



Streamlining Automatic Recognition within a University Alliance Challenges and Success Factors from the Perspective of ENHANCE

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2. The ENHANCE One Campus



3. European Education Pathways Program



4. Improving Recognition in ENHANCE+









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European University of Technology AlliaNCE

- 2nd generation alliance (funding period: 2020-23 / 2023-27)
- 10 leading European technical universities
- Foci: 1. Digitalization & AI, 2. Climate Action, 3. Sustainable Cities





Warsaw University of Technology











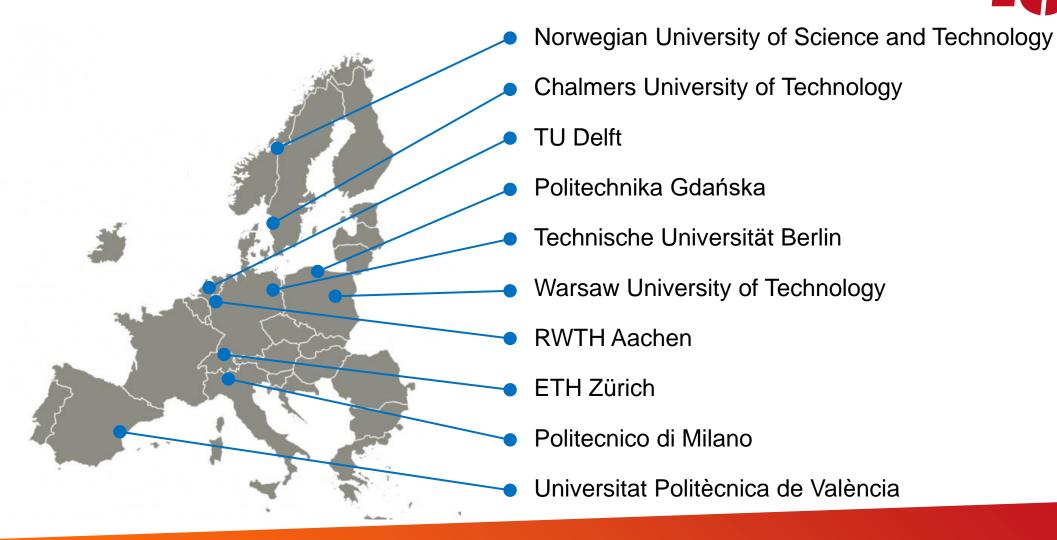








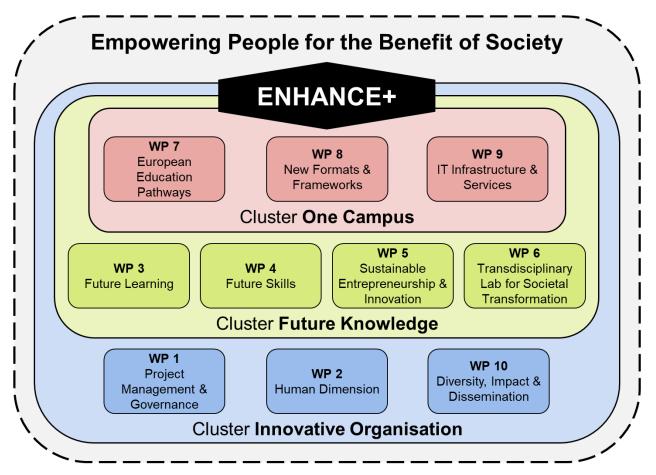








- 10 Work Packages (WP),= one per partner
- Divided into three "clusters"
 - 1. One Campus
 - 2. Future Knowledge
 - 3. Innovative Organisation











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Cluster One Campus:

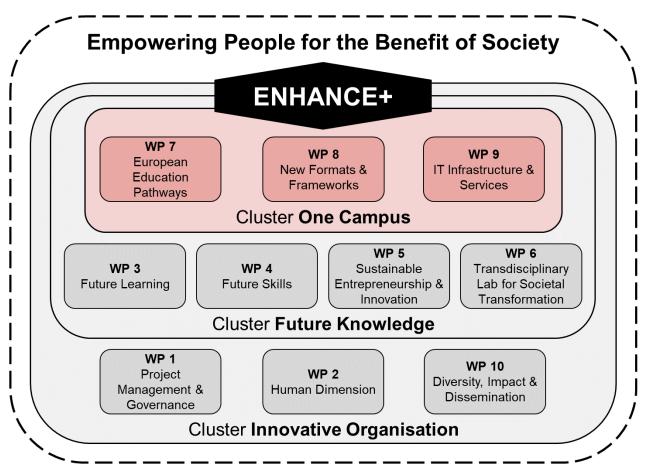
- European Education Pathways (WP7)
- New Formats & Frameworks (WP8)
- IT Infrastructure & Services (WP9)

Main Goal:

Closly connecting all partners towards a "transnational campus".

Measures:

- New educational formats
- Better administrative frameworks
- Improved IT services







Work Package:

WP7 - European Education Pathways

WP8 – New Formats & Frameworks

WP9 – IT Infrastructure & Services

Main Objective:

Give students the opportunity to design their study path based on **curricular courses** offered by several member universities.

Enrich the One Campus with a diverse catalogue of **short**term educational offers, including a minimum of 30 joint micro-credentials.



Provide **effective IT solutions** for the European Education Pathways and micro-credential offers, and to drive the digital transformation of the European Education Area.





NHANCE ONE CAMPUS

Work Package: Addresses (automatic) recognition...

WP7 - European Education Pathways



...of curricular courses.

WP8 – New Formats & Frameworks



...of extra-curricular courses.

WP9 – IT Infrastructure & Services



...from a digitalization perspective.





Addresses (automatic) recognition... Work Package: WP7 - European Education Pathways ...of curricular courses WP8 – New Formats & Frameworks ...of extra-curricular courses ...from a digitalization perspective WP9 – IT Infrastructure & Services









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3. European Education Pathways Program – Overview



Computer Science

Mechanical Engineering

- 4 pilot study fields
- Common course catalogue with >1.000 courses
- Combination of physical, virtual, and short-term mobility

Energy Engineering

Urban Planning

- Main goal: internationalization of involved pilot degree programs via mutual integration of curricular courses
- Long-term vision: combination with European Degree Label







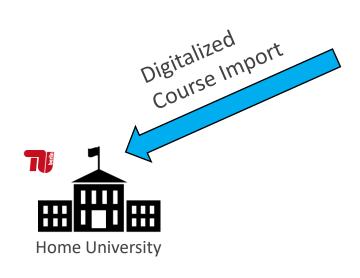




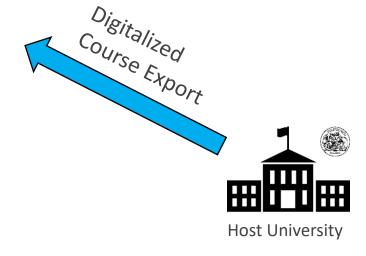








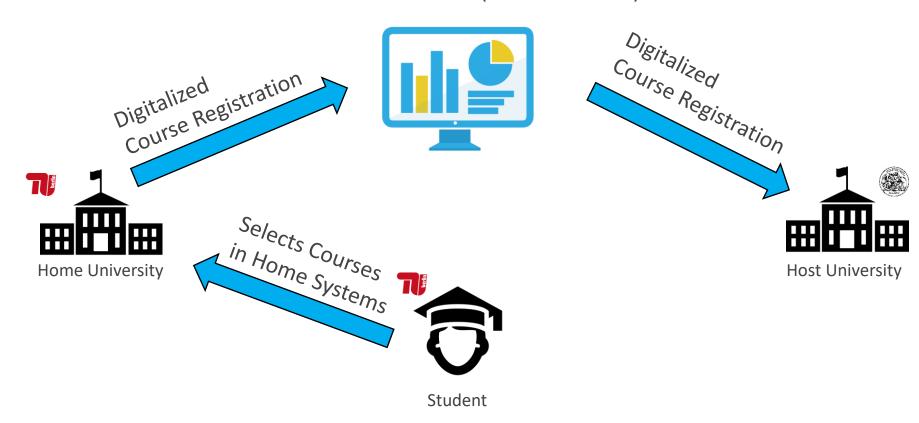






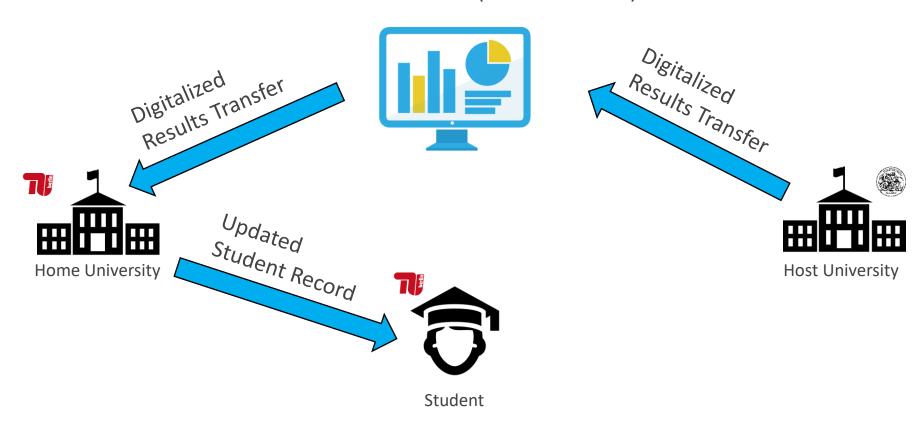














3. European Education Pathways Program – Some Challenges





- ☐ A digitalized data exchange is far more challenging than the original vision suggests.
- A short-term mutual full integration of courses fails due to both technical and regulatory restrictions (→ long-term goal).
- → Academic recognition of credit mobility is handled quite differently among European HEIs.





Course Catalogue (≠ Central Node)





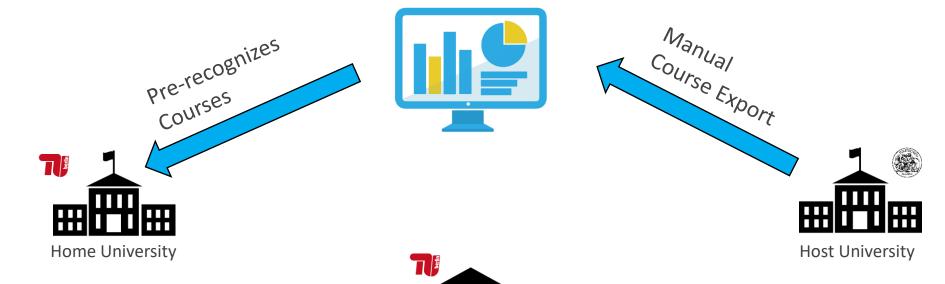








Course Catalogue (≠ Central Node)

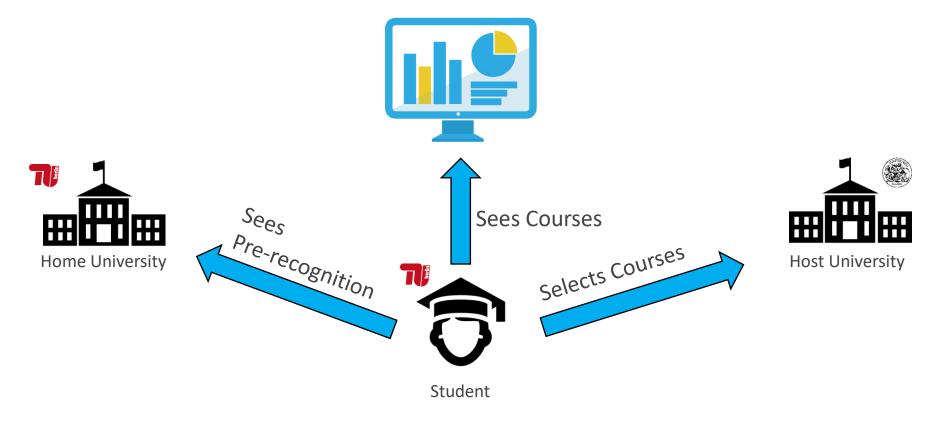


Student





Course Catalogue (≠ Central Node)

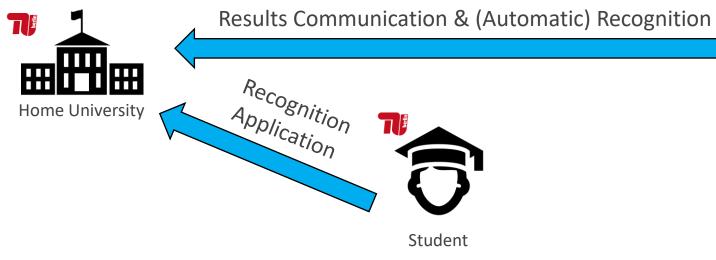






Course Catalogue (≠ Central Node)



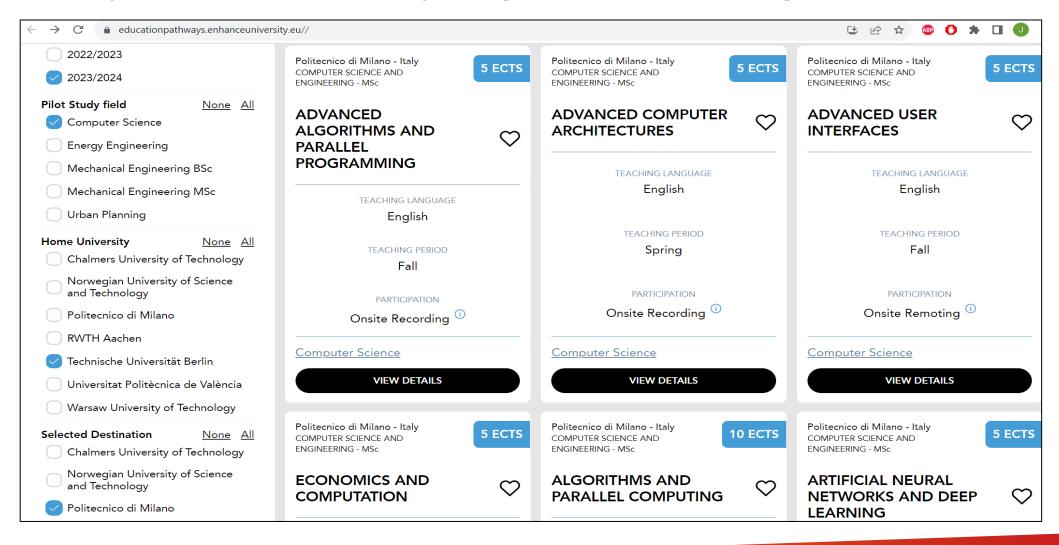






3. European Education Pathways Program – Course Catalogue







3. European Education Pathways Program – Pre-emptive Recognition



HOST UNIVERSITY	COURSE NAME	COURSE CODE	ECTS	DEGREE	TEACHING PERIOD	LANGUAGE	STUDY AREA 1	STUDY AREA 2
POLIMI	Advanced Algorithms and Parallel Programming	095946	5	MSc	Fall	English	Data and Software Engineering	Foundations of Computing
POLIMI	Advanced Computer Architectures	088949	5	MSc	Spring	English	Foundations of Computing	Embedded Systems and Computer Architectures
POLIMI	Advanced User Interfaces	097685	5	MSc	Fall	English	Digital Media and Human- Computer Interaction	free elective
POLIMI	Algorithms and Parallel Computing	052496	10	MSc	Fall	English	Data and Software Engineering	free elective
POLIMI	Artificial Neural Networks and Deep Learning	054307	5	MSc	Fall	English	Digital Media and Human- Computer Interaction	Cognitive Systems
POLIMI	Business Information Systems 1	091023	5	MSc	Spring	English	Distributed Systems and Networks	free elective
POLIMI	Code Transformation and Optimization	090957	5	MSc	Fall	English	free elective	free elective
POLIMI	Computer Graphics	090958	5	MSc	Spring	English	Digital Media and Human- Computer Interaction	free elective
POLIMI	Computer Security	055633	5	MSc	Spring	English	Distributed Systems and Networks	free elective
POLIMI	Computing Infrastructures	095898	5	MSc	Spring	English	Embedded Systems and Computer Architectures	free elective
POLIMI	Cryptography and Architectures for Computer Security	095947	5	MSc	Spring	English	Data and Software Engineering	free elective
POLIMI	Data Bases 2	089183	5	MSc	Fall	English	Data and Software Engineering	free elective
POLIMI	Data Management For The Web	094743	5	MSc	Fall	English	Data and Software Engineering	free elective



3. European Education Pathways Program – Some Solutions





- ✓ Make use of already existing tools and follow-up on ongoing EU initiatives. Avoid parallel processes and don't try to reinvent the wheel!
- ✓ Pre-emptive and simplified recognition instead of a full mutual integration of courses (long-term goal).
- ✓ EUNs as a means and tool to improve recognition processes and frameworks through
 - a) best-practice sharing, and
 - b) driving for internal change.









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Improving automatic recognition on three dimensions:

- 1) Culture, 2) Regulations, 3) Practice.
- 1. We will analyze existing attitudes towards recognition and compile information on the implementation of the Lisbon Recognition Convention.
- 2. We will use the results to inform our campaign on improved recognition and create a network of expertise on the subject.
- 3. We will **provide assessments** on how each university can improve automatic recognition within specific rules and regulations. This **set of recommendations** will be agreed upon by all partners.





4. Improving Recognition in ENHANCE+





Achievements during the first project period:

- ✓ Partners have started internal discussions on process improvement.
- ✓ A bettter understanding of existing differences has been reached.
- ✓ An initial survey on recognition cultures & practices was compiled.





ENHANCE WORKING PAPER
DECEMBER 2023





ENHANCE RECOGNITION DATABASE

A fact sheet collection on credit recognition cultures and practices within the ENHANCE Alliance

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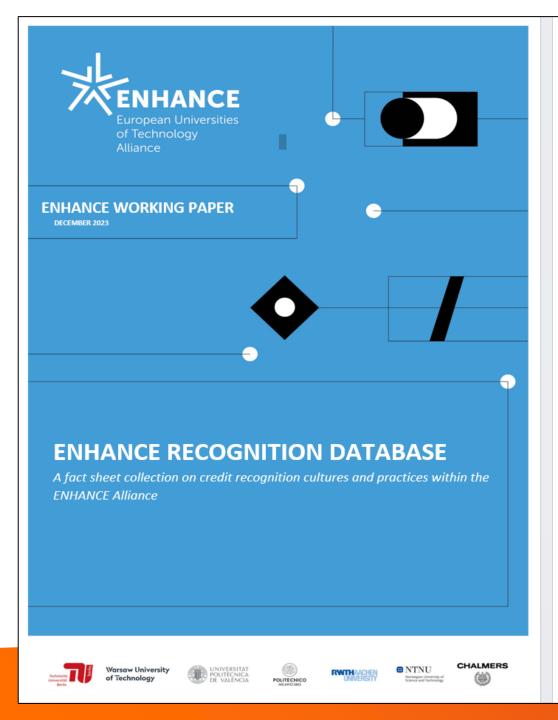












Some factors that have impact on efficient and student-friendly recognition processes:

- > Level of centralization
- > Level of approval
- > Level of trust
- > Level of digitalization
- > Level of flexbility of the curriculum design
- ➤ Level of flexibility of the recognition process
- ➤ Level of competence of the credit evaluator







Thank you for your attention!



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