EELISA Community Initiatives (continuosly updated)

No.	Name of Community	Mission	Coordinator	Coordinator detail
1	WATER in an era of change	To coordinate teaching and research activities to provide multidisciplinary solutions to Society's key water concerns in an era of change.	Carlos Alonso González UPB – Lacramioara Diana Robescu	carlos.alonso@upm.es diana.robescu@upb.ro
2	Circular EELISA Community	Developing resources for an integral approach towards CircularEconomy by addressing socio-civic competence gaps in future professionals.	Justo García Navarro UPB- Diana Mariana Cocârță	justo.gnavarro@upm.es diana.cocarta@upb.ro
3	Health in the City	To create a community to train new generation of professionals on the technologies, processes and data analysis to lead the fight against the health challenges faced by EU cities.	Patricia Sánchez González	p.sanchez@upm.es
4	Egalitarian Societies: Opportunities for Everyone (ES: O4E)	To promote social equality by carrying out real/social projects involving students' educational aspects related to responsibility and sustainability for the practice of their profession	Consuelo Fernández Jiménez	consuelo.fernández@upm.es
5	SSERIES (Science for a Sustainable Envision of Reality and Information for an Engaged Society)	To envision a sustainable reality through mathematics and other basic sciences, to transfer scientific knowledge and to fight misinformation about science, engineering and technology	María Dolores López González	marilo.lopez@upm.es
6	EELISA on-the-MOVE	To create a multidisciplinary academic learning-by-doing environment aimed to face challenges of sustainable and inclusive cities through mobility planning.	Andrés Monzón de Cáceres	andres.monzon@upm.es
7	The CIRCULAR and REGENERATIVE CAMPUS (CRC community)	Our campus and stakeholders (value chains; NGOs; local communities) as a demo of real circular economy that is technically viable, economically profitable and socially inclusive by design	Ruth Carrasco Gallego	ruth.carrasco@upm.es
8	Smart, Green & Clean Neighborhood: Transformation and Decarbonization Neighborhood by Neighborhood	The evolution and decarbonization of cities through the experimental design of smart solutions to transform neighbourhoods into welcoming and sustainable spaces, in a natural and social manner.	Margarita Martínez Núñez	margarita.martinez@upm.es

9	Ethics, Social Commitment and Entrepreneurship	Strengthen ethical values education and soft competencies that enable to face "glocal" societal challenges, collaborating with othersocial agents, through curricular and co-curricular initiatives	Rafael Miñano Rubio	rafael.minano@upm.es
10	DISCOVERY: DesIgning a Sustainable and deCarbOnized uniVERsity	Stimulate the generation of knowledge, exchange of learning and collaboration among interdisciplinary students and faculty, via demonstration actions aimed at accelerating University transformation.	Francesca Olivieri UPB-Cristian Florian Dincă	francesca.olivieri@upm.es cristian.dinca@upb.ro
11	Industria lDesign 4 Human:Industrial design and innovation for sustainable human welfare	To empower human beings and improve quality of life through industrial design, innovation, creativity and visionary thinking to generate efficient products and services to cover daily needs.	Raquel Cedazo León	raquel.cedazo@upm.es
12	Advanced Materials for a Sustainable Future	To support innovation for the design, development and upscaling ofnovel or enhanced materials and devices that can boost the transition to greener technologies and contribute to a sustainable future	José María Ulloa Herrero	josem.ulloa@upm.es
13	TECHNICAL AND SOCIAL CHALLENGES FOR SUSTAINABLE BUILDINGS, CITIES AND COMMUNITIES SUSTAINABLE BCC	Foster a European university ecosystem to leverage synergies to innovate and educate by stimulating technical and social challengesfor more efficient and sustainable buildings, cities and communities	Sergio Vega Sánchez	sergio.vega@upm.es
14	Data4Good: Openness, Ethics, Resilience and Governable use of Data	Fostering the generation, the access to, and the use of Open Data under ethic and non-discriminatory criteria, and contributing to solve societal impact challenges in today's digital society	Fernando Pescador del Oso	fernando.pescador@upm.es
15	Society Transition towards Digitalization and Energy decarbonization	Analysis of the transition towards a decarbonised energy system and Industry 5.0 towards sustainability for a human, just, technologically feasible, economically viable transformation	Alberto Abanades Velasco	alberto.abanades@upm.es

16	Technology Diplomacy & International Cooperation	Make EELISA a key stakeholder of EU tech diplomacy, providing training on geopolitics of technology and its impact on society and building an ecosystem to enhance EELISA´s role in international action.	José Miguel Atienza Riera	josemiguel.atienza@upm.es
17	GREEN PLANET	Preserving our Green Planet with intelligent technology. Healthy Forest & Agricultural Lands and Greener Cities with a Zero Hunger Goal	Alicia Palacios Orueta	alicia.palacios@upm.es
18	AI4manufacturing	Seizing AI opportunities for Europe's mid and long-term competitiveness. The manufacturing sector provides many relevant examples. The challenge is to integrate AI technologies with advanced manufacturing technologies and systems in order to boost their potential in the manufacturing and process industries to improve the quality of products and processes. At the same time, it is important to consider how humans and AI will work together in optimal complementarity.	Julius Kirschbaum	julius.kirschbaum@fau.de
19	European Knowledge Graph Engineer	Defining the requirements and the being of an European Knowledge Graph Engineer First objectives of this community could be: - Matching relevant skills for Knowledge Graph(KG) engineering to a scale, similarly to the Common European Framework of Reference for Languages (CEFR; A1 - C2) - Based on this scale, developing basic, advanced and expert lectures concerning KG engineering on a European level - Organizing phd symposia and meetings on a European level.	Christian Fleiner	christian.fleiner@fau.de
20	AI4health	Creating multidisciplinary groups (such as medical doctors andcomputer scientist) Essentials of modelling of brain functions (human brain to modeland	Philip Dumbach	philipp.dumbach@fau.de

		implementation) ALTILAR-ITU 1) Establish cross-disciplinary collaborations (co-supervision, co-mentorship) 2) Organizing diversity-promoting summer schools, workshops etc 3) Promoting geographic diversity and inclusiveness, supporting students in low middle-income countries (e.g., RISE MICCAI network) 4) Promotin g gender equality (e.g., WiM MICCAI) (Islem, BASIRA lab, ITU) Contribute to personalized healthcare using AI		
21	Textual and material cultural tradition in a digital ecosystem	Share IT skills and tools with philology students. Set standards and codes, create awareness for copyright and IP issues. Create a network with cities, libraries, museums. Create collaboration between linguists and engineers, create awareness for the importance of philology in STEM learnign programs. Develop a broader knowledge cloud accessible for non-institutional education and enhanced publi knowledge. Promote digital accessibility of culture and humanities. Make cultural heritage available and understandable to the general public. Provide new tools for the analysis and preservation of artifacts. Have research and modelling tools accessible to non-technical experts. Creation of digital - Twins similar to an "smar city" to interact with (have data spaces for students).	Ismael Arinas Lino Leonardi Emine Gorgul Andrea Tellini G. Adornato Zeynep Kuban Bilge Ar Umut Almac Görkem Günay Fabio Beltram Georgiana Moiceanu A.Magnetto	lino.leonardi@sns.it gianfrancoadornato@sns.it

22	Innovation and Design in engineering education : New expectations to face contemporary challenges, promising avenues opened by research advances (IDEEE)	1) What are new challenges for European Engineering innovation education, how to deal with crises and tensions? 2) What are new means available to design the Engineer of the future, e.g. data/research/theory etc.? 3) What are initiatives that already exist? Is it just interdisciplinary work or what comes next?	Pascal LeMasson, professor	pascal.le_masson@mines-paristech.fr
23	Flight Tests and Experimental Models	Develop and disseminate knowledge in Unmanned Aerial System for integration in modern cities advanced technology services (Sustainable Cities & Communities, Good Health & Well-Being). Develop on-line courses and media materials presenting the state of the art in the field of UAVs. Present and attend on line workshops related to drones - conceptual design, manufacturing, payload, guidance and control, applications - for the benefit of the community (Quality Education). We will educate undergraduate and graduate level students on novel aerial projects, such as Aerial Taxi Modeling/Development, AI and Machine Learning Applications within Aerial Systems for the prosperity of the community with organizing short courses/workshops, on-line gatherings and internship programs. Provide training and possibility for pilot qualification for community members (Decent Work & Economic Growth).	Assoc. Prof. Dr. Petrișor-Valentin PÂRVU	petrisor.parvu@upb.ro
24	EnCoNorm (Environment,Concepts, Norms)	ECN-team (Paris) aims to develop in coordination with members of Eelisa partner institutions a network of legal scholars, economists, ecologists, engineers, cognitive scientists, and philosophers around the issue		casati@ehess.fr

25	Food Bank Chair: Rational Food Consumption	The objective of the UPM-FESBAL Food Bank Chair is to prevent, by raising awareness, the waste of food and, therefore, its correct acquisition and subsequent consumption. A noteworthy activity that has had considerable success is the drawing contest (with this theme as the protagonist) in which different Food Banks from all over Spain and schools participate. The goals that the Chair seeks to achieve are: training and educational cooperation at school and university level, through activities in schools, institutes and UPM centers; analysis of the work of the Food Banks through the preparation of reports that serve to educate and raise awareness in society and dissemination and transfer of knowledge through curricular internships in the banks, seminars, projects and final projects for bachelor's and master's degrees.		catedrafesbal.agronomos@upm.es
26	STAR – Sustainable Territories through Action and Research	To train tomorrow's experts in sustainable urban development through an integrated approach to knowledge and practice.		
27	Materials and Objects for a Sustainable World	The main idea of the challenge proposed here is to form a transdisciplinary community of researchers, teachers and students around the design and conception of materials and objects with an environmental and societal approach by putting the human being at the centre of the project	Aurélie Zita, Head of International Relations, ENSAD	aurelie.zita@ensad.fr
28	Alternative bio-based materials in textiles	The challenge is to support the construction of new value chains based on alternative bio-based materials, particularly in the textile sector. This is a transdisciplinary subject that raises questions at different levels: culture, material innovation, industrial manufacturing processes, inter-	Colette Depeyre, Professor at Dauphine-PSL	colette.depeyre@dauphine.psl.eu

		industry symbiosis, design practices, impact analysis, B2B relations, consumer attitudes, etc.		
29	EELISA Community for Energy Transition and International Exchanche (STUDENT INITIATED COMMUNITY)	The mission of this community is to connect students from european universities (until now between France and Germany but generally open to more nationalities) with engineering background with connection to energy technologies. By this, new ideas and approaches for the solution of current problems in the broader topic of energy transition and renewable energies should be discussed and emerge. A strong focus will lie on finding synergies between the academic institutions and the personal background of the participating students/universities. In doing so, we are having a strong commitment the concerning UN SDG goals, namely (7) Affordable and Clean Energy, (13) Climate Action and (17) Partnerships for the Goals.	Moritz Barta (PSL) moritz.barta@mines-paristech.fr; Alexandre Moiny (ENCP) alexandre.moiny@eleves.enpc.fr; Christina Schwarz (FAU) Chrissy-s96@web.de	EELISA Community for Energy Transition and International Exchanche (STUDENT INITIATED COMMUNITY)