

Interoperability across the EU:

Progress on Digitization of Higher Education

Processes towards Standards EU & DE



▲ Hochschule Harz

- Harz HEI - *Hochschule Harz*
- CyberSecurity Saxony-Anhalt
- HEI Information System HIS - *Hochschul-Informationen-System eG (HIS)*
- Georg August University Göttingen
- PIM Project
- Technical University Munich
- Foundation for University Admissions - *Stiftung für Hochschulzulassung (SfH)*
- DUO Netherlands



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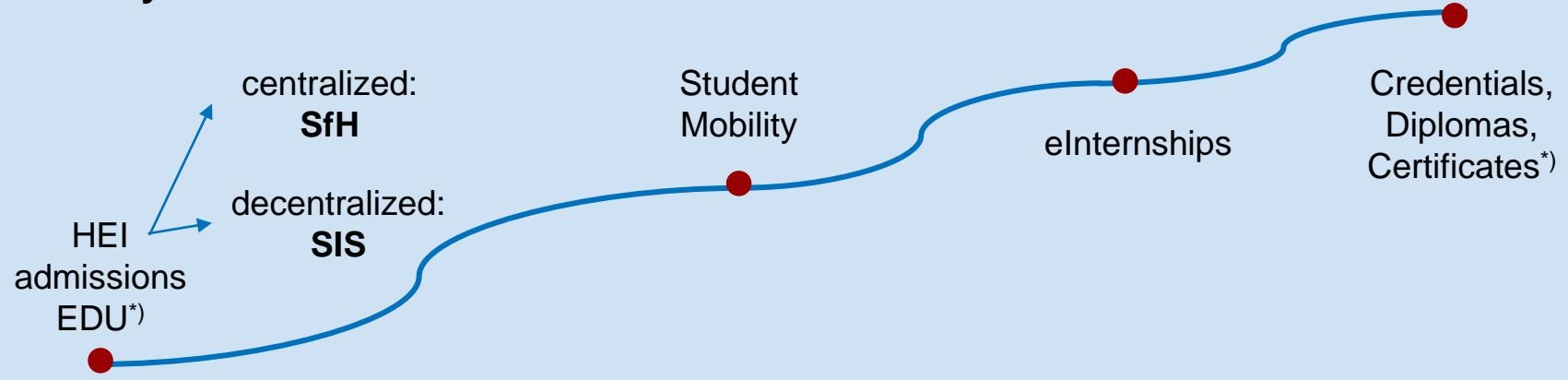
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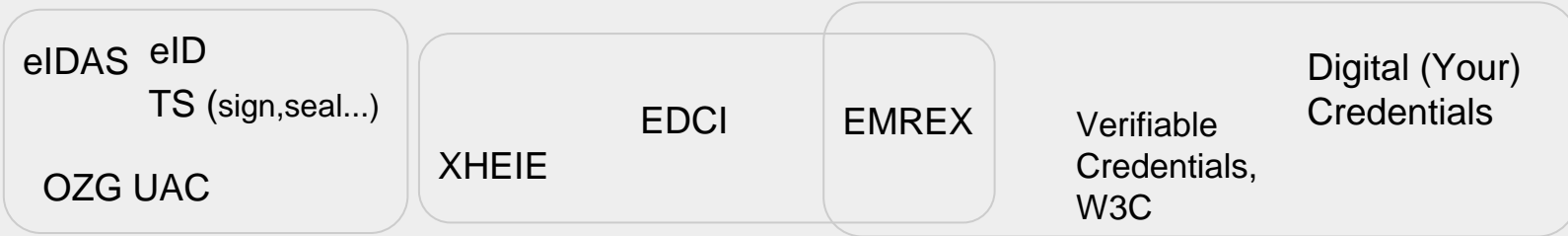
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Student Journey



Infrastructure (selection)



Legal Requirements

OZG Online Access Law

eIDAS

SDG Single Digital Gateway



Centralized:

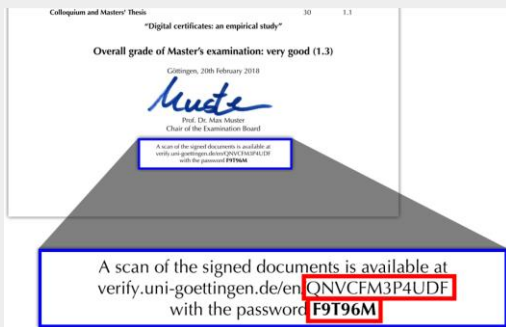
SfH - Foundation for University Admissions

- DUO cooperation: candidates transfer transcripts in ELMO (EMREX) format (i.e. medicine students)
- tests with HS Harz and UNIT Norway
- HS Harz and federal state NRW: admission prototypes with digital diplomas

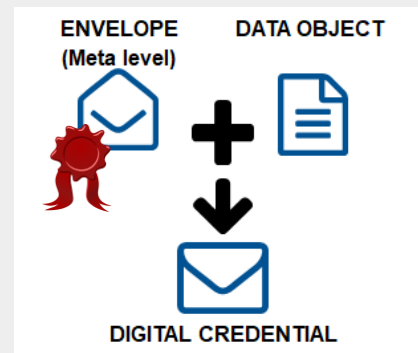
Decentralized: Student Information System (SIS)

- goal*: automatically processable XML document
- challenges*:
 - transfer of the XML files by the users to the HEI not specified
 - variety of identifiers
 - multiple options for wallet-apps
- HS Harz and federal state NRW: admission prototype with digital diplomas:
 - eID/eIDAS user accounts EU-wide, authentication & signature level “high”, authorized flow (HS Harz)
 - signed notarization of diploma certificates in PDF/ELMO (EMREX) format

Analogue (Göttingen University)



Digital, W3C



Hybrid solutions for

- identities (userID / eID) - StudIES+ (HS Harz)
- documents such as PDF/ELMO (EMREX) - StudIES+ and NRW-solution

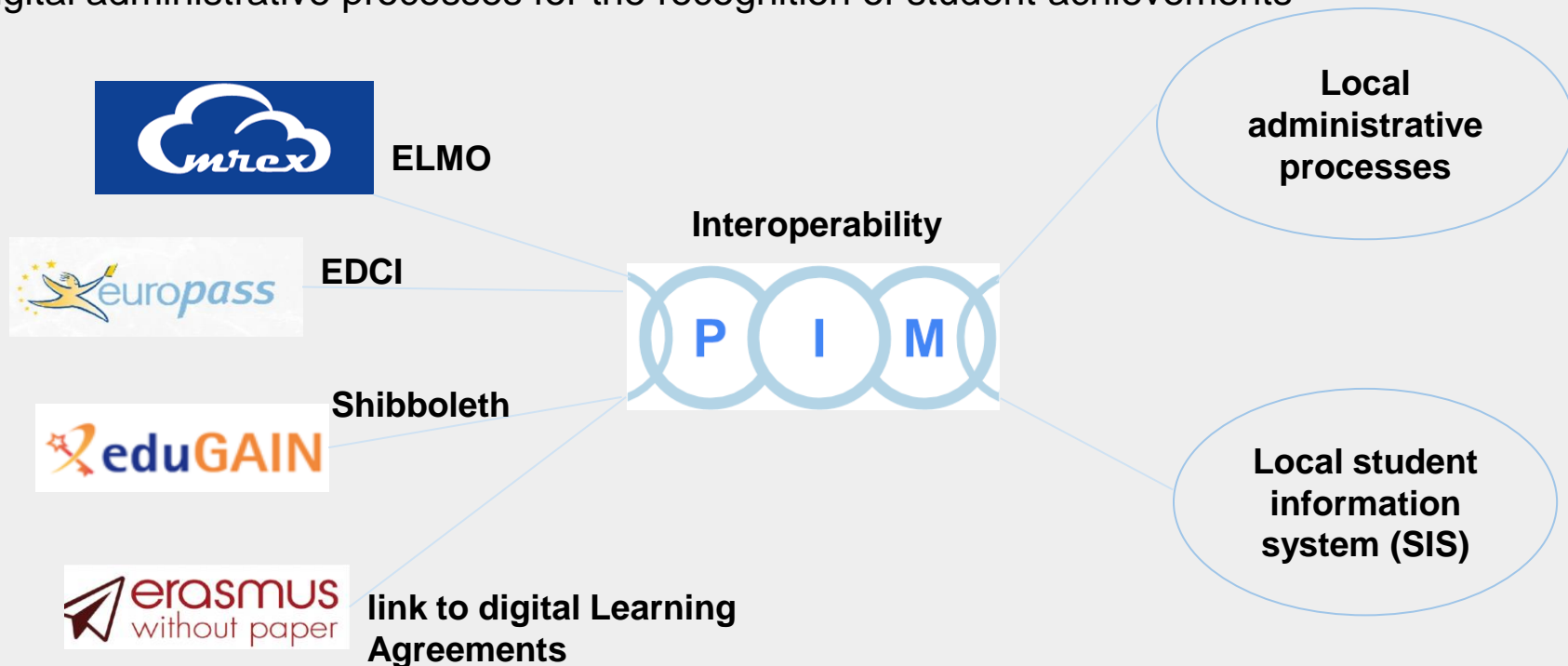
SIS (HISinOne)

- machine-readable format has to be the result of an internal workflow for authorization

Student Journey: PIM - Platform for Inter*national Student Mobility



- digital administrative processes for the recognition of student achievements



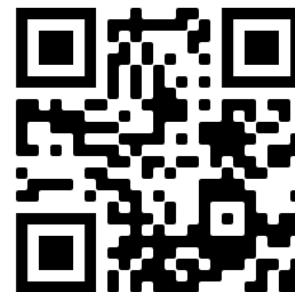
Future developments

- eNotar/YourCredentials for multiple signs./(e)IDs, authorized, ELMO/similar formats
- Verifiable Credentials (W3C) / EDCI
 - unique identification of the digital badge holder
 - dedicated sharing to 3rd parties
- XHigherEducationInstitutionExchange (XHEIE/OZG) / EU Single Digital Gateway (SDG)

Thank you

Extended abstract:

<https://tinyurl.com/f2nx5fvf>



HIS:

