MyAcademicID

Co-financed by the Connecting Europe Facility of the European Union

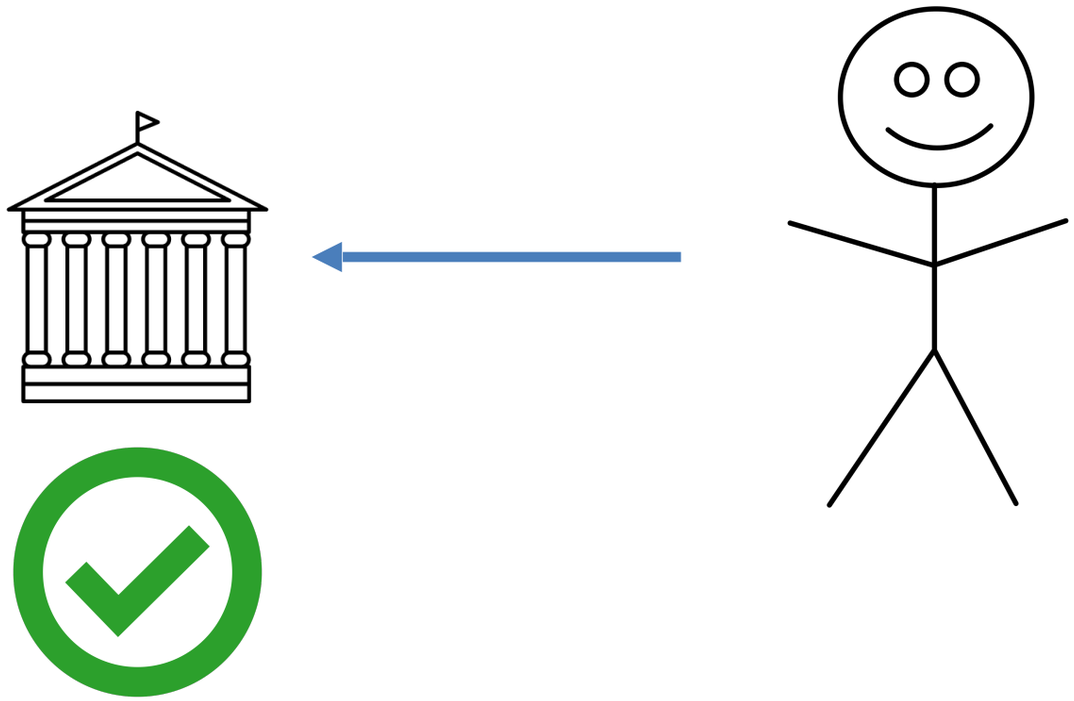
Agreement number: INEA/CEF/ICT/A20128/1633245 Action No: 2018-EU-IA-0036

Goals

- Support the digitisation of the Erasmus programmes by enabling **electronic access to Erasmus services.**
- Enable **seamless mobility of students** across borders.
- Enable **secure and seamless electronic interactions between Higher Education Institutions** (HEIs).
- Offer a Digital Environment for the **“Log in Once Only" Principle**
- Based on **existing deployed services and solutions**

Scenario

What will this look like in practice?



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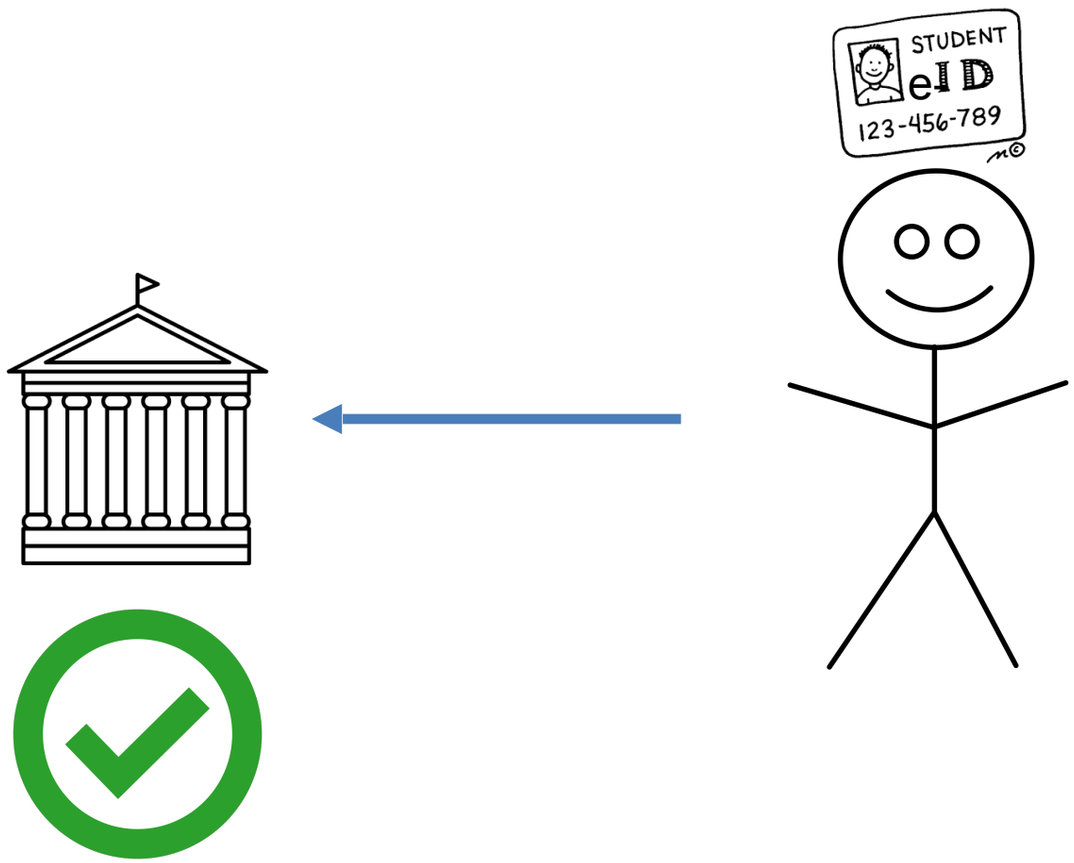

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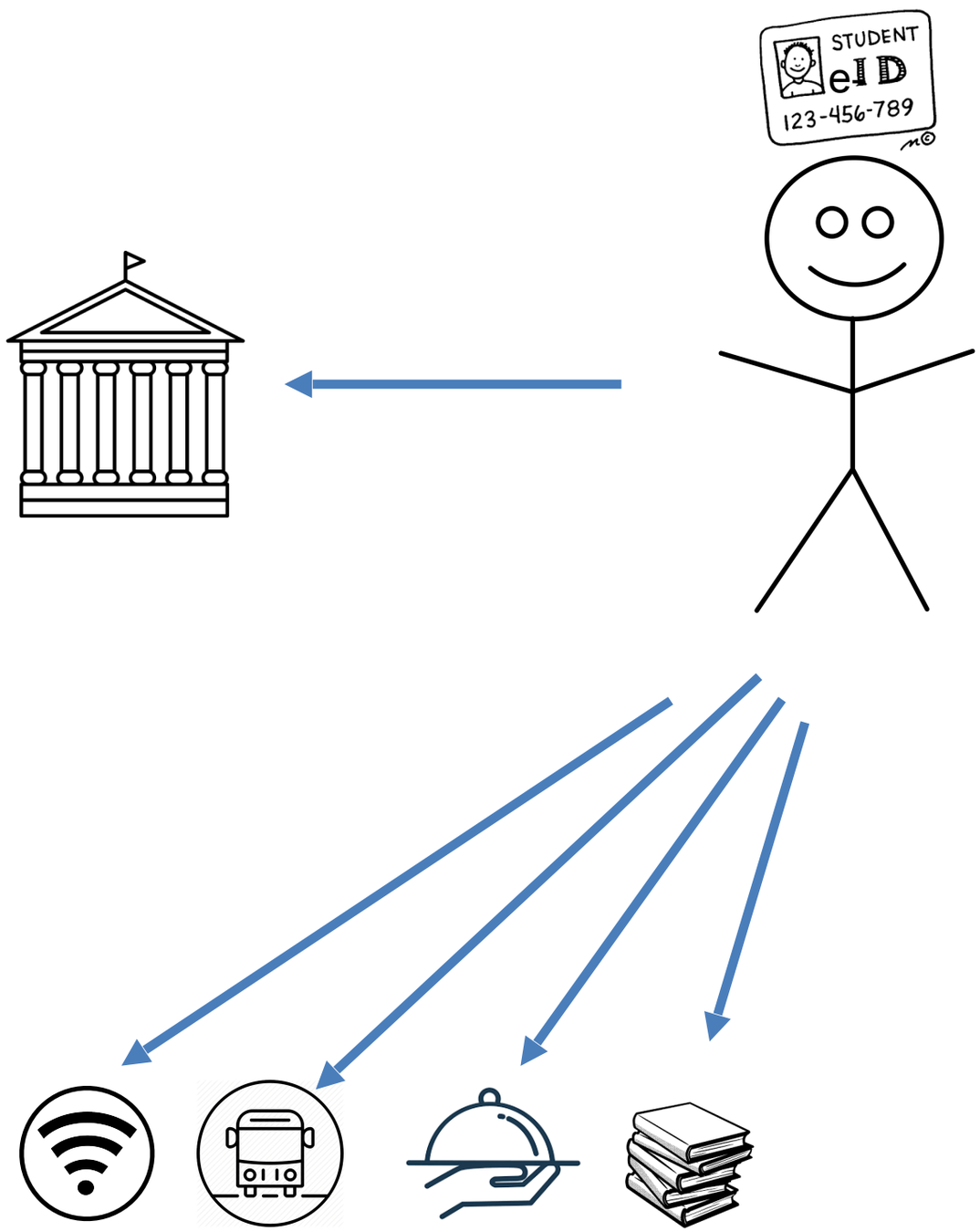

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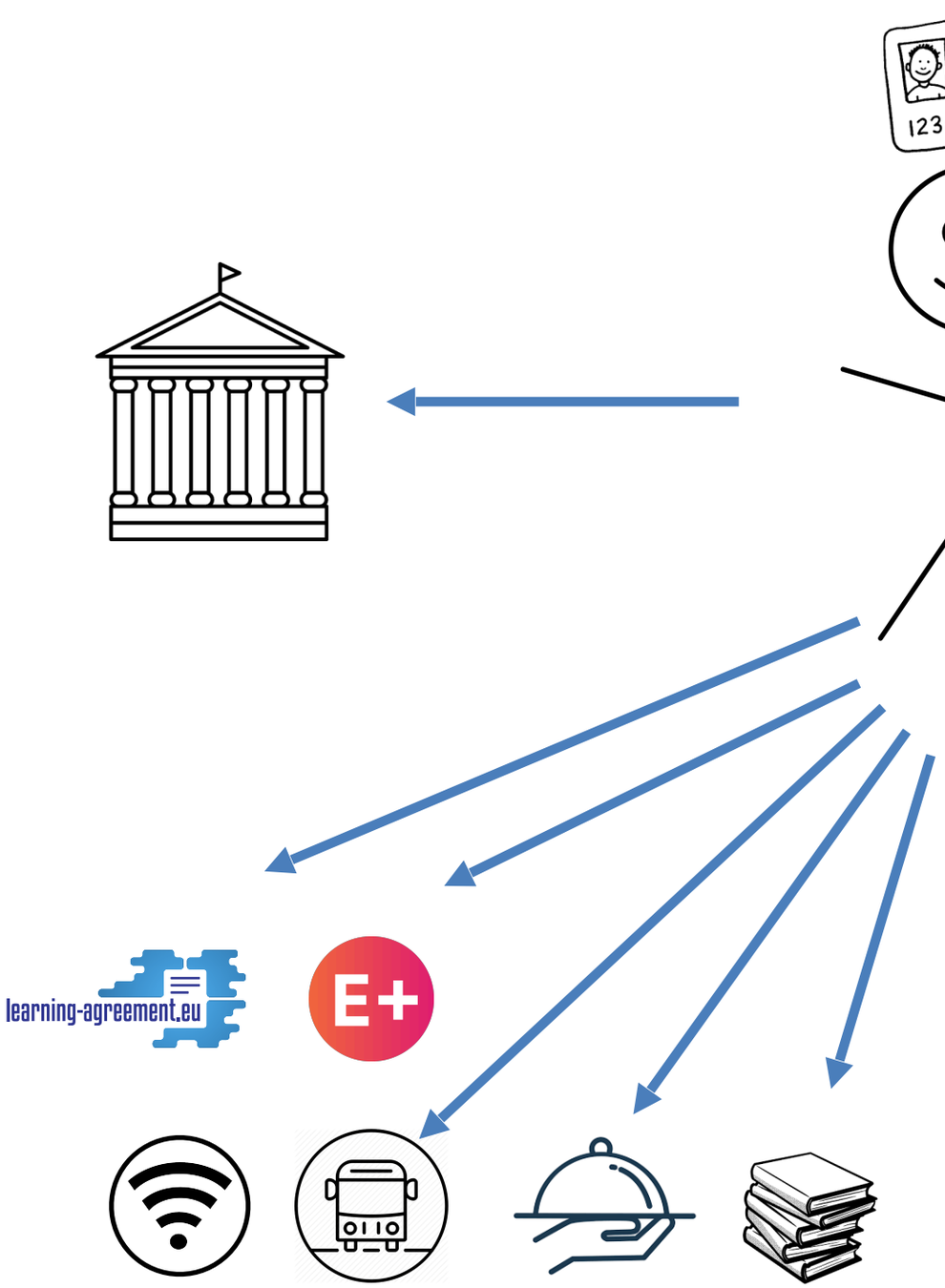

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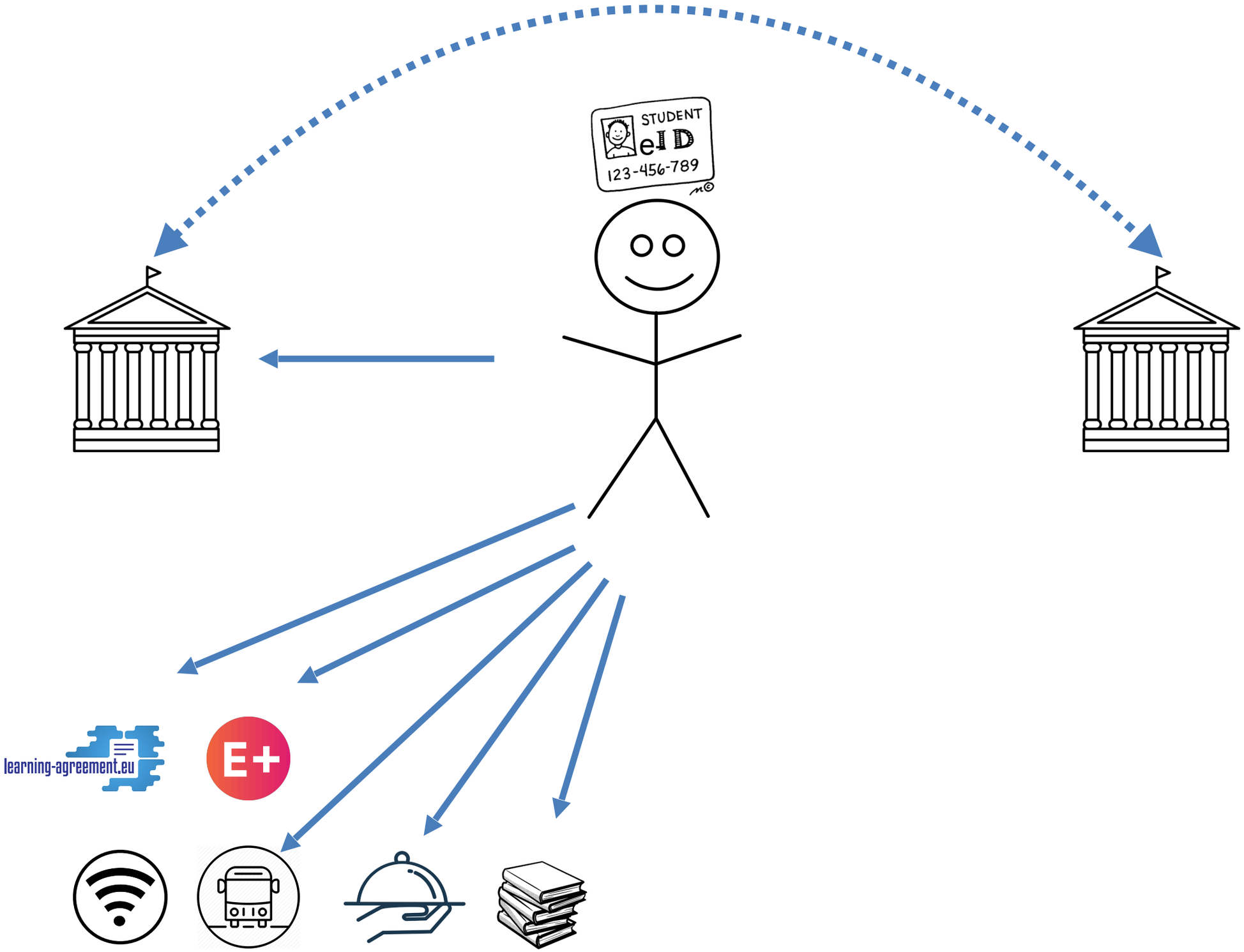

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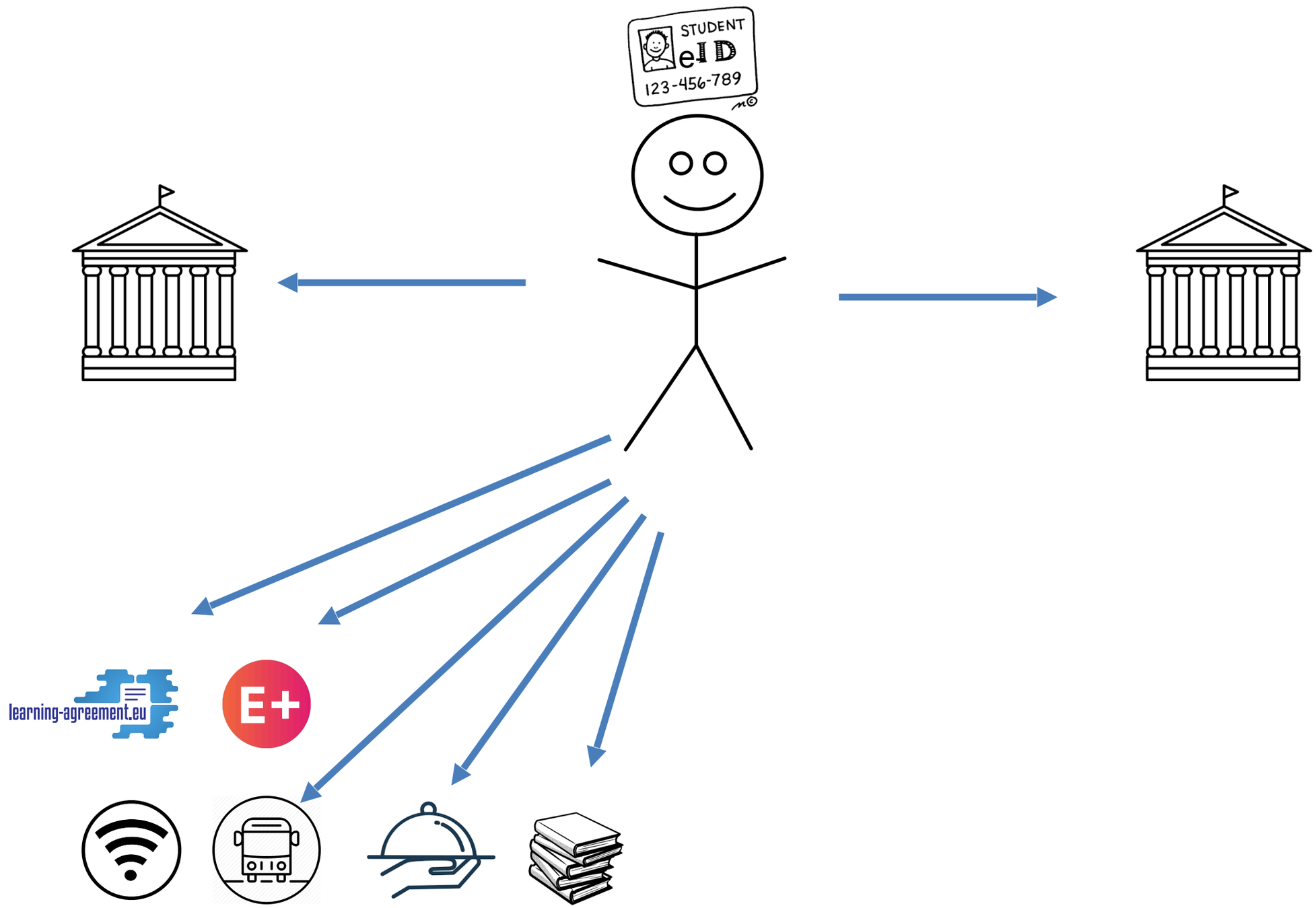

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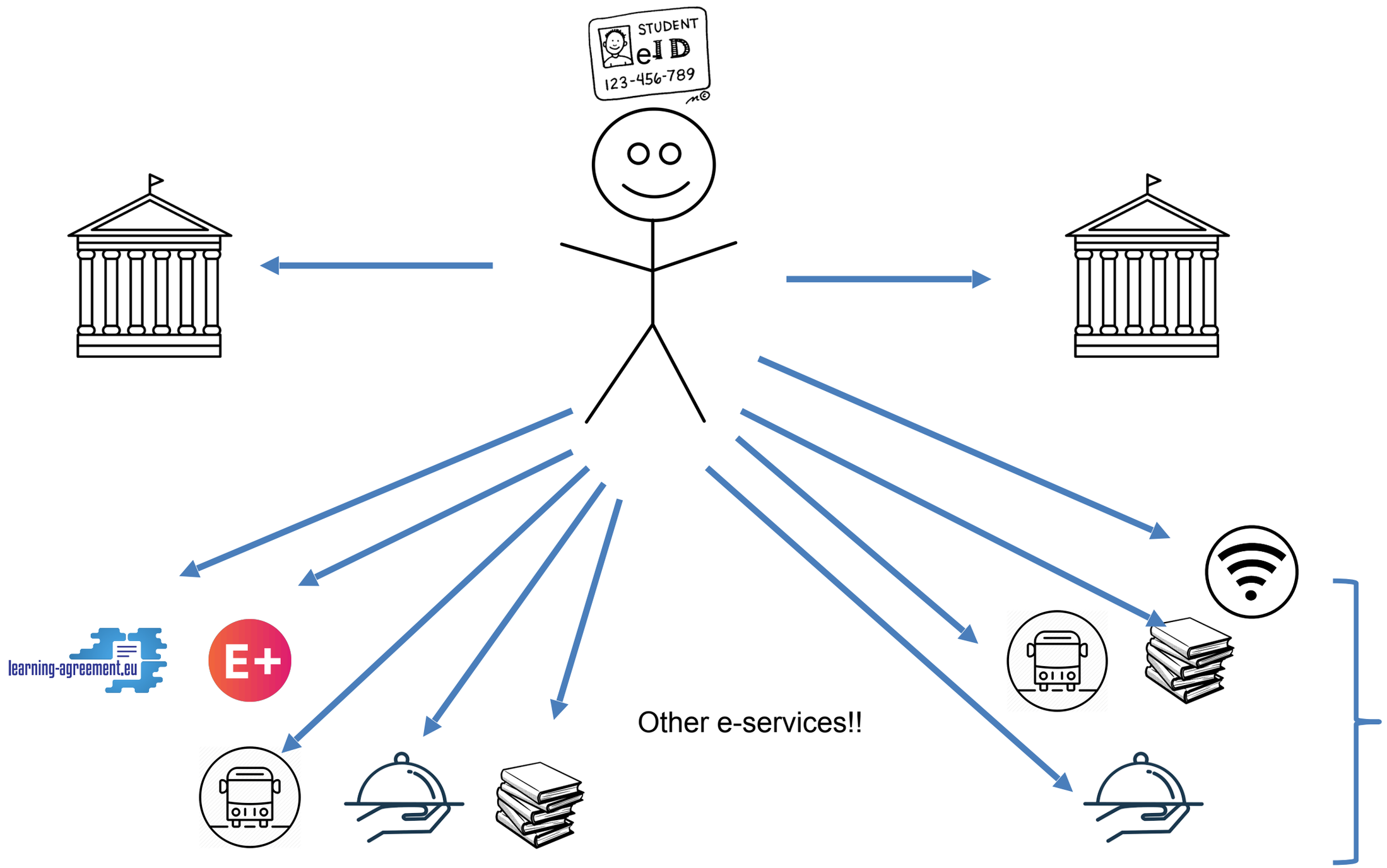

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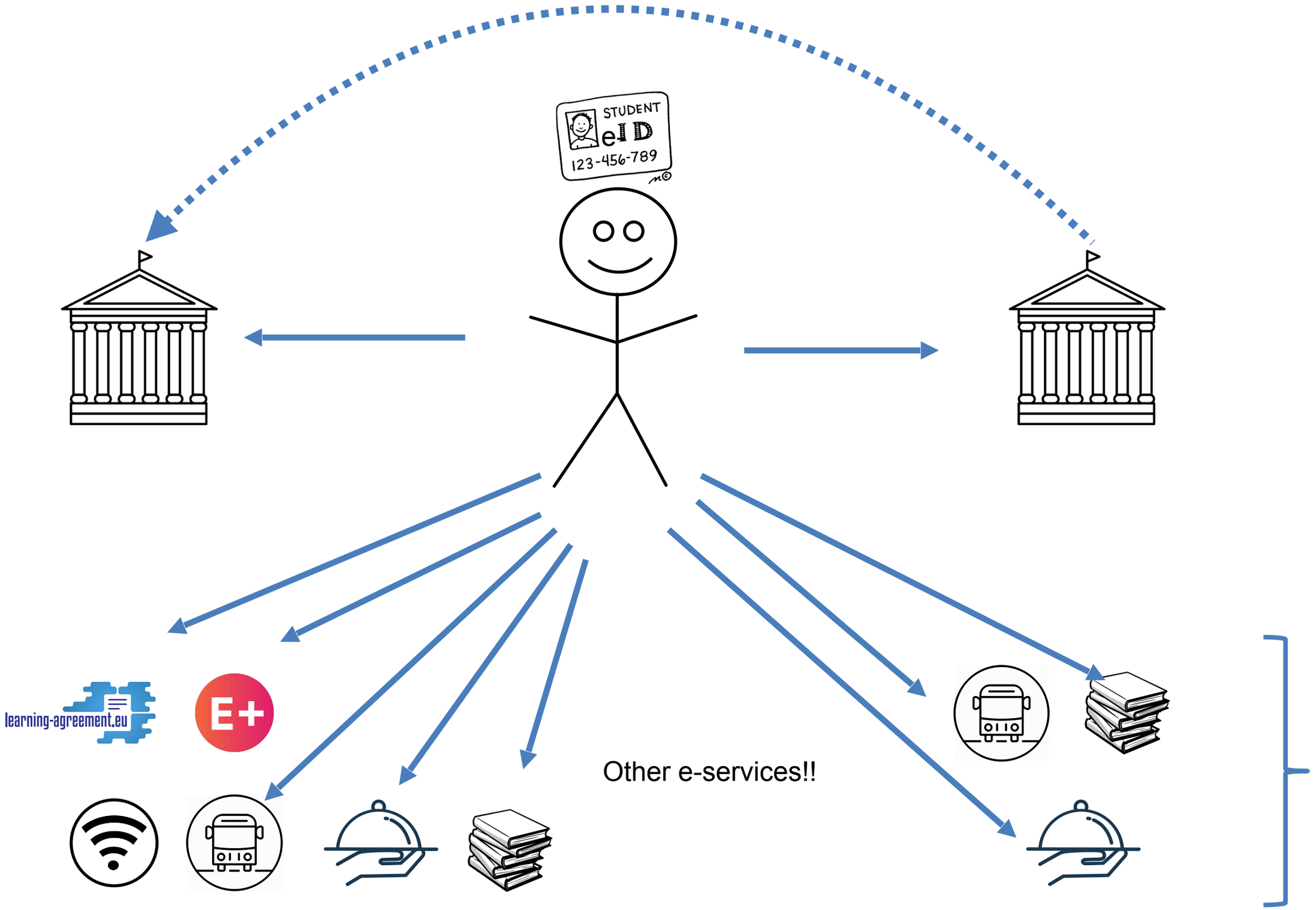


A European student eID scheme for higher education

- Federated electronic authentication
- Access to e-services
- Strengthened student status

eIDAS

eduroam

erasmus without paper

eduGAIN

THE EUROPEAN STUDENT CARD

InAcademia
ONLINE STUDENT VALIDATION

Technical Blueprint

Blueprinting a European eID for Higher Education

MyAcademicID

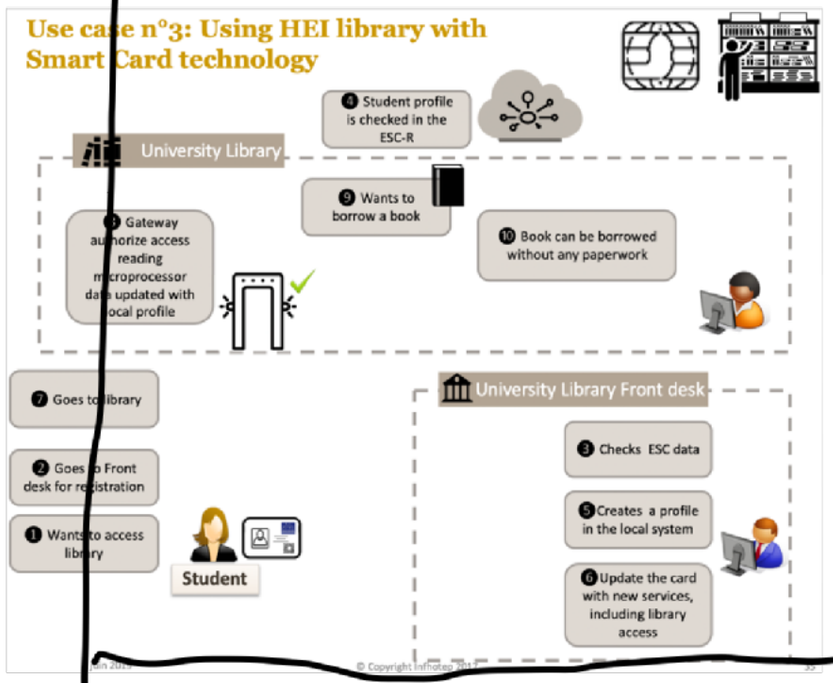
Identification & Authentication

Assurance

Complementarity

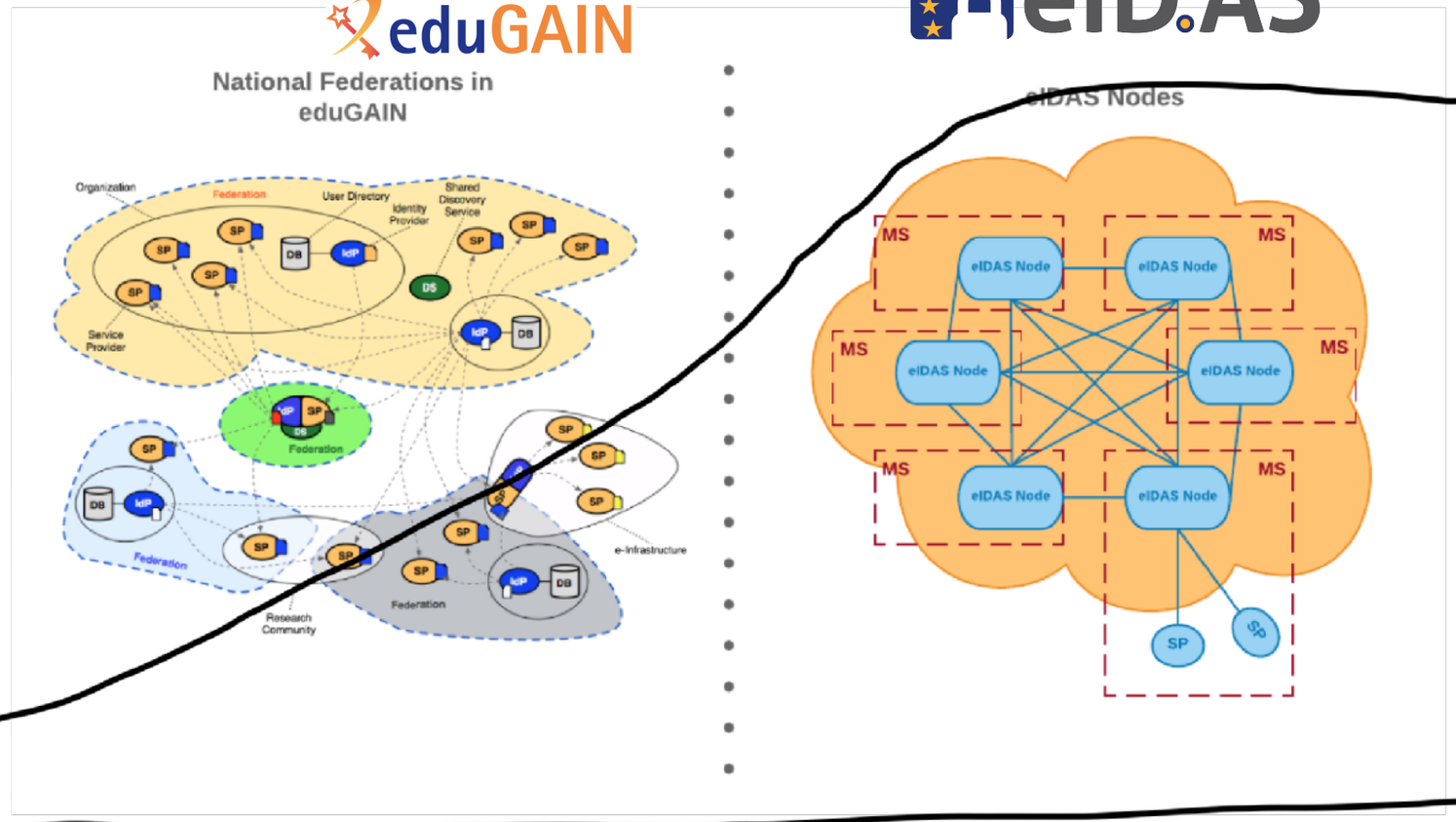
THE EUROPEAN STUDENT CARD

InAcademia
ONLINE STUDENT VALIDATION



eduroam

eduGAIN



eIDAS

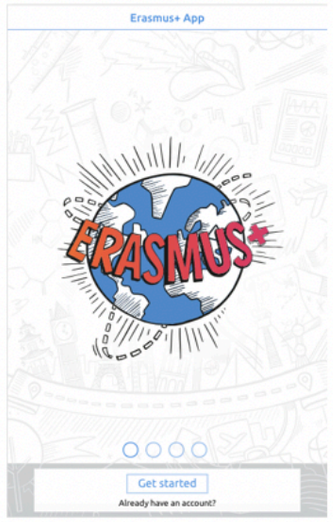
Identification

Authentication

Erasmus Services

learning-agreement.eu

ERASMUS DASHBOARD



phdhub
CONNECT · RESEARCH · INNOVATE

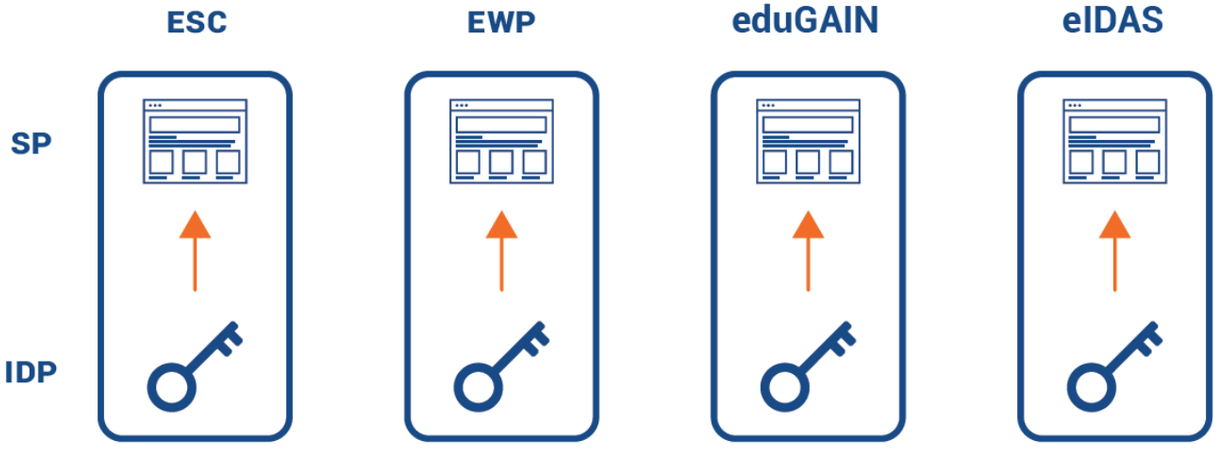
E-service providers

Use cases

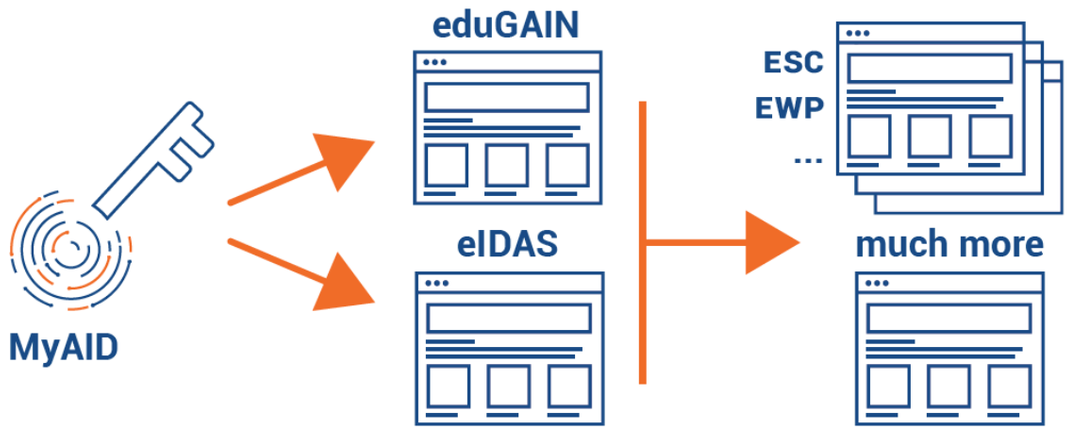
erasmus without paper

MyAcademicID

CURRENT SITUATION



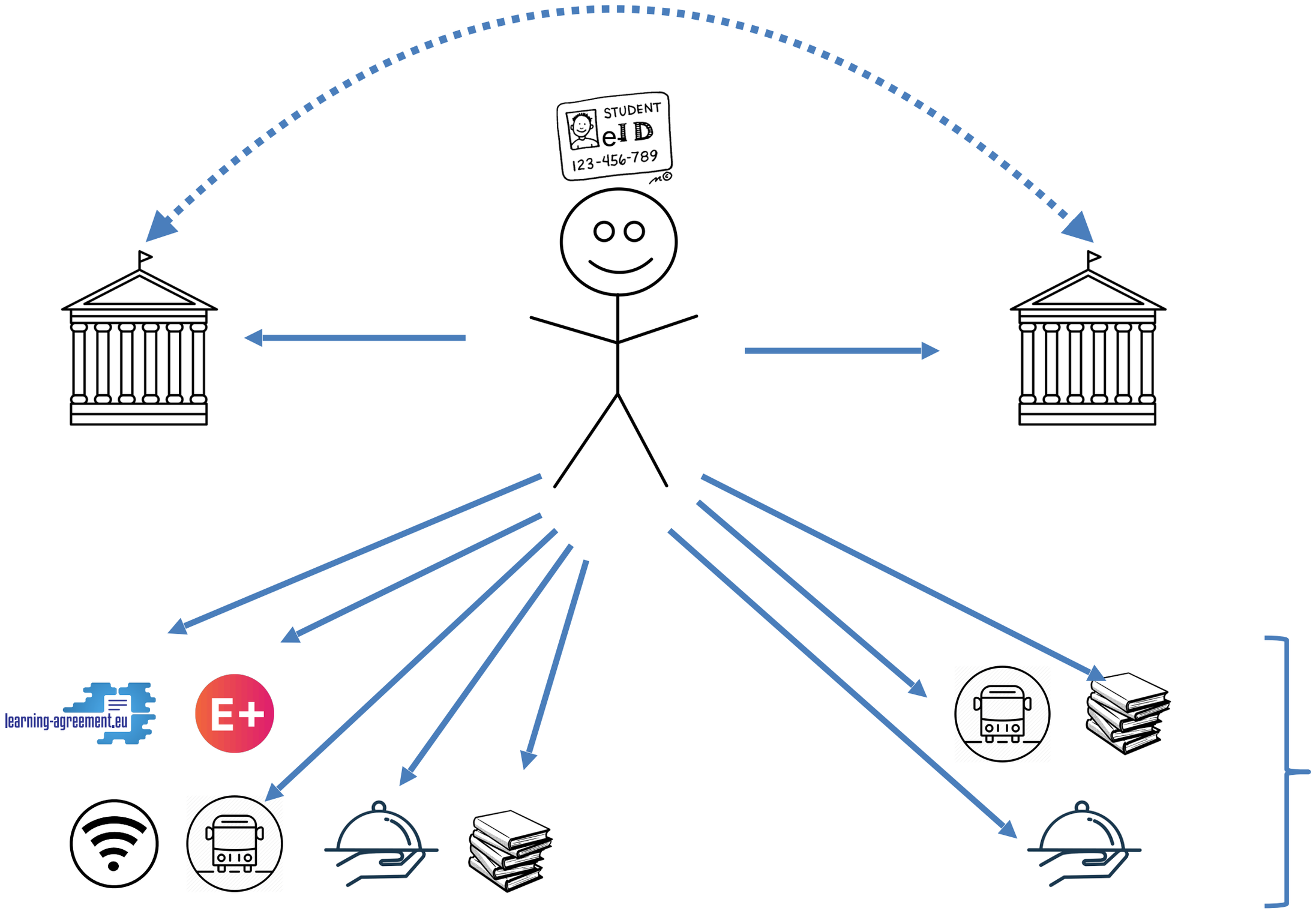
AFTER MyAcademicID



FEWER SILOS, MORE CONNECTIVITY AND GLOBAL ACCESS TO e-SERVICES THROUGH A SINGLE SIGN-ON!

Integrating multiple eIDs from different existing ecosystems, will enable the possibility to overcome the actual silos architecture.
One student eID scheme will give students access to a wide range of different services that currently live in different systems.
Moreover, this approach will open the possibility for future integration with more services.

What will this look like in practice?



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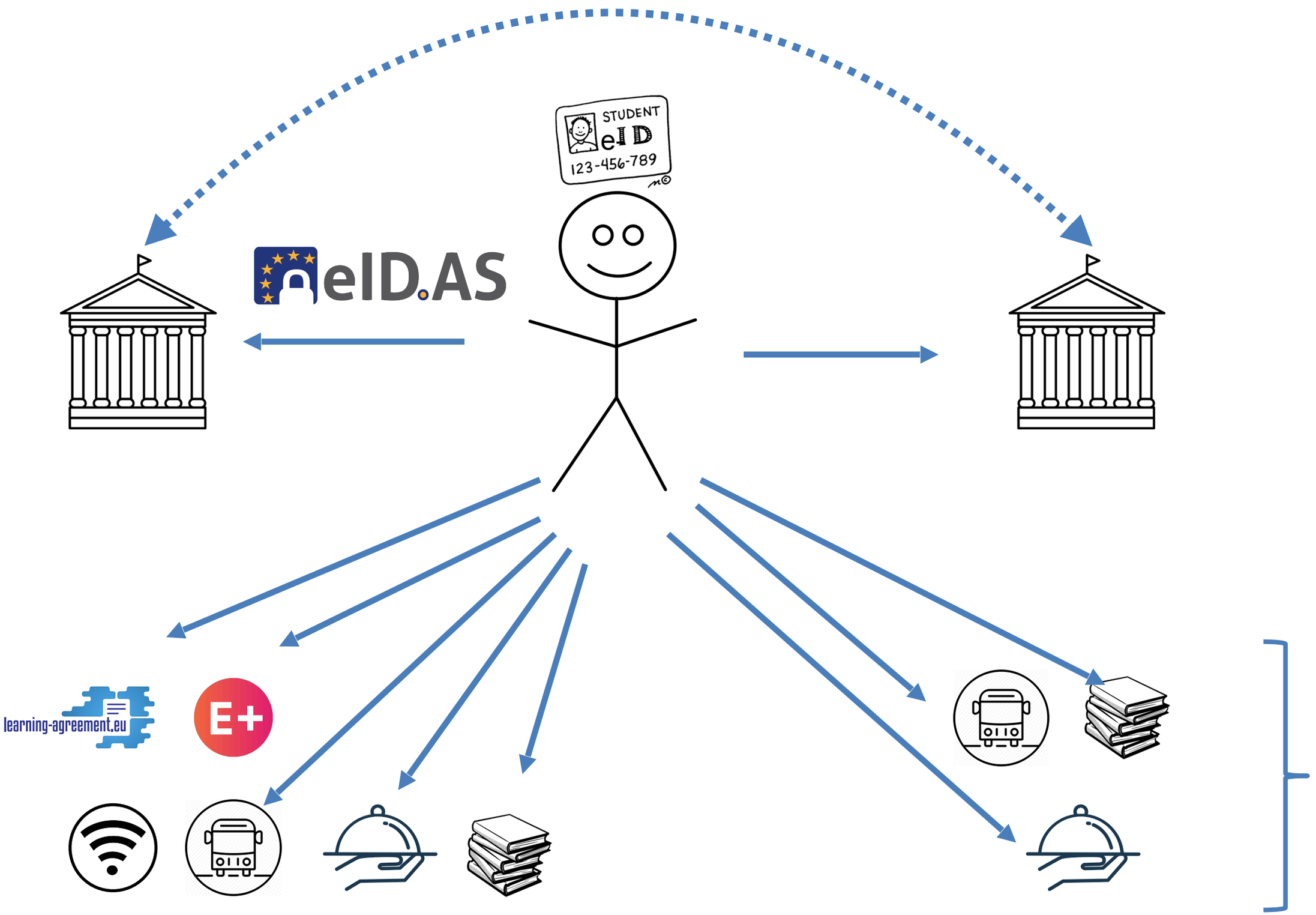

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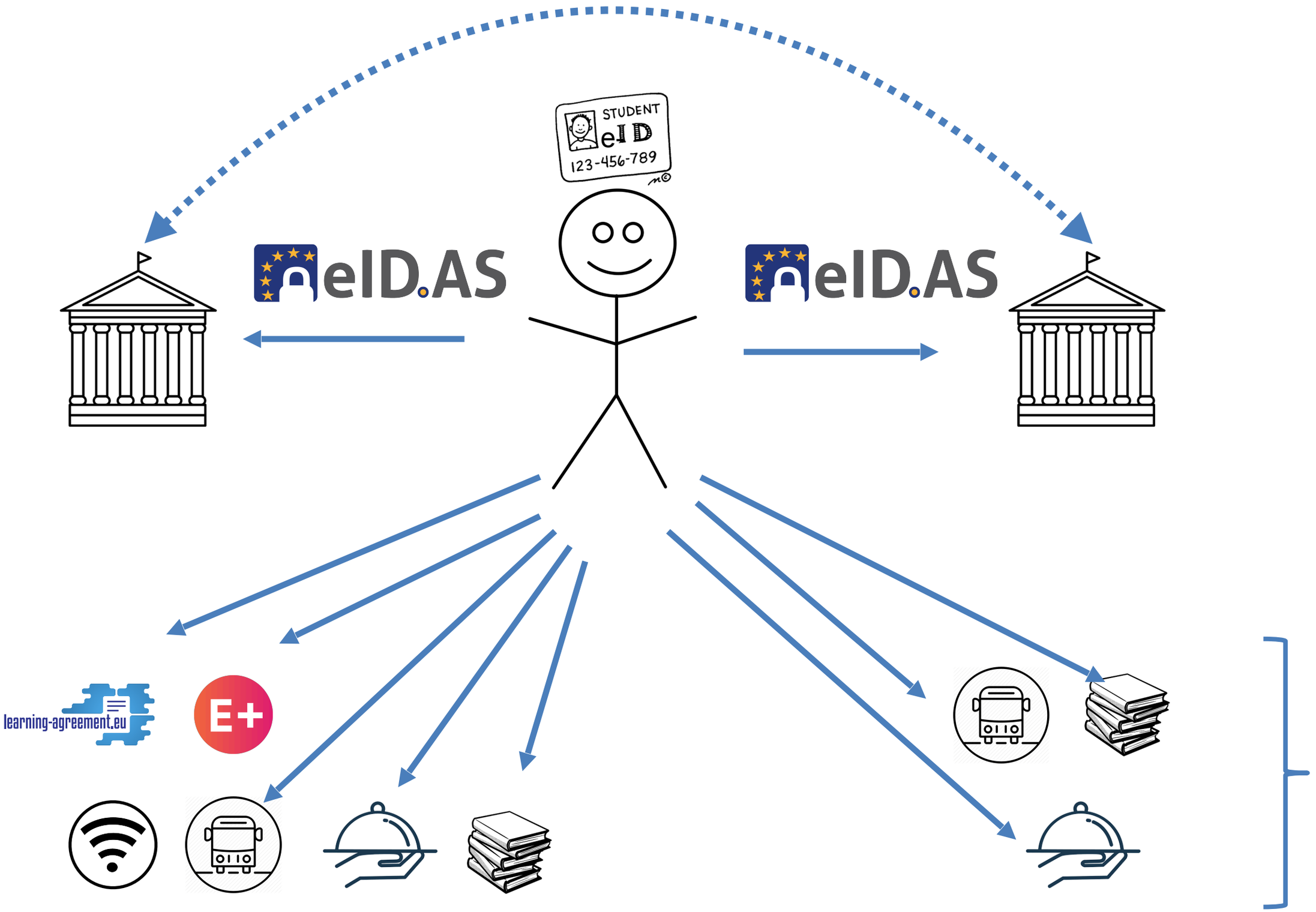

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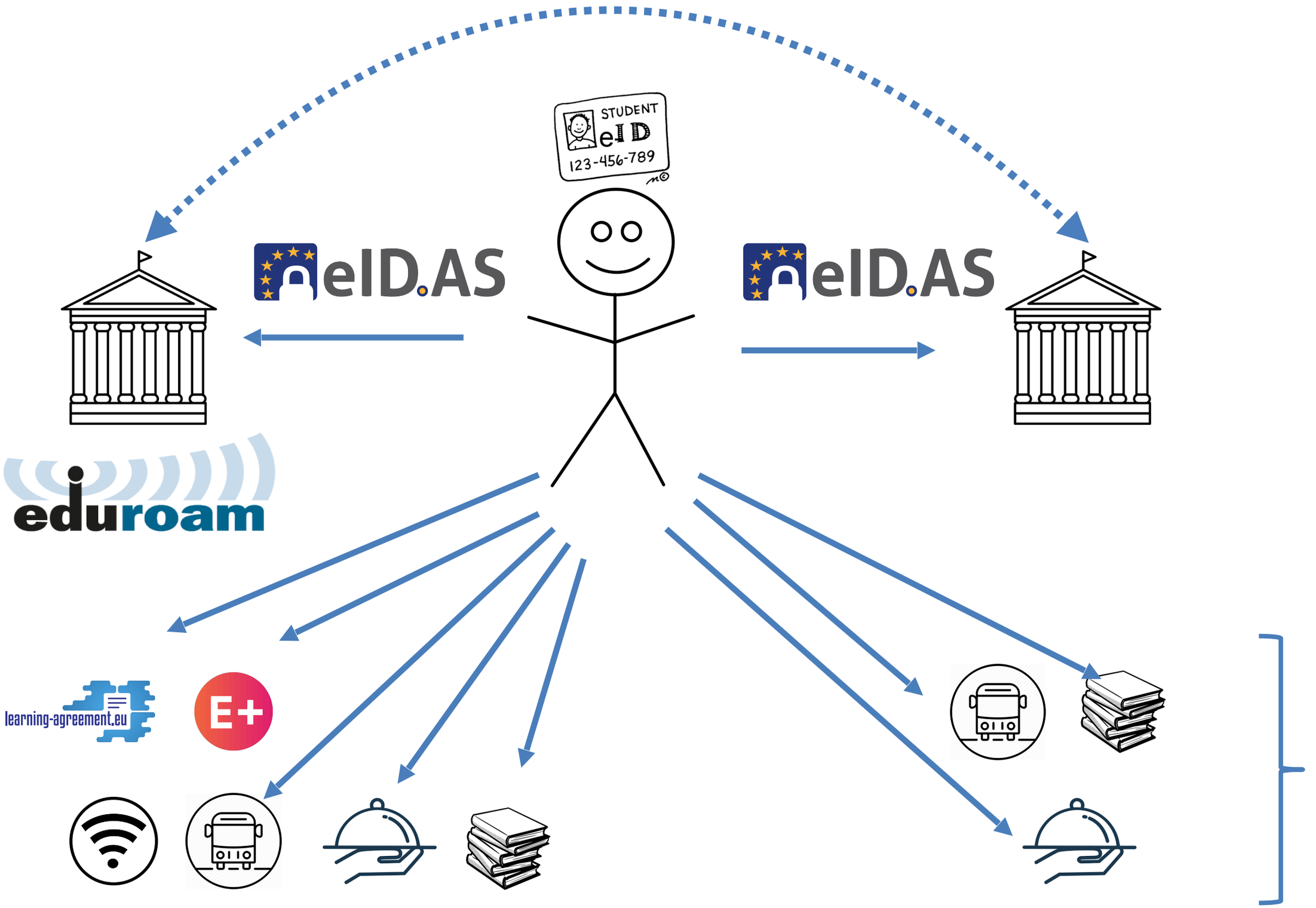

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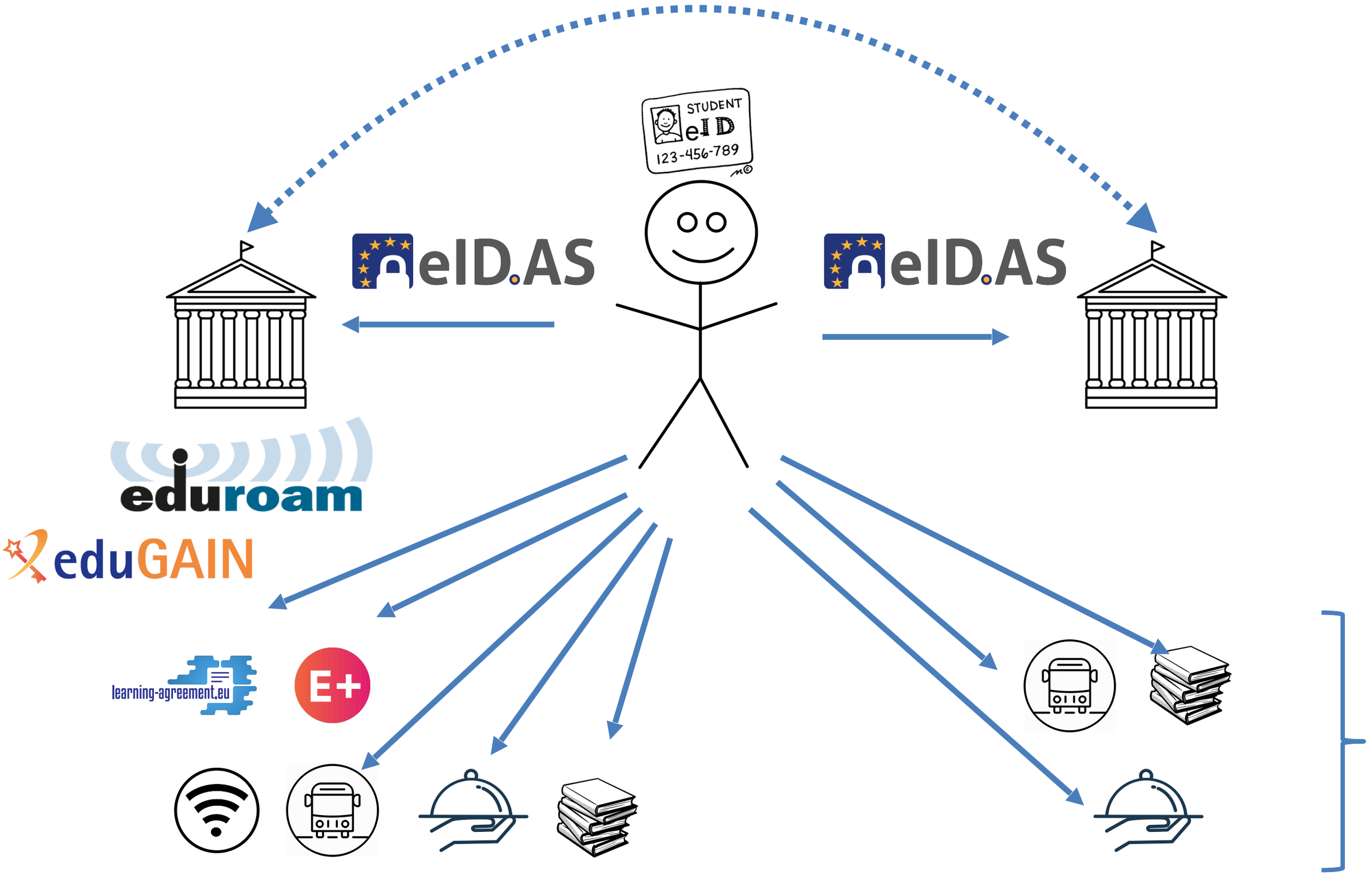

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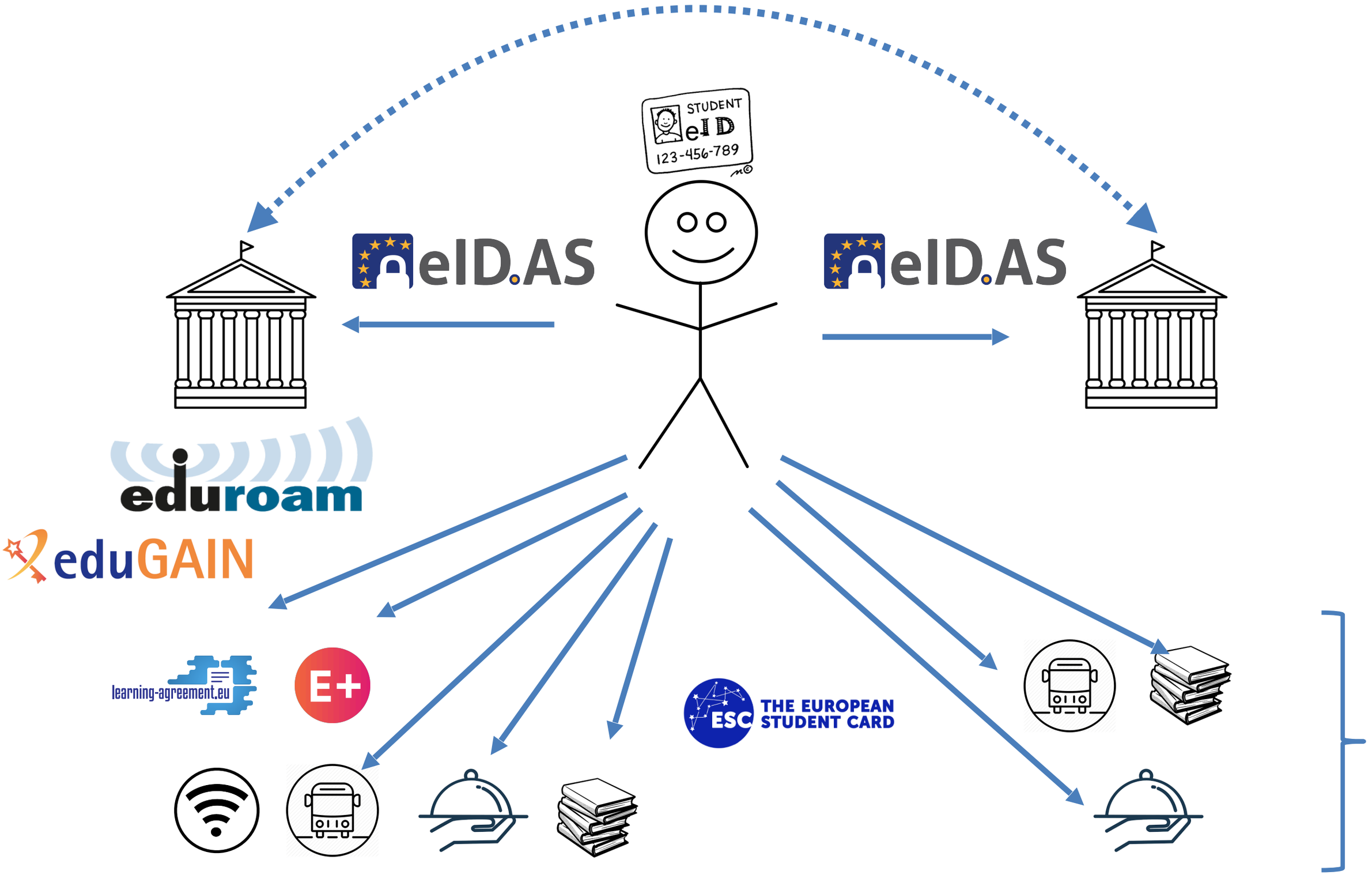

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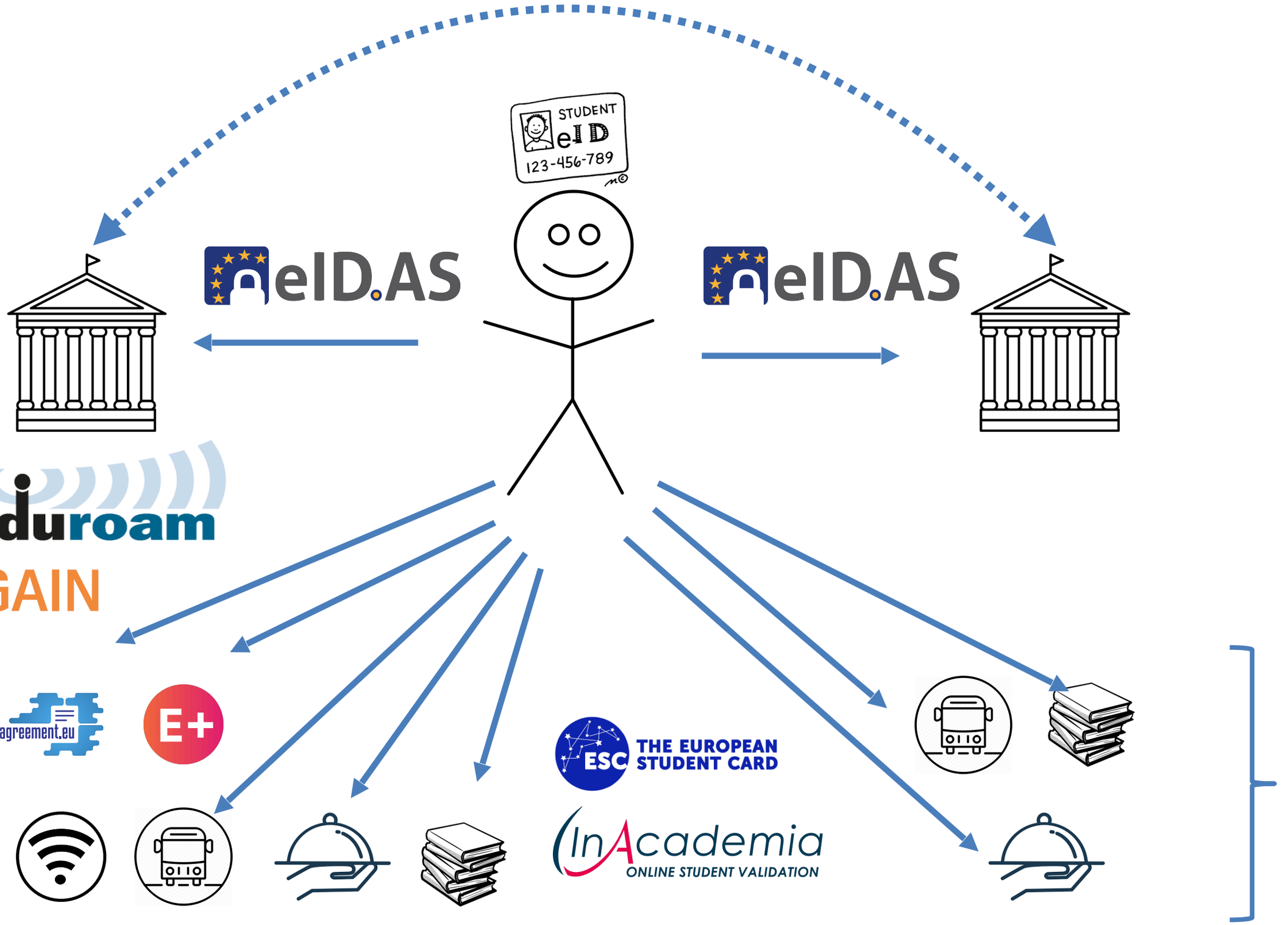

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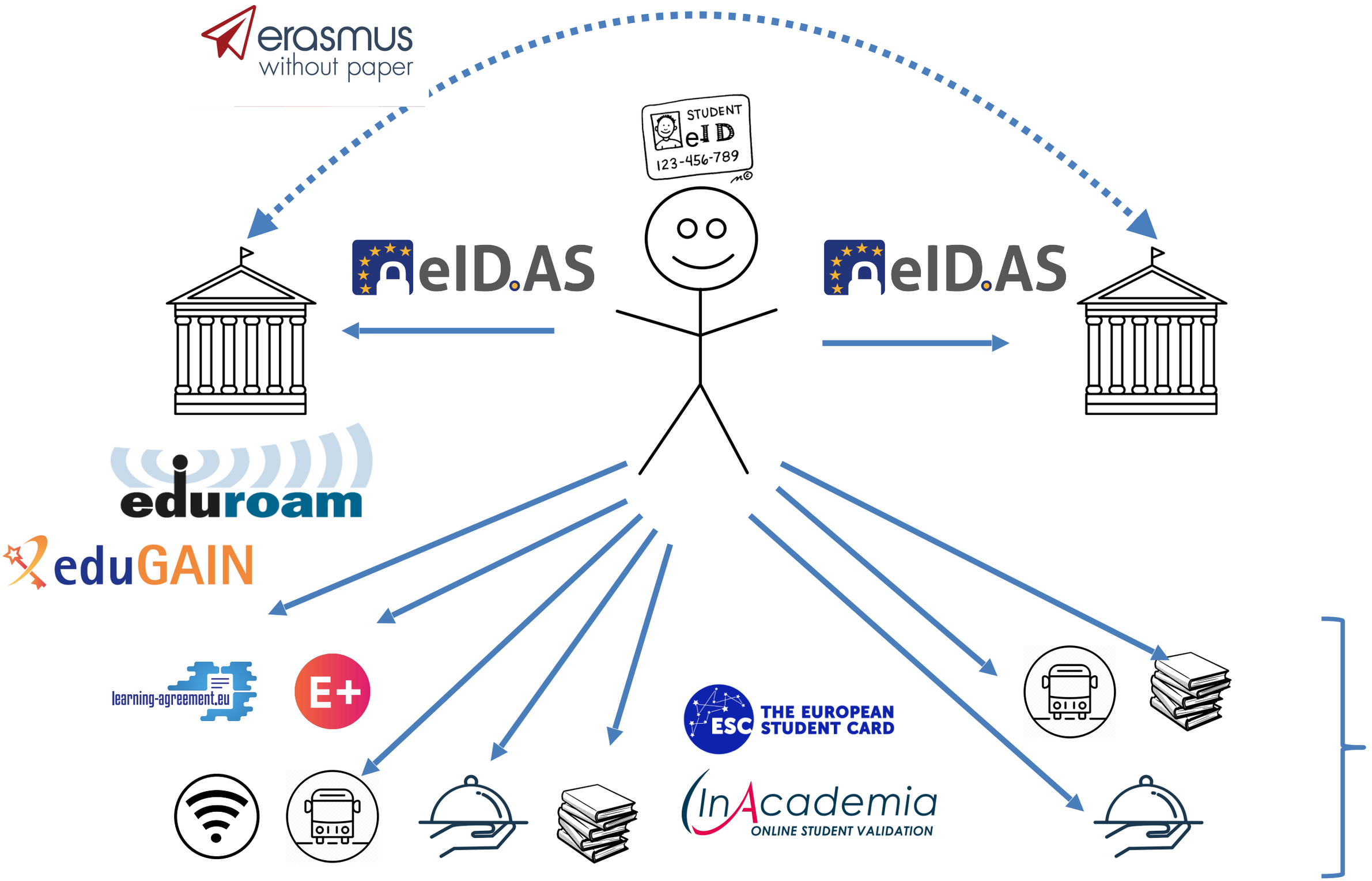
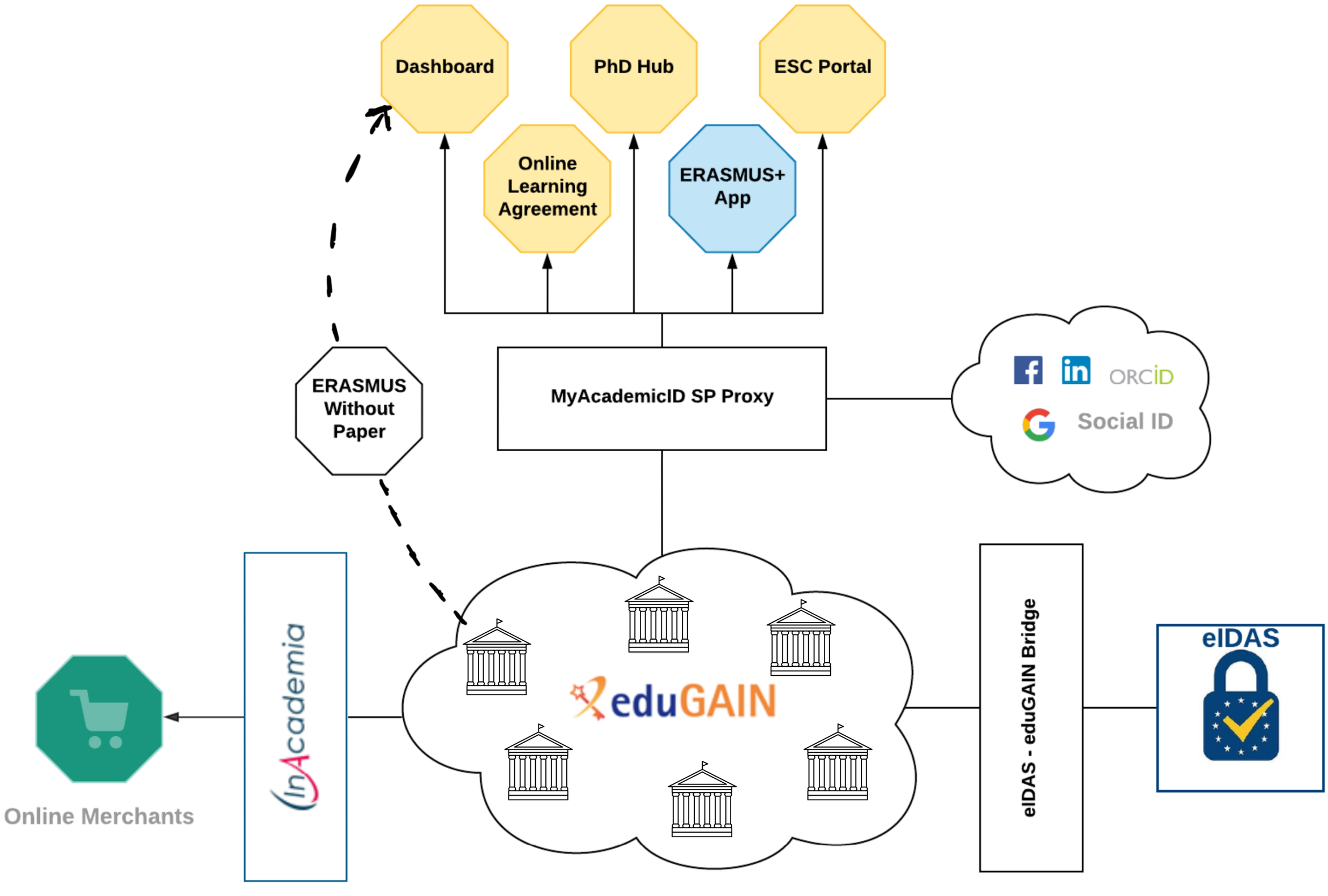
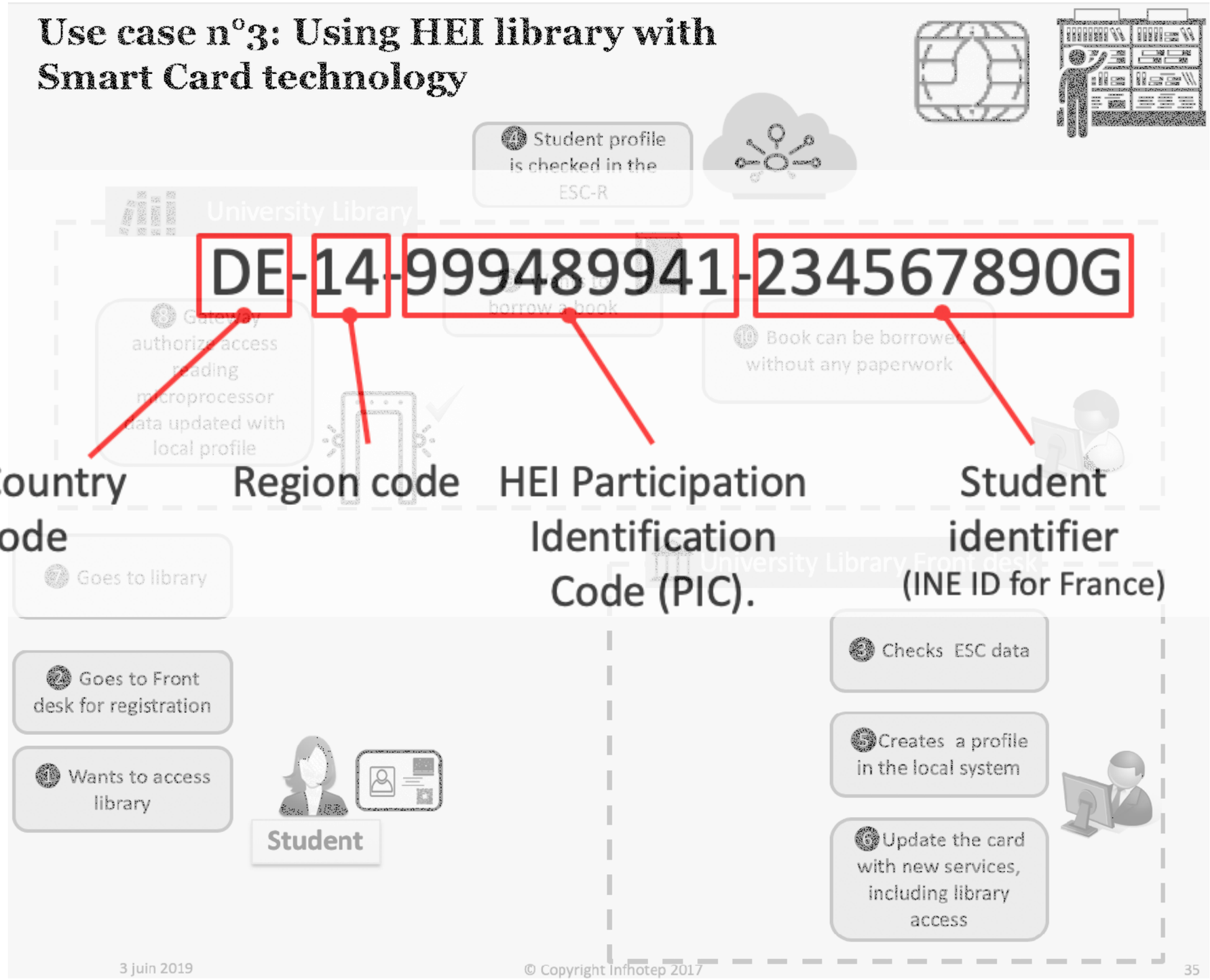


MyAcademicID Blueprint Architecture



European Student Identifier



European Student Identifier

Criteria	European Student Identifier (ESI)	eduPerson Principal Name (ePPN)	eduPerson Targeted ID (ePTID)	schac Personal Unique Code	schac Personal Unique ID	subject ID	ORCID ID
Target audience	Student	R&E Community	R&E Community	R&E Community	R&E Community	Security subjects (generally but not exclusively people)	Researchers
Adoption rate	limited to ESC pilot institutions	commonly used in eduGAIN	commonly used in eduGAIN	not commonly used in eduGAIN but more within boundaries of federations and/or institutions	not commonly used in eduGAIN but more within boundaries of federations and/or institutions	low adoption (new identifier)	high adoption (7,218,074 ORCID iDs)
Sustainability	ESI institution part (PIC Code) is about to be replaced	eduPerson specification (201602)	eduPerson specification (201602)	SCHAC specification (version 1.5.0)	SCHAC specification (version 1.5.0)	SAML V2.0 Subject Identifier Attributes Profile Version 1.0	ISO 27729 compatible
Direct link with student unique code in student record	ESI right part directly matches the student unique code in HEI at enrollment	Depends on the value used for the user ID in the left part (name-based generally)	opaque identifier	Yes if the <iNSS> part contains the student unique code in HEI	Must contain a legal unique identifier	Depends on the value used for the user ID in the left part	no reference to student unique code (https URI with 16 digits number)
Globally unique	Same principle as IBAN banking format (guarantee of uniqueness)	Globally unique in a federation context	Globally unique in a federation context	Yes but the value of the <INSS> part must be defined accordingly	globally unique by design	suitable for use as a globally-unique external key	globally unique by design
Persistent (stable over time)	institution part potentially subject to change case of student mobility : a student will have as many ESI that he is enrolled to different HEIs	subject to change or reassignement	persistent by design but bound to institution (case of student mobility)	can potentially be bound to institution depending on the value of INSS	persistent by design	persistent by design but bound to institution (scope part)	persistent by design
Non-targeted	services independent	services independent	service specific its value will change from one service to another	services independent	services independent	services independent	services independent
Protocol neutral	specification of R&E claims and scope for OIDC needed	SAML specific (scoped attribute)	SAML specific	specification of R&E claims and scope for OIDC needed	specification of R&E claims and scope for OIDC needed	SAML specific	specification of R&E claims and scope for OIDC needed
Data transport neutral	no tied to a transport mechanism	Federation specific (not necessarily stored in user directory, can be generated on-the-fly by the IdP)	Federation specific (generally not stored in user directory and generated directly by the IdP)	no tied to a transport mechanism	no tied to a transport mechanism	Federation specific	no tied to a transport mechanism

schacPersonalUniqueCode

Name	**schacPersonalUniqueCode**
Description	Specifies a “unique code” for the subject it is associated with. Its value does not necessarily correspond to any identifier outside the scope of the directories using this schema. This might be Student number, Employee number,...
OID	1.3.6.1.4.1.25178.1.2.14
Format	**urn:schac:personalUniqueCode:<country-code>:<iNSS>** The <country-code> must be a valid two-letter ISO 3166 country code identifier or the string “int”, and assigned by the SCHAC URN Registry for this attribute at https://wiki.refeds.org/display/STAN/SCHAC+URN+Registry <iNSS> is a Namespace Specific String as defined in RFC 2141 but case insensitive, from a nationally controlled vocabulary, published through the URI identified at the above mentioned SCHAC URN registry.
Number of values	Multi
Examples	Common values: urn:schac:personalUniqueCode:int:studentID:<country-code>:<code> National extensions: urn:schac:personalUniqueCode:fi:tut.fi:hetu:010161-995A urn:schac:personalUniqueCode:es:uma:estudiante:a3b123c12 urn:schac:personalUniqueCode:se:LIN:87654321

European Student Identifier

`urn:schac:personalUniqueCode:<country-code>:<eNS>:<sHO>:<code>`

European Student Identifier

`urn:schac:personalUniqueCode:<country-code>:<eNS>:<sH0>:<code>`

- **<country-code> is a valid two letter ISO 3166 country code identifier or the string “int” and assigned by the SCHAC URN Registry.**

European Student Identifier

`urn:schac:personalUniqueCode:<country-code>:<eNS>:<sH0>:<code>`

- <country-code> is a valid two letter ISO 3166 country code identifier or the string “int” and assigned by the SCHAC URN Registry.

- <eNS> is the string “ESI” or a string from a nationally controlled vocabulary that denotes that this is a European Student Identifier and which is published in the SCHAC URN Registry.

European Student Identifier

urn:schac:personalUniqueCode:<country-code>:<eNS>:<sH0>:<code>

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- <sHO> OPTIONAL – This is the schacHomeOrganization. Specifies a person´s home organization using the domain name of the organization. Required if the student code is provided by the Home Organization of the student and there can be no guarantees that it uniquely identifies the student within the member state.

European Student Identifier

`urn:schac:personalUniqueCode:`<country-code>`:`<eNS>`:`<sH0>`:`<code>

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- <code>: The code of the student that uniquely identifies the student within the scope that has been issued. <code> has to be a URN string following the requirements of RFC 2141

ESI - Examples

Student codes issued and managed centrally at the Member State level

```
urn:schac:PersonalUniqueCode:hr:ESI:074482393D
```

Student codes are issued and managed by the HEI

```
urn:schac:PersonalUniqueCode:es:ESI:uma.es:178920393
```

Student codes are issued by sub units of HEI

```
urn:schac:PersonalUniqueCode:es:ESI:yyy.uma.es:0001-1253-8502-9001
```

MyAcademicID

Benefits

- Secure and seamless exchange of information
- Reliable student identification and authentication
- Reuse of existing digital structures
- Online management of mobility process
- Access to e-services through single sign-on
- Reinforced student status
- Reduced administrative

Thank you

Licia Florio
licia.florio@geant.org

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