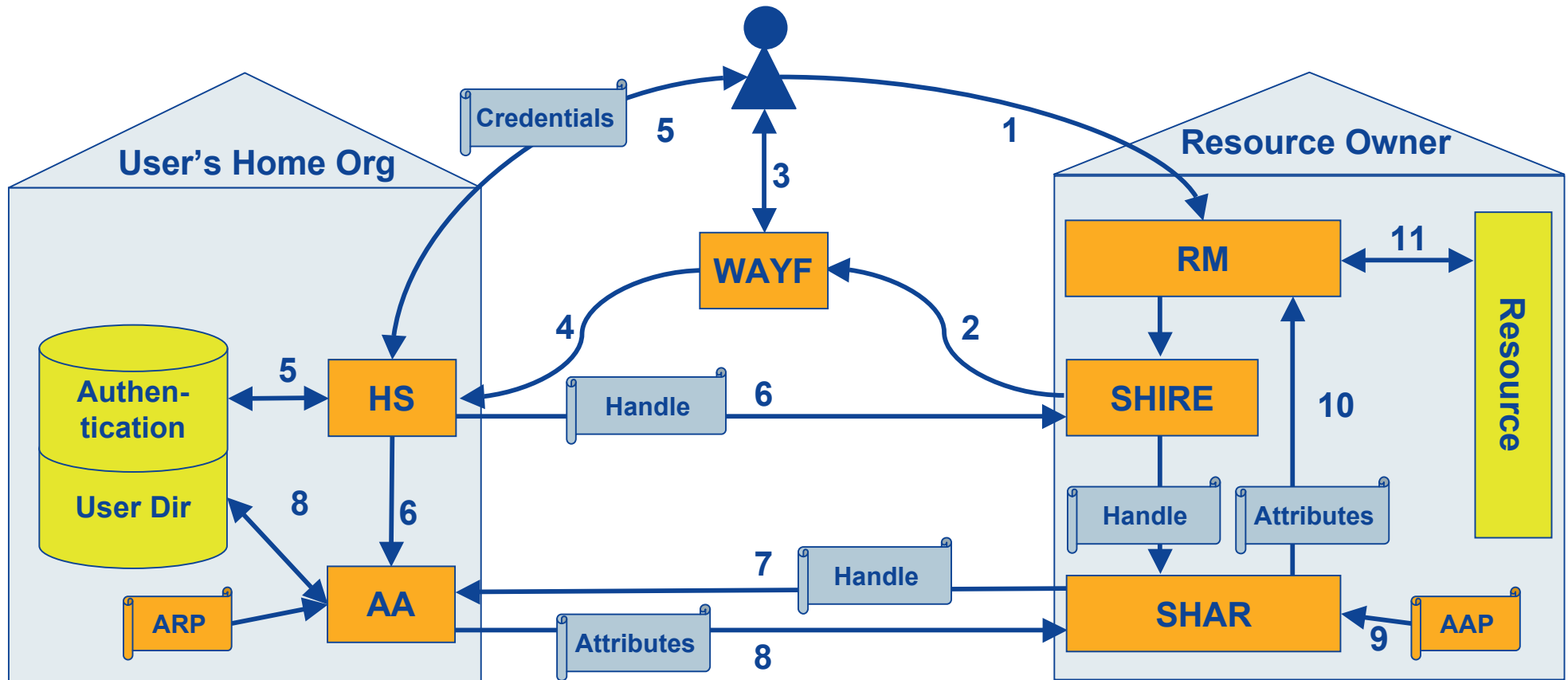
□ <http://www.switch.ch/aai>

-> Live Demo

-> demo resource

[**https://kohala.switch.ch/secure**](https://kohala.switch.ch/secure)

Shibboleth Process: The Details



HS Handle Server
AA Attribute Authority

WAYF 'Where Are You From'-Server

RM Resource Manager
SHIRE Shibboleth Indexical Reference Establisher
SHAR Shibboleth Attribute Requestor

 Shibboleth AAI Components

e-Learning

OLAT Vista@SVC
WebCT@ETHZ **VITELS**
DOIT ILIAS BSCW
Moodle
AD Learn & Co Blackboard

Bibliotheken

EZproxy
ScienceDirect
...

Andere Web-Anwendungen

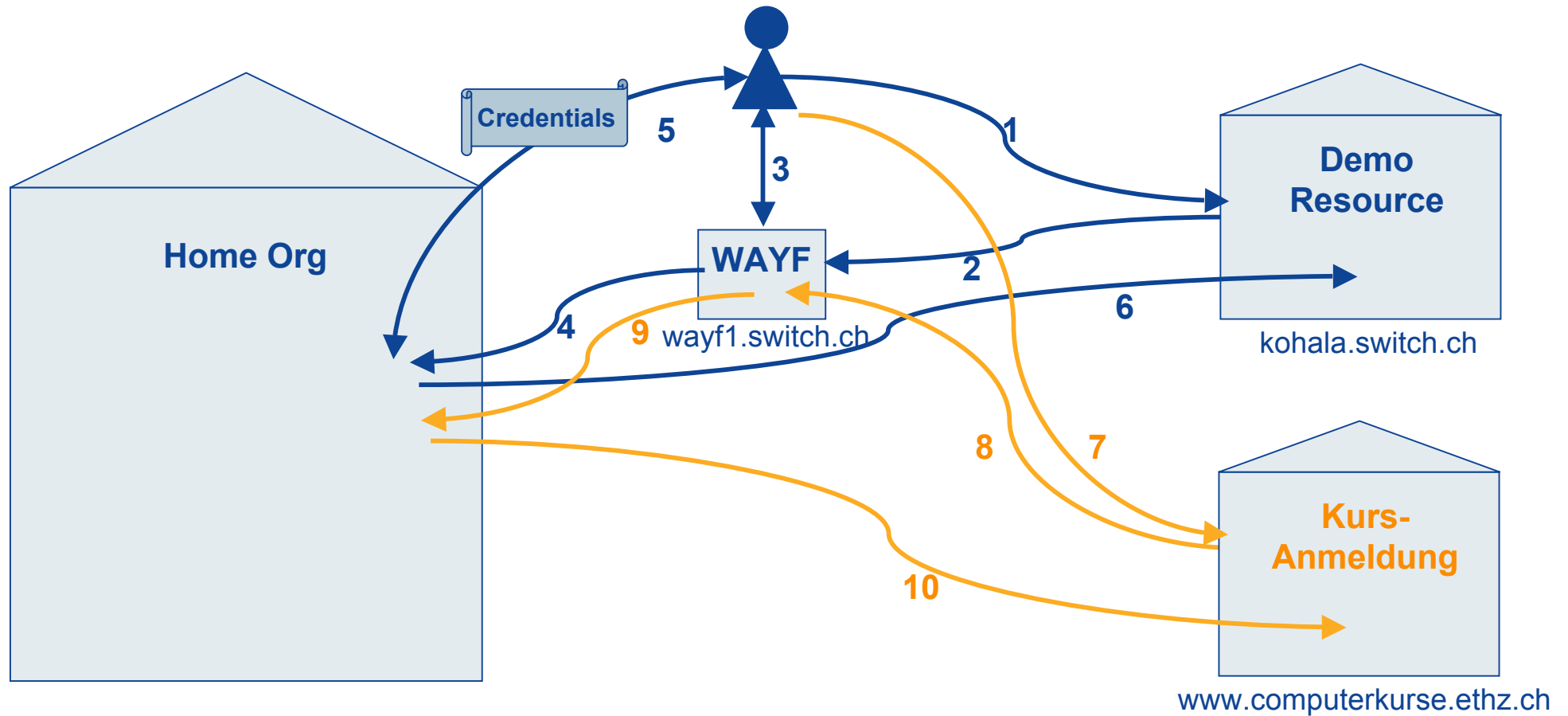
CompiCampus
Vconf TWiki
SMS-Gateway
Jobs@BWI IS-Academia

Kommerzielle Inhalte

SwissLex
eShops

**ca. 50 Shibbolized Hosts,
ca. 10'000 Users**

Single Sign On



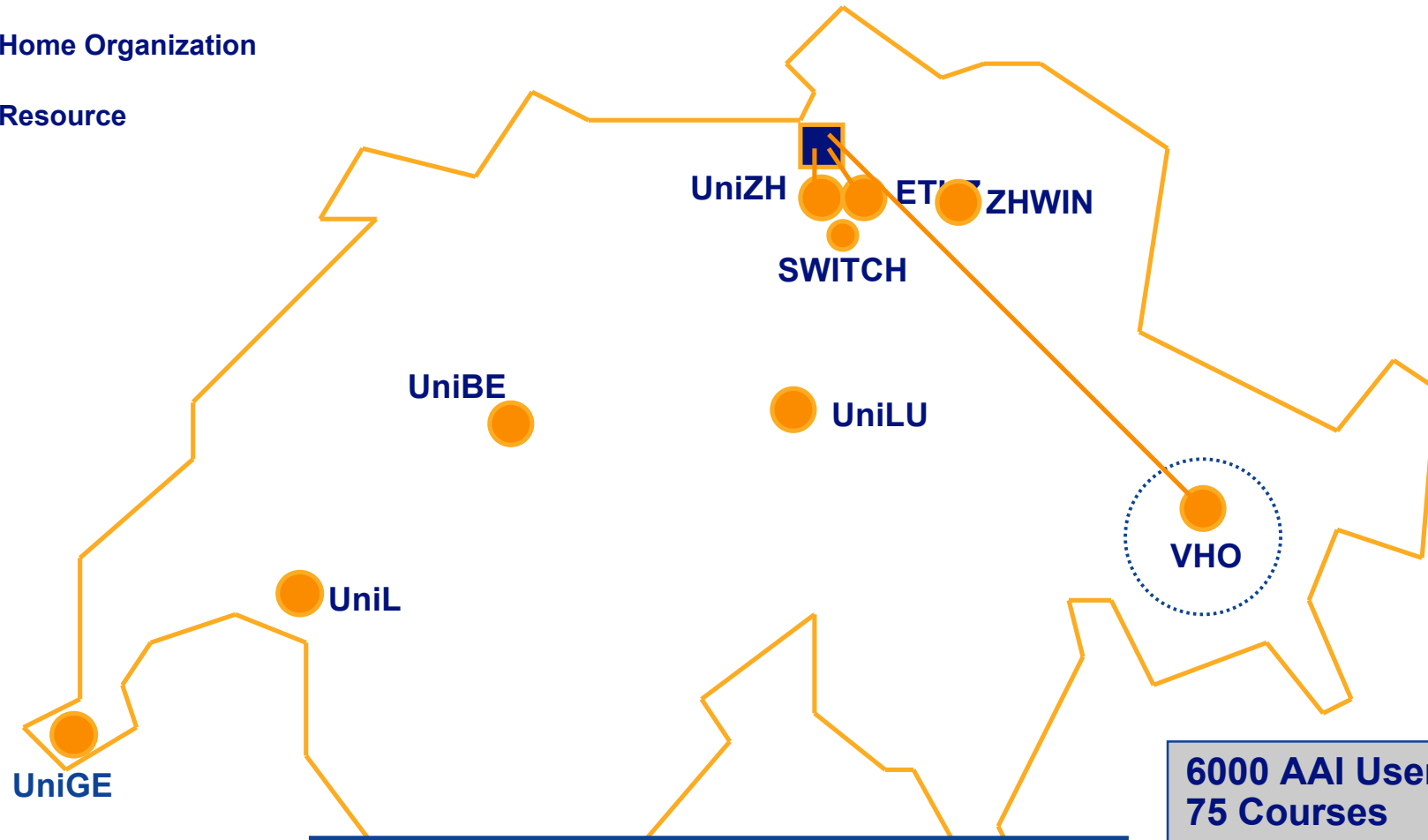
<http://www.computerkurse.ethz.ch/>

Showcase: OLAT

OLAT: Online Learning and Training (open source e-learning platform of the University of Zurich)

● AAI Home Organization

■ AAI Resource



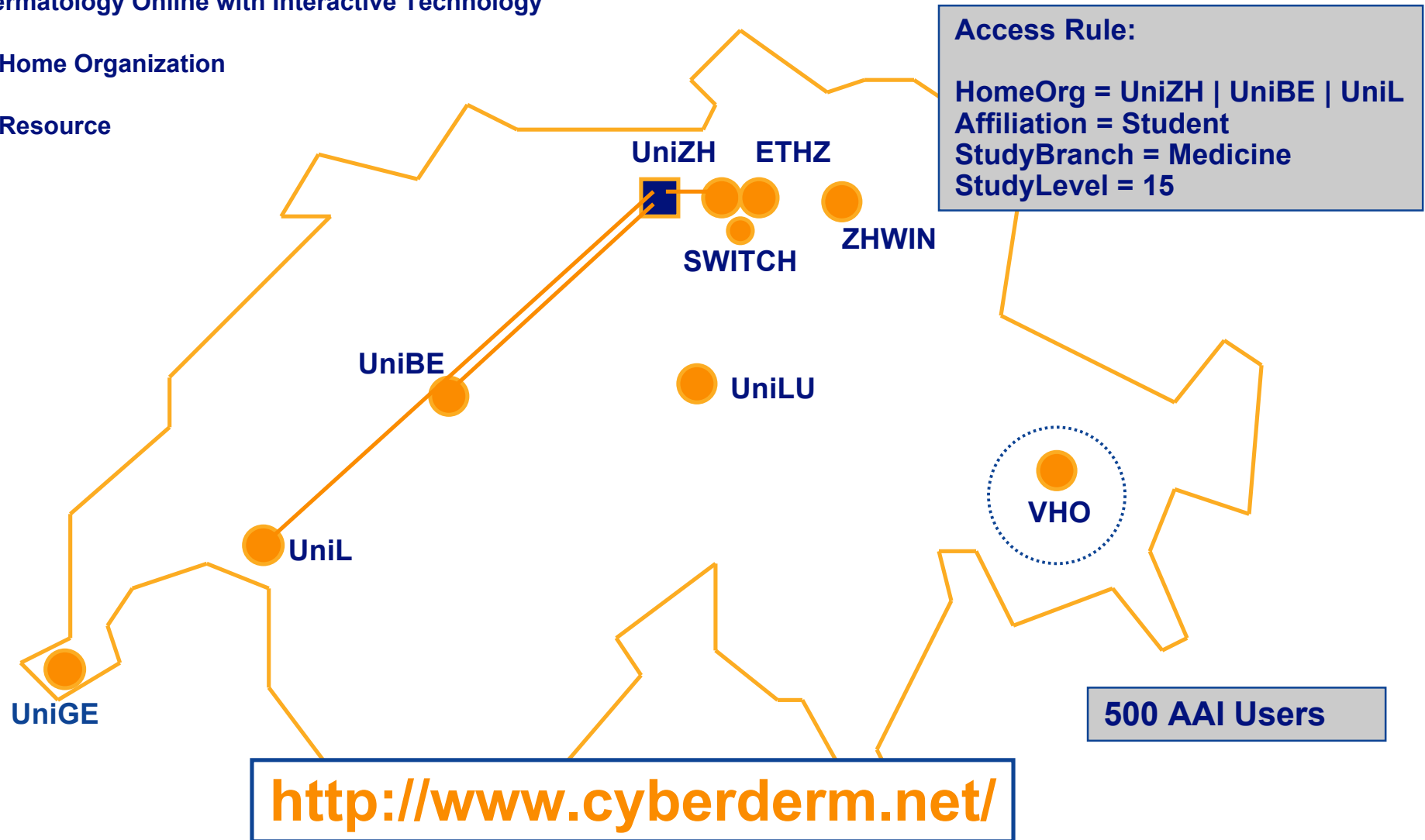
<http://www.olat.unizh.ch/>

Showcase: DOIT

DOIT: Dermatology Online with Interactive Technology

● AAI Home Organization

■ AAI Resource

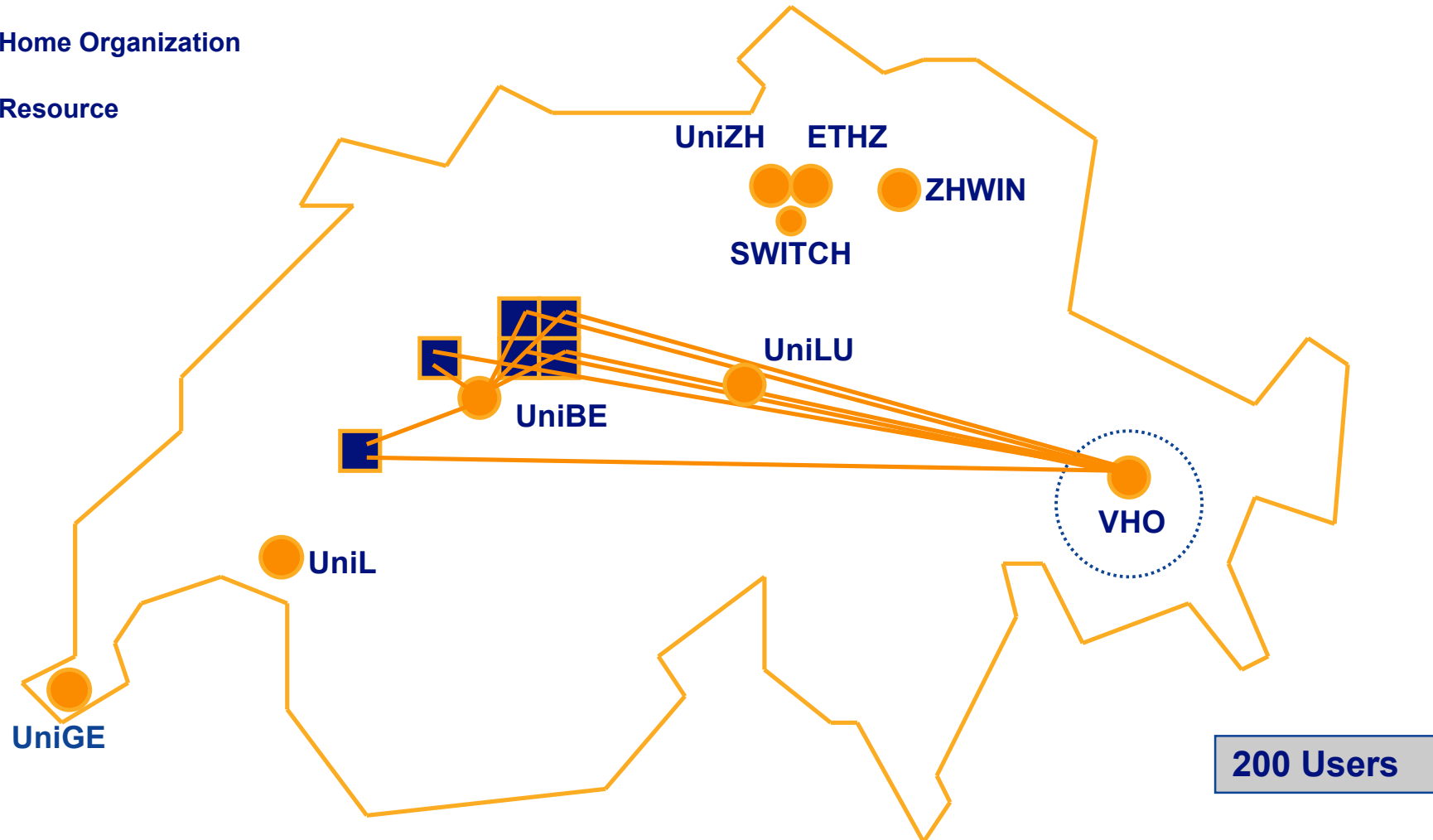


Showcase VITELS

VITELS: Virtual Internet and Telecommunications Laboratory of Switzerland

● AAI Home Organization

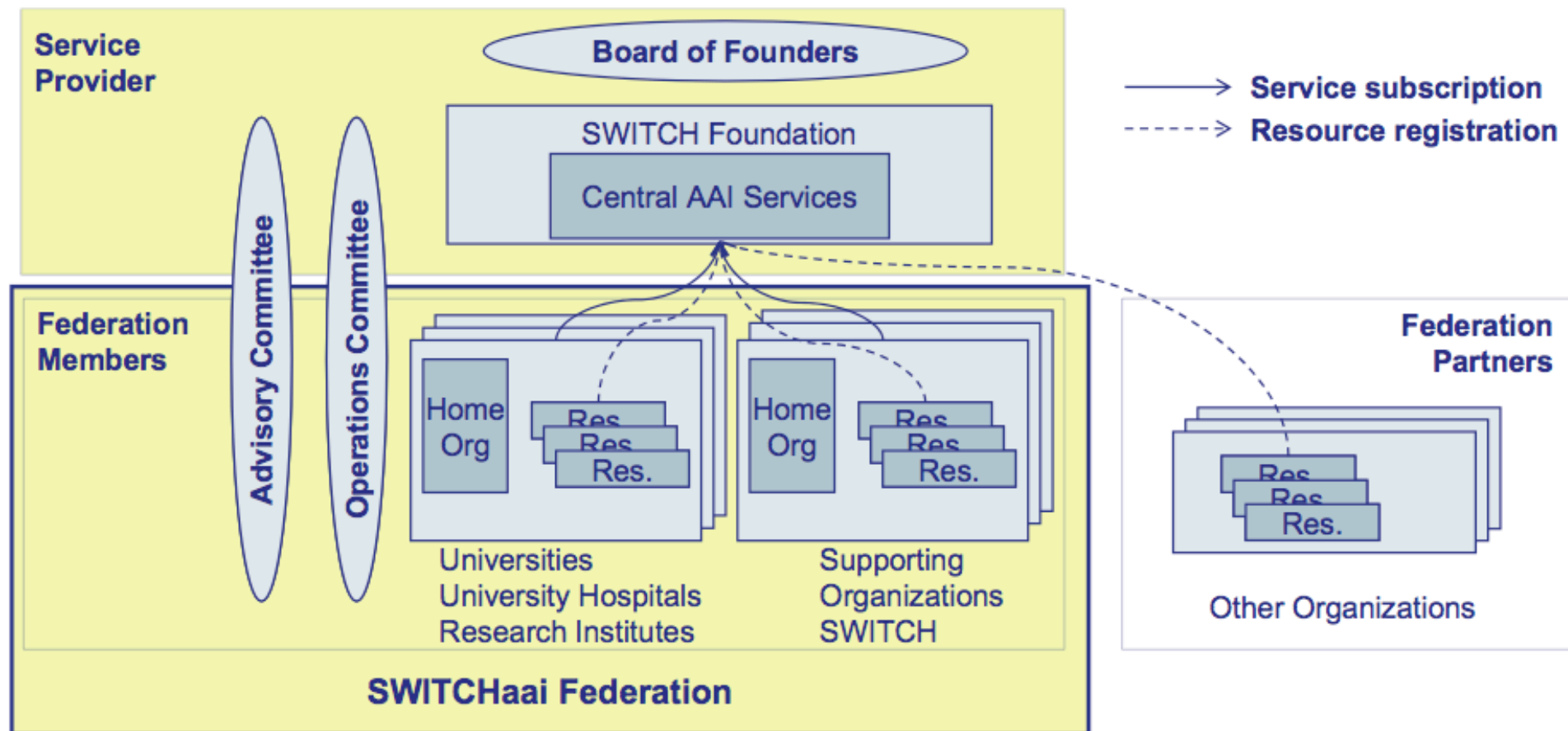
■ AAI Resource

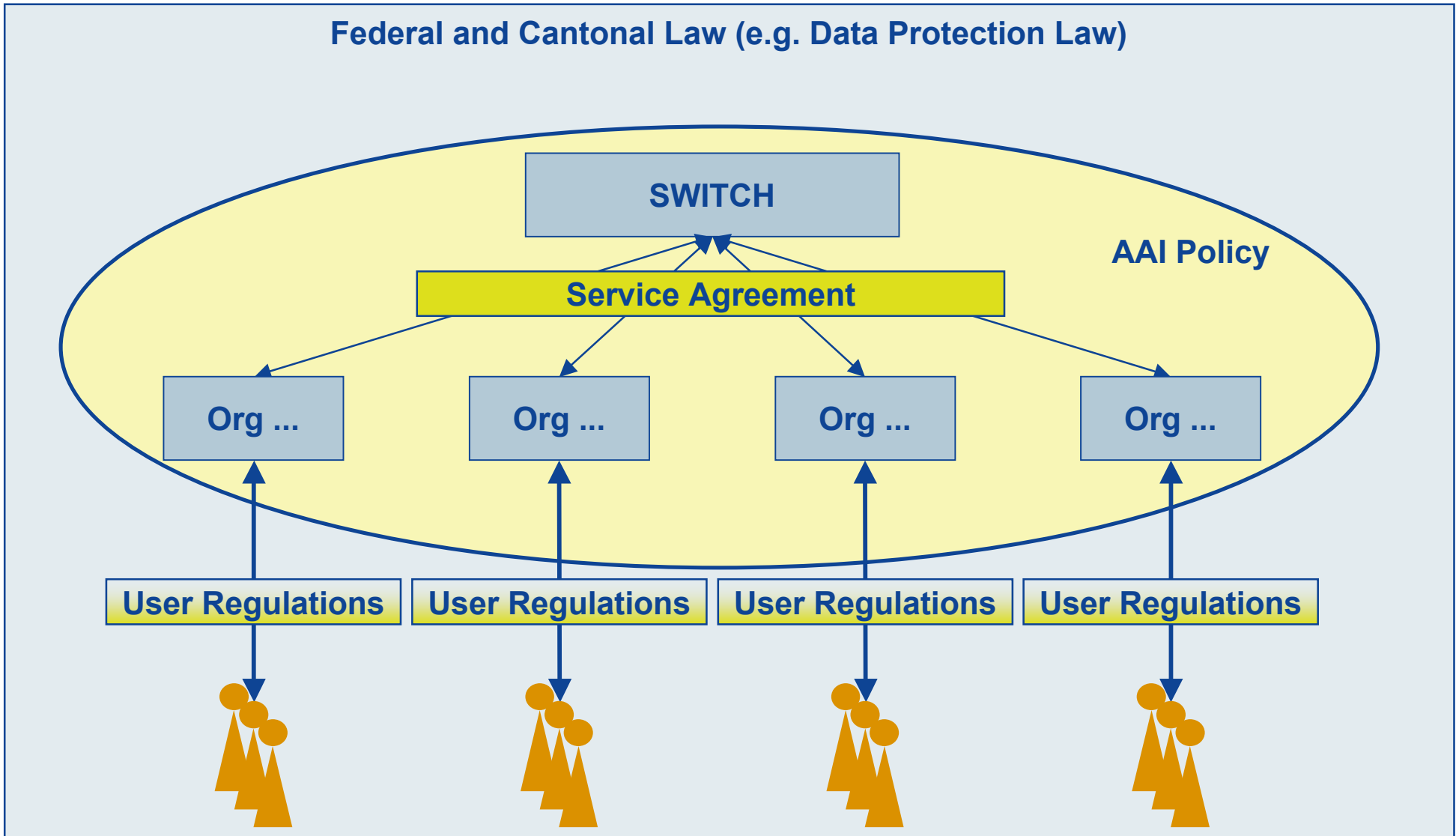


SWITCHhai Federation

SWITCH acts as federation service provider

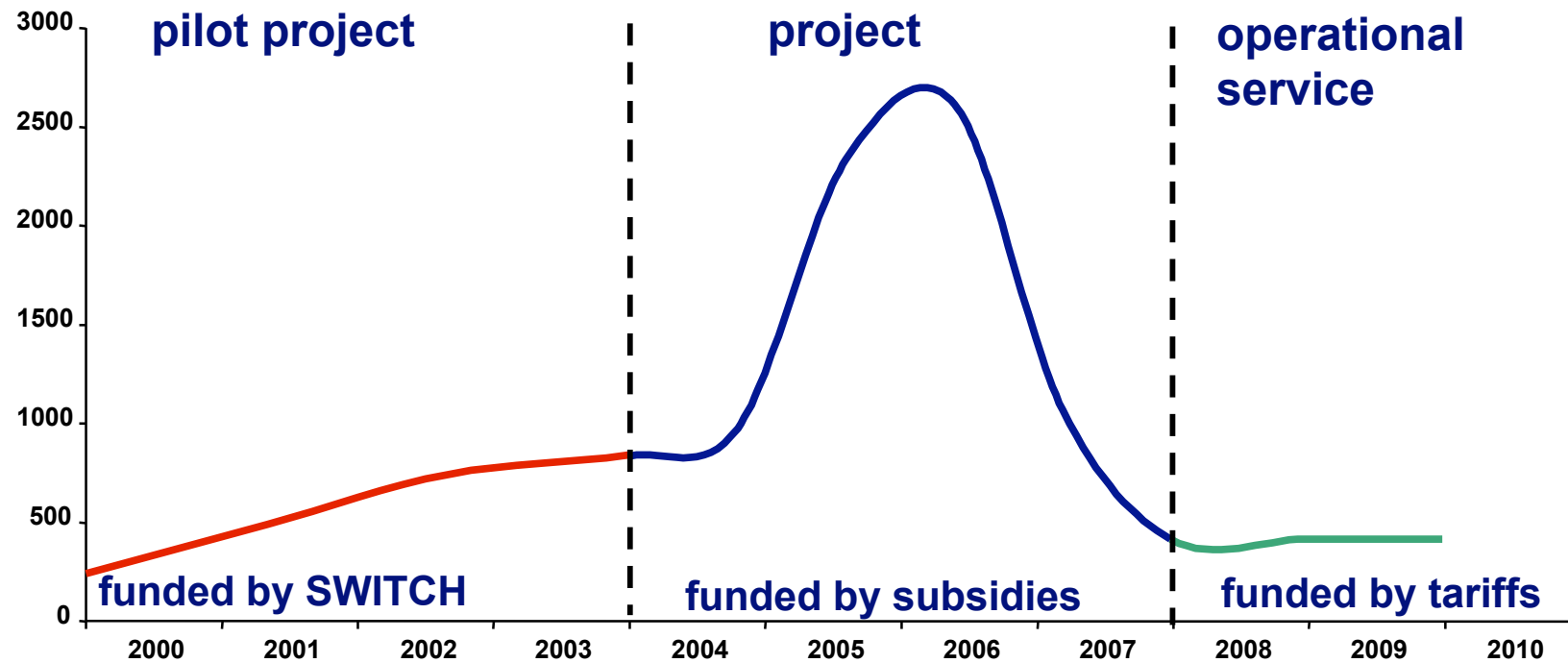
Federation membership based on signed service agreements





- ❑ **Strategy & Marketing**
- ❑ **International Contacts**
- ❑ **Support, Consulting, Training**
- ❑ **Providing Federation-specific Files and Configuration Guides**
- ❑ **Operating WAYF (Where Are You From Server)**
- ❑ **Test-HomeOrg and Test-Resource**
- ❑ **Tools (AAIportal, AAIproxy)**
- ❑ **Virtual Home Organization**
- ❑ **Jump Start Service**

funding / costs
in KCHF



❑ SWITCHaai Website:

<http://www.switch.ch/aai>

❑ Shibboleth:

<http://shibboleth.internet2.edu/>

❑ Shibboleth Demo:

<http://www.switch.ch/aai/demo>

❑ Attribute Specification:

http://www.switch.ch/aai/docs/AAI_Attr_Specs.pdf

Q & A

<http://www.switch.ch/aai>

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