THE SURF EDUBADGES PROJECT

Working towards an open badge infrastructure for Dutch HE

IMS Europe
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SURF & Open Badges

2016

- Pressure cook session with stakeholders

- Whitepaper published

- Experiment with Mozilla open badge framework

2017 - 2018

- Proof of Concept
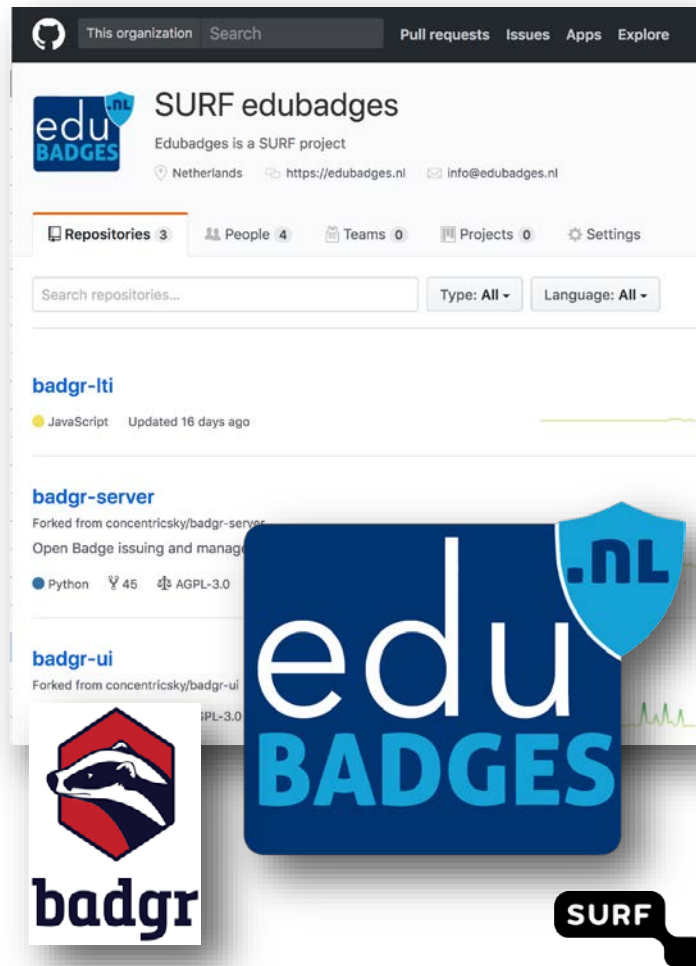
2018 - 2019

- Pilot eduBadges

2020

- eduBadges service offering for Dutch HE?

WHITEPAPER
ON OPEN BADGES AND
MICRO-CREDENTIALS

SURF NET

About the eduBadges PoC

2017 - 2018

- 10 participating institutions

- Open Badge Infrastructure based on Open Source Badgr

- Collaboration with Concentric Sky on joint development

- Development on Badgr on Github (https:///github.com/edubadges)

  - SSO SURFconext – openID Connect

  - LTI integration component

- Code audit

Learned lessons Edubadges Proof of Concept

BADGE ISSUER
(EDUCATIONAL INSTITUTION)

Lessons learned
- Badge strategy; determine the status that the badge has within the education system and how it relates to other badges.
- Badge governance; who may issue badges, when may they be issued, and to whom?
- Badges for micro-credentials require a vision on flexible education.

BADGE CONSUMER
(EMPLOYER OR OTHER EDUCATIONAL INSTITUTION)

Lessons learned
- No experience acquired through the PoC (to be discussed in the future).

BADGE EARNER
(STUDENT)

Lessons learned
- Possibilities offered by badges not yet known.
- Uploading badges to social media takes time and effort, and they are not displayed prominently.
- Managing badges is still an issue to be resolved.

INFRASTRUCTURE

Lessons learned
- Important focus is storage of edubadges.
- Standardisation: alignment required on subject-specific metadata and value system.
- Integration of the edubadge features in the digital learning environment and student information systems (SIS) is imperative.
- Important focus is on guaranteeing the authenticity of the badge's content, the awarding party and the badge earner.
- A persistent ID to manage the badges is a prerequisite (e-mail address is not sufficient).

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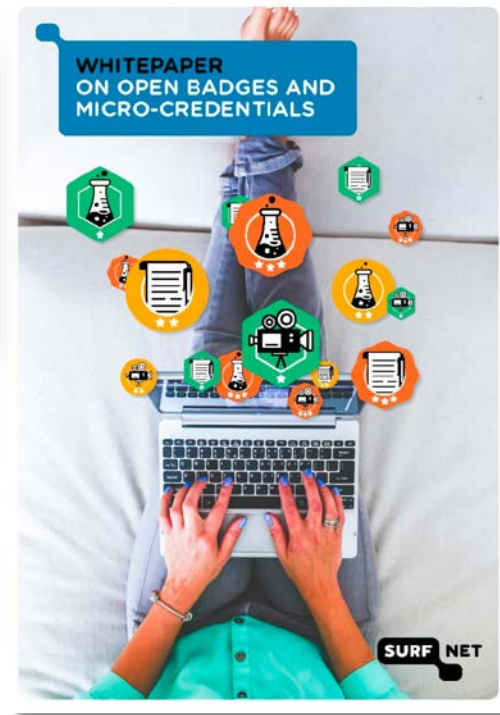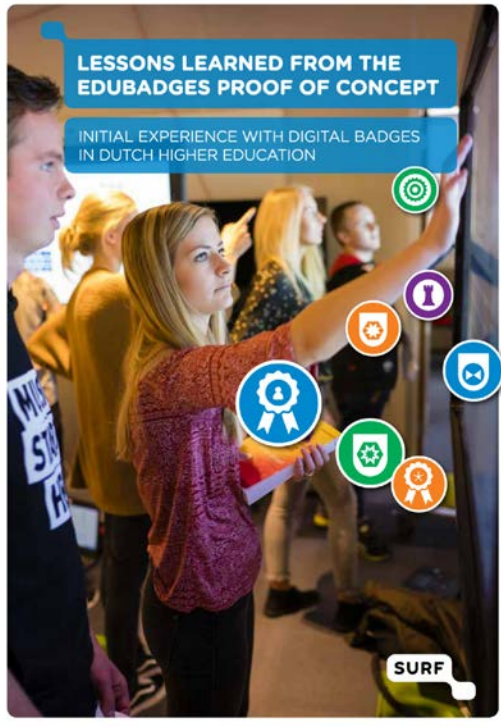
Edubadges Pilot 2018 - 2019

- Fresh install edubadges infrastructure
  - Roles and permissions model extended
  - Frontend Theming options
- GDPR compliant
  - New enrolment workflow
- More participating institutions
- Increasing effort on policy support for enabling microcredentialing within Dutch HE
- Preparing business model for service delivery by SURF to Dutch HE
- Persistent identity
- Continuous development

eduID.nl

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Work in progress

ISSUER

BADGECLASS

- Metadata Extensions

- Alignment with European exchange and description frameworks

- Develop badge signing - digital signatures to permit validation of open badges without a need to access an assertion database

- Extend LTI integration to improve LMS/SIS – badge system communication

- Researching and experimenting with blockchain/distributed ledger technology for making access to **endorsements** and **badge classes** more transparent and verifiable

- & many things more…

LESSONS LEARNED FROM THE EDUBADGES PROOF OF CONCEPT

INITIAL EXPERIENCE WITH DIGITAL BADGES IN DUTCH HIGHER EDUCATION

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WHITEPAPER ON OPEN BADGES AND MICRO-CREDENTIALS

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Full report that reviews for Signed Open Badges cryptographic practices :
https://wiki.surfnet.nl/display/OB/Signing+Open+Badges

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