

The “Swiss edu-ID”

The persistent Swiss academic digital identity



SWITCH

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AAI/Swiss edu-ID Info Day, University of Berne, 13.8.2014

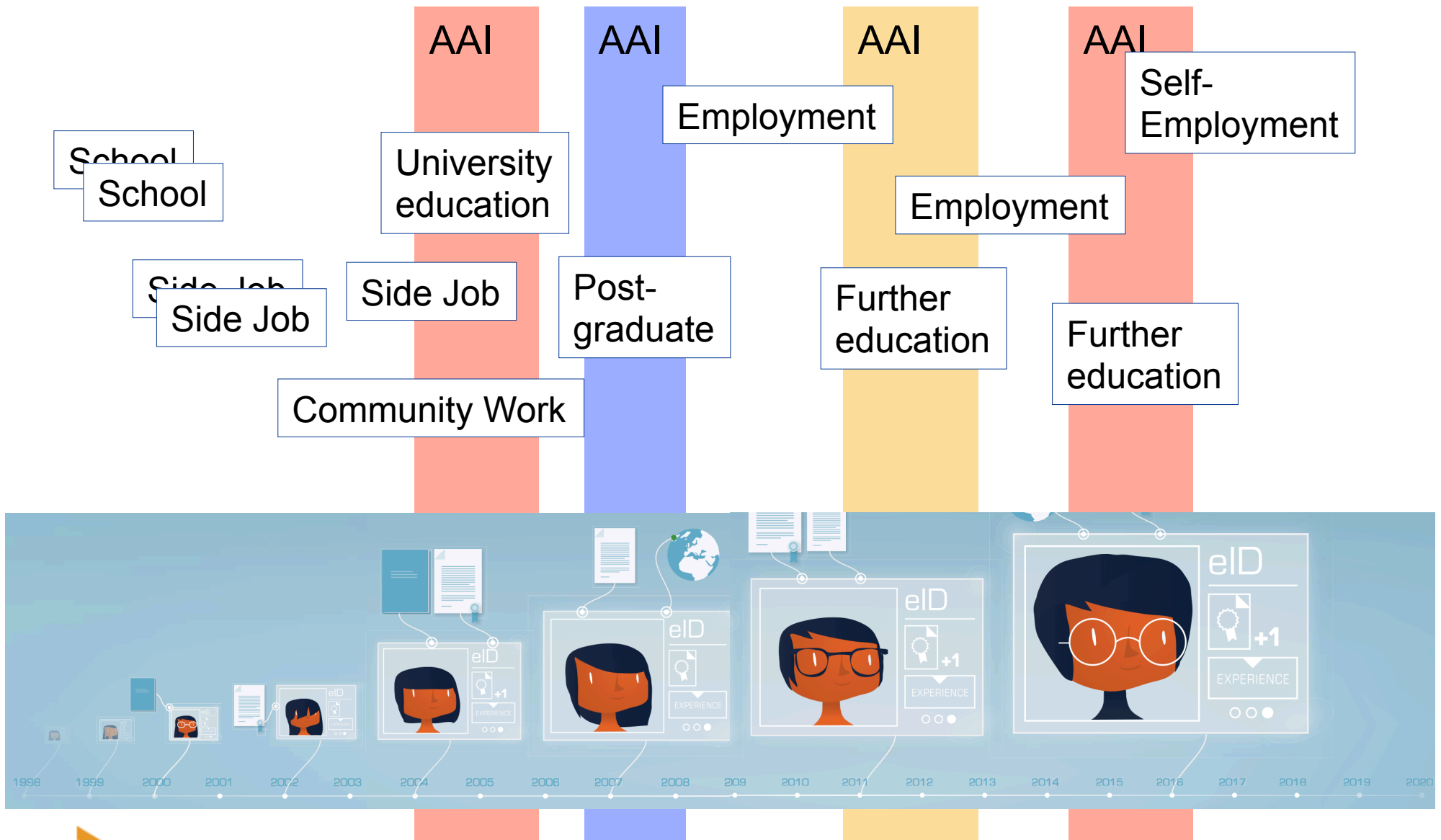
Outline

- About the Swiss edu-ID (Christoph Graf)
 - Motivation, use cases
 - Basic concepts
 - Architecture
 - Benefits for users and institutions

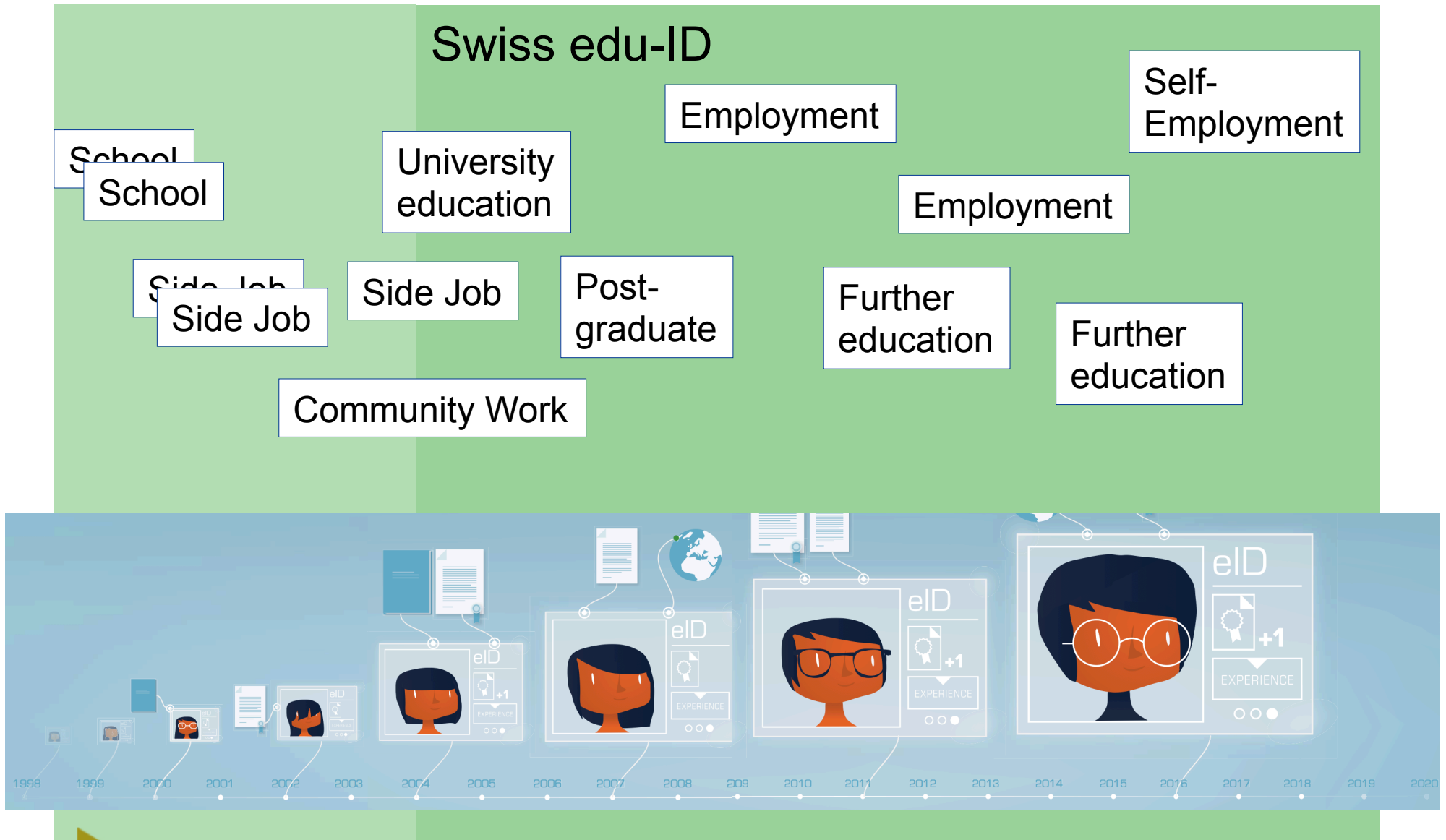
(Short bio-break)

- Roadmap (Rolf Brugger)
- Working Groups (Petra Kauer-Ott)

Identity Management today...



... Identity Management tomorrow



Identity Management @ CUS P-2

- Use cases collected in spring '13, conclusions Aug '13:
Prominent role of identity management confirmed
- Sub-strategy groups deliver by 11 Oct '13:
“Identity Management” group proposes the “Swiss edu-ID”
- Project submission “Swiss edu-ID” by 10 March '14:
Implementing the first year of the sub-strategy’s roadmap
- Conditional approval in April, final P-2 approval received June '14:
Swiss edu-ID is the first project of the first call receiving green light
- High-level architecture document released July '14:
Further refining and detailing the sub-strategy, see
<http://www.switch.ch/export/sites/default/uni/projects/eduid/documents/SwissEduIDArchitecture.pdf>

“Swiss edu-ID” project brief

Proposed runtime:

- 1 May '14 – 30 June '15

Funded Partners:

- SWITCH

Unfunded partners:

- participants in community task forces

Funding:

- efforts total: 950kCHF
- P-2 contribution: 475kCHF
- Main expenditure class: 80% staff

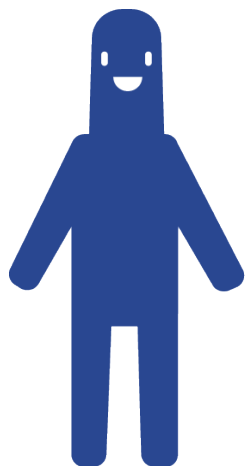
Project status

SWITCH started the first two action items before knowing the outcome of the call:

- “Attribute specification”:
 - Task force formed and first meeting held 9 April ‘14
 - Proposal based on input being finalised
- “High level architecture”:
 - together with (extended) sub-strategy authors
 - > see next slides

Scoping the Swiss edu-ID

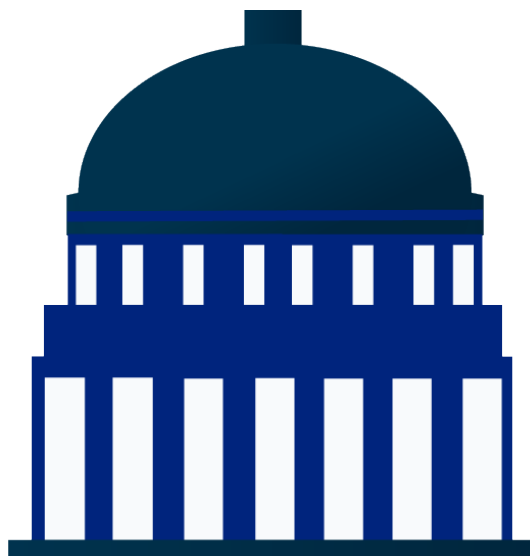
Person
Identity



Group
Identity



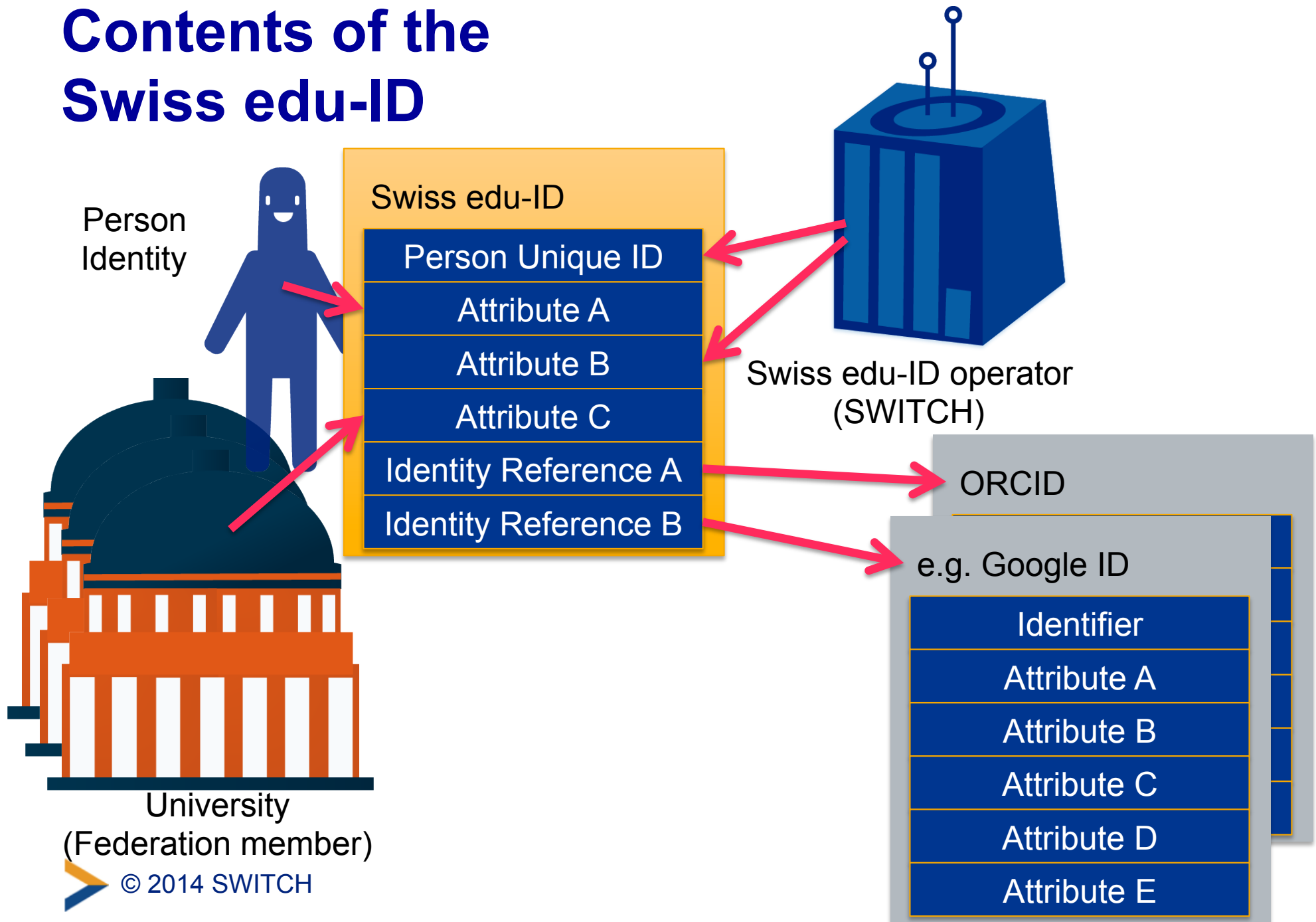
Organisation
Identity



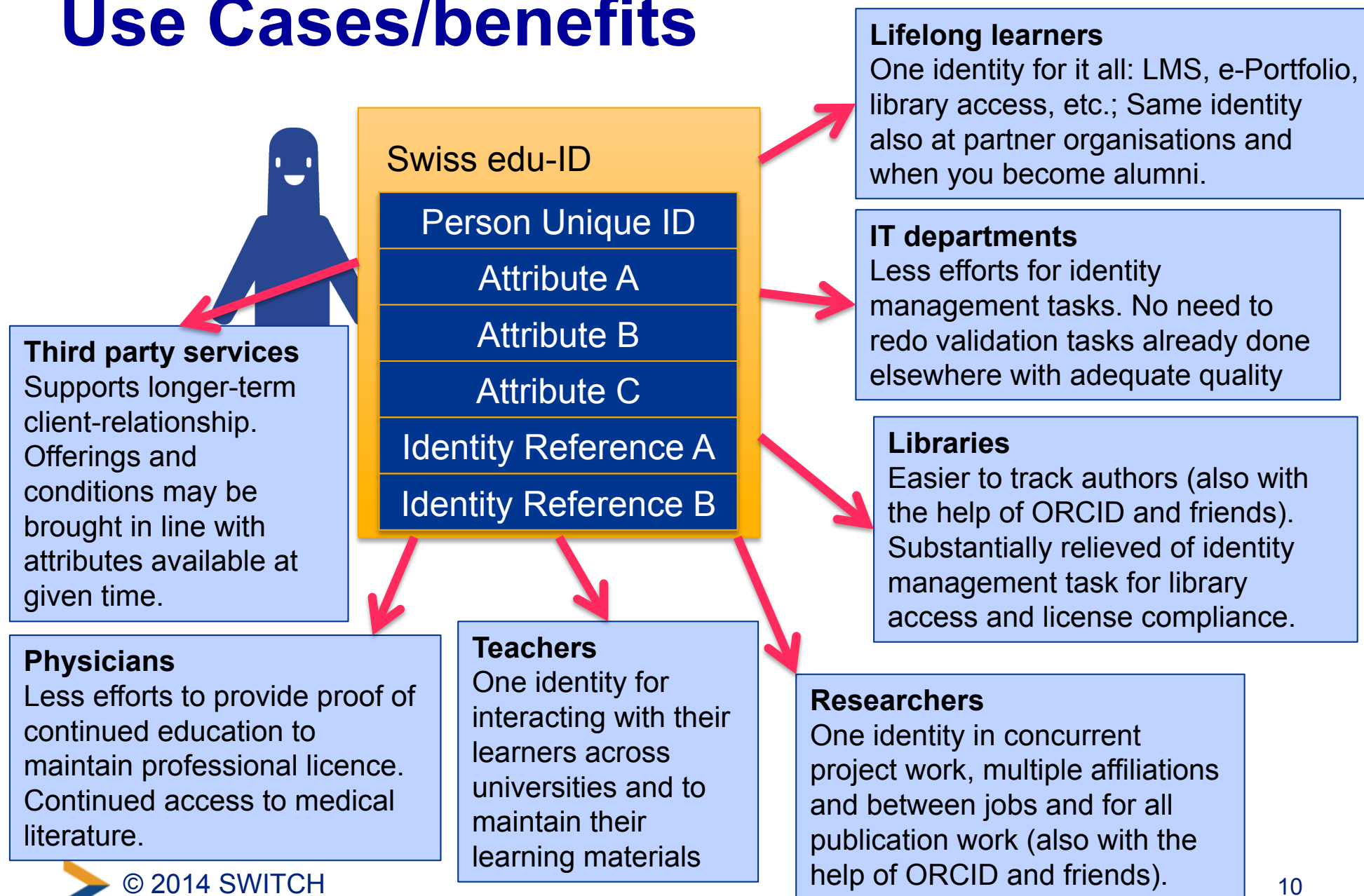
Thing
Identity



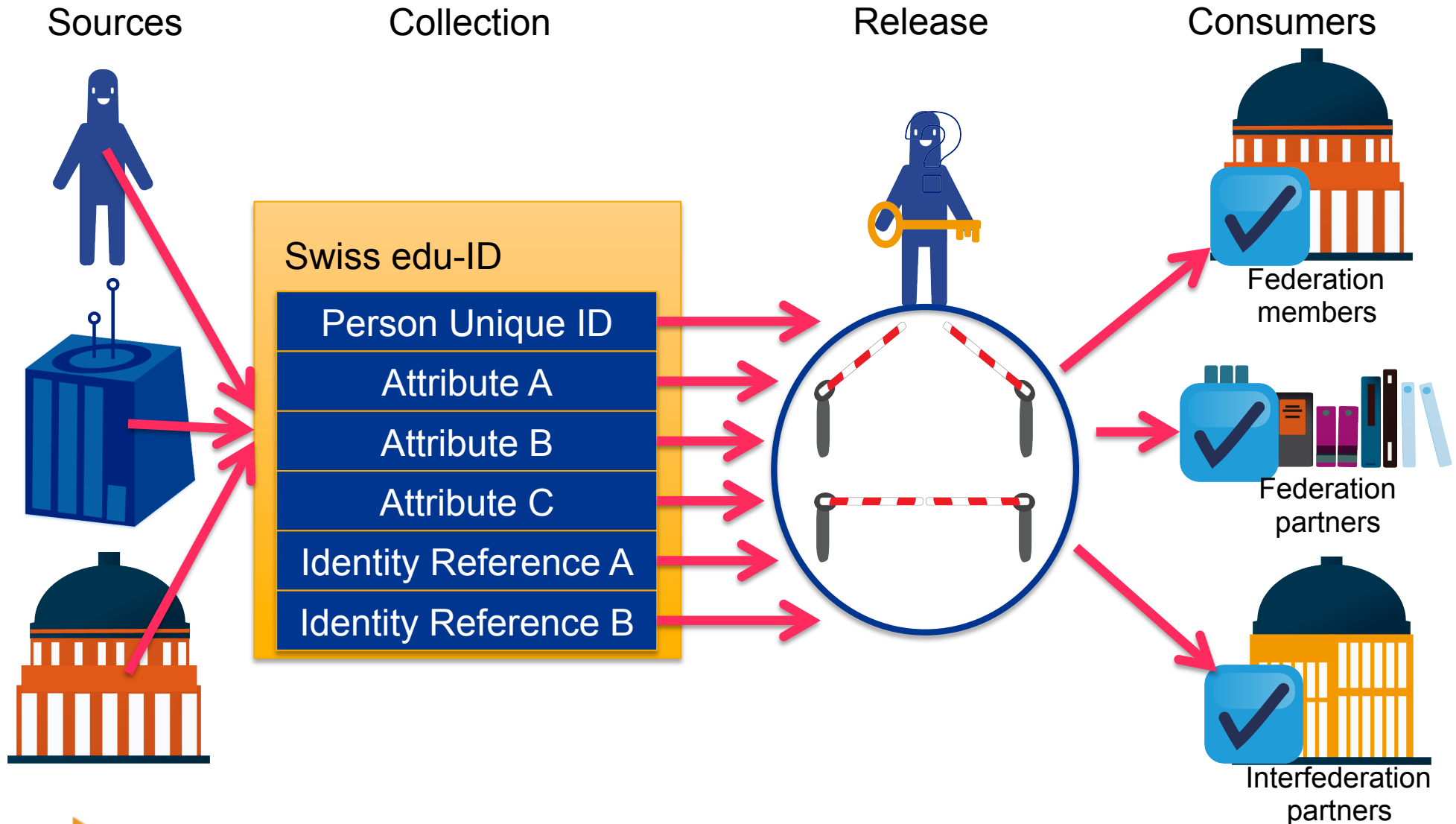
Contents of the Swiss edu-ID



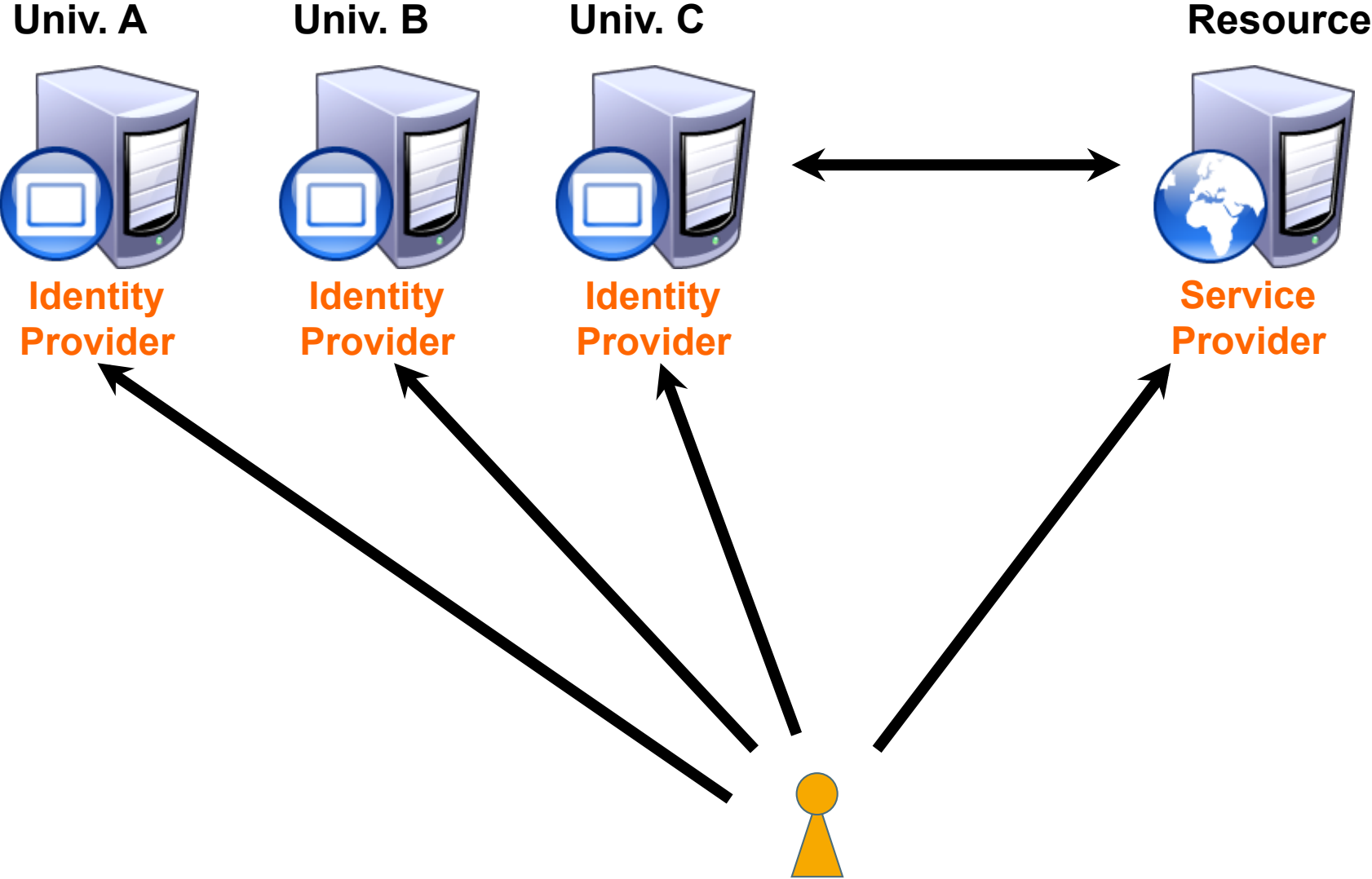
Use Cases/benefits



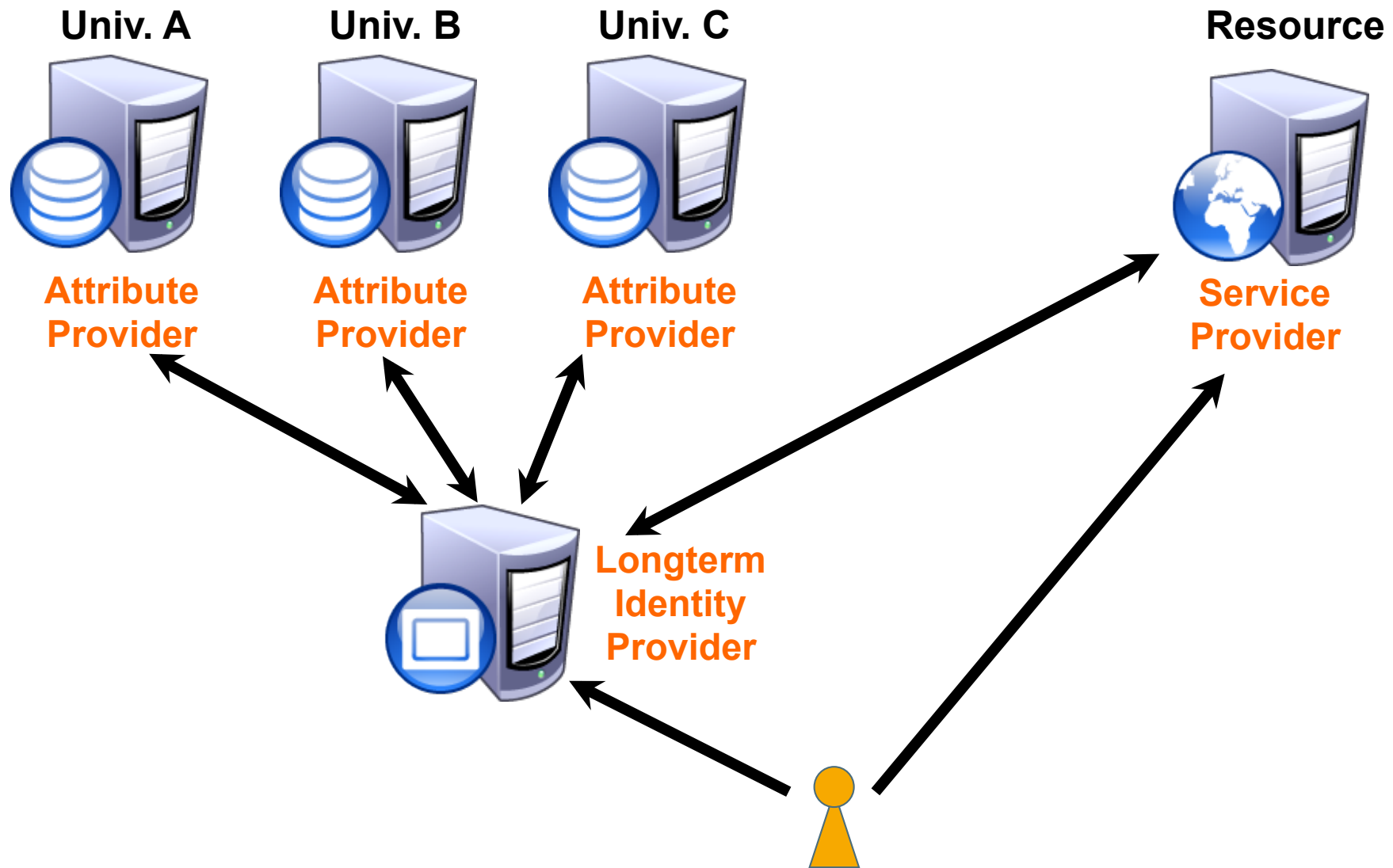
Information flow & control



The AAI architecture ...



... vs. the Swiss edu-ID architecture



Interoperability considerations

Interoperability with SWITCHaai (including interfederation), for linking attribute authorities, maybe social media

- SAML

Interoperability with e-Gov initiatives and for attribute validation: SuisseID, eID/STORK

- X.509, SAML

Linking attribute authorities and external identities like ORCID, social media identities. Mobile device support/integration

- OAuth2/OpenID Connect

More? Additional APIs?

- We'll see as we go along...

Some open questions (1/3)

Unique Identifier for Swiss edu-ID needed

- What are the requirements for such an identifier?
- Restrictive release policy due to persistence?

due:
mid 2014

One person, multiple roles

- Must fit into one single identity
- Will user need to select the appropriate role?
(after authentication, before user consent)
- How about SSO? Acceptable user experience?

due:
end 2014

Some open questions (2/3)

Levels of assurance needed?

- Attributes from multiple sources
- Varying verification procedures
- Old attributes (e.g. historic affiliations)
- Self-declared attributes (e.g. avatar, phone numbers)
- Levels of assurance even needed for individual attributes?

due:
end 2014

Some open questions (3/3)

Still doable with attributes?

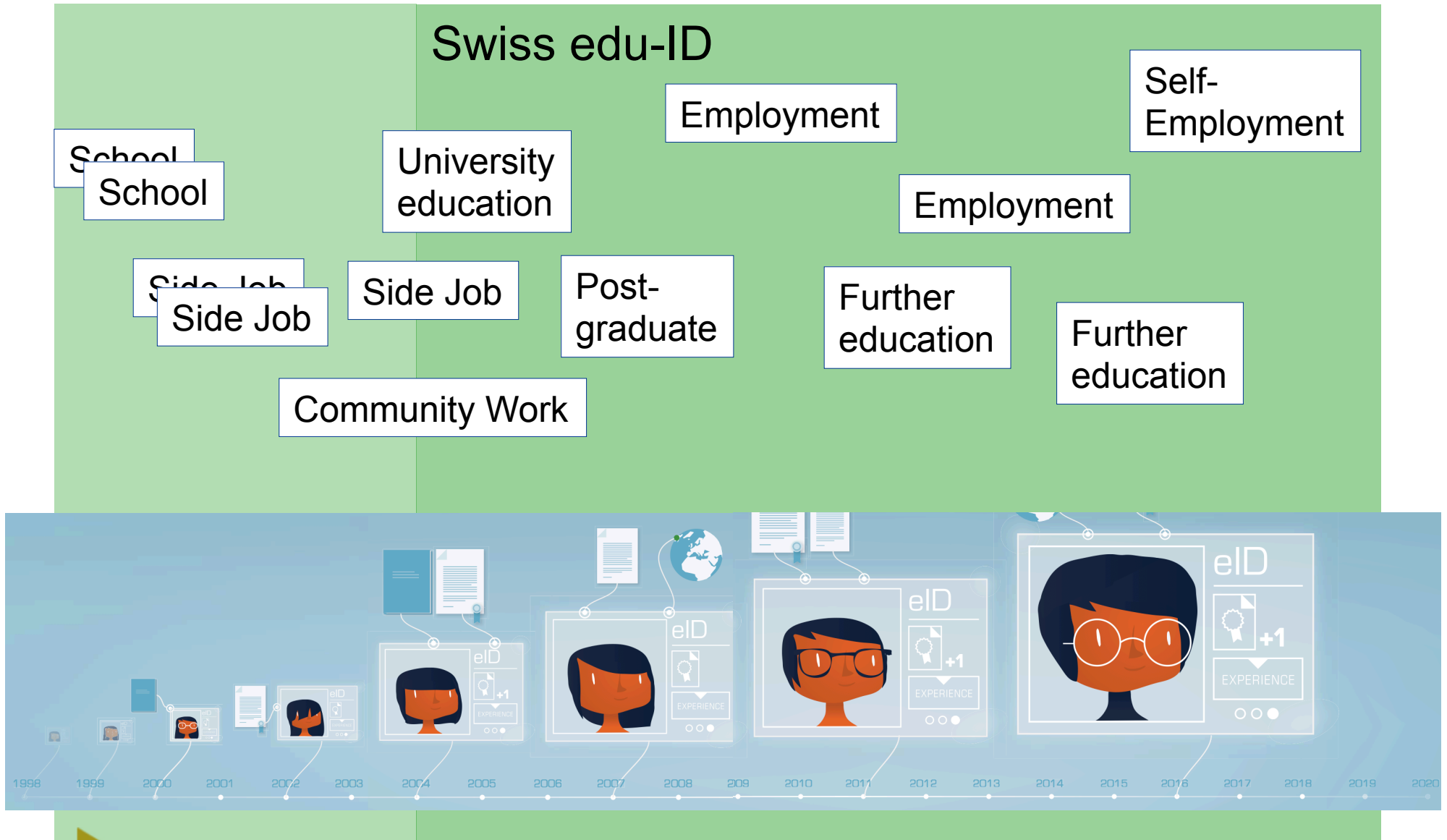
- How to represent different roles in different contexts (affiliations)?
e.g. affiliation → scopedAffiliation
- How to represent different roles over time?
- How to represent study results?
e.g. Bachelor@UniX, Master1@UniY, Master2@UniZ

Will keep us busy in the years to come

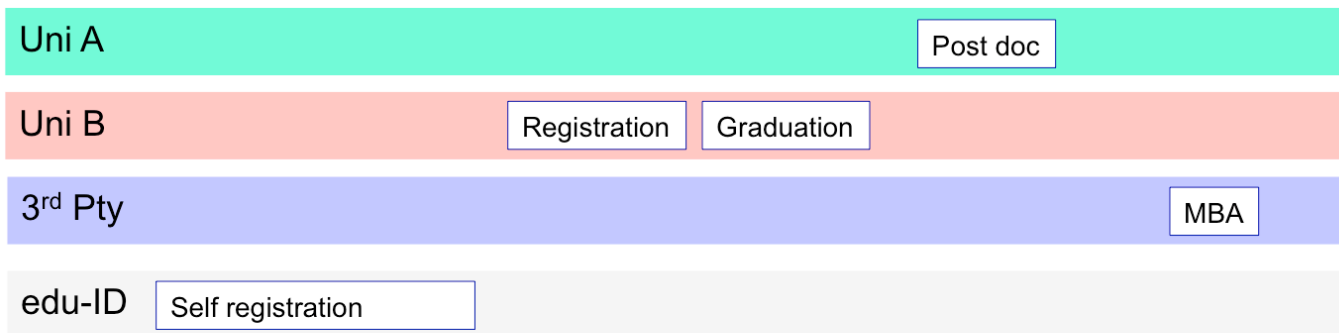
Or (how) to represent information differently?

- To represent attributes are strings: some multi-valued, some scoped or a sequence of strings
- Even more complex use cases might come up
- Will we need to go XML or JSON?

... Identity Management tomorrow



Life goes on... So does the Swiss edu-ID



Trusted - Untrusted Name Address Email Matura Avatar History -	Trusted Name Address Email Untrusted Matura Avatar History -	Trusted Name Address Email Matura student@B Untrusted Avatar History -	Trusted Name Address Email Matura Master Untrusted Avatar History student@B	Trusted Name Address Email Matura Master ORCID postdoc@A Untrusted Avatar History student@B	Trusted Name Address Email Matura Master ORCID MBA Untrusted Avatar History postdoc@A student@B
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