



BORDERLESS STUDYING IN EUROPE



▲ Hochschule Harz
Hochschule für angewandte Wissenschaften



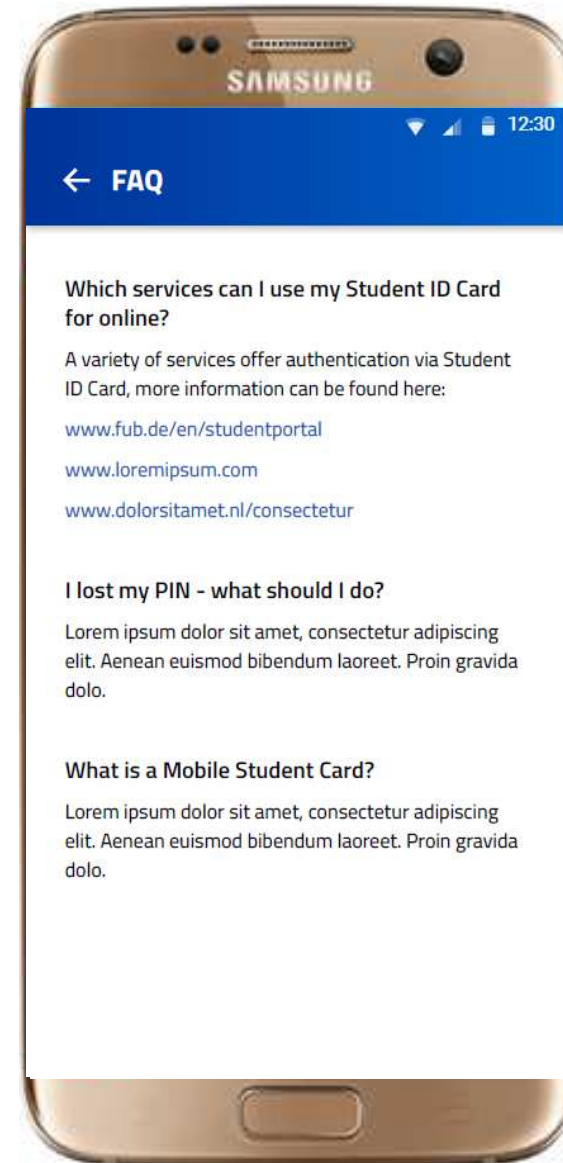
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Student Identity

Example – App Design



Design Study of “Student ID Card”

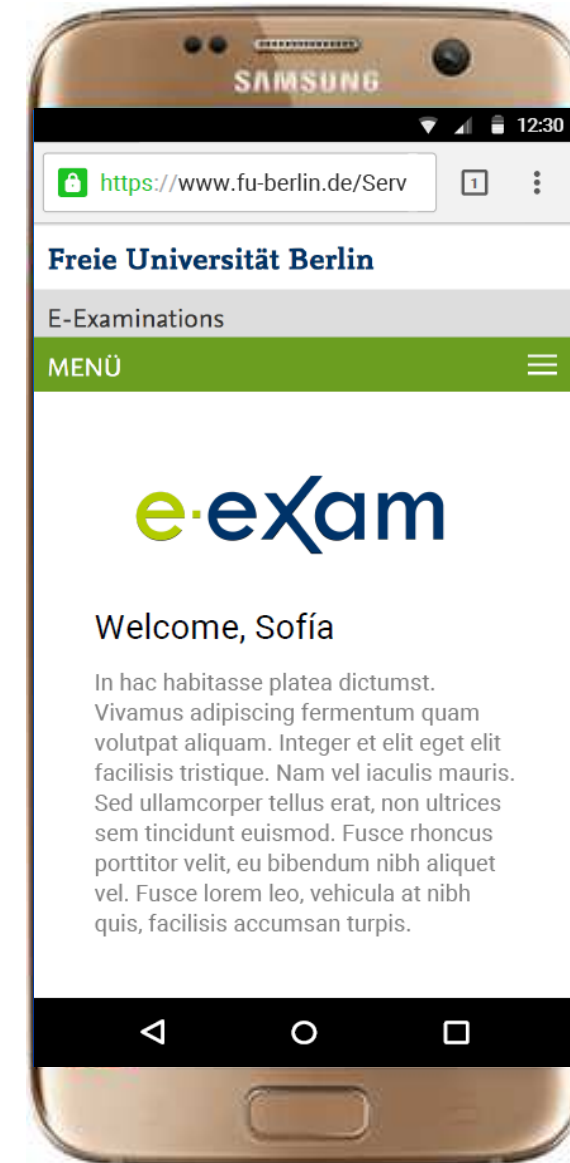


Student Identity

Example – “Online Login”



Identify at University Online Service “eExam”
to view exam results



Student Identity

Example— “Local Identification”



Identify at University local Service “Library”
to lend books and media

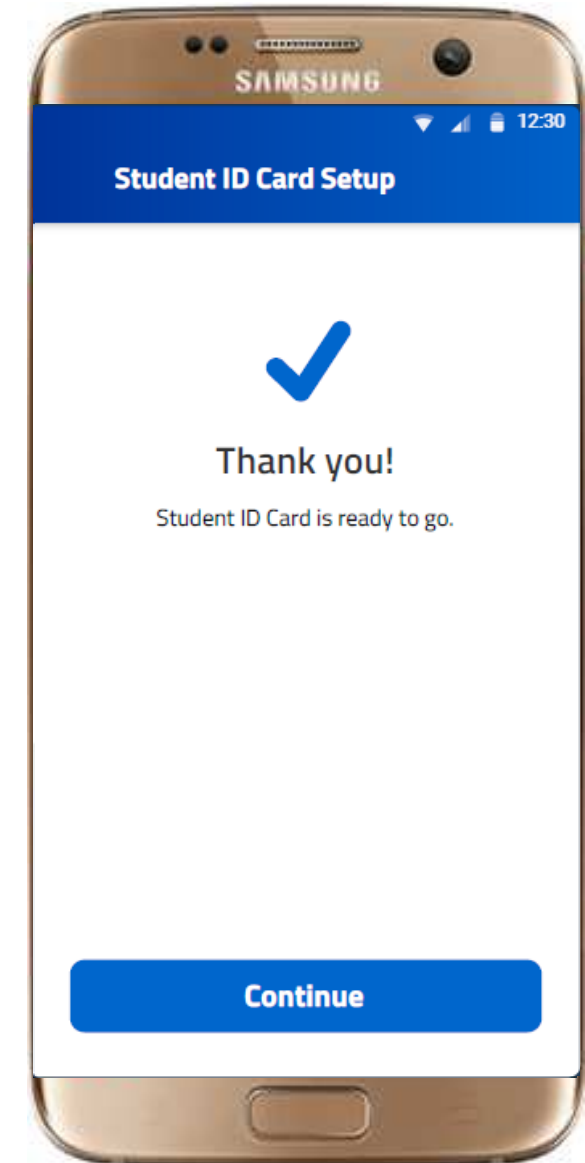
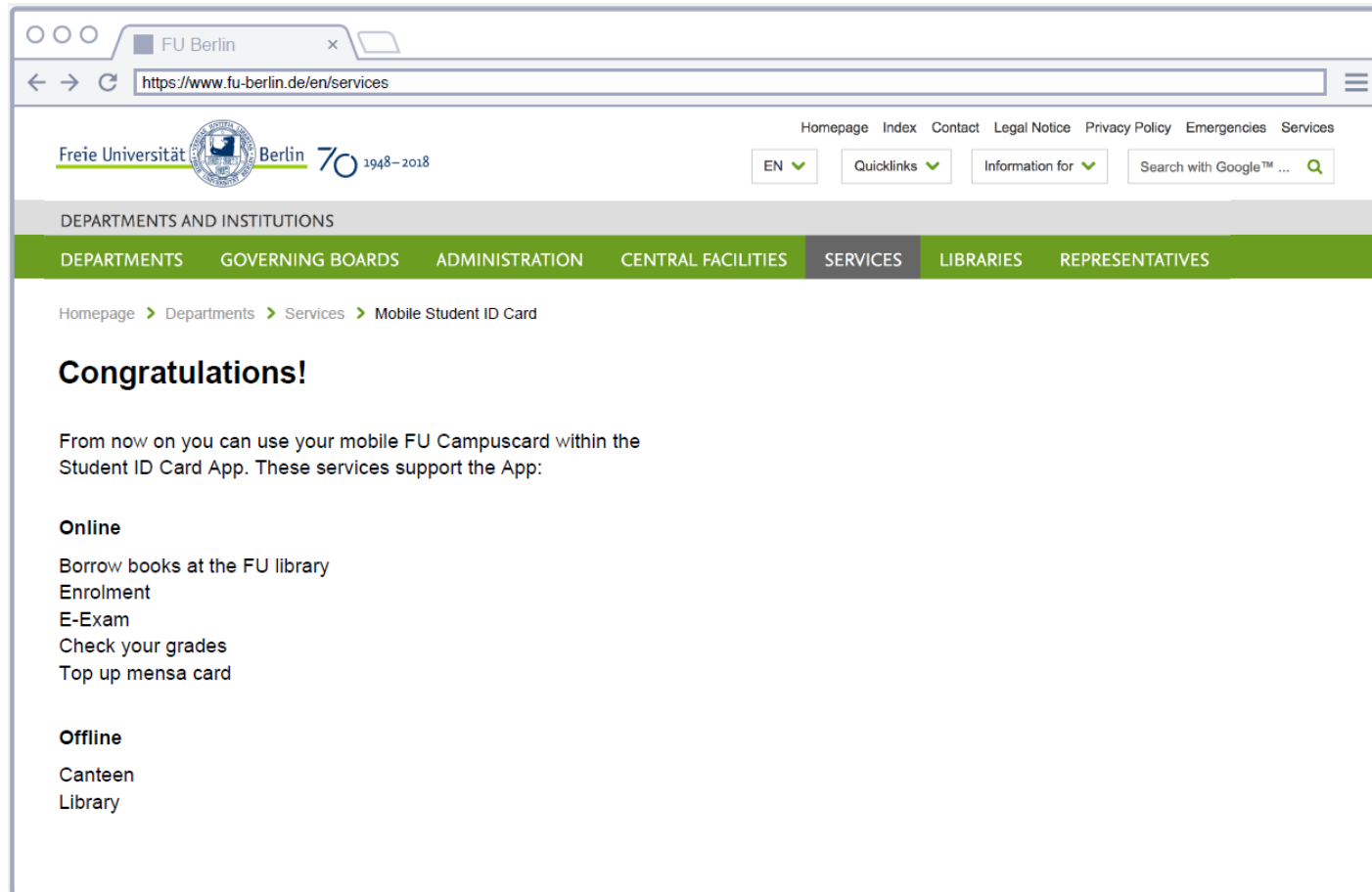


NFC



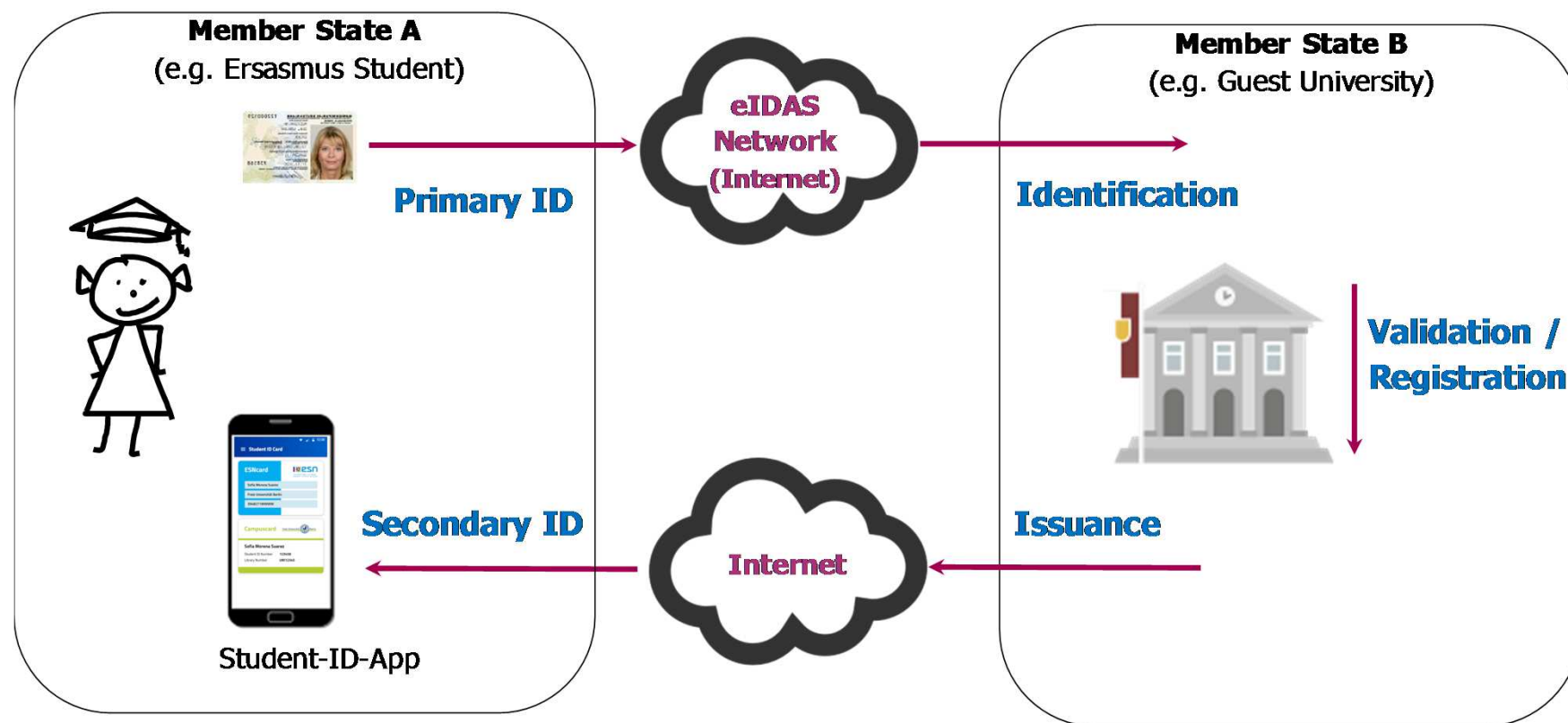
Student Identity

Example— “Issuance”



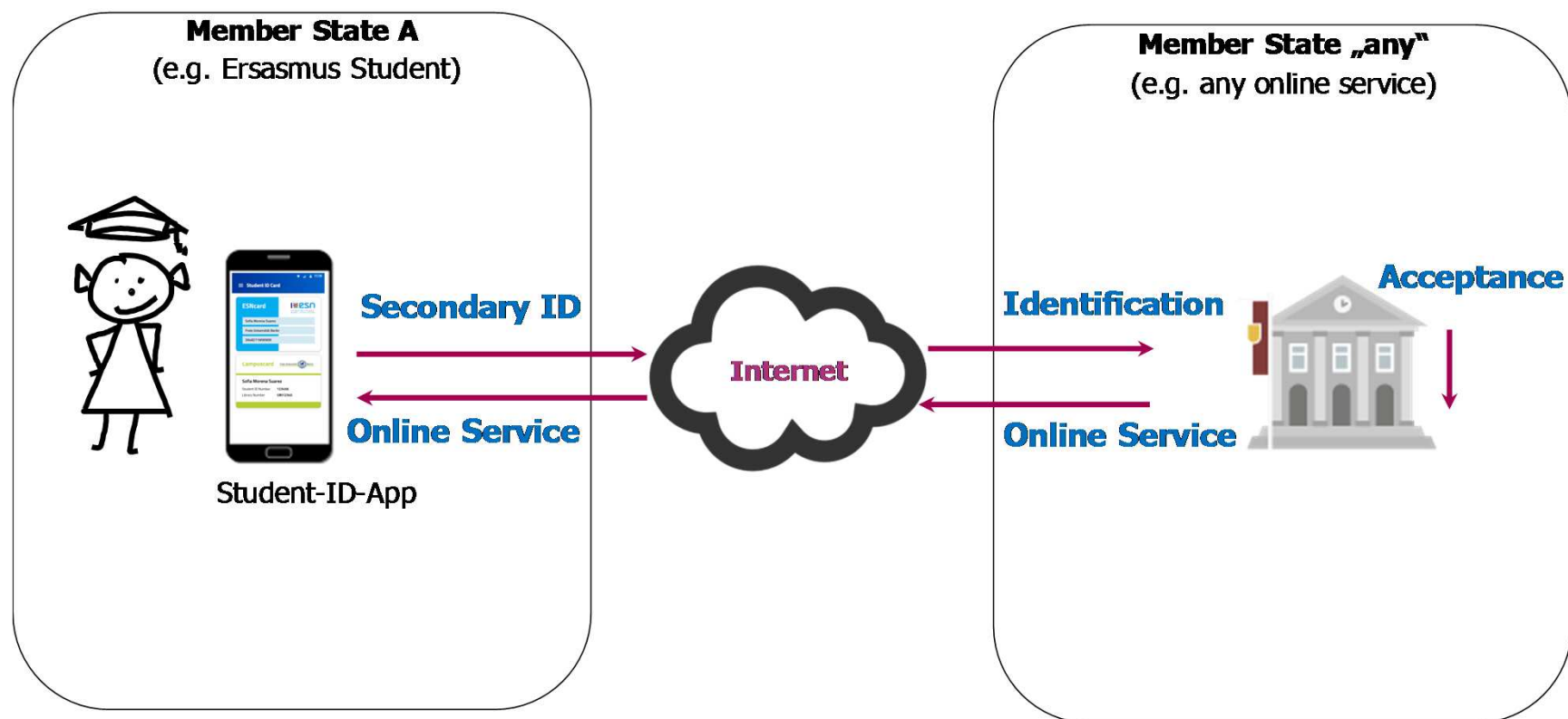
The StudIES+ Approach: Secondary ID

Issuance Use Case



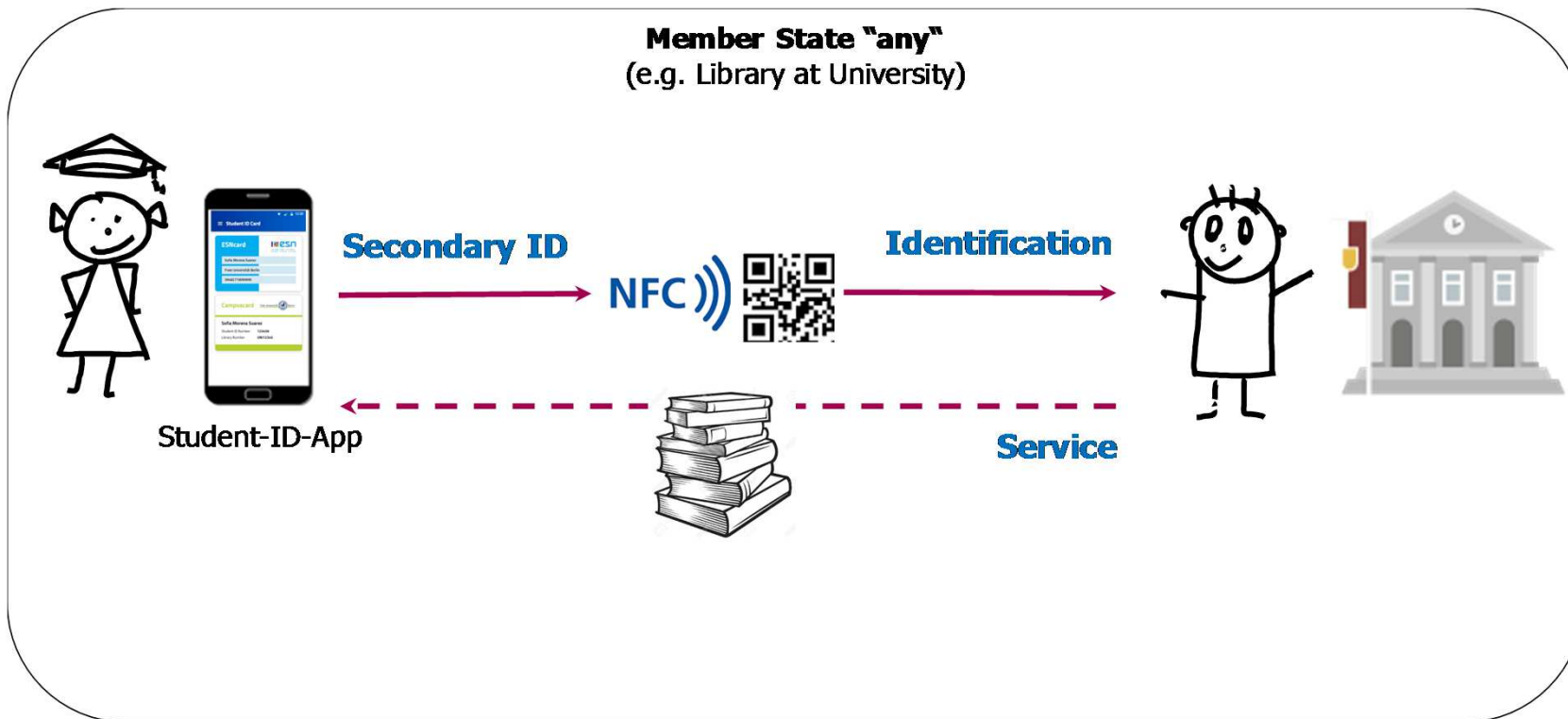
The StudIES+ Approach: Secondary ID

Online Use Case



The StudIES+ Approach: Secondary ID

Local Use Case



The StudIES+ Approach: Secondary ID

Attribute management

Primary ID

(get Attributes from eIDAS-Network)

Minimum Data Set (MDS):

- Family Name
- First Name
- Date of Birth
- Person Identifier

Optional Data Set

- First Name at Birth
- Family Name at Birth
- Place of Birth
- Current Address
- Gender

Implicitly known attributes

- Nationality
- ID-Document

Secondary ID

(put Attributes onto “Student ID Card”)

Source eIDAS:

- Family Name
- First Name
- Date of Birth

Source HEI-DB:

- Student Number (ESCN)
- Course of study
- Degree program

Source Self-enrolled:

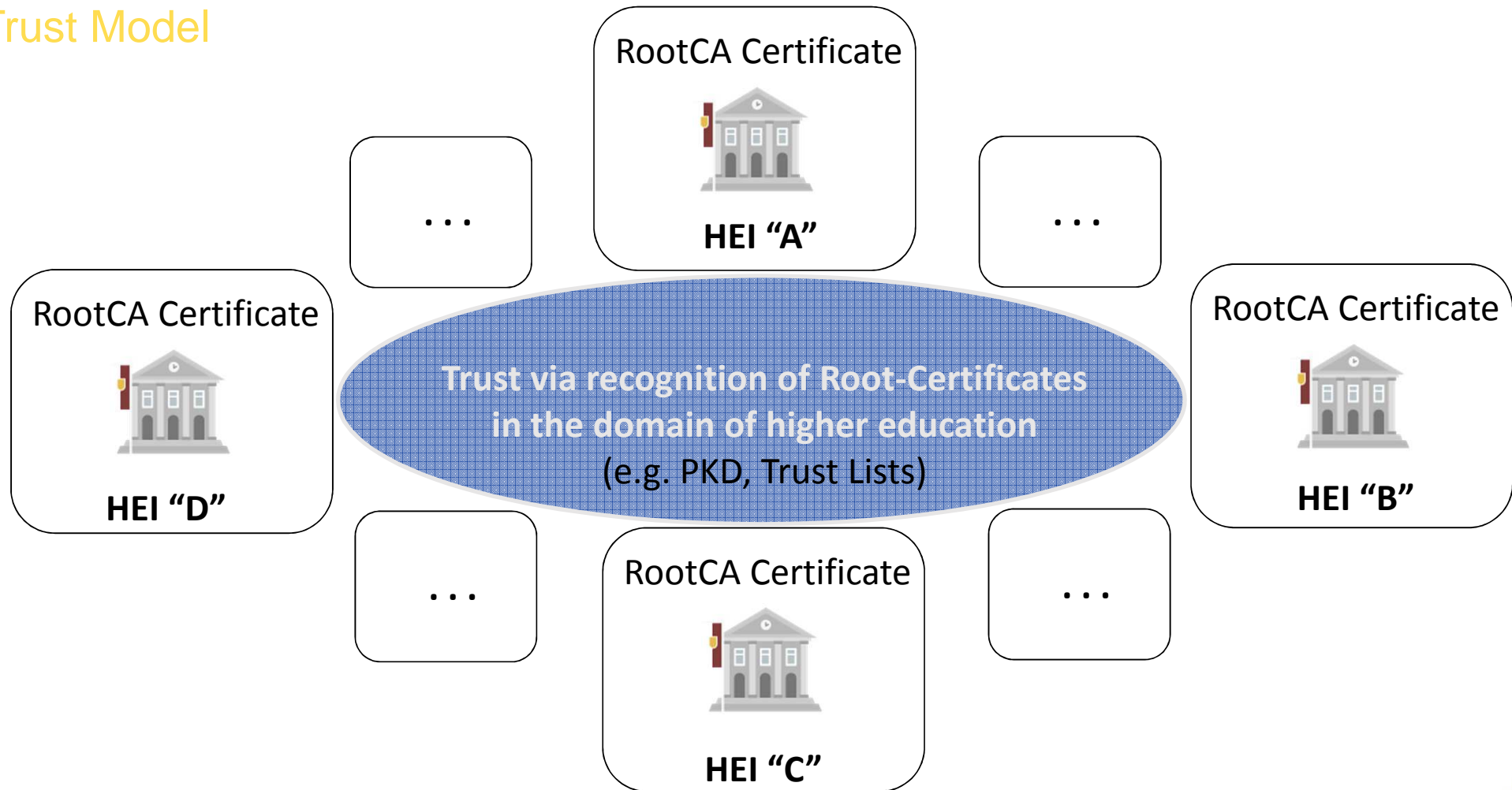
- Portrait Image
- Local Address

Other, e.g.

Public Transport data (Images, 2D Barcode)

The StudIES+ Approach: Secondary ID

Trust Model





The StudIES+ Approach: Secondary ID

Trust Model

1. Attributes are locally stored on the mobile device as Secondary ID via issuing service of HEI.
2. No Identity Provider at HEI required for online and local identification.
3. Authenticity of attributes is achieved by X.509 Certificates
4. Authenticity of Online Service is achieved by X.509 Certificates
5. Trust Model relies on bilateral recognition of RootCA certificates in the domain of higher education.

Alternative Approaches

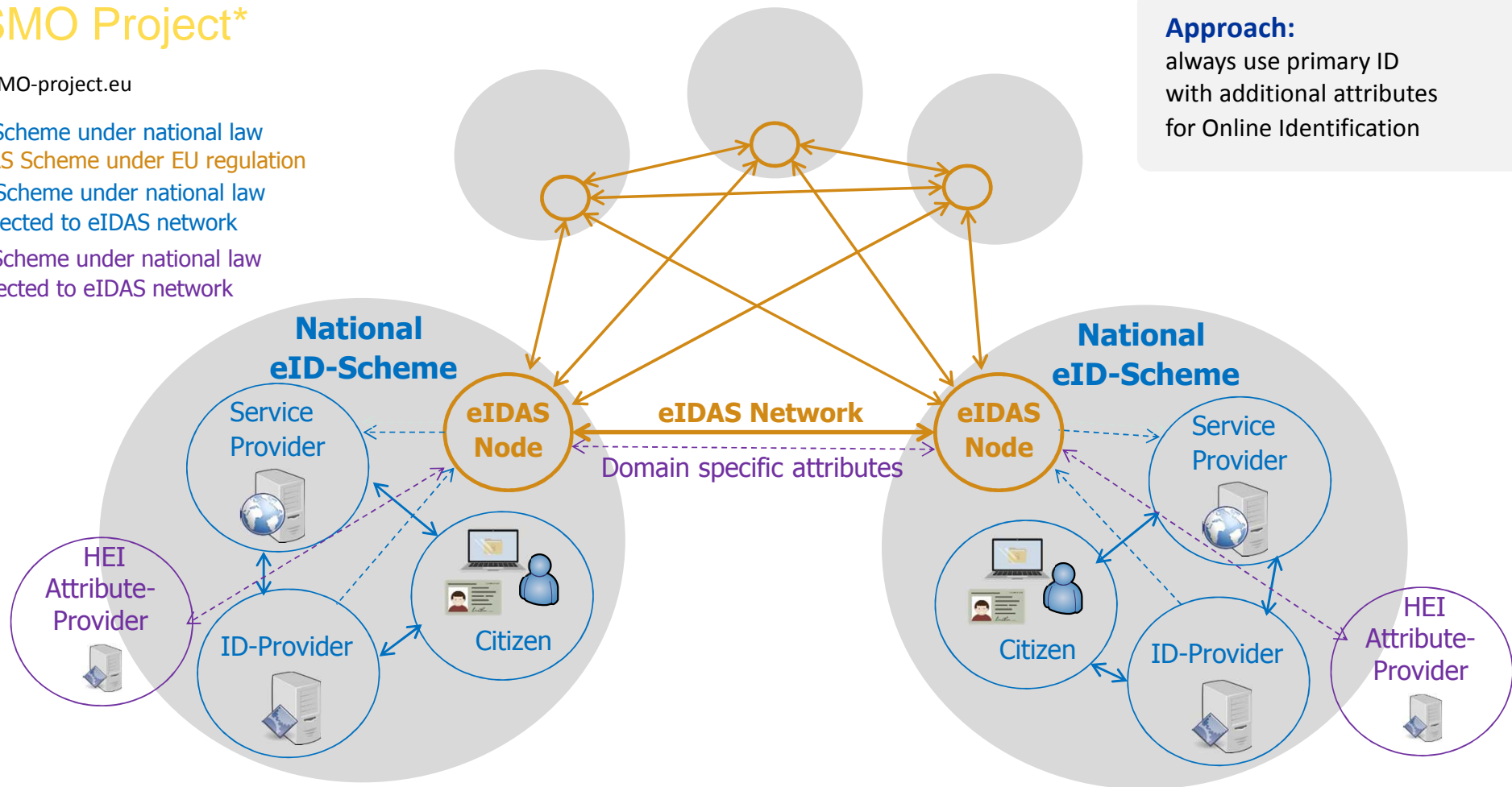
ESMO Project*

* www.ESMO-project.eu

- ↔ eID Scheme under national law
- ↔ eIDAS Scheme under EU regulation
- ↔ eID Scheme under national law connected to eIDAS network
- ↔ HEI Scheme under national law connected to eIDAS network

Approach:

always use primary ID with additional attributes for Online Identification

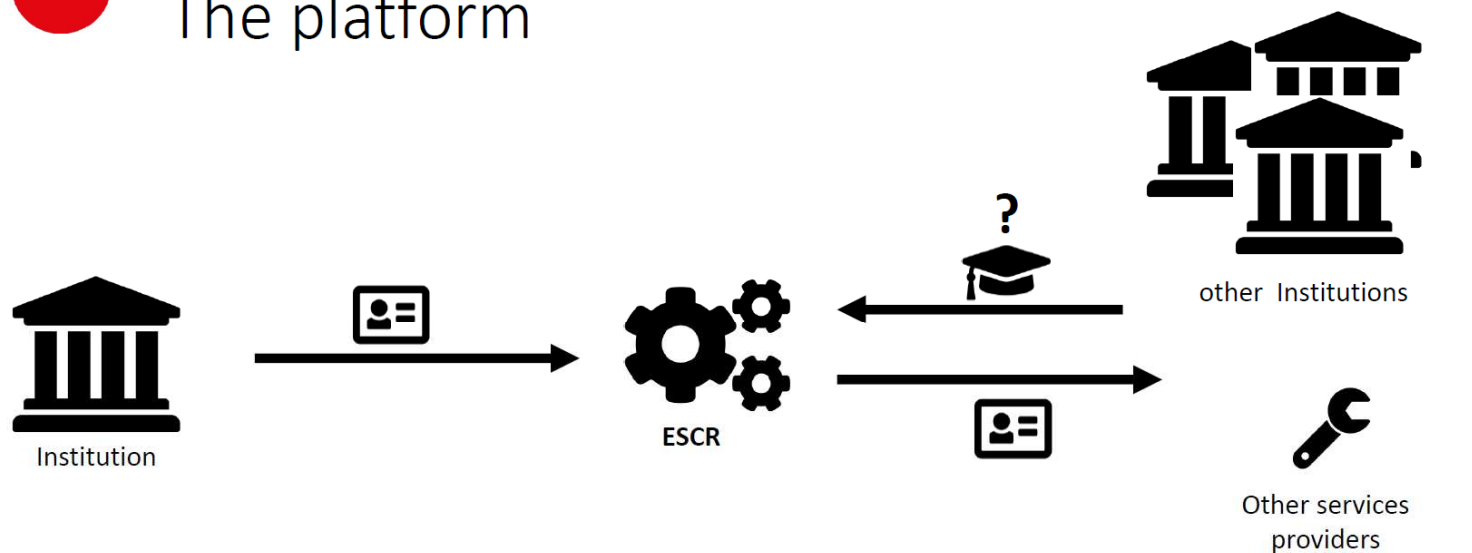


Alternative Approaches

ESC Project*



The platform



Approach:

Validate ESCN against central registry for local Identification

Source: Jean-Paul Roumegas, Centre national des oeuvres universitaires et scolaires, France, Project Manager ESC.

* <http://europeanstudentcard.eu/>