



Towards a European Digital Campus: ESCI driving interoperability for University Alliances

ESCI Day Italy - Second Edition

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From digital Erasmus to the European Digital Campus



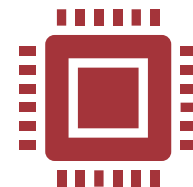
ESCI started with Erasmus mobility

simpler procedures, digital workflows,
interoperable data exchange.



European University Alliances go one step further

multilateral mobility, joint programmes,
shared services, common digital
identities.



This makes Alliances a living lab for ESCI

they show how ESCI can evolve from
an administrative tool into an
infrastructure for the European Digital
Campus.

Why Alliances are a testbed for ESCI

From a bilateral corridor to a European campus

ERASMUS

A bilateral corridor



Home University



Host University



Bilateral exchange



One workflow



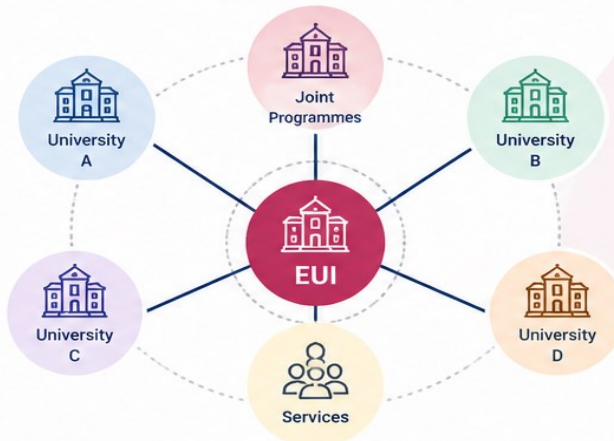
Two systems



SCALE-UP

EUI – ALLIANCE

A European campus



Shared services



Multiple formats



Different IT systems



European interoperability



Alliances allow us to **test interoperability at scale**, to build a more connected, efficient and student-centred European campus.

ESCI: A driving force for Digital Transformation



ESCI acted as a strategic **accelerator** for our university's digital transformation journey within the European alliance



ESCI fostered the adoption of more innovative, interoperable, and **service-oriented digital processes**



The initiative created the conditions to experiment with new organizational and technological models, **strengthening collaboration** among European universities

EC2U: European Campus of City-Universities



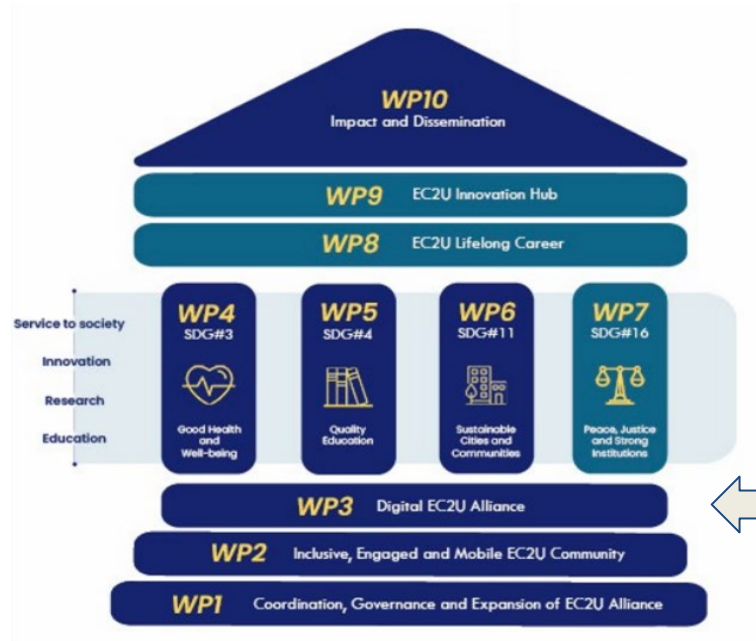
EC2U is a European University Alliance bringing together universities that are **strongly connected to their cities and local ecosystems**.

Its ambition is to build a distributed European campus, where students, academics, researchers and staff can more easily access **learning opportunities, mobility schemes, joint activities and shared services**.

For the University of Pavia, EC2U is a strategic context to experiment with new models of mobility and cooperation, but also to rethink the digital processes supporting internationalisation.



The EC2U aim: The mobilities



| From bilateral Erasmus to Alliance mobility

EC2U mobility offer a wider range of formats and needs:

- Multilateral mobility flows
- Short-term blended mobility
- Staff mobility
- Joint educational activities
- Joint programmes
- Shared student services
- Alliance-wide information systems

Alliances help ESCI test mobility scenarios that are becoming increasingly common

The EC2U digitalisation framework

Mobility Planning

collecting and linking data about courses, research and skills

Mobility Management

exchanging data among all universities reducing the human interactions

Mobility Experience

increasing the value of mobility

Mobility Intelligence

strategic decision-making and alliance-wide monitoring

Mobility Planning: KH, a centralized space for the Community

The screenshot displays the Knowledge Hub interface. On the left, there is a search bar with the text 'Name' and a search icon. Below it are several filter sections: 'University' with a list of universities and their respective match counts (Coimbra: 204, Turku: 9, Jena: 8, Salamanca: 4,087, Pavia: 3,899, Linz: 3,055, Iași: 10, Poitiers: 7); 'Level' with a list of levels and their match counts (.blank: 193, 6 - Bachelor's or equiv...: 15, 7 - Master's or equiv...: 7, 9 - Not elsewhere clas...: 6, 8 - Doctoral or equiv...: 0); 'Language', 'Attendance', 'Duration', '# Credits', 'Subjects', 'Audience', and 'Free for Externals'. At the bottom of the filters, it says '221 matches'. The main content area is titled 'Courses' and features three course listings. Each listing includes the course title, a brief description, and the university name.

University	Count
Coimbra	204
Turku	9
Jena	8
Salamanca	4,087
Pavia	3,899
Linz	3,055
Iași	10
Poitiers	7

Level	Count
.blank	193
6 - Bachelor's or equiv...	15
7 - Master's or equiv...	7
9 - Not elsewhere clas...	6
8 - Doctoral or equiv...	0

Course Title	University
AI & Cybersecurity	Turku
Advanced Specialisation Course - Postdoctoral studies in Sports Sciences	Coimbra
Advanced Specialization Course - Cognitive Neuroscience Project Research	Coimbra
Advanced Specialization Course in Radiopharmacy	Coimbra

One Access Point for the Community

The Knowledge Hub provides students with a centralized platform to access the information needed to effectively plan and manage their mobility experience across the alliance

A Growing Multi-Dataset Repository

The platform currently includes six datasets — such as events and course offerings — with additional datasets under development to further enrich the available information ecosystem

Advanced Data Integration Pipelines

The Knowledge Hub combines traditional integration technologies with web scraping techniques, while modern language-model-based systems support automated content synthesis and multilingual translation

Mobility Planning: KH, a centralized space for mobility

The screenshot displays the Knowledge Hub interface. On the left, there is a sidebar with various filters: a search bar, a 'University' filter with a list of institutions (Coimbra, Turku, Jena, Salamanca, Pavia, Linz, Iași, Poitiers) and their respective match counts, a 'Level' filter with options from 'blank' to 'Doctoral or equivalent', and dropdown menus for 'Language', 'Attendance', 'Duration', '# Credits', 'Subjects', 'Audience', and 'Free for Externals'. The main content area is titled 'Courses' and shows three course listings. The first is 'AI & Cybersecurity' by Turku, with a description about AI and cybersecurity. The second is 'Advanced Specialisation Course - Postdoctoral studies in Sports Sciences' by Coimbra, with a description about academic relationships. The third is 'Advanced Specialization Course - Cognitive Neuroscience Project Research' by Coimbra, with a description about training in cognitive neuroscience. The fourth listing is partially visible: 'Advanced Specialization Course in Radiopharmacy' by Coimbra.

PhD Cotutelles

- jointly supervised doctorate
- conducted at two higher education institutions in different countries
- doctoral candidate is admitted at both institutions


Challenges

- aligning differing doctoral regulations, degree requirements, and examination procedures
- negotiating legal and administrative frameworks (enrolment status, fees)
- coordinating supervision responsibilities, assessment criteria, and timelines

Mobility Management: EWP Driving Interoperability

APPLICATION FORM

for exchange program EC2U Joint Master Degree (WP5)



UNIVERSITÀ
DI PAVIA

All fields marked with (*) must be completed.

- 1 Application
- 2 Profile
- 3 Contacts
- 4 Secondary Education
- 5 University Education
- 6 Languages
- 7 Motivation

Application

Type of Application *
 Incoming Outgoing

Type of person *
 Student Teachers

Mobility Program *
EC2U Joint Master Degree (WP5) ▼

Academic Year *
2026/2027 ▼

Study Program *
<-- Please select --> ▼

EWP-Compliant Mobility System

The EWP initiative encouraged the adoption of a digital mobility management system fully aligned with **Erasmus Without Paper** specifications

Seamless Data Exchange

The platform enables seamless data exchange among partner universities, supporting **interoperability across the alliance ecosystem**.


Supporting Digital Transition

By reducing administrative workload and streamlining mobility processes, EWP has become a **key driver** of the ongoing digital transition within our university

Mobility Management: EWP Driving Interoperability

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Student Teachers

Mobility Program *

EC2U Joint Master Degree (WP5) ▼

Academic Year *

2026/2027 ▼

Study Program *

<-- Please select --> ▼

Mobility Programs

- European Languages, Culture and Societies in contact (WP5)
- Lifelong Wellbeing and Healthy Aging (WP4)
- Lifelong Learning Courses

System Integration

- Student Management System
- Staff Management System
- Course Catalogue
- Card Management System
- National Payment System (PagoPA)
- Microcredential Issuer System
- Mobility Monitoring System

Mobility Experience: EC2U Card, Enhancing Mobility Services



A Shared Digital Identity

The card provides a common digital identity that allows mobility participants to be recognized across all partner universities within the alliance.

Access to University Services

Through the EC2U Card, users can access selected services and facilities offered by host universities, supporting a smoother and more integrated mobility experience

Extending the European Student Card

The EC2U Card builds upon the European Student Card framework by expanding its functionalities for students and staff participating in EC2U mobility activities.

Mobility Experience: EC2U Card, Enhancing Mobility Services



The image shows a digital representation of an EC2U Card. On the left, there is a blue square logo with 'e2' in white and 'cu' in yellow. Below it is the circular seal of the University of Pavia, with the text 'UNIVERSITÀ DI PAVIA' underneath. To the right of these logos, the cardholder's details are listed: Name (Alessia Sacchi), Institution (University of Pavia), Country (Italy · IT), Level (Bachelor), and Validity (2028-04-09). A portrait photo of Alessia Sacchi is positioned to the right of the text. At the bottom left, there are navigation icons: a left arrow and an information icon. At the bottom center, there is a QR code. At the bottom right, there is a blue rectangular logo with a map of Europe and the text 'EUROPEAN STUDENT'.

e2cu

UNIVERSITÀ DI PAVIA

Name
Alessia Sacchi

Institution
University of Pavia

Country
Italy · IT

Level
Bachelor

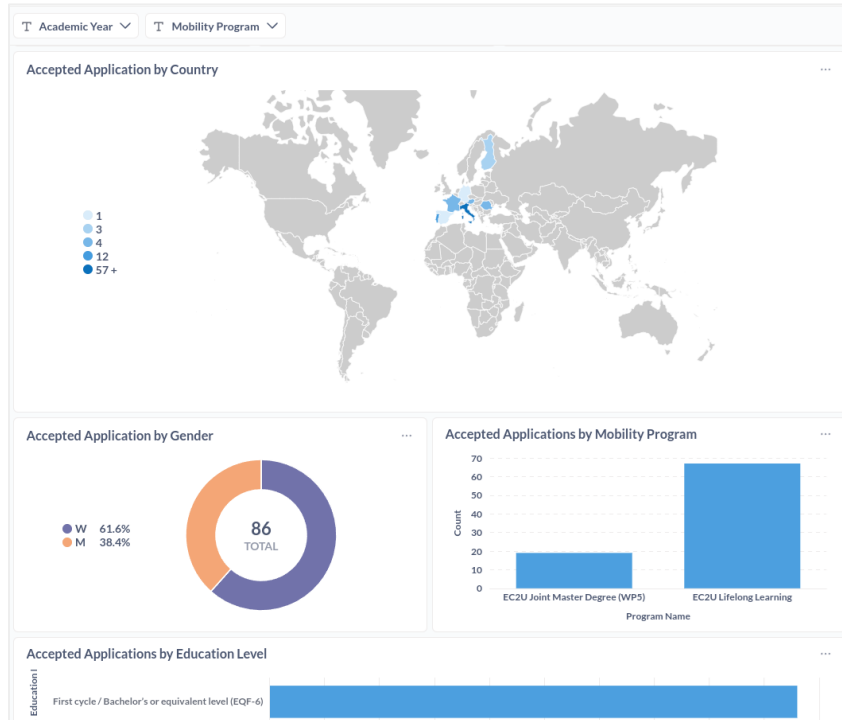
Validity
2028-04-09

EUROPEAN STUDENT

System Integration

- EduGain
- ESC Router
- Local Student Management System
 - for student picture
 - for personal data

Mobility Intelligence: Supporting Strategic Decision-Making



A Dashboard for Mobility Insights

The platform provides interactive dashboards that visualize mobility flows within the alliance, helping stakeholders gain clear and actionable insights.

Data-Driven Decision Support

Charts and analytics support strategic planning and operational monitoring, enabling more informed decisions on mobility policies and collaboration activities.

Integrated Multi-Source Data Collection

The data mart is fed through automated procedures that collect information from the alliance mobility management system as well as from local institutional systems.

Il case study 1

EC2U Multilateral IIA



Erasmus+ Programme

Multilateral Inter-Institutional Agreement

Based on EC2U cooperation

Key Action 1

Learning Mobility for Higher Education Students and Staff

among EU Member States and third countries associated to the Programme

The institutions agree to cooperate for the exchange of students and/or staff in the context of the Erasmus+ programme. They commit to respect the quality requirements of the [Erasmus Charter for Higher Education](#) in all aspects related to the organisation and management of the mobility, including [automatic recognition](#) of the credits awarded to students by the partner institution as agreed in the Learning Agreement and confirmed in the Transcript of Records, or according to the learning outcomes of the modules completed abroad, as described in the Course Catalogue, in line with the [European Credit Transfer and Accumulation System](#). The institutions agree on exchanging their mobility related data in line with the technical standards of the [European Student Card Initiative](#).

Grading systems of the institutions

Receiving higher education institutions need to provide a link to the statistical distribution of grades or make the information available through [EGRACONS](#) according to the descriptions in the [ECTS users' guide](#). The information will facilitate the interpretation of each grade awarded to students and will facilitate the credit transfer by the sending institution.

Validity period of the agreement

Timeframe	Academic Year*	Call Year*
Start of validity	[2026/2027]	[2024]
End of validity	[2028/2029]	[2027]

A. Information about the member universities of the EC2U University Alliance*

What EC2U tested

- From several bilateral agreements
- to one shared multilateral framework

Multilateral Agreement

legal and cooperation framework

Common Factsheet

operational mobility data

EWP / ESCI standards

digital exchange and interoperability

EWP / ESCI standards

digital exchange and interoperability

Student mobility workflow

nomination · application · DLA · recognition · services

Il case study 2

EC2U Joint Educational Pathway



Joint Master Degree
**Lifelong Wellbeing and
Healthy Aging**



Joint Master Degree
**European Languages,
Culture and Societies in
contact**



Joint Master Degree
**Sustainable Cities and
Communities**



Joint Master Degree
**People, Justice, and
Strong Institutions**



Joint Master Degree Lifelong Wellbeing and Healthy Aging

What EC2U developed

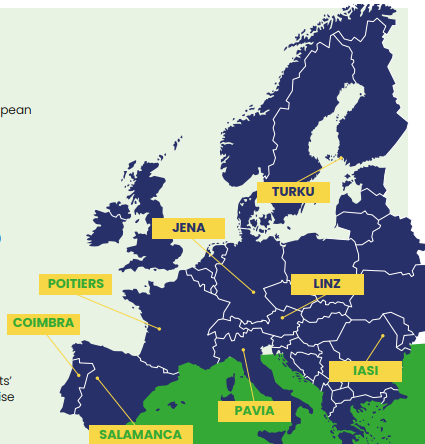
Programme structure and mobility scheme

This Master's Programme is offered jointly by 5 European universities which are rooted in the tradition of excellence.

- University of Salamanca (Spain)
- University of Coimbra (Portugal)
*Accepts only EU students
- Alexandru Ioan Cuza University of Iasi (Romania)
- University of Pavia (Italy)
- University of Poitiers (France)

These universities provide students with personalised attention throughout their studies and a unique campus and student life.

This Joint Master's Programme is tailored to students' needs and offers them the opportunity to personalise their learning path in an international environment.



	HEALTHCARE TRACK	WELFARE TRACK
YEAR 1	Semester 1	University of Iasi
	Semester 2	University of Salamanca
YEAR 2	Semester 1	University of Pavia
	Semester 2	Any of the 5 universities

*The fourth semester is reserved for thesis preparation, related learning and research activities. An Erasmus mobility programme to any of the universities of the EC2U Alliance is also possible during the final semester.

Two semesters abroad are required and students may not spend more than 2 semesters at the same university.

Admission requirements

- Candidates must hold a Bachelor's Degree (or recognised equivalent) in one of the following areas: health and welfare, social and behavioural sciences, psychology and sports, life sciences or any other area accepted in the country of the application;
- Knowledge of English – minimum B2 level

- **A fully joint Master-level curriculum** built by several EC2U partner universities
- **A shared educational pathway** with planned mobility periods across different institutions
- **A common student journey** from admission to mobility, recognition and final certification

What we had to align

- Legal basis and institutional responsibilities
- ECHE principles and Erasmus+ KA1 funding rules
- EWP data exchange and available APIs
- Academic calendars and course structures
- Learning Agreements and recognition processes
- Student status, services and administrative procedures

"I am extremely grateful because this master's programme helped me find my way, figure out what I want to do next with my life. Thanks to the whole team who made this whole journey possible." – A 2024 graduate student

From digital procedures to student services

The student experience depends on what happens behind the scenes

Students do not see standards, data models or technical connections.

They see whether they can:

- Understand the process
- Access reliable course information
- Avoid repeating the same data
- Receive timely guidance
- Use services at the host institution
- Obtain recognition without uncertainty

Interoperability is invisible. But it changes everything.

When systems work together, students **move forward.**

A better student experience. A stronger European campus.

European Student Card Initiative

ACCESS TO SERVICES

RECOGNITION WITHOUT UNCERTAINTY

CLEAR GUIDANCE AT THE RIGHT TIME

SHARE ONCE, USE MANY TIMES

RELIABLE INFORMATION

EASY ORIENTATION

MY JOURNEY ACROSS EUROPE

EUROPEAN STUDENT

| What EC2U can give back to ESCI

Three lessons from the Alliance experience

Interoperability starts with data governance

Before connecting systems, institutions must align data, rules, responsibilities and update mechanisms.

ESCI must support more than bilateral workflows

Alliances need interoperability for networks, not only for pairs of institutions

The final goal is not compliance, but a better European student experience

Digital standards matter because they can make mobility more transparent, scalable and student-centred.



The future success of ESCI

European University Alliances show the use case

Networks of universities need interoperability for mobility, joint programmes, shared services, digital identities and student data across several institutions.

The European Degree raises the ambition

Joint transnational programmes will require reliable data exchange, automatic recognition, quality assurance, academic records and trusted digital identities.

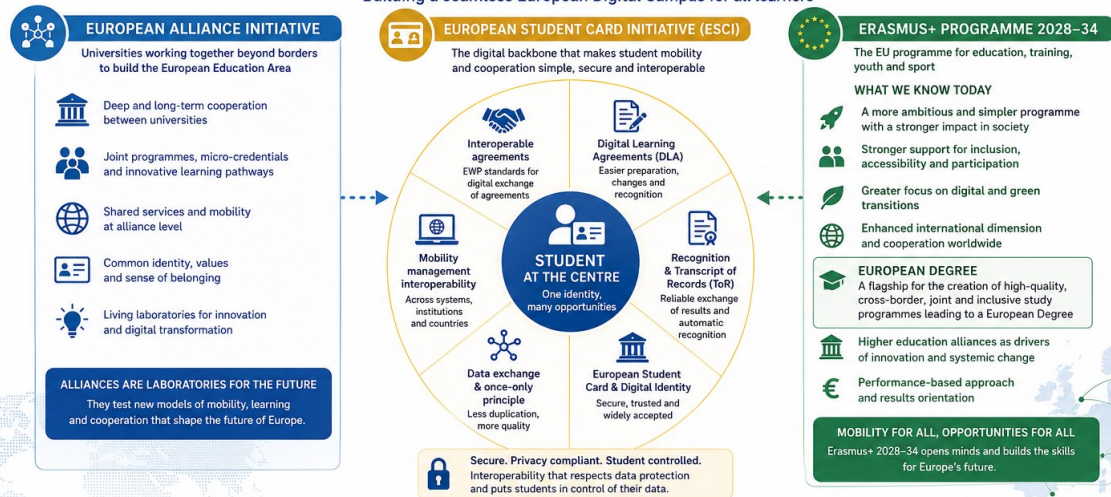
Erasmus+ 2028–2034 is the opportunity

The next programme can connect mobility digitalisation with wider European cooperation in higher education.

A CONNECTED EUROPEAN EDUCATION ECOSYSTEM

European Alliance Initiative + European Student Card Initiative (ESCI) = Erasmus+ Programme 2028–34

Building a seamless European Digital Campus for all learners



A SHARED VISION
Interoperability + Cooperation + Trust = A truly European Digital Campus

Empowered students

Efficient and connected institutions

High-quality and recognised learning

Stronger Europe in the world

TOGETHER FOR THE NEXT GENERATION OF EUROPEANS

ERASMUS+ PROGRAMME 2028–34
The EU programme for education, training, youth and sport

WHAT WE KNOW TODAY

- A more ambitious and simpler programme with a stronger impact in society
- Stronger support for inclusion, accessibility and participation
- Greater focus on digital and green transitions
- Enhanced international dimension and cooperation worldwide

EUROPEAN DEGREE
A flagship for the creation of high-quality, cross-border, joint and inclusive study programmes leading to a European Degree

- Higher education alliances as drivers of innovation and systemic change
- Performance-based approach and results orientation

MOBILITY FOR ALL, OPPORTUNITIES FOR ALL
Erasmus+ 2028–34 opens minds and builds the skills for Europe's future.

Thanks!

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 University of Pavia