

**Internationalisation and Virtual Exchange: Borderless between EU
and Asian Countries (HARMONY)**

STUDY VISIT TO UNIVERSITY OF ZARAGOZA, SPAIN

September, 12th - 14th 2022



UNIZAR internationalization plan in action

Prof. Dr. Francisco Beltrán, Vice-Chancellor for Internationalization

Prof. Dr. María Villarroya, Director for Internationalization



Universidad
Zaragoza

Universidad de Zaragoza (UNIZAR) internationalization plan in action

Prof. Dr. Francisco Beltrán
Vice-Chancellor for Internationalization

UNIVERSIDAD DE ZARAGOZA



TRADITION AND MODERNITY

A LONG HISTORY SINCE 1542

The University of Zaragoza originated from a *School of Arts* created by the Church in 1183 and it became a *Universitas magistrorum* in 1474 (Pope Sixtus IV), and a *Studium Generale (General University for all the Sciences)* by decision of Emperor Charles V in 1542 (and previously of Pope Julius III, 1554): the first lectures were given in 1583.



Zaragoza
Aragon
Spain
European Union

Campuses and Schools:

1. Zaragoza (12)
2. Huesca (5)
3. Teruel (3)
4. La Almunia de doña Godina (1)
5. Jaca (Summer School; ELE [SFL] since 1927)



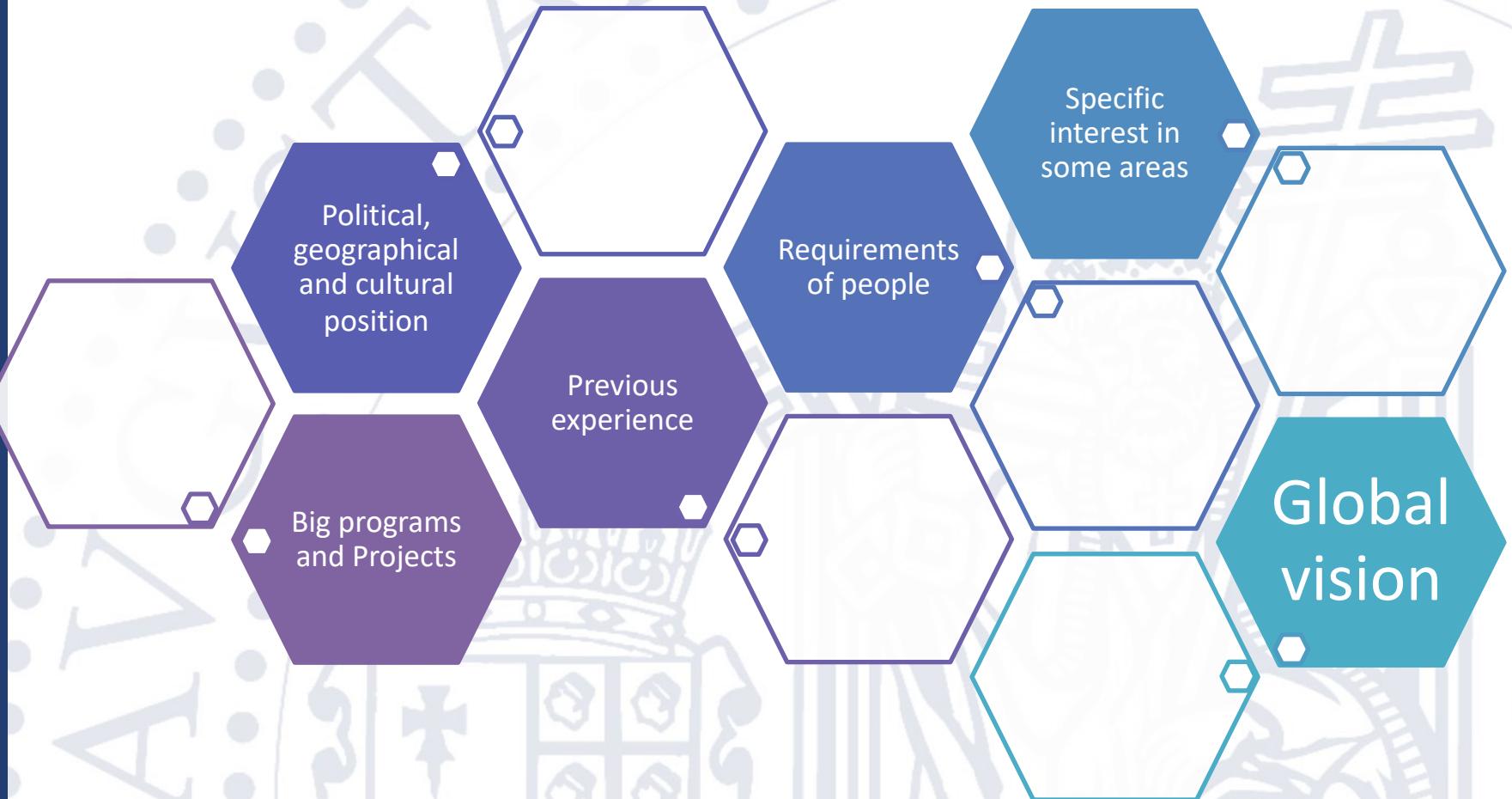
The Universidad de Zaragoza, the public university of Aragon

Multidisciplinary University

Arts and Humanities
Engineering and Architecture
Health Sciences
Sciences
Social Sciences and Law



Internationalization Strategy



With strong collaboration between faculties and rectorate

Groundbreaking research



April 2021. Prof. José Manuel García Aznar, an engineer, has been awarded an ERC Advanced Grant (2,5 M €) in order to research how therapeutic immune cells detect, move and interact with cancer cells and the tumor microenvironment

The European Research Council has granted during the last years more than 20 millions euros to fund several research projects of the University of Zaragoza



OWN INSTITUTES:

- Institute of Biocomputation and Physics of Complex Systems – BIFI
- Institute of Engineering of Aragón – I3A
- Institute of Environmental Sciences of Aragón – IUCA
- Institute of Mathematics and its applications – IUMA
- Institute of Heritage & Humanities – IPH
- Institute of Employment, Digital Society and Sustainability –IEDIS

OTHER INSTITUTES (*shared with CSIC, GdA, MIT, ...*):

- Institute of Chemical Synthesis and Homogeneous Catalysis – ISQCH
- Institute of Nanoscience and Materials Science of Aragón – INMA
- Agrofood Institute of Aragón – IA2
- Centre of Research for Energy Resources and Consumption –CIRCE

Health Research Institute of Aragon – IIS Aragón

Zaragoza Logistic Center – ZLC

Universidad de Zaragoza in the University rankings

ARWU / ACADEMIC RANKING OF WORLD UNIVERSITIES 501-600 (2022)

ARWU-FIELD RANKING

- Among the 151-200 universities in **Natural Sciences and Mathematics** (ARWU 2016)

ARWU-GLOBAL RANKING OF SPORT SCIENCE

- 76-100 University in **Sport Science** 2021 (ARWU)

**UNIVERSIDAD DE ZARAGOZA IS RANKED AMONG
THE 500 BEST UNIVERSITIES IN THE WORLD IN 20
OUT OF 54 SUBJECT RANKINGS BY ARWU**

Universidad de Zaragoza in the University rankings

Health sciences
Engineering
Sciences
Business
Education
[Humanities,
not ranked]

501-600 / ARWU-SUBJECT RANKING (2021)

Among the best universities of the world in 20 out of 54 areas:

51-75 in **Food Science and Technology** (1)

76-100 in **Veterinary Sciences, Automotion & Control** (2)

-300 in **Chemistry, Biomedical Eng.** (2)

-400 in **Electrical & Electronic Eng., Mathematics, Earth Sciences, Chemical Eng., Nanoscience & nanotechnology, Agricultural Sciences, Pharmacy & Pharmaceutical Sciences, Education, Business Administration, Energy Science & Eng.,** (10)

-500 in **Human Biological Sciences, Clinical Medicine, Public Health, Economics, Psychology** (5)

University of Zaragoza Tuberculosis vaccine, beginning phase 3

La vacuna contra la tuberculosis “MTBVAC” de la Universidad de Zaragoza iniciará en el 2022 ensayos de eficacia en 7.000 recién nacidos en zonas endémicas en África subsahariana

El anuncio coincide con el 25 aniversario de la investigación que lidera el catedrático Carlos Martín para obtener una vacuna más eficaz, en colaboración con el instituto Pasteur y la biofarmaceútica Biofabri (Zendal)

El próximo 18 de julio se cumplen 100 años de la primera administración de la actual vacuna BCG a un bebé en el Hospital de Charité de París, cuya madre había muerto por dicha enfermedad

La revista científica “Vaccine” del grupo Elsevier publica un número especial de homenaje a la centenaria BCG, incluyendo un artículo sobre la candidata aragonesa



catedrático de Microbiología Carlos Martín y su equipo del Grupo de Genética de Micobacterias, integrado por Jesús Gonzalo-Asensio, Nacho Aguiló y Dessimlava Marinova.

(Zaragoza, lunes, 12 de julio de 2021). El próximo lunes 18 de julio se cumplirán **100 años de la primera administración de la vacuna contra la tuberculosis BCG** (*Mycobacterium bovis* Bacille Calmette-Guérin) a un **recién nacido** en el Hospital de Charité de **París**, cuya madre había muerto de tuberculosis. Este aniversario coincide con la celebración de los **25 años de investigación de la Universidad de Zaragoza** en la **nueva vacuna MTBVAC**, más eficaz **contra las formas respiratorias** de la enfermedad y **candidata a sustituir a la actual**, liderada por el

In terms of scientific research, domestic appliance work is led globally by Zaragoza University in Spain. It is focused on refinements for domestic induction cookers and other appliances, techno-

Figure 47: Most prolific scientific research institutions in home appliances (2006–2016)

Institution	Country	# of Papers (WoS)
University of California System	US	154
University of Zaragoza		
United States Department of Energy (DOE)		
University of California Berkeley		
Polytechnic University of Milan		
Centre National de la Recherche Scientifique (CNRS)		
Chinese Academy of Sciences		

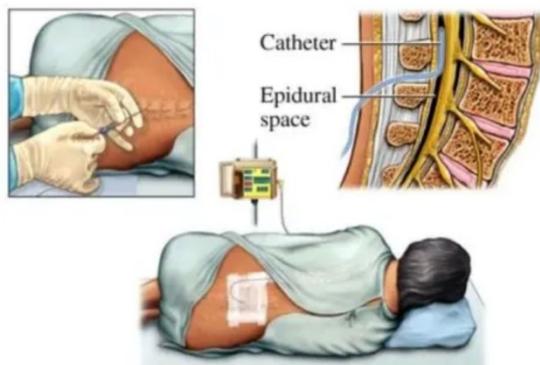


Tomás Pollán, 1981-1989: **induction cooker** Balay

Aragón, a land of inventors



José Alix Martínez, 1919
Pressure cooker



Fidel Pagés, 1921
Epidural anesthesia

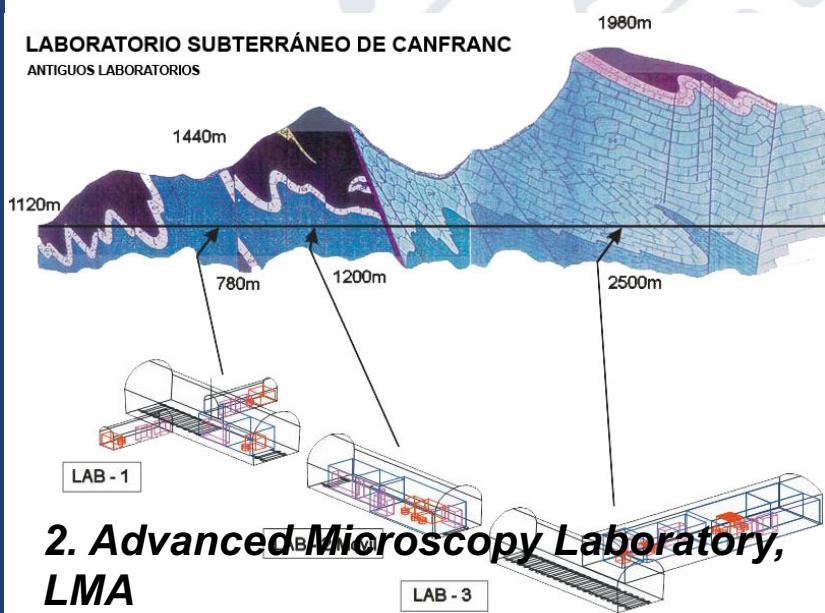
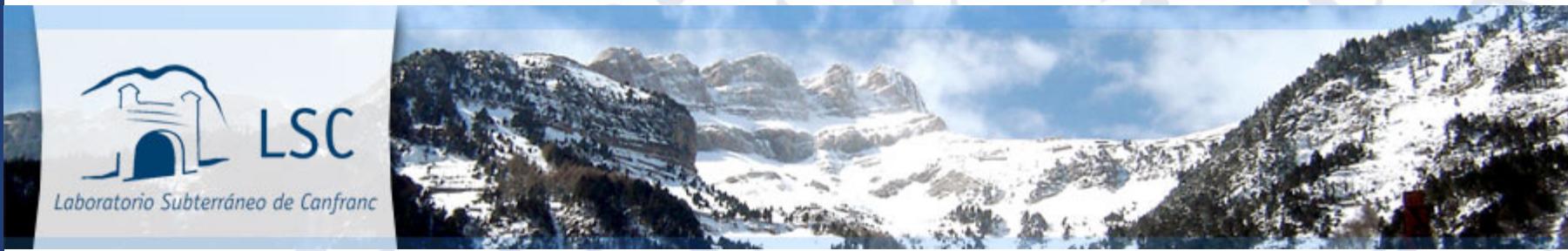


Manuel Jalón
Mop, 1968;

**“Two-piece” disposable
syringe** 1975



Fabersanitas,
now Benson & Dickinson



2. Advanced Microscopy Laboratory, LMA

3. Infraestructure for the production and Characterization of nanomaterials, biomaterials and systems in Biomedicine, NANBIOSIS

4. Spanish Supercomputing Network, RES

Singular scientific infrastructures

1. THE CANFRANC UNDERGROUND LAB

Research on dark matter



A varied educational offer of excellence in the five main areas

Academic offer

- 54 Bachelor degrees
- 8 Joint and Consecutive Programmes
- 62 Master degrees
- 3 Joint master programmes
- 47 Doctorate programmes
- 58 Specific programmes

Double Degrees (i)

- BD / International Management (Fachhochschule Dortmund — Hochschule für Technik und Wirtschaft, Berlin, **Germany**)
- B-MD / Química Molecular y Catálisis Homogénea + Diplome d'Ingénieur Spécialité Chimie – Génie physique (ENSCPB /Bordeaux inp, **France**)
- B-MD Ciencia y Tecnología de los alimentos y Máster de ingeniería agroalimentaria y bioingeniería (INP Bordeaux, **France**)
- Cooperation in Master degree programmes (Nanjing Tech, **China**)
- BD Veterinaria (Universidad de São Paulo, **Brazil**)
- BD Gestión y Administración Pública + Ciencias Políticas y Relaciones Internacionales (Universidad del Valle de Aosta, **Italia**)
- MD Física y Tecnologías Físicas - Physique fondamentale et applications/theoretical physics and applications (Université de Cergy-Pontoise, **France**)
- BD Tourism (Zhejiang International Studies University-ZISU, China)
- MD **Erasmus mundus master** in Membrane Engineering.

Double Degrees (ii)

BD Grado en administración y dirección de empresas + Economie et gestion

MD Entrainement préparation physique et mentale et optimisation de la performance + Evaluación y entrenamiento físico para la salud

MD Dirección y planificación del turismo + Géographie et aménagement, spécialité professionnelle “loisirs, tourisme et développement territorial

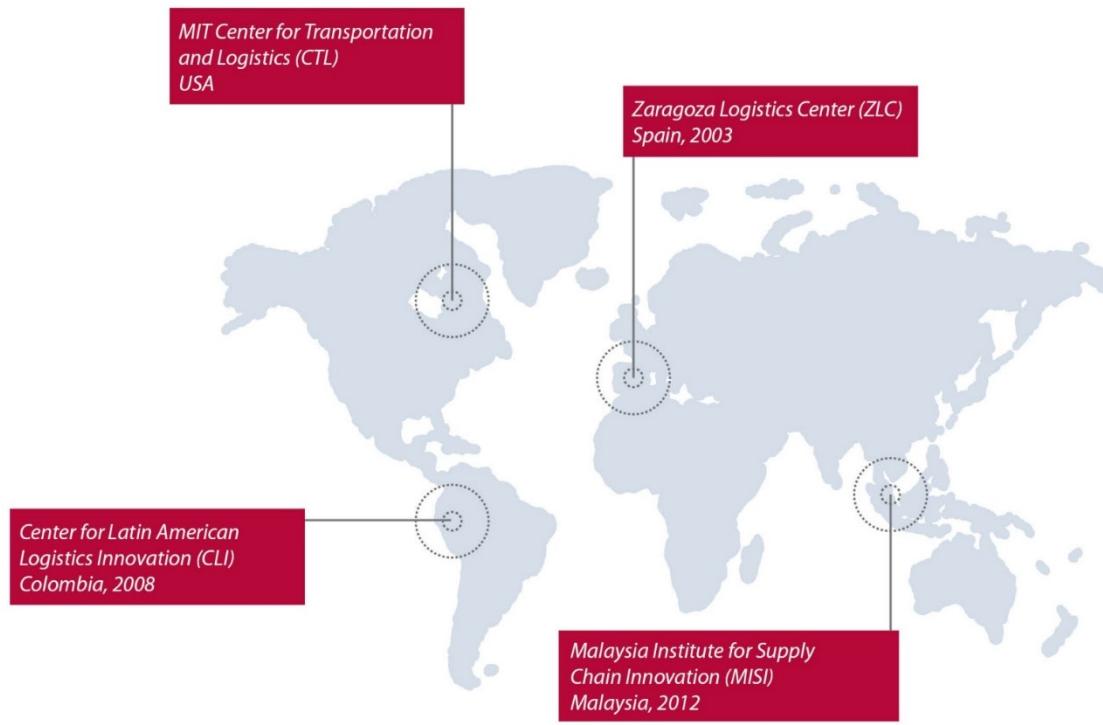
MD Ordenación territorial y medioambiental + Geographie, amenagement, environnement et developpement — VIRTUAL MOBILITY (UPPA, France)

FORTHCOMING:

BD Mathematics — MD Electronic Engineering (UPPA, France)

BD Business Administration (Hochschule Augsburg, Germany)

UNITA educational paths



A joint venture with the
Massachusetts Institute of
Technology and the
Government of Aragon



- Master of Engineering in Logistics & Supply Chain Management (ZLOG)
Ranked #1 in the field of logistics 2019:
 - *in the Ranking of the 4.000 best masters in the world by Eduniversal*
 - *in the Ranking of the 250 Best Masters in Spain by El Mundo*
- PhD in Logistics and Supply Chain Management
- Executive Education

Spanish as Foreign Language courses

[ELE]

- The oldest Spanish University teaching Spanish as foreign language (Jaca, 1927).
- Since 2015 providing official accreditation from Instituto Cervantes: DELE, SIELE...

TWO MEMBERS OF THE REAL ACADEMIA ESPAÑOLA (Royal Spanish Academy):

Aurora Egido y Federico Corriente (†2020)



Year 2019-2020

945 students from 54 different countries
(China, Italy, Vietnam, Germany, France, Japan, Ghana, ...)

Spanish, a global language

THE SECOND LANGUAGE IN THE WORLD BY NUMBER OF NATIVE SPEAKERS

1. Mandarin Chinese (908.7 million)
2. Spanish (442.3 million)
3. English (378.2 million)
4. Hindi-Urdu (329.1 million)
5. Arabic (290 million)
6. Bengali (242.6 million)
7. Portuguese (222.7 million)
8. Russian (153.9 million)
9. Japanese (128.2 million)
10. Western Punjabi (119 million)

52 M speakers in the USA (2021)

+ 400 millions of Spanish native speakers in the world (2017), and almost 600 millions of potential speakers; +21 millions of students (SFL).

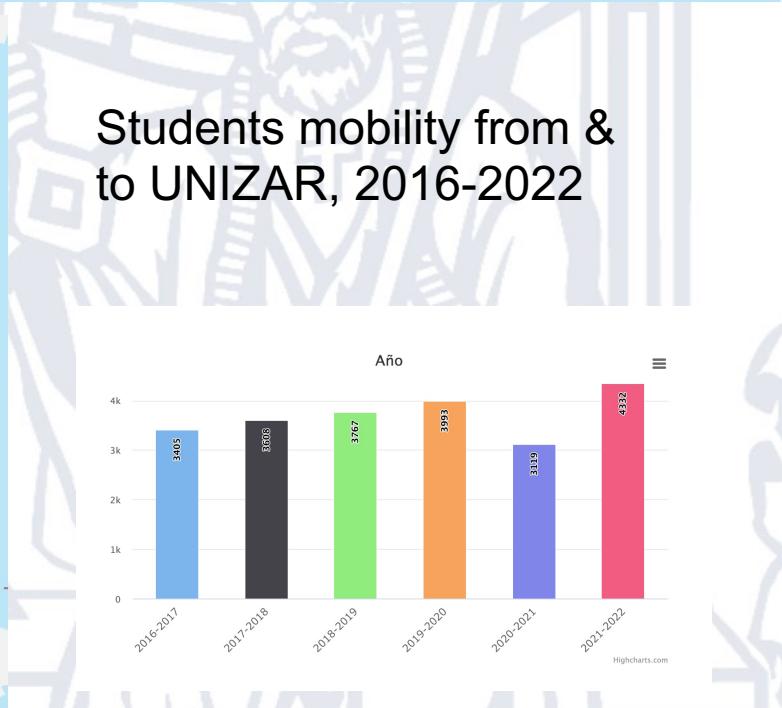
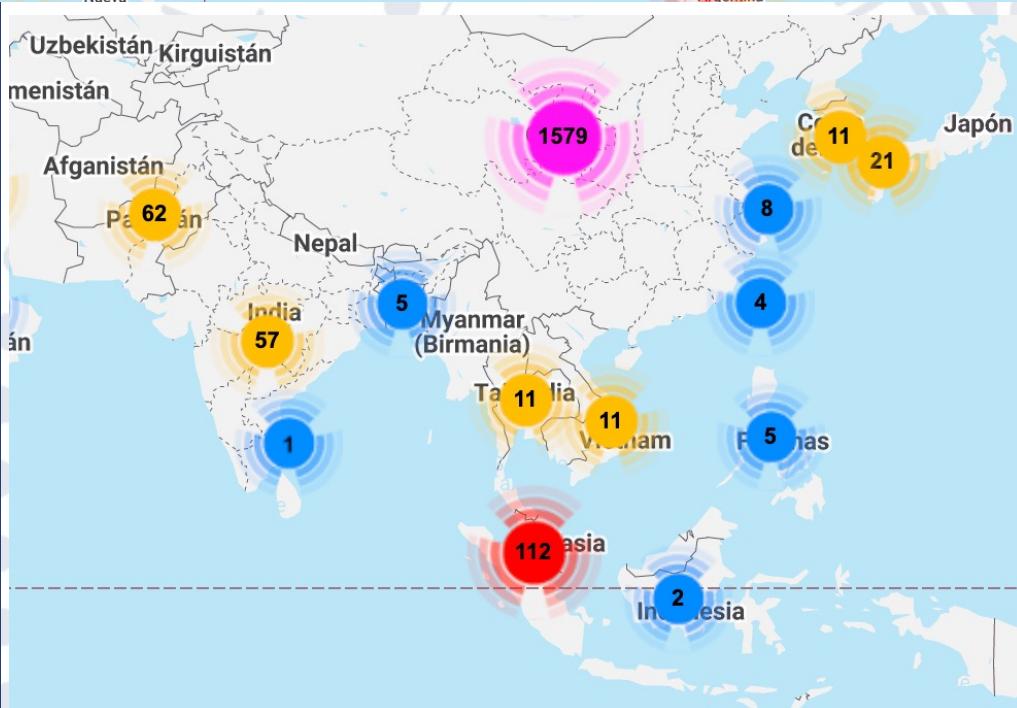


Spanish, official language in 21 countries.

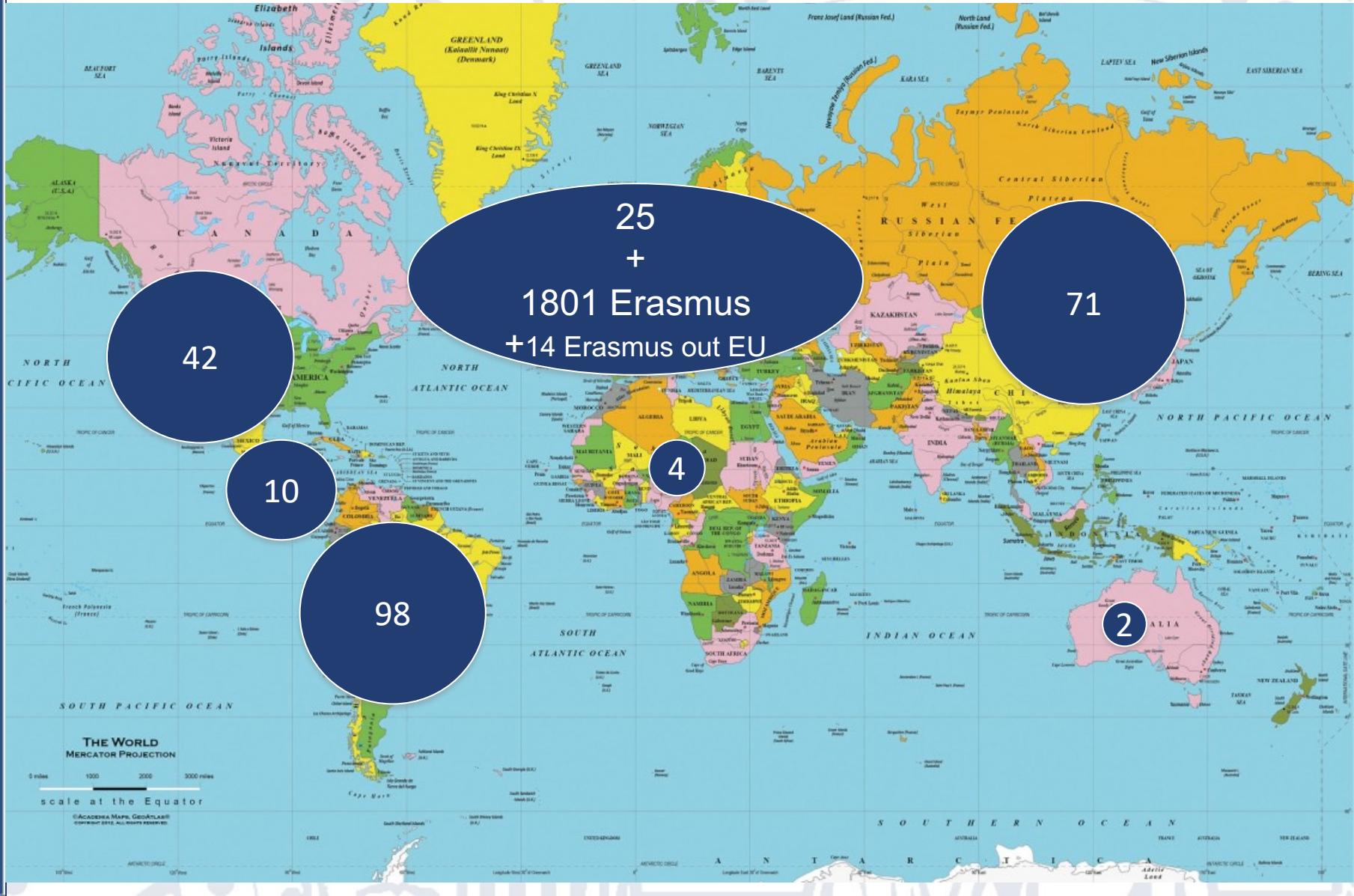
Towards a global action



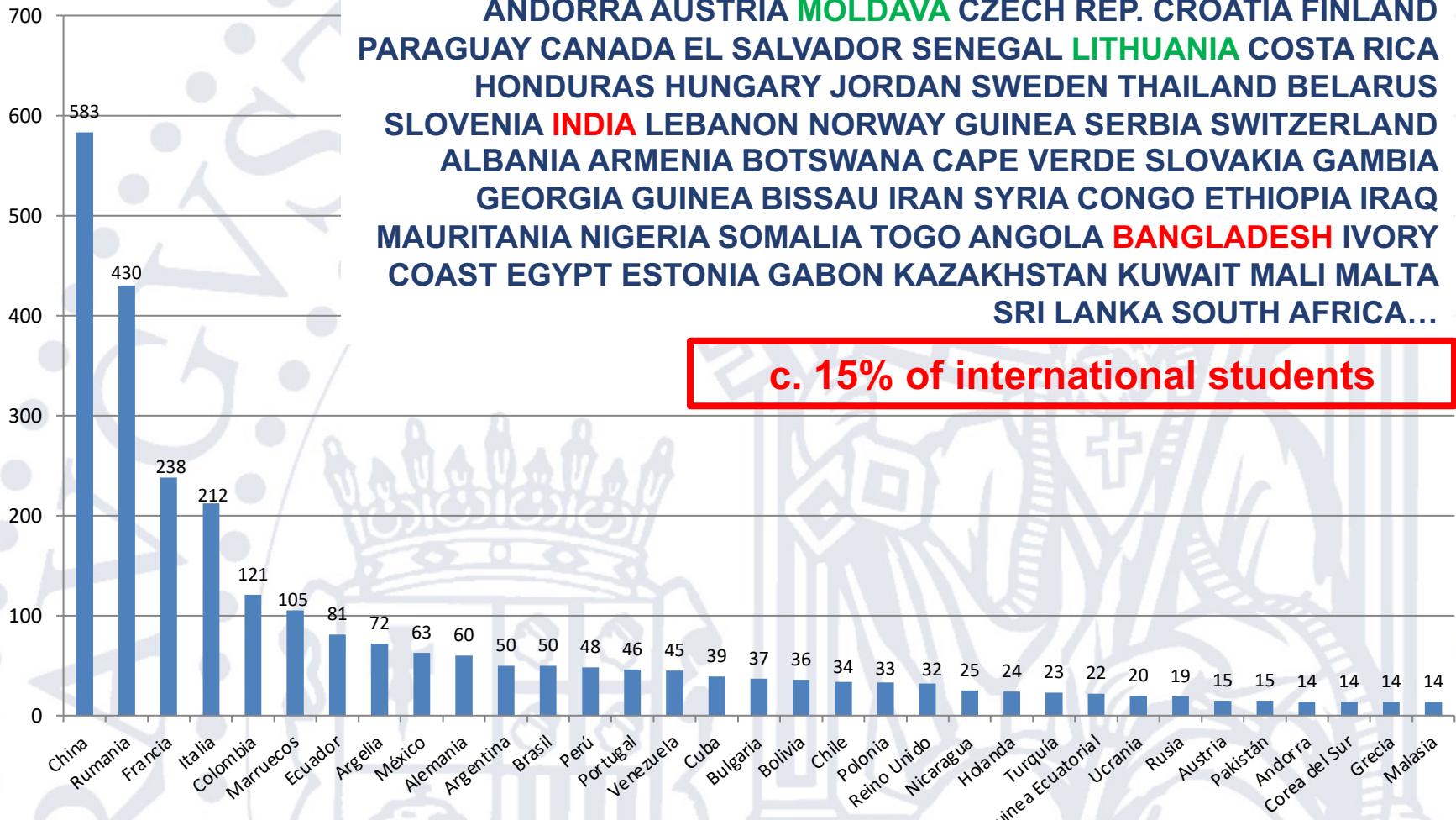
Students mobility from & to UNIZAR, 2016-2022



More than 250 International active agreements (plus 1800 Erasmus Exchange ones)



ESTUDIANTES II



c. 15% of international students

More than 2,907 [3885, 2019-20] international students from 100 countries chose the University of Zaragoza for degree, master, doctorate or Spanish

ONGOING ERAMUS + PROJECTS

UNITA : Universitas Montium

HARMONY: Internationalization and Virtual Exchange: Borderless between EU and Asian countries

ZERO WASTE: Awareness for reduction of food waste

TO SWITCH: Towards Senior Workers' Innovative Training Challenges

HAEPPi: Fostering the innovation in the European Habitat and E-Health sectors through the public procurement of innovative solutions to improve the European Smes Competitiveness

INPAD: Participatory Design in Schools: Development of an innovative methodology for public space design in and around schools

INDEED: Innovative tools for Diets oriented to Education and health improvement in Dysphage Condition

Entre-STEAM: Designing solutions entrepreneurially vía online language and communication training in the STEAM disciplines

STAR.APP: Student's Academic Performance: a machine learning approach for risk assesment and drop out prevention

GAP: Graffiti Art in Prison

EAT: Enhancing Equity, Agency and Transparency in Assesment Practises in Higher Education

SELECT: Self – Learning Atlas of Ancient European Cultures

INNOFARMING: INNOVATIVE INDOOR FARMING APPLICATIONS FOR FUTURE URBAN FARMERS

C-DAOEF: Development of computerized adaptive applications for the dynamic assessment and enhancement of executive functions in students with neurodevelopmental and learning disorders

ON THE WAY TO UNIVERSITY

D3: DEVELOPING DIGITAL DATA LITERACY

MY GEO – GEO TOLS FOR MODERNIZATION AND YOUTH EMPLOYMENT

SAFED – SAFETY, FIRE AND DESIGN: SIMULATION FOR FIRE SAFETY TRAINING

E-TUTOR: TOOLS AND WEB RESOURCES FOR STUDY AND CAREER MANAGEMENT

ANFoMAM: Aprender de los niños para formar a los maestros en el área de matemáticas

ERASMUS + KA – 107: MOVILIDAD PARA INDIVIDUOS

2PAS-4H: Promoting Physical Activity in Secondary School for Health

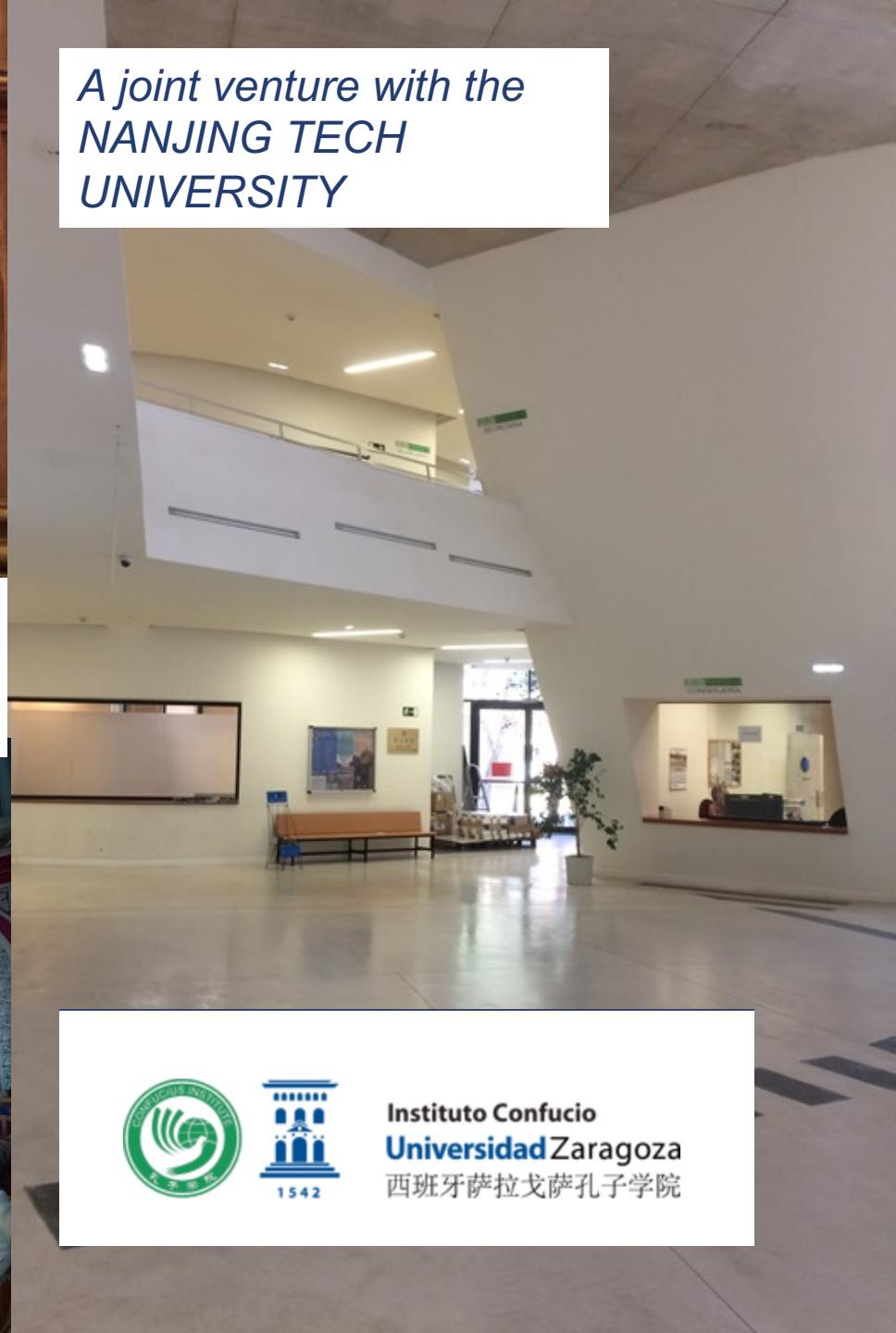
GESPORT: Corporate governance in sport organizations: a gendered approach

EM3E-4SW: Master in Membrane Engineering for a Sustainable World



*A joint venture with the
NANJING TECH
UNIVERSITY*

Confucius Institute at Zaragoza University inauguration, June 7, 2017



Instituto Confucio
Universidad Zaragoza
西班牙萨拉戈萨孔子学院

GUANGZHOU INTERNATIONAL SISTER-CITY UNIVERSITIES



About GISU

The city of Guangzhou has forged sister-city and friendly-city ties with almost 90 cities throughout the world. Over the years, the higher education sector of the Guangzhou Municipality has drawn tremendous support from these international friendships. These efforts have resulted in numerous exchanges and close cooperation. Guangzhou University, as the flagship university of Guangzhou, is pro...

[Read More](#)

GUANGZHOU INTERNATIONAL SISTER-CITY UNIVERSITIES

• ABOUT GISU • [MEMBERS](#) • CURRENT PROJECTS • LATEST NEWS • SISTER CITIES • CONTACT US

- Guangzhou University • Linkping University • University of Coimbra • Universit du Qubec Montral • University of Padua • Tampere University
- Western Sydney University • Guangzhou Medical University • Incheon National University (INU) • Middle East Technical University (METU)
- University of the West of England (UWE Bristol) • The Durban University of Technology • Igor Sikorsky Kyiv Polytechnic Institute • Charles Darwin University
- Belarusian State University of Physical Culture • Gorgan University of Agricultural Sciences and Natural Resources • The University of Zaragoza
- The Universitat Politècnica de València (UPV)



The European Universities Iniciative

The European Universities Initiative

European Universities are transnational alliances that will lead the way towards the universities of the future, promoting European values and identity, and revolutionising the quality and competitiveness of European higher education.

...strengthening **strategic partnerships across the EU** between higher education institutions and encouraging the emergence by 2024 of some twenty '**European Universities**', consisting in **bottom-up networks** of universities across the EU which will enable students to obtain a degree by **combining studies in several EU countries** and **contribute to the international competitiveness** of European universities.

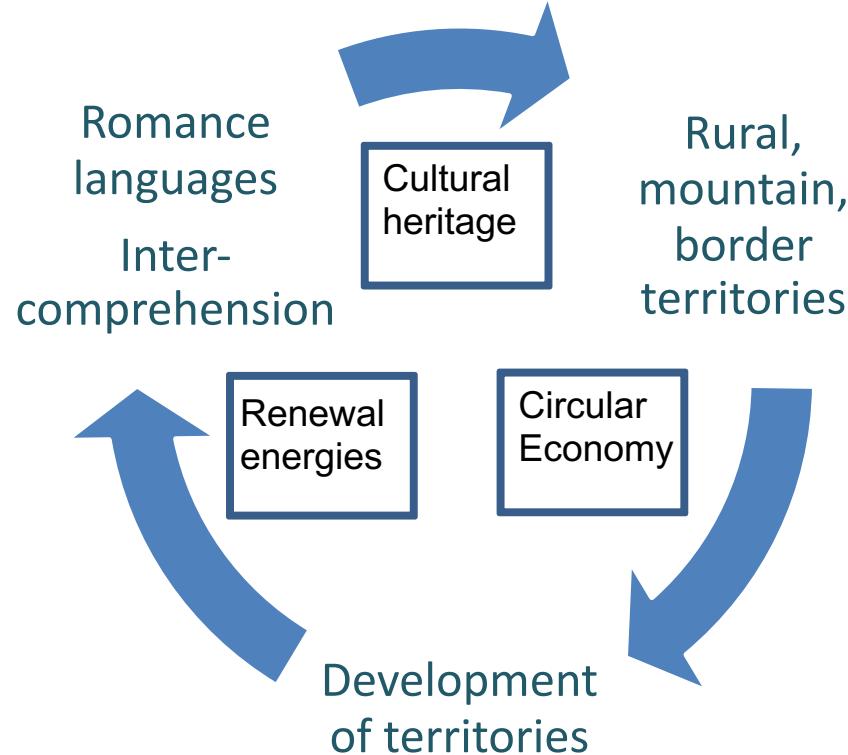
A member of the European Alliance UNITA Universitas Montium



Public University of Navarre (Spain)
University of Brasov (Romania)
Instituto Politécnico de Guarda (Portugal)
Università di Brescia (Italy)
+ HES-SO (Switzerland)

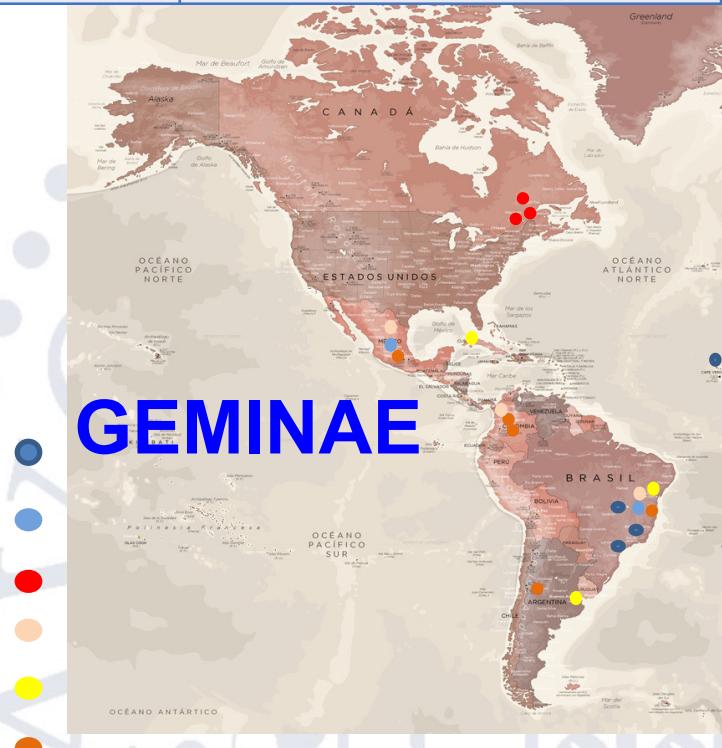
+32 Associated partners (Regional and local authorities, companies, associations, universities...)
—**Geminae partners**

UNITA Universitas Montium



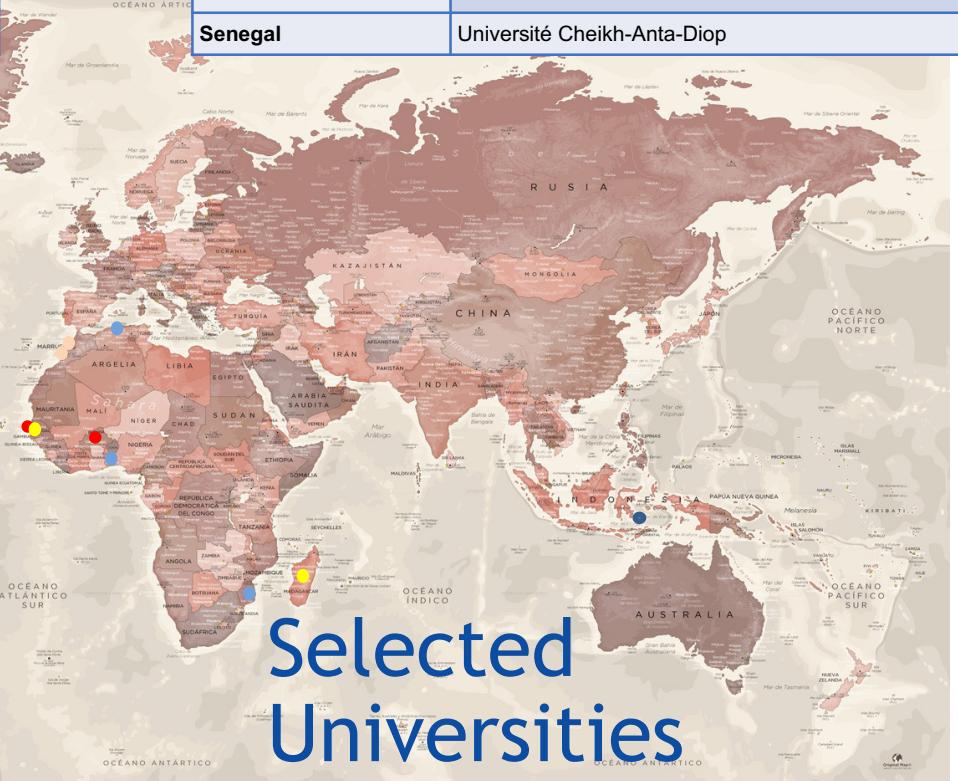
Brazil	Federal University of Minas Gerais - UFMG
Colombia	Universidad Católica de Colombia
Mexico	Universidad de Monterrey
Morocco	International University of Rabat
Morocco	Hassan II University Casablanca

Brazil	Universidade Regional de Blumenau
East Timor	Universidade nacional Timor Lorosae
Cape Verde	Instituto Superior de Educação de Cabo Verde
Brazil	Universidade Federal da Bahia
Brazil	Universidade de Brasília



Senegal	Université Cheik Anta Diop
Argentina	Universidad de la Plata
Brazil	Universidade de Vicoso
Cuba	Universidad de La Habana
Madagascar	Université de Antananarivo

Colombia	Universidad de los Andes	
Colombia	Universidad del Rosario	
Argentina	Universidad Nacional de Cuyo	
Mexico	Universidad Nacional Autónoma de	
Brazil	Universidad de Sao Paulo	
Canada	Université du Québec à Trois-Rivières	
Canada	Université Laval	
Canada	École de Technologie Supérieure (ETS)	
Burkina Faso	Institut International d'Ingénierie de l'Eau et de l'Environnement	
Senegal	Université Cheikh-Anta-Diop	



Brazil	Universidade Estadual de Campinas
Mexico	Universidad Autónoma San Luis Potosí
Mozambique	Universidade Pedagógica, Maputo
Benin	Université Abomey-Calavi
Algeria	Université de Boumerdes



Universidad
Zaragoza

Universidad de Zaragoza (UNIZAR) internationalization plan in action

Prof. Dr. María Villarroya
Director for Internationalization

INTERNATIONALIZATION ACTIVITIES

- Exchange and mobility activities
 - ERASMUS, NAOO
 - BIP
 - RURAL MOBILITY
 - VIRTUAL MOBILITY
- Double degrees
- Crossborder meetings
- Projects
- Other

Teaching in foreing languages

CLIC@UNIZAR

Content Learning
Integrated Competences
at Universidad de
Zaragoza



Step 0

English level B2

Supera con éxito ETP
(25 h.)

Step 1

General training in ICLHE (30 h.)

Step 2

Specific training in ICLHE (30 h.)

&

Crash Courses in ICLHE (30 h.)

$$25+30+30+30 = 115 \text{ Hours}$$

EXCHANGE PROGRAMMES

ERASMUS

- 1800 agreements:

NAAO

-

ERASMUS KA107 / KA171

Trend 1000 students out 900 students every year (2020/2021: 428 in 662 out)

ERASMUS KA107 /KA171

- Convocatoria 2019: Realizado con Ecuador
- Convocatoria 2020: Concedidos: Albania, Argentina, Chile, China, Cuba, Japón y Marruecos
- Convocatoria 2022 KA171: Solicitado Albania, Argentina, Marrueco, Túnez, Georgia.

Próximamente movilidades
para estudiantes de
doctorado y personal

BIP Erasmus+: Blended Intensive program

- Programa Erasmus+
- 3 to 6 ECTS courses
- Short mobility face to face + on line training
- At least 3 European Universities from different countries.



NEW

New forms of Mobility



Università degli Studi di Brescia (Italy)
Universidad Publica de Navarra (Spain)
Transylvania University of Brașov (Romania)
Instituto Politécnico da Guarda (Portugal)

UNITA RURAL MOBILITY URM

- Students trainship in small villages arround universities and they live there during the training period



MOVILIDAD VIRTUAL: UNITA

Virtual Mobility

- Aim: To increase mobility
- To give new opportunities for students that due to personal reason cannot move for a semester



- <https://www.youtube.com/watch?v=FIWjs8CNHZU>

Other activities





Universidad
Zaragoza

PROGRAMAS DE MOVILIDAD Y OTRAS ACCIONES DE INTERNACIONALIZACIÓN

María Villarroja Gaudó

Directora de Secretariado de Internacionalización

Eva Pastor

Jefa de Sección de Internacionalización