



UPM IMPACT in SDG3

Good Health & Well-Being

EELISA ACITIVITIES AROUND SDG3

Understanding active geomorphological erosion processes in polar areas for surveillance and forecasting under the impact of a changing climate.

Description

Road death and injury represent a serious public health problem in most countries of the world. According to the data provided by the European Federation of Road Traffic Victims [1], 26.500 People die in road crashes each year in the EU and 1.450.000 are seriously injured or disabled. Other studies [2] assert that road traffic injuries are the leading cause of death among adolescents and young adults. If we take into account that European roads are probably the safest in the world, we realize the dimension of this problem. The problem of traffic accidents must be approached from different perspectives. On the one hand, the visibility of the victims must be improved. This provides two advantages first promote the specific assistance required by this group and also serving as a source of information and awareness to prevent new accidents. This awareness must be promoted from the training stages, involving students in motivating projects that make them direct participants. In order to access to collective of road victims, students and teaching staff may take advantage of institutions or organizations such as hospitals, victims' associations, road traffic administrations, etc. This project aims to establish a work methodology to start working together. "Road safety", a subject in the Civil Engineering studies, is a good example of platform for this collaboration. On the other hand, engineering can provide solutions through the development of technologies that improve assistance to victims or infrastructures that prevent accidents, such as road design or smart cars.

This project main goal is making students sensible to road victims problems as target group. They will use their technical learning to research the ways to improve road victims' life and develop technical solutions to problems related to accident prevention. These problems can be faced from different perspectives, according to the expertise of the participants from different disciplines:

Road and city infrastructures
 Victims assistance
 Education and psychology
 Technological solutions to avoid accidents, both in roads and vehicles



Regarding the academic point of view, the project is committed to developing the skillsets of technological literacy, data literacy and human literacy for students in Engineering fields. The main goal is to promote research-based learning principles and the value of innovative thinking by involving the students in real-life challenges. It offers students the opportunity to gain knowledge and skills by working in partnership with their peers from different disciplines and year groups, and with experienced researchers and academics, on ambitious research projects that tackle the challenges of road victims in today’s societies.

By the end of the project, the students are expected to:

- to practice innovation related tasks (solving real, ill-structured problems, understanding societal issues);
- to develop self-efficacy;
- to practice teamwork in intercultural settings;
- to practice research-based learning in authentic learning contexts entailing the process of framing, researching, and testing solutions to real problems.

To achieve these goals, students will engage in the research and solution design of real life challenges, following their interests and skills and under the supervision of an academic mentor. Previous of these projects, several seminars will be organized to introduce students to the theoretical and practical framework of the problem.

During the development of the projects, at least two activities will be organized in which students from all three universities participate:

Opening or “Brokerage” EventWorkshop to present and disseminate the final projects

Community	Egalitarian Societies: Opportunities for Everyone (ES: O4E)		
Coordinator	begona.guirao@upm.es	ECTS	
Kind of activity	Course / Seminar		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2021-01-01	Ending date	2021-12-31
Target group	master bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/?post_type=eelisa_activity&p=1200		

Calls for activities connected to the International Open Access Week (IOAW) 2022

Description

El curso ONLINE es un espacio de diálogo para discutir posibles soluciones a necesidades insatisfechas en el cuidado de la salud.

Es una actividad inscrita en el proyecto EELISA que coordina la UPM, en concreto de la comunidad Health in the City. Representantes de todos los agentes implicados en el ecosistema de la salud se reúnen con estudiantes de diferentes especialidades (ramas de ingeniería de la UPM, y de otras universidades, otros estudios).

A través de una breve serie de presentaciones, los estudiantes y también los ponentes conocerán los diferentes puntos de vista de médicos, pacientes, gerentes, proveedores de administración y tecnología. Los estudiantes, trabajando en grupos reducidos, ofrecerán propuestas para la búsqueda de nuevas soluciones que involucren tecnologías emergentes, las cuales serán inicialmente discutidas con el panel para afinarlas a través de una primera ronda de presentaciones.

Estas propuestas serán depuradas y completadas offline internamente dentro de los grupos con sus mentores, y finalmente presentadas al panel en la segunda ronda de presentaciones, con el objetivo de obtener ideas bien definidas en forma de propuestas de nueva innovación, investigación o traducción. proyectos.

Community	Health in the City		
Coordinator	josejavier.serrano@upm.es	ECTS	2
Kind of activity	Course / Seminar		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2021-01-01	Ending date	2021-12-31
Target group	master bachelor	Teaching mode	Synchronous remote
Link	https://community.eelisa.eu/activities/curso-de-otono-smarter-health-caring-for-smarter-cities/		

Mandatory Internship for Product Design at Innovation Think Tank

Description

The 4th edition of the “Innovation Days” will take place on November 12th (14:00-20:30) and 13th (9:30-14:00), funded by EIT Health and in collaboration with the MVision Foundation, the protocommunity Health in the City framed in the EELISA project and CEEIBIS.

The event will be held at the Escuela Técnica Superior de Ingenieros de Telecomunicación (ETSIT-UPM).

Address: Av. Complutense, 30, 28040 Madrid.

The I-Days will consist of two days in which students from different disciplines but with a common interest in applying innovative solutions to problems related to the field of health will participate. Students will be divided into groups and will work on the development of a solution to a problem that will be presented to them with the support of professional mentors from the clinical, technological and innovation sectors.

There will be prizes for the three winning teams and the first prize will also participate in the Winners Event, an online event organized by the University of Barcelona, where the winning teams from all the locations where the I-Days took place will meet. The European winner will be able to travel to Stockholm in May 2022, in addition to other prizes also offered to the second and third places.

Community	Health in the City		
Coordinator	mledesma@die.upm.es	ECTS	
Kind of activity	Workshop		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2021-11-12	Ending date	2021-11-13
Target group	all	Teaching mode	In person
Link	https://community.eelisa.eu/activities/eit-health-upm-innovation-days-4th-edition/		

Student Assistant / Internship - Graphical User Interface for an extreme edge IoT fair Demonstrator

Description

Congreso Anual de la Sociedad Española de Ingeniería Biomédica

Community	Health in the City		
Coordinator	p.sanchez@upm.es	ECTS	
Kind of activity	Conference		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2021-01-01	Ending date	2021-12-31
Target group	all	Teaching mode	Synchronous remote
Link	https://community.eelisa.eu/activities/39-congreso-anual-de-la-sociedad-espanola-de-ingenieria-biomedica/		

Mandatory Internship for Organization and Communication at Innovation Think Tank

Description

Hospital interships where students make activities with high impact.

Community	Health in the City		
Coordinator	p.sanchez@upm.es	ECTS	
Kind of activity	Internship		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2021-01-01	Ending date	2021-12-31
Target group	master bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/activities/hospital-interships/		

Summer School Climate change and human rights - New Developments in Law, Litigation and Beyond in Pisa

Description

The course is a space for dialogue to discuss possible solutions to unmet needs in health care. It is an activity within the EELISA project coordinated by the UPM, specifically the Health in the City community. Representatives of all the agents involved in the health ecosystem meet with students from different specialties (engineering branches of the UPM, and from other universities, other studies). Through a short series of presentations, the students and also the speakers will learn about the different points of view of doctors, patients, managers, administration and technology providers. The students, working in small groups, will offer proposals for new solutions involving emerging technologies, which will be initially discussed with the panel and refined through a first round of presentations. These proposals will be refined and completed offline internally within the groups with their mentors, and finally presented to the panel in the second round of presentations, with the objective of obtaining well-defined ideas in the form of new innovation, research or project proposals.

Community	Health in the City		
Coordinator	josejavier.serrano@upm.es	ECTS	2
Kind of activity	Course / Seminar		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2021-01-01	Ending date	2021-12-31
Target group	master bachelor	Teaching mode	Hybrid
Link	https://community.eelisa.eu/activities/smarter-health-caring-for-smarter-cities-sc2/		

12 scholarships for a PhD in Biorobotics 2023-24 funded by the Scuola Superiore Sant'Anna and by BioRobotics Institute in Pisa

Description

Universidad Politécnica de Madrid and Friedrich-Alexander-Universität Erlangen-Nürnberg Community partners participate in Catalyst Europe together with University of Győr, University of Luxembourg, Massachusetts Institute of Technology, GE Healthcare and Health Venture Labs.

Catalyst Europe is a fellowship program focused on creating impact from biomedical technology research. The program supports talented researchers and clinicians to identify and evaluate unmet medical needs, build multi-professional teams to design solutions, and plan research projects that show strong potential for healthcare impact, in collaboration with industry, clinical settings and academia.

Catalyst Europe is based on the MIT linQ Catalyst proven innovation method for translational research.

Community	Health in the City		
Coordinator	merce@mit.edu	ECTS	
Kind of activity	Summer / Winter / Seasonal schools		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2023-09-07	Ending date	2023-03-07
Target group	master phd researcher business alumni	Teaching mode	Hybrid
Link	https://community.eelisa.eu/activities/catalyst-europe-2023-applications-due-july-16th/		

Ecological integrity of streams and lakes

Description

The project has two objectives: We propose to use color as the variable with which to intervene in both notions of well-being conditions. We act on the PHYSICAL and EMOTIONAL environments of architecture, to achieve two objectives:

TRANSFORM the physical space and its environmental conditions, achieving a reduction in stress. REVERSE negative emotions, achieving a change in behavior and in emotional well-being.

On the other hand, to promote value education and the university students learning: Ability to work in a team, organizing and coordinating activities; Scheduling of activities over time; Communication of the activities to the different groups, using a specific language according to the peculiarities of each one.

Measure the Social Impact Assessment of the recipients of the activity (patients and hospital workers, ...) Investigate in the methods of determining the social impact (Theory of Change)

A group of professors will be responsible for these activities, coordinating and providing all the necessary support. It is planned to use an area within the UPM facilities for the participants to study and work, it may be a motivating element for them to get involved. At the end, they will receive a diploma during an academic ceremony.

Community	Egalitarian Societies: Opportunities for Everyone (ES: O4E)		
Coordinator	Pia.lopezizquierdo@upm.es	ECTS	2
Kind of activity	Course / Seminar		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2021-01-01	Ending date	2021-12-31
Target group	master bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/?post_type=eelisa_activity&p=1205		

Interns- Field of VR Audio Technologies

Description

Students engage in a real-life project with a real challenge proposed by an external provider. In particular, we work with a hospital (Ramón y Cajal) and the Spanish Medical Authority (Agencia del medicamento). Projects focus on analyzing and reengineering processes and implementing suitable solutions. The activity is conducted on-site and students are organized by teams.

Examples of projects conducted in the past can be consulted at: <https://blogs.upm.es/procesosytecnologiasparalasalud/proyectos-2/>

Deliverables: Final report, video of the activity, actual improvement in the hospital and Agencia del Medicamento

Community	Health in the City		
Coordinator	teresa.sanchez@upm.es	ECTS	
Kind of activity	Course / Seminar		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2021-01-01	Ending date	2021-12-31
Target group	master bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/activities/ingenia-hospital-del-futuro-and-retos/		

SEMINAR ON DIGITALISATION IN GROUNDWATER MANAGEMENT

Description

The aim of the course is to present the possibilities that 5G technology brings to the digital transformation of healthcare. It will be based on knowledge of 5G technologies and their application to those healthcare scenarios in which they can be most useful. The course is aimed at undergraduate, master's and doctoral students of any degree related to technologies at any university in the world, as well as professionals in the health sector, who wish to learn about the possibilities of 5G technology in medicine and in the digital transformation of healthcare.

Community	Health in the City		
Coordinator	p.sanchez@upm.es	ECTS	
Kind of activity	Course / Seminar		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2023-06-20	Ending date	2023-06-30
Target group	master bachelor phd researcher business	Teaching mode	In person
Link	https://community.eelisa.eu/activities/5g-technology-in-the-digital-transformation-of-healthcare-2nd-edition/		

POST WORKSHOP II: PARTNERSHIPS IN PRACTICE

Description

In the Workshops we will work together students, academics, and stakeholders to co-create city wise solutions in different urban contexts, attending to the 4 dimensions of the 15mCity: proximity, density, diversity and digitalisation. The 15minCities transition pathway fosters sustainable mobility transitions by improving accessibility and connectivity.

Evidence will be created with and for city administrations, municipalities, partner companies and society aiming at all kinds of innovation and capacity building needed to transform our neighbourhoods and urban areas. The activity is designed for final year undergraduate and master's degree students.

Our selected case studies are Istanbul, Madrid, Paris and Bucarest as well as showcasing Europe's diversity, also enable us to follow a local-to-global approach, by understanding and giving answers to neighbourhoods, replicable in many cases in the European context.

Community	EELISA-on-the-MOVE		
Coordinator	eemove.community@upm.es	ECTS	2
Kind of activity	Course / Seminar		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2023-07-10	Ending date	2023-09-27
Target group	master bachelor phd	Teaching mode	In person
Link	https://community.eelisa.eu/activities/international-co-creation-workshops-benchmarking-the-challenge-of-15-minute-cities-in-europe/		

PhD Innovation Day

Description

Esta formación está dirigida a estudiantes interesados en reflexionar sobre los nuevos desafíos que derivan de los recientes fenómenos socioculturales y económicos que se materializan en el espacio público de la ciudad, en particular de los cascos históricos. Se propone al alumnado aprender a utilizar herramientas y técnicas de diagnóstico que aumentan y complementan los resultados del método etnográfico y utilizarlas para hacer propuestas de acción en el espacio público y simbólico de la ciudad.

En este BIP Erasmus+ participan cinco universidades, cuyos docentes aportan una mirada interdisciplinar a la formación. Se busca poner en práctica la combinación de lógicas metodológicas de la arquitectura, el urbanismo, la antropología urbana y otras ciencias sociales afines. Para ello se propone trabajar sobre los cascos históricos de las ciudades, al ser ámbitos adecuados para la aplicación de dicha lógica metodológica. Esta asociación permite garantizar resultados de aprendizaje al indagar cuestiones como las convergencias en el espacio y en el tiempo, las velocidades y temporalidades de la ciudad, las permanencias y reinenciones, las narrativas y valores simbólicos que subyacen en las identidades de los barrios.

Desde un punto de vista temático se abordarán los procesos histórico-dinámicos (cambios en los entornos cotidianos, la globalización, el reto climático, la desigualdad social y las vulnerabilidades, el aumento de la turistificación y la gentrificación, etc.).

El alumnado trabajará en un área del casco histórico de Madrid abordando el conflicto que deriva de la "convivencia" entre los residentes y la presión que ejercen el ocio, el turismo y la llegada de nuevos habitantes sobre sus barrios. Tras desarrollar un diagnóstico integrado, el alumnado dará el salto al ámbito propositivo, donde planteará acciones orientadas al "bien común" y la calidad de vida de los residentes, así como sus tradiciones, identidad y memoria, buscando hacerlas compatibles con la actividad económica (turismo, hostelería, etc.). Todo esto se desarrollará desde una lógica donde la sostenibilidad, la resiliencia equitativa y el avance hacia una transición ecológica justa estarán en el centro de las propuestas. Por otra parte, esta formación se desarrollará en plena alineación con la Agenda 2030 de Naciones Unidas.

La formación se desarrollará online durante la primera semana con el fin de dotar al alumnado del conocimiento previo de las herramientas de diagnóstico que le permitirá iniciar el trabajo de campo al iniciar las dos semanas de desarrollo presencial. Durante las mismas se combinará el taller con clases magistrales temáticas, sesiones dialógicas y el trabajo de campo.

Community	Designing a Sustainable and Decarbonized University (DISCOVERY)		
Coordinator	sonia.degregorio@upm.es	ECTS	
Kind of activity	Course / Seminar		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2023-06-26	Ending date	2023-07-15
Target group	bachelor	Teaching mode	Hybrid
Link	https://community.eelisa.eu/activities/miradas-sobre-la-ciudad-estudio-y-accion-interdisciplinar-en-centros-historicos/		

EELISA Days Challenge – Extreme Event Game

Description

General information about UPM International Summer Schools

The UPM International Summer Schools are multilingual study abroad programmes. They address some of the latest trends in engineering and architecture, combined with a taste of Spanish language and culture in one of Europe's most cosmopolitan cities.

The UPM International Summer Schools reach out to a worldwide audience by combining courses taught in English (Anglotech) and Spanish (Hispanotech).

Students of the UPM International Summer School will:

Get acquainted with the latest technological trends, visit laboratories and benefit from the insight of industry experts

Gain access to advanced knowledge on architecture and engineering, and visit notable buildings and sites

Experience learning in a multicultural classroom with peers from different parts of the world

Get a feeling for Spanish language, an appreciation of Spanish culture and enjoy the Spanish way of life

The UPM International Summer Schools offer face to face courses on one of the UPM's campuses. They also offers an interesting cultural and social programme, including day trips to world heritage sites like Toledo, Segovia, and guided walks around Madrid and visits to the Prado and Reina Sofía Museums.

Subtopic 1:

Biomed Tech deals with innovation in biomedical technologies especially trends in the development of new devices or solutions that solve specific unmet needs.

School specific information:

Subtopic 2:

Connected and Autonomous Driving technologies involve environment perception and decision making so vehicles could take control of some driving actions. Connected vehicle technologies allow vehicles to communicate with each other and the world around them in order to obtain a more detailed information.

With regard to the registration fee, UPM offers students from EELISA universities (BME, ENPC, ITU, PSL, SNS, SSSA, FAU, UPB, UPM) a discount which consists in the payment of 50% of the registration fee. A discount and support for travel and accomodation cannot be granted twice to the same EELISA applicant for UPM international summer schools 2023. UPM decides on the final assignment of spots and fees. Travel and accommodation might be supported by your EELISA institution, please contact your local EELISA project coordinator.

Community	AI4Health Health in the City EELISA-on-the-MOVE AI4manufacturing		
Coordinator	info.summer.school@upm.es	ECTS	
Kind of activity	Summer / Winter / Seasonal schools		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2023-06-26	Ending date	2023-06-30
Target group	master bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/activities/international-summer-school-technology-applied-to-health-and-transport-at-upm/		

"Conversaciones para la Circularidad" - with Ecoembes

Description

The project aims to raise awareness of personal responsibility and self-control as a way of solving acoustic problems in cities and also aims to develop proposals for improving the urban environment. The proposals will include ideas related to the revitalisation of the city from an urban, social and economic sustainability perspective.

There is a tendency in society to think that noise problems can be solved exclusively through increased isolation (social and acoustic), which generates an aggressive city model. In contrast to this aggressive model, noise problems can be tackled through a collaborative approach and personal responsibility. A case in point is the Saconia neighbourhood in Madrid (or the city of poets). The brick blocks, with their characteristic flush windows, their saw-shaped profiles and their passageways, nowadays present noise problems.

This project aims to reverse the situation and incorporate people as a fundamental part of the process of using the building. This approach complements and develops the technical training that students receive, taking them out of their comfort zone to reinforce their learning, complementing the theoretical aspects with eminently practical issues. This is based on the analysis of the dwellings and their façades in question. Data will be collected using methodological sheets, surveys of the users of the dwellings, photographs, acoustic measurements, etc.

On the one hand, the project aims to raise awareness of responsibility and personal initiative and self-control as a way of solving problems in cities and, at the same time, to provide solutions to improve the urban environment. On the other hand, it also favours the formation of values and learning of the university students who will participate in the project.

Deliverables:

A guide of recommendations including good practices will be published so that it can be used by any interested person and help users to have a better coexistence, knowledge of the problems and possible solutions. The drafting of the guide will be carried out, above all, with the aim of helping neighbourhood communities.

The resulting guide of recommendations will be disseminated in several ways and in several directions:

AECOR (Spanish Association Against Noise) will be contacted and sent to them so that they can use it and disseminate it if they consider it appropriate.

The Neighbourhood Association of the neighbourhood where the work is carried out will be contacted and delivered (if the work is carried out in the Saconia neighbourhood of Madrid, it would be the Neighbourhood Association "Ciudad de los Poetas").

The two management and administration companies of homeowners' associations in the neighbourhood will be contacted and delivered.

It will be sent directly to those users who have authorised us to send it to them through the survey.

We will also inform about this initiative and the link to the guide through the teachers' personal social networks and the existing institutional ones, specifically through LinkedIn and Twitter.

Community	Egalitarian Societies: Opportunities for Everyone (ES: O4E)		
Coordinator	patricia.aguilera@upm.es	ECTS	
Kind of activity	Challenge		
Principal SDG	SDG 3 - Good Health & Well-Being	Others SDG	SDG 3 - Good Health & Well-Being
Starting date	2021-01-01	Ending date	2021-12-31
Target group	master bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/activities/challenge-design-your-acoustic-friendly-city/		