

ELARCH Euro-Latin America Partnership in natural Risk mitigation and protection of the Cultural Heritage

www.elarch.org

ROLE OF ASSOCIATE PARTNERS

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ERASMUS MUNDUS



Kick-off meeting
10-11-12 November 2014
University of Basilicata, Matera



ELARCH - ERASMUS MUNDUS

Euro LA partnership in natural Risk mitigation and protection of the Cultural Heritage



SAPIENZA
UNIVERSITÀ DI ROMA



niverza v Ljubljani



UNIVERSIDAD
SAN GREGORIO
DE PONTIVIEIRA



MASTERS

DOCTORATES

BACHELORS

SCHOLARSHIPS

PARTNERSHIPS



Despite the advances of science and technology, natural risks are still resulting in dramatic human and economical consequences in the world's most vulnerable regions for the natural and built environment as well as for the cultural heritage. The capacity to mitigate the impact of risks relies on implementation of research and technology results into policy. Mitigation practices are more effective if incorporated into academic research and higher education curricula in an international and global context, representing an important opportunity for promoting innovation, creation of new jobs, international cooperation and dialogue.



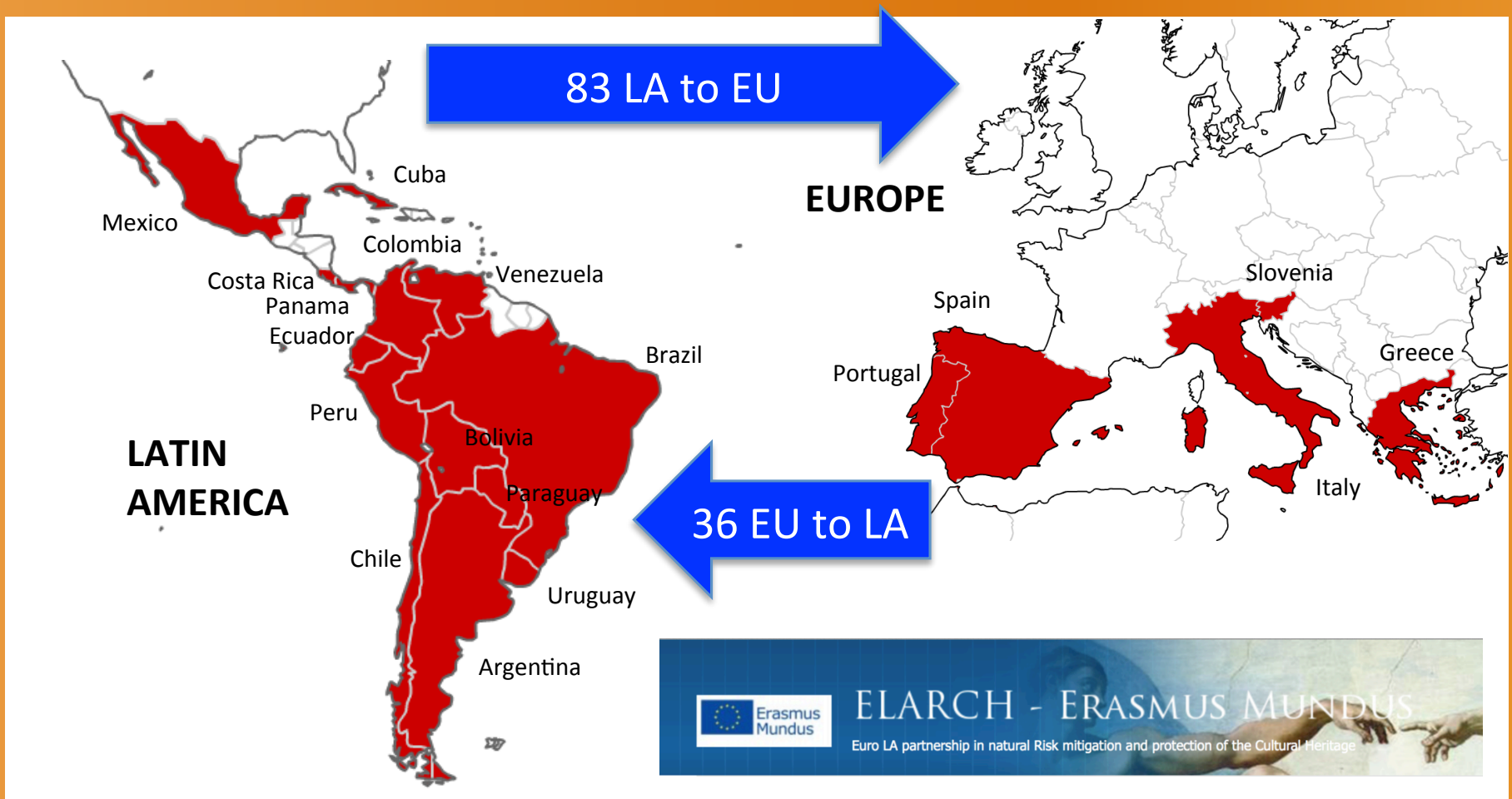
Objective of the ELARCH project is to establish higher education cooperation between institutions across Europe and Latin America, through academic mobility measures in natural risk reduction and preservation of the cultural heritage. Researchers, future policy makers and practitioners will strengthen their curricula in architecture, engineering, geological sciences, environmental sciences, management and planning, etc. Specific educational and interdisciplinary research activities will focus on innovative practices in: conservation of the cultural heritage, life - cycle analysis and resilient/sustainable design, health monitoring and diagnostics, seismology, experimental studies, social/economical impact evaluation, disaster and asset management, national and international policy.

Cooperation will take place between universities and research centers active in protection of the cultural heritage, environmental risk mitigation and training involving **Undergraduates, Masters, PhDs, Post-Docs, and Staff.**

Universities, NGOs, Industry and Philanthropy groups, local and International Authorities will develop a human resources infrastructure incorporating credit recognition, joint degrees, UNESCO chair charters, innovative E-Learning platforms, field case-study laboratories, cultural policy strategies, social and cultural inclusion.



ELARCH EU-Latin America Consortium



ELARCH Partner Universities

		University	Country
EU	1	Univ. of Basilicata (Coordinator)	Italy
	2	Univ. Cartagena de Indias (Joint Coordinator)	Colombia
	3	Univ. of Rome Sapienza	Italy
	4	Univ. of Chieti-Pescara	Italy
	5	Univ. of Ljubljana	Slovenia
	6	Univ. of Minho	Portugal
	7	Univ. Poli. Madrid	Spain
	8	UPC Barcelona	Spain
	9	NTU Athens	Greece
	10	Univ. of Aveiro	Portugal
LATIN AMERICA	11	Univ. Catolica Boliviana S. Pablo	Bolivia
	12	Pontificia Univ. Cattolica del Perù	Peru
	13	Univ. S. Gregorio de Porto Viejo	Ecuador
	14	National Univ. of Itapua	Paraguay
	15	Univ. Michoacana S. Nicola Hidalgo	Mexico
	16	Univ. of Magdalena	Colombia
	17	Univ. of Concepcion	Chile
	18	Univ. of Oriente, Santiago	Cuba
	19	Univ. Federal de Santa Catarina	Brazil
	20	Univ. of Nariño	Colombia



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Associate Partners

Play an active role in the action but they are not beneficiaries and may not receive funding from the grant.

Do not have to meet the eligibility criteria required of applicants and partners.

Have to be mentioned in the Application and the role they play in the context of the proposed project has to be described.

Can be a hosting institution, for example if a placement period is foreseen as part of the study period.

Some types of associated members which could be particularly relevant for the objectives and activities of this programme are: enterprises, chambers of industry and commerce, local, regional or national public entities as well as research centres, regional institutions of higher education not belonging to any national system but formally recognised by one of the eligible countries.

It is expected that associated members contribute to the transfer of knowledge and results as well as the innovation process and assist in the promotion, implementation, evaluation and sustainable development of the projects.



ELARCH Associate Partners

NGOs, Government, Other Universities

ASSOCIATE PARTNERS

21	Global Risk Forum, GRF Davos	Switzerland
22	Fondazione Città della Pace Basilicata	Italy
23	Fondazione Zetema Matera	Italy
24	ANIDIS (Italian Association of Earthquake Engineering)	Italy
25	GeoHazards International	USA
26	Rotary International District 4271 Colombia	Colombia
27	CNR IBAM (Inst. Of Cult Heritage and Monuments)	Italy
28	Committee for Matera EU Capital of Culture 2019	Italy
29	Univ. of California San Diego CISA3	USA
30	Bene Construere Ltd.	Croatia
31	Universidad Nacional Autonoma de Mexico - UNAM	Mexico
32	Universidad de Veracruz	Mexico
33	Pontificia Univ. Catolica de Chile	Chile
34	Universidad de Salta	Argentina
35	Universidad Industrial de Santander	Colombia
36	Instituto Patrimonio Cultura Cartagena de Indias	Colombia
37	UNESCO – ORSALC Observatory	Paraguay
38	Rotary International District 2080 Lazio-Sardegna	Italy



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ELARCH - Objectives

- Establish higher education cooperation among EU-LA institutions active in
 - natural risk mitigation (earthquakes, environmental)
 - protection of Cultural Heritage
- Theme-specific mobility flow of 119 students / researchers
- Build Capacity and strengthen curricula in global context



- Scientific Coordination Framework
Shared Methodology !



Types of Associates

ACADEMIC



EU-Latin America Academic network

TECHNICAL-NGO



Excellence and Innovation, International field projects



Non-profit, International Network of trust, Governments, network of academia and international relations

Network of experts and practitioners, industry liaison

SOCIAL-INERNAT.



Worldwide network of Service Organizations Development and Aid Cooperation



Cultural Policy and strategy



Scientific and Policy Framework

“Human resources infrastructure” sharing best practices



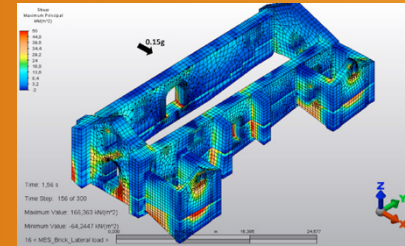
Case studies

Strategy

ACADEMIA



Innovative Design
and Diagnostics



Cultural policy

EDUCATION

SCIENCE

Design and
construction
Industry

INT. ORGANIZATIONS

CIVIL SOCIETY



POLICY

Capacity building

Development AID

Building Codes

Risk Reduction
Methodologies



Roles

SOCIAL

- Advise on social and cross cutting issues (committees)
- Reach out to underserved communities and vulnerable
- Latin America selection of candidates and re-integration
- Support hosting mobilities in EU
- Facilitate EU links to cultural initiatives
- Dissemination
- Engage global networks of clubs chapters
- Improved project quality assurance (committees)
- Evaluate social inclusion, effective credit recognition



District 4271 Colombia
District 2080 Lazio



TECHNICAL

- Innovation for protection of the cultural heritage active in international field projects
- Dissemination of good practices
- International Disaster Risk Conference IDRC in Davos
- Italian Conference of Earthquake Engineering
- Promote diffusion of international good practices for historical landmarks
- SME linked to EU research projects in cultural heritage and engineering
- Advocacy for cultural heritage



Roles

ACADEMIC

- Share cutting-edge interdisciplinary approaches to cultural heritage (computer science, remote-sensing, cyber-infrastructure)
- Share education practices
- Geographically complement recruitment (TG2, TG3)
- Engage academic networks and communities in advertising calls
- Disseminate the projects results, and increase impact



TG1

Enrolled in partner HEIs

Undergraduate, Masters, PhD, Post-doc, Staff



TG2

Enrolled in other HEIs

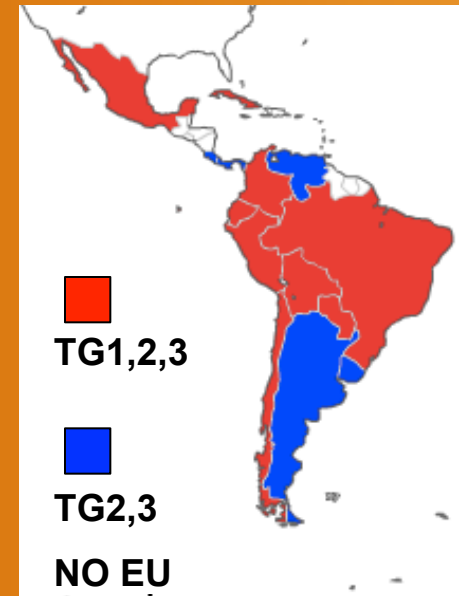
Masters, PhD, Post-doc, Staff



TG3

Vulnerable groups

Undergraduate, Masters, PhD, Post-doc



Scientific Coordination

Allocate mobilities on a specific research project with outputs

- Subject: Cultural Heritage Landmarks
- Individual Research Projects
- Selection of Case Studies (presentations by Zarnic, Gigliotti)
- Overall final product: shared methodology



September 25-26 2014
pre-meeting
EU Academic partners



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Global Risk Forum Davos - GRF, Switzerland



The GRF Davos Foundation is an international organization that aims to bridge the gap between science, public administration, the private sector, professional practice and the public in the fields of risk reduction, disaster management, and climate change mitigation and adaptation.

Centre of excellence for the accumulation of knowledge, exchange of expertise and the proper use of tools and practical solutions for the application of timely and appropriate risk management strategies. It contributes to the reduction of vulnerability to all types of risks and disasters, and helps increase resilience in order to protect life, property, environment, critical infrastructures and business activities sustainably for the world-wide community.

ROLES

- contribute to dissemination
- International Disaster and Risk Conference IDRC
- contribute to project sustainability and technical follow-ups



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City of Peace Basilicata, Betty Williams WCCC



The “City of Peace for Children in Basilicata Foundation” was established in 2010 by the Regional Government, WCCC International, WCCC Italy and the Sant’Arcangelo and Scanzano Jonico Municipalities. The President of the Foundation is Nobel Peace Laureate Betty Williams. The Foundation started the activities from the February 2012 and now in Sant’Arcangelo the Foundation hosts 19 refugees - 5 families with children. In addition to its significant humanitarian objectives, this initiative combines solidarity with development, and the support for the refugees with sustainable economic growth for local communities.

ROLES

- Dissemination among Betty Williams' WCCCI Charity
- Promotion of the scholarship to vulnerable groups (refugees, disabled, women, victims of conflicts and of calamities)
- Promotion of events at the City of Peace in Sant Arcangelo,
- Availability of internships for community projects - Availability of hospitality for incoming international participants in the guest-house facilities



Zetema Foundation, Matera



The Zetema Foundation is active in conservation, promotion and management of the cultural heritage, implementing projects and pilot applications of rehabilitation of cultural landmarks using innovative processes of valorization and management. The aim is to transform the cultural structure of the territory in identity and in a tool for development.

ROLES

- share best practices in conservation of historical landmarks and exploitation of cultural assets.
- support studies, research, projects, and contribute to the scientific sustainability of the project and offer opportunities for internships and placement of participants,
- contribute to dissemination and impact of the project on the communities and in the specific field.



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ANIDIS italian Assoc. of Earthquake Engineers



ANIDIS is a non-profit association with the mission to promote and spread the culture of seismic problems among professionals operating in Italy in the following subjects: Structural and Geotechnical Engineering, Geology, Town-planning, Architecture, Restoration, Civil Protection and Environment Preservation. Anidis organizes training courses and the Italian Conference of Earthquake Engineering every 2 years

- Networking with industry
- Professional development and internships
- Showcase students research
- Organize dedicated conference sessions / proceedings



GeoHazards Intl., Palo Alto CA



GHI is a non-profit with a mission—pursued in more than 20 countries—to reduce loss of life and suffering caused by earthquakes and related natural hazards in the world's most vulnerable communities. GHI emphasizes preparedness, mitigation and prevention over response, recovery and reconstruction. Headquarters in Menlo Park, California; and field offices in Delhi, India; Thimpu, Bhutan; and Cap Haitien, Haiti. A recognized leader in innovative approaches to disaster risk reduction, GHI works with each community's unique resources and challenges. GHI staff demonstrate, train, mentor, and organize, selecting the best approach, tools and experts on a case-by-case basis. We help communities to move from knowledge to action.

- Advise on capacity building of technical and academic curricula underprivileged communities;
- Share and disseminate activities and results to our network
- Facilitate the access to the scholarships for target groups 2 and 3,
- Select case study experiences and testbeds
- Develop research and capacity building projects under other funding instruments



Rotary International



<http://www.stevebrownrotary.com/>



- Reach out to underserved regions and vulnerable applicants (TG3)
- Link participants to International Aid projects and philanthropy
- Share community events and social activities
- Mentorship



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Rotary Intl. District 2080 Lazio, 4271 Colombia



Rotary is a worldwide service organization of more than 1.2 million business, professional, and community leaders. Members of Rotary clubs, known as Rotarians, provide humanitarian service, encourage high ethical standards in all vocations, and help build goodwill and peace in the world. The Rotary Foundation sponsors one of the largest international scholarship programs in the world. More than 47,000 scholars from 110 countries have received scholarships of more than \$476 million through The Rotary Foundation

ROLES

- advertise the TG3 scholarships to Latin American Rotary Districts and Clubs
- Q/A social inclusion, no brain-drain measures (reintegration)
- Link scholars with professional groups
- Invite speakers to give talks at local Rotary Clubs



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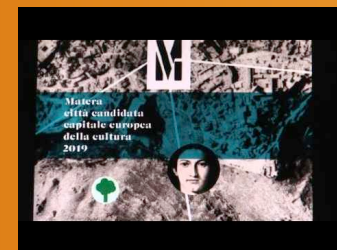
A research institute composed of 47 full time staff; 11 part-time staff, 15 research fellows, 6 fixed-term research assistants who perform activities for research, valorization, technological transfer and education in relation to the cultural heritage. In particular, the Institute works on: Multidisciplinary studies in the field of archaeology
Integrated methodologies for on-site and laboratory investigations for the diagnosis, conservation and restoration of the architectural and archaeological heritage. Novel methods of remote sensing and geophysics, Advanced techniques of virtual Since 2008, an international scientific mission (named ITACA) funded by Italian Ministry of Foreign Affairs has been working in several archaeological sites in Peru (Nazca, Cahuachi, Ventarron) and Bolivia (Tiwanaku)

ROLES

- placement/internships of beneficiaries (ITACA Peru)
- link the partner Universities with the Peruvian universities involved in the project for scientific and training activities



Matera 2019 European Capital of Culture



MT2019 ECOC: multiannual planning strategy at regional level which builds the cultural sector as a driver for socio-economic development and innovation. The concept which underlies the candidacy is TOGETHER TO-GET-THERE and is structured upon five main themes: Ancient Futures, Roots & Routes, Reflections & Connections, Continuity & Disruptions, Utopias & Dystopias.

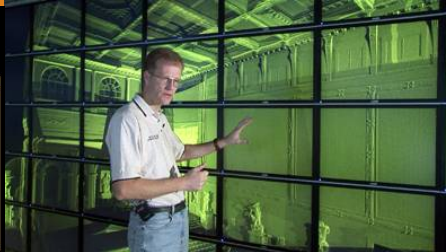
The ELARCH project is of great interest for the European and International dimension of the city's 2019 ECOC bid and its themes reflect specific aspects of those of the candidacy. The organization supports the project through: exchange of information and dissemination, share activities at local and EU level, share strategies towards 2019, incorporate project results in cultural policy at European/regional ERDF, ESF programming levels.



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Univ. of California San Diego – CISA3 Center for Interdisc. Sci. Art, Archit. Archaeo.



Techniques to reconstruct and analyze the history of great works of art, monumental structures, archaeological sites and artifacts. Explores methodologies and solutions to problems of art conservation, while training a new generation of interdisciplinary experts for this emerging field. Aims to change the way the world looks at its cultural heritage, in two basic ways: 1) Using multispectral imaging and analytical tools to uncover the techniques, materials, state of conservation and history of the given works; and 2) Creating new methods for visualizing and interacting, both individually and in groups, with the findings of the center's field projects, in order to engage viewers more fully in the appreciation of works of art.

- Remote collaboration from Mongolia Gengis Khan thomb expedition crowdsourcing, Florence Palazzo Vecchio, Battle of Anghiari, Palazzo Medici, and Mayan temples.
- Advertise the scholarship, further scientific development of beneficiaries in field projects/missions, share innovative practices in - Facilitate international collaborations and sharing research practices in cultural heritage



Inst. Patrimonio Cultura Cartagena, CO



public order of the District, ruling body of the culture of the District, The institute has as main objectives: "Safeguarding Cultural Heritage District; Promoting and encouraging the creation, research, and artistic and cultural activity; Promoting cultural formation and strengthening of identity and sense of belonging the District community

ROLES

- placement of beneficiaries, and dissemination/publicity
- link project activities to the local cultural heritage protection policy context.
- facilitate reintegration of beneficiaries in job positions and develop joint projects with the Colombian HEIs involved



UNESCO ORSALC



UNESCO-ORSALC is the for Observatory for Social Responsibility Regional Centre for Latin America and the Caribbean.

The world today is characterized by injustice, inequality and exclusion, and especially our continent, claiming to higher education decisive participation since its very reason for being - vocational training and / or technological research and contribute to compensate the social fabric through actions that dignify the human sense. We address the challenges facing this level of education in the XXI Century, presented by UNESCO: Demand for higher education unprecedented accompanied by a diversification of the same, and greater awareness of the fundamental importance this type of education has for cultural and economic development and to build the future, in which the younger generations should be prepared with new skills, knowledge and ideals.

ROLES

- quality-assurance of cross-cutting aspects, social inclusion, diversity, and impact.
- TG3 participants publicity and dissemination,
- advise on joint-degrees among partner EU and LA HEIs,
- Advise on charter local UNESCO Chairs programs at partner Universities,
- link local HEIs mobility activities to UNESCO educational policy and themes/values



Bene Construere Ltd., Croatia

Bene Construere Ltd's activities are connected to the protecting of the existing heritage structures on the structural level, using non-destructive methods and minor destructive methods for assesment of structural status of cultural heritage buildings. Also, the focus of the work is in development of software, which integrates existing data, variables of the structural performance to provide an advanced capability for the obtained key performance and structural conditions in cultural heritage objects as well as data for decision support and setting the best methods and strategy for maintenance of cultural heritage object regarding everyday climate parameters influence and hazards. The company organises also conferences, symposia, workshops and seminars, consultancy regarding maintenance of cultural heritage objects, market research and public opinion polling. Company organises professional assemblies regarding permanent education and training workshops, seminars and symposia.

ROLES

- link participants to the engineering industry, offer placement for internships.
- connect beneficiaries with Latin American partners in joint projects and facilitate their professional development after completion of the mobilities



Associate Universities

- Universidad Nacional Autonoma de Mexico - UNAM
- Universidad de Veracruz, Mexico
- Pontificia Univ. Catolica de Chile
- Universidad de Salta, Argentina
- Universidad Industrial de Santander, Colombia



ROLES

- Promote outgoing mobility to Europe at the Undergraduate level, Master degree, PhD exchange and full degree, Post docs, Staff.
- Promote participation of students in this project at all mobility types and encourage participation of TG2 and TG3 students.
- Disseminate the project results and activities to community, and encourage re-integration of beneficiaries in the community at the academic and professional level.
- Contribute to project sustainability and facilitate research collaborations, joint projects development under other funding instruments of entities of national and Latin-American interest.





THANKS

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