



Università
Ca' Foscari
Venezia

HORIZON 2020

European Research Council (ERC)

Starting Grants



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: ENERGY- ENERGY use for Adaptation

FUNDING PROGRAMME: HORIZON 2020

CALL: ERC-2017-STG (Call for proposals for ERC Starting Grant)

SCIENTIFIC FIELD: Environmental and climate change, societal impact and policy, energy

HOST DEPARTMENT: Department of Economics

SCIENTIFIC RESPONSIBLE: Enrica De Cian

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1 495 000	€ 1 495 000

ABSTRACT:

ENERGYA will improve our understanding of how energy and energy services can be used by households and industries to adapt to the risk posed by climate change. Specifically, the project will develop an interdisciplinary and scalable research framework integrating data and methods from economics with geography, climate science, and integrated assessment modelling to provide new knowledge concerning heterogeneity in energy use across countries, sectors, socioeconomic conditions and income groups, and assess the broad implications adaptation-driven energy use can have on the economy, the environment, and welfare. The key novelty of ENERGYA is to link energy statistics and energy survey data with high spatial resolution data from climate science and remote sensing, including high-resolution spatial data on meteorology, population and economic activity distribution, electrification, and the built environment.

ENERGYA has three main objectives. First, it will produce novel statistical and econometric analyses for OECD and major emerging countries (Brazil, Mexico, India, and Indonesia) to shed light on the underlying mechanisms driving energy use.

Planned Start date	Planned End date
01/03/2018	28/02/2023

BENEFICIARY:

Università Ca' Foscari Venezia	Venice (IT)
--------------------------------	-------------



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: FLOS - Florilegia Syriaca. The Intercultural Dissemination of Greek Christian Thought in Syriac and Arabic in the First Millennium CE

FUNDING PROGRAMME: HORIZON 2020

CALL: ERC Starting Grant 2017

SCIENTIFIC FIELD: Cultural studies, cultural identities and memories, cultural heritage, philology and palaeography

HOST DEPARTMENT/CENTRE: DSAAM - Department of Asian and North African Studies

SCIENTIFIC RESPONSIBLE: Emiliano Fiori

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1.343.175,00	€ 1.343.175,00

ABSTRACT:

FLOS will focus on the metamorphoses of Greek Christian thought in Syriac (Aramaic) and Arabic in Late Antiquity, within the timeframe of the first millennium CE. Syriac Christianity was a pivotal mediator of culture in the Late Antique epistemic space, but is little-known today. FLOS aims to bring to light for the first time a body of highly relevant Syriac and Christian Arabic sources that have hardly ever been studied before. At the end of the millennium, in Islamic-ruled Syria, Mesopotamia, and Iran, Syriac Christians strived to define their religious identity. One of their strategies was the production of florilegia, i.e. anthologies that they used to excerpt and reinvent the patristic canon, a corpus of Greek Christian works of the 2nd–6th centuries shared by European and Middle Eastern Christian cultures. A Greco-centric bias has prevented scholars from viewing these florilegia as laboratories of cultural creativity. FLOS will reverse the state of the art through two groundbreaking endeavours: 1) open-access digital editions of a set of Syriac florilegia of the 8th–10th centuries; 2) a study of many neglected writings of Syriac and Christian Arabic authors of the 8th–11th centuries. These tremendously important writings drew from Syriac patristic florilegia to pinpoint topics like incarnation and the Trinity against other Christians or Islam, showing how patristic sources were used to create new knowledge for the entangled environment of the Abbasid era. FLOS will thus dramatically improve our understanding of the cultural dynamics of Late Antiquity; patristic Christianity will emerge as a bridge between the intellectual history of Europe and of the Middle East. By studying how this shared patrimony was transformed in situations of interreligious interaction, especially with Islam, FLOS will facilitate the comprehension of Europe's current religious discourses, and the preservation of the endangered cultural heritage of the Syriac Christians.

Planned Start date	Planned End date
1 st March 2018	28 th February 2023

BENEFICIARY:

1 Università Ca' Foscari Venezia	Venice (IT)
----------------------------------	-------------

WEBSITE: available after the starting of the project.



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: DiGe - Ethnobotany of divided generations in the context of totalitarian regime and its breakdown

FUNDING PROGRAMME: HORIZON 2020

CALL: ERC-2016-STG – ERC Starting Grant

SCIENTIFIC FIELDS: Ethnobotany , Cultural studies, cultural identities and memories, cultural heritage,

HOST DEPARTMENT: Department Environmental Science, Informatics and Statistics.

SCIENTIFIC RESPONSIBLE: Renata Štukand

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1.496.675,00	€ 1.496.675,00

ABSTRACT:

Understanding the logics of obtaining, managing and perceiving of local natural resources, particularly plants, is crucial for ensuring sustainability of human life, as the use of plants is a key for survival of humans. The proposed research will create an advanced understanding of the mechanisms of changes in ethnobotanical knowledge experienced by traditional societies/minor ethnic groups when authoritative regime, led by dominating group, try to unify and/or erode this practical knowledge. It will also evaluate the effects of the sudden cease to existence of such regime and centralization and following impact of the trial of revival of discontinued traditional ethnobotanical knowledge. Research will evaluate the effect of several social, cultural and political factors on the evolution of ethnobotanical knowledge of four compact, but divided ethnic minorities that had experienced for shorter (25 years) or longer (70 years) period different influences affecting their plant use and very different social (including welfare and economy), and political conditions. As a long-term outcome, based on the result of present and consequent studies scientists will be able to predict the extent and depth of the changes occurring in the ethnobotanical knowledge and as a applied outcome learn to direct and educate people in the way that the knowledge necessary for sustainable maintenance and utilization of local plant resources will be constantly evolving in the way supporting health and well-being of different populations.

Planned Start date	Planned End date
01 st August 2017	31 st July 2023

BENEFICIARY:

Università Ca'Foscari	Venezia, Italy
-----------------------	----------------



Università
Ca' Foscari
Venezia

PROJECT ACRONYM AND TITLE: BIFLOW: "Bilingualism in Florentine and Tuscan Works (ca. 1260 - ca. 1416)"

FUNDING PROGRAMME: H2020 – European Research Council

CALL: ERC-2014-STG – ERC Starting Grant

SCIENTIFIC FIELD: Philology and palaeography

HOST DEPARTMENT/CENTRE: DSU – Department of Humanities

SCIENTIFIC RESPONSIBLE: Prof. Antonio Montefusco

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
1,480,625.00	1,480,625.00

ABSTRACT:

This project will undertake the first systematic investigation of the various literary documents that circulated simultaneously in more than one language in Tuscany, and especially Florence, between the mid-13th Century and the beginning of 15th Century.

During that period, Florence was both a prominent literary centre in the vernacular, and home to a renewal of classical Latin eloquence. While both fields are well studied, their interaction remains largely unexplored. This research, at the convergence of several disciplines (literature, philology, linguistics and medieval history), has a strong pioneering character. It aims at changing the perception of medieval Italian culture and interpretation of the break between medieval Culture and Humanism.

For this reason, the project will develop research in varying degrees of depth. First, it will provide the first catalogue of bilingual texts and manuscripts of medieval Tuscany. Organized as a database, this tool of analysis will stir innovative research in this field, some of which will be immediately promoted during the project.

Secondly, two case studies, considered as important and methodologically exemplary, will be researched in detail, through the publication of two important set of texts, of secular and religious nature : 1. The vernacular translation of the Latin Epistles of Dante Alighieri; 2. A collection of polemical, historiographical, devotional and prophetic documents produced by the Tuscan dissident Franciscans in last decades of the 14th Century. Finally, the entire team, led by the PI, will be involved in the preparation of a synthesis volume on Tuscan culture in the fourteenth century viewed through bilingualism, entitled Cartography of bilingual culture in Fourteenth-Century Tuscany. From this general map of the Italian culture of the time, no literary genre nor field (be it religious or lay) shall be excluded.

Planned Start date	Planned End date
1 st October 2015	30 th September 2020

PARTNERSHIP:

1 Università Ca' Foscari Venezia (UNIVE)	Venice (IT)	Beneficiary
2 Ecole des Hautes Etudes En Sciences Sociales (EHESS)	Paris (FR)	Partner

WEBSITE: available after the beginning of the project.



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: DomEQUAL – A Global approach to Domestic Paid Work and Social Inequalities

FUNDING PROGRAMME: Horizon 2020

CALL: ERC – Starting Grant 2015

SCIENTIFIC FIELD: Social Sciences and Humanities – Institutions, values, Beliefs and Behaviours (SH2)

HOST DEPARTMENT/CENTRE: Departement of Philosophy and Cultural Heritage

SCIENTIFIC RESPONSIBLE: Prof. Sabrina Marchetti

GRANT AGREEMENT n.: 678783

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1,199,976	€ 1,199,976

ABSTRACT:

How does globalisation impact the construction of social inequality? DomEQUAL tackles this question through a study on paid domestic work (PDW). Of the 52.6 million PDWs in the world today, 43 million are women and 7 million are children. The multidimensional transformations brought about by globalisation with the intensification of international migration, the urbanisation of rural and indigenous populations, and changes in household organisation and welfare regimes have a massive impact on PDWs at the global level.

New research possibilities are open since PDW has become an object of global governance. The ILO Convention 189 is the most evident sign of this. For researchers, this has the important effect of making new data and tools for analysis available. DomEQUAL profits from this opportunity to provide a global comparison of PDWs' social positions, especially in the socio-economic and legal fields. It also provides the opportunity to experiment an 'intersectionality' approach to PDW on a large scale. Finally, it analyses which type of global/local actor is more effective in improving the legal framework for PDWs. In so doing, it aims at a theoretical and methodological contribution that goes beyond PDW and addresses the construction of social inequalities within globalisation more generally.

This is done through a diachronic comparison (1950s-now) of the changing situation of PDWs in the following countries: Spain, Italy and Germany in Europe; Colombia, Ecuador and Brazil in South America; and India, the Philippines and Taiwan in Asia. These nine countries are interesting cases for comparison because of their different positions within the process of globalisation, the specificities of their socio-cultural contexts, and also

because they have all experienced mobilisations for PDWs' rights. The project will be carried out by the PI and two senior post-doc researchers based in Italy, with the support of nine experts in the selected countries.

Planned Start date	Planned End date
September 1 st , 2016	August 31 st , 2020

PARTNERSHIP:

1	UNIVERSITA' CA' FOSCARI VENEZIA	Italy	Lead Partner/Coordinator
----------	---------------------------------	-------	---------------------------------

WEBSITE: available after the starting date



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: EJCM - Early Jewish and Christian Magical Traditions in Comparison and Contact

FUNDING PROGRAMME: H2020

CALL: ERC-2019-STG

KEYWORDS: Magic, Judaism, Christianity, ritual, lived religion

HOST DEPARTMENT: Department of Asian and North African Studies

SCIENTIFIC RESPONSIBLE: Prof. Joseph Sanzo

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1 311 355	€ 1 311 355

ABSTRACT: This interdisciplinary project will contribute to the study of both Mediterranean magic and Jewish–Christian relations during late antiquity (III–VII CE) by providing a comparative analysis of the Jewish and Christian magical texts and objects (e.g., amulets and incantation bowls) that is informed by an innovative, synthetic interpretative framework. This project will investigate the contacts between Jewish and Christian practitioners as well as the dynamics of religious assimilation, cooperation, and differentiation in the everyday lives of ancient Jews and Christians. Although scholarly study of the early Jewish and Christian practices, rituals, and texts deemed “magical” has blossomed over the past few decades, this research has tended to be divided along disciplinary lines, with historians of Judaism studying Jewish magic and historians of Christianity studying Christian magic. Independent from this line of inquiry there is a long history of scholarship devoted to early Jewish–Christian relations which has detailed the diverse ways Jews and Christians interacted in the ancient world. However, the study of early Jewish–Christian relations has not taken into serious consideration the “magical” evidence. In short, despite these respective lines of scholarship within and across early Jewish and Christian studies, there has not yet been a sustained analysis of early Jewish and Christian magical traditions in comparison and in contact.

An interdisciplinary team (PI, 1 Postdoc, and 2 PhD students) will address this scholarly gap by examining local and global features of the magical artefacts – and the literary traditions about magic – from late-antique Jewish and Christian communities. In particular, this group will focus on the similarities, differences, and contacts between these traditions in four central areas of their magical practices: biblical texts and traditions; sacred names and titles; the word-image-material relation; and references to illicit rituals.

Planned Start date	Planned End date
1st February 2020	31 st January 2025



Università
Ca' Foscari
Venezia

PROJECT ACRONYM AND TITLE: 'Remaking Health in a Microbial Planet by Crossing Space, Time, Species and Epistemic Cultures — HealthXCross'

FUNDING PROGRAMME: HORIZON 2020

CALL: ERC-2020-STG – Starting Grant

HOST DEPARTMENT: Department of Philosophy and Cultural Heritage

SCIENTIFIC RESPONSIBLE: Raffaetà Roberta

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1.367.062,50	€1.367.062,50

ABSTRACT:

Microbiome science is popularizing a symbiotic understanding of health and ecology. What microbiome science now knows is that microbes entangle the health of people and environments; what we don't know is how, in this process, new cultural concepts and practices of health may emerge. This project asks: how does health come to be reconfigured in a world entangled through microbial data? HealthXCross is a multi-sited, comparative ethnographic study of how scientists produce and coordinate knowledge within the Earth Microbiome Project (EMP). EMP is a US-founded and transnational research network to enable the collection, comparison and integration of microbial data across time, space and species in order to produce simulations for intervening in both environmental and human health. HealthXCross is an ethnographic inquiry into the implications of the environment being understood as a body - and viceversa - through the analysis of the tensions between the emancipatory and the dystopian effects of dissolving boundaries between human bodies and environments. With this aim, my project will examine 1) how the technology employed in EMP remakes notions of biological diversity by crossing conventional categorizations (space, time, species), 2) how the disruption of standard knowledge is performed as innovation value by making diverse epistemic cultures work together and 3) how these knowledge-making practices shape new trends in healthcare. HealthXCross will create a participatory design with scientists, who are among stakeholders in the public discourse about what it means to be human and how to live in an entangled planet. My project will offer timely insights into the interplay between knowledge making and the shaping of health practices in times of profound ecological, socio-technical and economic transition. HealthXCross will dramatically advance anthropological understandings of the contradictory but constitutive aspects of living together and being in relation.

Planned Start date	Planned End date
1 st September 2021	31 th August 2026

BENEFICIARY:

1 Università Ca' Foscari Venezia	Venice (IT)	Beneficiary
----------------------------------	-------------	-------------



Università
Ca' Foscari
Venezia

PROJECT ACRONYM AND TITLE: LAWHA – Lebanon's Art World at Home and Abroad: Trajectories of artists and artworks in/from Lebanon since 1943

FUNDING PROGRAMME: HORIZON 2020

CALL: ERC-2019-STG

DESCRIPTORS: Cultural studies, cultural identities and memories, cultural heritage, Computational modelling and digitisation in the cultural sphere, Museums, exhibitions, conservation and restoration, History of art and architecture, arts-based research

HOST DEPARTMENT: Department of Philosophy and Cultural Heritage

SCIENTIFIC RESPONSIBLE: Vescovo Pier Mario

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1.498.813,00	€ 166.576,84

ABSTRACT:

This project takes an ambitious approach to investigating the trajectories of artists and their works in and from Lebanon since its independence in 1943. In the absence of an institutionalised local art history, artists are often stereotyped according to the agendas of labelling institutions. The project proposes a shift of perspective in approaching Lebanon's art world by placing emphasis on the multi-dimensionality of artists' individual trajectories. It investigates (1) the forces that have shaped the emergence of a professional field of art in their local, regional and global contexts, (2) how to rethink the impact of the political, social and economic environment on the art world and its protagonists, Lebanon often being defined by its experience of violence and conflict, (3) how artists are represented in relation to the nation, and (4) how the trajectories of individuals shape the field. The focus will be on artists in and from Lebanon using the forms of painting (Arabic: lawha), sculpture and new media art. The specificity of Lebanon's history after gaining independence from France in 1943 makes it particularly worthwhile to study the power-relations between artists and institutions at home and abroad. The project's objectives are to (1) develop a new approach to rethink artistic production from a cultural-political perspective while placing the trajectory of artists and their works at the centre, (2) re-evaluate the impact of war and migration on a country's artistic production, (3) build a collaborative digital platform and database (DDP) to create a central and open-access repository and innovative tool for future research and preserving Lebanon's cultural heritage, and (4) to connect the scientific cultures of academic research and museums/art institutions. The project's five thematic clusters and DDP will identify new methods on how to interrelate context and artistic production, serving as a model for revisiting art histories in post-colonial contexts.

Planned Start date	Planned End date
2 st December 2020	30 th September 2025

PARTNERSHIP:

1 Max Weber Stiftung Deutsche Geisteswissenschaftliche Institute Im Ausland	Boon (DE)	Beneficiary
2 Università Ca' Foscari Venezia	Venice (IT)	Partner



Università
Ca' Foscari
Venezia

PROJECT ACRONYM AND TITLE: MAGNETIC-SPEED-LIMIT Understanding the speed limits of magnetism

FUNDING PROGRAMME: H2020 ERC - Starting Grant

CALL: ERC-2016-STG

SCIENTIFIC FIELDS: Nanoscience and nanotechnology

HOST DEPARTMENT: Department of Molecular Sciences and Nanosystems

SCIENTIFIC RESPONSIBLE: Stefano Bonetti

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1,967,755.00	€ 218,750.00

ABSTRACT:

While the origin of magnetic order in condensed matter is in the exchange and spin-orbit interactions, with time scales in the subpicosecond ranges, it has been long believed that magnetism could only be manipulated at nanosecond rates, exploiting dipolar interactions with external magnetic fields. However, in the past decade researchers have been able to observe ultrafast magnetic dynamics at its intrinsic time scales without the need for magnetic fields, thus revolutionising the view on the speed limits of magnetism. Despite many achievements in ultrafast magnetism, the understanding of the fundamental physics that allows for the ultrafast dissipation of angular momentum is still only partial, hampered by the lack of experimental techniques suited to fully explore these phenomena. However, the recent appearance of two new types of coherent radiation, single-cycle THz pulses and x-rays generated at free electron lasers (FELs), has provided researchers access to a whole new set of capabilities to tackle this challenge. This proposal suggests using these techniques to achieve an encompassing view of ultrafast magnetic dynamics in metallic ferromagnets, via the following three research objectives: (a) to reveal ultrafast dynamics driven by strong THz radiation in several magnetic systems using table-top femtosecond lasers; (b) to unravel the contribution of lattice dynamics to ultrafast demagnetization in different magnetic materials using the x-rays produced at FELs and (c) to directly image ultrafast spin currents by creating femtosecond movies with nanometre resolution. The proposed experiments are challenging and explore uncharted territories, but if successful, they will advance the understanding of the speed limits of magnetism, at the time scales of the exchange and spin-orbit interactions. They will also open up for future investigations of ultrafast magnetic phenomena in materials with large electronic correlations or spin-orbit coupling.

Planned Start date	Planned End date
1 st August 2018	31 st January 2022

PARTNERSHIP:

1 Stockholm University	Sweden	Coordinator
2 Università Ca' Foscari Venezia	Italy	Partner



Università
Ca' Foscari
Venezia

PROJECT ACRONYM AND TITLE: WARMCOASTS - Sea level and extreme waves in the Last Interglacial

FUNDING PROGRAMME: HORIZON 2020

CALL: H2020 ERC - Starting Grant

HOST DEPARTMENT: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Alessio Rovere

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€1.499.965,00	€883.354,00

The project has been transferred to Ca' Foscari University of Venice thanks to the portability option

ABSTRACT:

Past interglacials are periods of the earth's history when climate was warmer than the pre-industrial, and are often considered as process-analogs for a future warmer climate. During the Last Interglacial (LIG, ~128-116 ka), polar temperatures were few degrees higher than pre-industrial, ice sheets were smaller and sea level was higher than today. Studies also suggest that waves in the North Atlantic might have been more intense in the LIG than today. Understanding sea level changes and extreme wave intensity during the LIG is key to assess the future of the world's ice sheets and coastlines under warmer climatic conditions. For this reason, the LIG is the most studied among past interglacials, but recent research highlighted that the LIG is far from a 'solved problem', especially for which concerns sea level and coastal dynamics. There are in fact three relevant research gaps. First, widely accepted estimates suggest that LIG global mean sea level was 5-10 m higher than today, but recent studies proved that previously unrecognized processes concur to make current LIG sea level estimates very uncertain. Second, it is unclear if LIG sea level was characterized by rapid oscillations that caused sea level to rise abruptly at rates higher than at present (up to 10 mm per year in the LIG, compare with 3 mm per year today). A third research gap is related to the highly controversial notion that the LIG was characterized by 'superstorms', producing waves more intense than those observed today. In this project, we want to employ a multidisciplinary combination of methods to study Last Interglacial peak sea level, sea level variations and extreme waves. WARMCOASTS will develop both new datasets and merge methods from geology, earth modeling, surface processes modeling and hydrodynamic modeling to advance the current state-of-the-art. The results of this project will be functional to better understand coastal processes under slightly warmer climate conditions.

Planned Start date	Planned End date
1 st November 2021	1 st April 2025

PARTNERSHIP:

1	MARUM, Center for Marine Environmental Sciences, UNIVERSITY OF BREMEN	Bremen (DE)	Coordinator
2	Università Ca' Foscari	Venezia (IT)	Partner



Università
Ca' Foscari
Venezia

HORIZON 2020

European Research Council (ERC)

Consolidator Grants



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: EarlyModernCosmology - Institutions and Metaphysics of Cosmology in the Epistemic Networks of Seventeenth-Century Europe

FUNDING PROGRAMME: HORIZON 2020

CALL: ERC Consolidator Grant 2016

SCIENTIFIC FIELD: History of ideas, intellectual history, history of economic thought, History of philosophy, History of science, medicine and technologies, Early modern history

HOST DEPARTMENT/CENTRE: DFBC - Department of Philosophy and Cultural Heritage

SCIENTIFIC RESPONSIBLE: Pietro Daniel Omodeo

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1,999,976.00	€ 1,999,976.00

ABSTRACT:

The focus of this project is the competing confessional discourses on cosmology of the seventeenth century, an epoch in which religious conflicts originated opposing 'epistemic cultures', which were embodied in scholarly institutions and networks such as the Protestant web of northern European universities or the global web of Jesuit colleges. In the Early Modern Period cosmological controversies (over issues such as heliocentrism, plurality of worlds, space, infinity, cometary theory, celestial matter and fluidity) were heated and amplified by increasing political and confessional fragmentation. The Roman prohibition of the Copernican system (1616) and the extraordinary condemnation of Galileo (1633) accelerated the formation of competing cosmological cultures along confessional and political lines of alliance and opposition. This research project addresses the interrelations between [1.] cosmological debates in the northern European Protestant institutional networks of scholars and institutions and [2.] cosmological debates in Jesuit institutional networks aiming at [3.] a comparative assessment of early formations and transformations of epistemic webs. It considers parallelisms and contrasts, negotiations and intersections of seventeenth-century cosmological discourses between scholars, institutions and scientific communities belonging to different epistemic cultures. This endeavor brings into focus the political-confessional dimension of early-modern cosmology and shows how science is embedded in struggles for cultural hegemony, struggles which were at once institutional and ideological. While there is a great deal of in-depth study on the history of science in various early-modern confessional contexts, a comparative study bringing together the history of knowledge institutions and their metaphysical legitimation is still a desideratum.

Planned Start date	Planned End date
1 st November 2017	31 th October 2022

BENEFICIARY:

Università Ca' Foscari Venezia	Venice (IT)
--------------------------------	-------------

WEBSITE: available from the first year of the project.



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: AdriArchCult - Architectural Culture of the Early Modern Eastern Adriatic

FUNDING PROGRAMME: H2020

CALL: ERC-2019-COG

SCIENTIFIC FIELDS: Architectural history, Eastern Adriatic, Early Modern period, architectural culture

HOST DEPARTMENT: Department of Philosophy and Cultural Heritage

SCIENTIFIC RESPONSIBLE: Jasenka Gudelj

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1,999,750	€ 1,999,750

ABSTRACT:

During the 15th century, the political process of reducing the Eastern Adriatic, here considered as encompassing what is now littoral of Slovenia, Croatia and Montenegro, to a thin strip of border territories substantially separated from the continental massive to which they belong, reached its conclusion. The insularity of its large natural archipelago, i.e. almost exclusive dependence on the maritime communications, became characteristic even of mainland coastal towns, with lasting consequences. The project explores the impact of this change in the area between 15th and 18th c., focusing on architecture as the most evident materialization of a culture and its transformations. The goal is to examine the architectural culture in question in terms of both consumption and production. Factors such as political and economic consolidation of Venetian and Dubrovnik Republics as well as Habsburg Empire in the area, war and commerce with the Ottomans, but also the quick spread of revival of antiquity and the Catholic Revival, all fuelled the need for architectural creation with certain functional and symbolic characteristics, setting the cultural standards. On the other hand, the economics of production of architecture consisted of interrelated systems of the provision of materials (esp. Istrian stone) and organisation of construction sites, which, given the ease of the sea transport, resulted in an active market for architectural goods. This approach will provide an original contribution to the understanding of cultural practices that not only produced specific buildings, the most significant among which are now listed as World Heritage sites but also put into circulation ancient and modern models, techniques and materials for a European-wide audience. Moreover, it will investigate the trans-border and trans-confessional character of the architectural market, thus providing an innovative model for a study of such phenomena across Europe.

Planned Start date	Planned End date
1 st September 2020	31 st August 2025



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: GEODAP - GEOarchaeology of DAily Practices: extracting bronze age lifeways from the domestic stratigraphic record

FUNDING PROGRAMME: Horizon 2020

CALL: ERC-2020-COG – Consolidator Grant

DESCRIPTORS: *General archaeology, Archaeometry, Landscape archaeology, Prehistory, Palaeoanthropology, Palaeodemography, Protohistory*

HOST DEPARTMENT: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Dario Battistel

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€1.987.141,00	€80.141,25

ABSTRACT:

What was daily life like in the European Bronze Age? In contrast to large-scale narratives based on artefacts, often prestige items from funerary contexts, this project focuses on the practices of daily domestic life, recorded in the sediments upon which it took place. These constitute the domestic stratigraphic record. This project, therefore, shifts the scale and the object of archaeological investigation, and aims at bringing interdisciplinary scientific analyses into dialogue with anthropological understandings of lifeways and households. Its main objective is the formulation of an innovative narrative of the Bronze Age addressing social, economic, and environmental aspects of a culturally interconnected region of Europe. The daily practices and life histories of bronze age people will be the pixels of this new picture that challenges previous depersonalized narratives relying on material culture. The region between the Carpatho-Danubian basin, the Balkans, and northern Italy was selected due to its important cultural interactions during the Bronze Age. Ten key archaeological sites in six European countries constitute the project's database. Its innovative interdisciplinary approach integrates geoarchaeology (micro-stratigraphic analysis), organic chemistry (biomarkers) and archaeo-botany (phytoliths, seeds, fruits, and charcoal) to reconstruct with unprecedented accuracy the daily practices from domestic stratigraphy. This information will be compared with the story told by material culture and integrated with local paleo-environmental records. The project, in fact, challenges also previous reconstructions that called in environmental mega-events (volcanic eruptions, glacial advances, aridity events) to aprioristically explain broad cultural phenomena of the Bronze Age. Their inherent complexity can only be faced by crystallizing detailed micro-histories and site-specific environmental reconstructions into a broader synthesis based on hard scientific data.

Planned Start date	Planned End date
01/10/2021	30/09/2026

PARTNERSHIP:

1. University of Padua	Italy	Beneficiary
2. Ca' Foscari University of Venice	Italy	Additional Institution



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: GEOarchaeology of DAily Practices: extracting bronze age lifeways from the domestic stratigraphic record

FUNDING PROGRAMME: HORIZON 2020

CALL: ERC-2020-COG – Consolidator Grant

DESCRIPTORS: General archaeology, Archaeometry, Landscape archaeology, Prehistory, Palaeoanthropology, Palaeodemography, Protohistory

HOST DEPARTMENT: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Battistel Dario

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1.987.141,00	€ 80.141,25

ABSTRACT:

What was daily life like in the European Bronze Age? In contrast to large-scale narratives based on artefacts, often prestige items from funerary contexts, this project focuses on the practices of daily domestic life, recorded in the sediments upon which it took place. These constitute the domestic stratigraphic record. This project, therefore, shifts the scale and the object of archaeological investigation, and aims at bringing interdisciplinary scientific analyses into dialogue with anthropological understandings of lifeways and households. Its main objective is the formulation of an innovative narrative of the Bronze Age addressing social, economic, and environmental aspects of a culturally interconnected region of Europe. The daily practices and life histories of bronze age people will be the pixels of this new picture that challenges previous depersonalized narratives relying on material culture. The region between the Carpatho-Danubian basin, the Balkans, and northern Italy was selected due to its important cultural interactions during the Bronze Age. Ten key archaeological sites in six European countries constitute the project's database. Its innovative interdisciplinary approach integrates geoarchaeology (micro-stratigraphic analysis), organic chemistry (biomarkers) and archaeo-botany (phytoliths, seeds, fruits, and charcoal) to reconstruct with unprecedented accuracy the daily practices from domestic stratigraphy. This information will be compared with the story told by material culture and integrated with local paleo-environmental records. The project, in fact, challenges also previous reconstructions that called in environmental mega-events (volcanic eruptions, glacial advances, aridity events) to aprioristically explain broad cultural phenomena of the Bronze Age. Their inherent complexity can only be faced by crystallizing detailed micro-histories and site-specific environmental reconstructions into a broader synthesis based on hard scientific data.

Planned Start date	Planned End date
1 st October 2021	30 th September 2026

BENEFICIARIES:

1	Università Degli Studi di Padova	Padova (IT)	Beneficiary
2	Università Ca' Foscari Venezia	Venice (IT)	Partner
3	Università del Salento	Lecce (IT)	Partner



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: PURA - PURism in Antiquity: Theories of Language in Greek Atticist Lexica and their Legacy

FUNDING PROGRAMME: H2020 Excellent Science

CALL: ERC-2019-Consolidator Grant

SCIENTIFIC FIELDS: Cultures and Cultural Production

HOST DEPARTMENT: DSU – Department of Humanities

SCIENTIFIC RESPONSIBLE: Olga TRIBULATO

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1.303.437, 00	€ 1.303.437, 00

ABSTRACT:

Linguistic purism, the attempt to protect language against the 'threat' of multilingualism, change and outside contact, finds an antecedent in Greek Antiquity that remains mostly unknown outside Classics and has never been studied in a multidisciplinary perspective. PURA aims to overturn this state of affairs by producing the first global study of Greek purism, the texts which upheld it, and their legacy in later ages. The focus of this analysis are Atticist lexica: collections of features to be cultivated or avoided in correct Greek. These texts were compiled by scholars who lived in the multilingual Roman Empire and wished to counter the natural evolution of Greek by freezing it at an ideal stage of purity, identified with the extinct dialect of 5th-century Athens. PURA is characterized by a multidisciplinary methodology combining Classics, linguistics, textual philology, codicology and historical lexicography with an innovative digital tool which will tackle both the immaterial heritage of Atticist theories and their material history as books. Its objectives are: 1) to provide a global mapping of the purist theories expressed in the lexica and make them both accessible outside the traditional format of critical editions and approachable for non-experts in the form of a unique web-based searchable corpus; 2) to endow the corpus with an in-depth linguistic analysis that extends from Ancient to Modern Greek; 3) to bring textual transmission and book circulation into the picture by charting all the manuscripts and first printed editions of the lexica; 4) to produce the definitive study of Atticism and its legacy from a modern linguistic and philological perspective. PURA will go beyond the traditional standards of Classical studies by creating an unprecedented digital tool for the investigation of Ancient Greek lexicography and a model of textual, linguistic and philological analysis that can be extended to the study of purism in other languages and cultures.

Planned Start date	Planned End date
1 st January 2021	31 st December 2025

PARTNERSHIP:

1.	UNIVERSITA'CA' FOSCARI VENEZIA	Italy	Beneficiary
-----------	---------------------------------------	--------------	--------------------



Università
Ca' Foscari
Venezia

HORIZON 2020

European Research Council (ERC)

Advanced Grants



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: K4U - Knowledge For Use [K4U]: Making the Most of Social Science to Build Better Policies

FUNDING PROGRAMME: Horizon 2020

CALL: Horizon 2020 - ERC-2014-ADG

SCIENTIFIC FIELD: Social Science and Humanities - Philosophy and history of philosophy - Social policies, welfare and educational systems

HOST DEPARTMENT/CENTRE: Department of Philosophy and Cultural Heritage

SCIENTIFIC RESPONSIBLE: Prof. Eleonora Montuschi

Project total costs	Overall funding assigned to UNIVE
€ 2.092.125,00	€ 29.000,00

ABSTRACT:

‘Research is an investment in our future’ says Horizon 2020. That’s only true if you know what to do with it. When it comes to social policy, we don’t really know how to put our research results to use. K4U aims to remedy this. K4U will construct a radically new picture of how to use social science to build better social policies. This picture will be founded on an ambitious philosophical study of the technology of social science including a thorough reconceptualisation of objectivity, deliberation and the role of values in the science/society interface.

Current work, primarily by the evidence-based policy and practice movement, focuses on knowledge production: encouraging high quality studies and vetting them. Little attention goes to knowledge use: How is social science knowledge to be used in policy design and deliberation - how should it be used so that policy outcomes are more effective and more reliably predictable and competing values and points of view are respected in policy choice and implementation?

K4U will provide not just a theoretical but a practical understanding- for users: intelligible and practically helpful to those who need to estimate and balance the effectiveness, the evidence, the chances of success, the costs, the benefits, the winners and losers, and the social, moral, political and cultural acceptability of proposed policies. The philosophical approach of K4U is broadly Popperian. It views ‘science and technology as a means of understanding social problems and responding to them’ and it emphasises the concrete and detailed, where the real content of general philosophical concepts and claims is embodied and interrogated.

K4U is a showcase for the kind of philosophy that makes a difference to real life - philosophy for practice. And it will launch an entire new field in philosophy: the philosophy of social technology.

Planned Start date	Planned End date
01st November 2015	31st October 2020

PARTNERSHIP:

1	University of Durham	UK	Lead Partner/Coordinator
2	Università Ca' Foscari Venezia	Italy	Partner
3	London school of economics and political science	UK	Partner

WEBSITE: available after the beginning of the project



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: Water-Cultures: The Water Cultures of Italy, 1500-1900

FUNDING PROGRAMME: Horizon 2020

CALL: H2020 – ERC – Advanced Grant 2018

KEYWORDS: water and the sacred; thermal springs; mineral waters; water and health/disease; cholera; sanitation; hydraulic systems and infrastructure; water supply management; water access; irrigation and land reclamation; water-related occupations; circulation of hydrological knowledge and expertise; social and cultural history; environmental history; architectural history; history of medicine, science and technology; hydraulic archaeology; landscape archaeology; social and cultural history; early modern Italy

HOST DEPARTMENT: Departement of Humanities

SCIENTIFIC RESPONSIBLE: Prof. David Gentilcore

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 2.444.549,00	€ 2.433.520,25

ABSTRACT:

Behind this project lies a paradox: water, although vital for life, has historically had little intrinsic value. Considered base and common as a drink, it was nevertheless the most symbolically charged of the elements; of limited monetary value in and of itself, access to it was in fact hard-fought, the foundation and driving force of society. The Water Cultures project aims to create a new field of study, based around the social and cultural history of a people's polyvalent interactions with water, applicable to a wide range of places and times. The project proposes an epistemological method of structuring, analysing and presenting the diverse range of findings and approaches into a new holistic understanding. The Water Cultures concept is based on the synergistic braiding of five key 'Streams': the symbolic beliefs and practices associated with water; the circulation and evolution of knowledge about water and disease and its effects; the water management systems of large cities and demands on them; the changing hydraulic landscape of rural areas; and the occupations of water, exploring the professions and trades associated with water and its delivery and uses. Italy has been chosen as the case study—for its rich archives and social, political and geographical variety. The Italian history of water, from the 1500s to the end of the 19th century, is a story of authority and conflict, social hierarchy and material realities, changing medical and scientific knowledge and technological expertise, and religious beliefs and practices. Yet Italian historians have undervalued water and its uses. This transformative project conceptualises a new way of writing history, with water at its core. It proposes the history and culture of a given society, the construction of identities and forms of self-representation based on relationships and interactions with water: the ways of controlling, using and conceiving it, and the symbolic, creative and material dimensions it assumed.

Planned Start date at UNIVE	Planned End date at UNIVE
November 1 st , 2019	September 30 th , 2024

Host Institution:

1 UNIVERSITA' CA' FOSCARI VENEZIA

Italy

Lead Partner/Coordinator



Università
Ca' Foscari
Venezia

HORIZON 2020

**Future and Emerging Technologies
(FET)**



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: ODYCCEUS - Opinion Dynamics and Cultural Conflict in European Spaces

FUNDING PROGRAMME: Horizon 2020 – Future and Emerging Technologies

CALL: H2020-FETPROACT-2016-2017 FET Proactive; Topic FETPROACT-01-2016

TYPE OF ACTION: RIA

SCIENTIFIC FIELD : Global Systems Science ; Knowledge infrastructure ; Cognitive science, human computer interaction, natural language ; Pure mathematics, Applied mathematics ; Social sciences, interdisciplinary.

HOST DEPARTMENT/CENTRE : Department of Management

SCIENTIFIC RESPONSIBLE: Prof. Massimo WARGLIEN

GRANT AGREEMENT NUMBER: 732942

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 5.817.276,25	€ 608.937,50

ABSTRACT:

Social media and the digitization of news and discussion fora are having far-reaching effects on the way individuals and communities communicate, organize, and express themselves. Can the information circulating on these platforms be tapped to better understand and analyze the enormous problems facing our contemporary society? Could this help us to better monitor the growing number of social crises due to cultural differences and diverging world-views? Would this facilitate early detection and perhaps even ways to resolve conflicts before they lead to violence? The Odyceus project answers all these questions affirmatively. It will develop the conceptual foundations, methodologies, and tools to translate this bold vision into reality and demonstrate its power in a large number of cases.

Specifically, the project seeks conceptual breakthroughs in Global Systems Science, including a fine-grained representation of cultural conflicts based on conceptual spaces and sophisticated text analysis, extensions of game theory to handle games with both divergent interests and divergent mindsets, and new models of alignment and polarization dynamics. The project will also develop an open modular platform, called Penelope, that integrates tools for the complete pipeline, from data scraped from social media and digital sources, to visualization of the analyses and models developed by the project. The platform features an infrastructure allowing developers to provide new plug-ins for additional steps in the pipeline, share them with others, and jointly develop the platform as an open source community. Finally, the project will build two innovative participatory tools, the Opinion Observatory and the Opinion Facilitator, which allow citizens to monitor, visualize and influence the dynamics of conflict situations that involve heterogeneous cultural biases and non-transparent entanglements of multilateral interests.

Planned Start date	Planned End date
01 January 2017	31 December 2020

PARTNERSHIP:

1	MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V.	Germany	Lead Partner/Coordinator
2	UNIVERSITÀ CA' FOSCARI VENEZIA	Italy	Partner
3	CHALMERS TEKNISKA HOEGSKOLA AB	Sweden	Partner
4	UNIVERSITE PIERRE ET MARIE CURIE - PARIS 6	France	Partner
5	UNIVERSITE PARIS DIDEROT - PARIS 7	France	Partner
6	VRIJE UNIVERSITEIT BRUSSEL	Belgium	Partner
7	UNIVERSITEIT VAN AMSTERDAM	Netherlands	Partner
8	UNIVERSITAET LEIPZIG	Germany	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: RePAIR - Reconstructing the Past: Artificial Intelligence and Robotics Meet Cultural Heritage

FUNDING PROGRAMME: Horizon 2020 – Future and Emerging Technologies Open – Novel ideas for radically new technologies

CALL: H2020-FETOPEN-2018-2020

SCIENTIFIC FIELDS: Computer sciences, information science and bioinformatics; Electrical and electronic engineering; Humanities

HOST DEPARTMENT: DAIS - Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Prof. Marcello PELILLO

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 3.522.010	€ 586.066

ABSTRACT:

Our goal with this project is to develop a ground-breaking technology to virtually eliminate one of the most labour-intensive and frustrating steps in archaeological research, namely the physical reconstruction of shattered artworks. Indeed, countless vases, amphoras, frescos and other ancient artefacts, all over the world, have not survived intact and were dug out from excavation sites as large collections of fragments, many of which are damaged, worn out or missing altogether. Reconstruction of small artefacts is typically done by experienced operators, possibly with the assistance of dedicated software, but when the number of fragments is large (say, of the order of thousands) manual or computer-assisted restoration is simply hopeless. This prevents a large fraction of the world's cultural heritage from being openly accessible to scholars as well as the general public. By developing and integrating novel technologies in the fields of robotics, computer vision and artificial intelligence, we envisage a future where archaeology can deal effectively with reconstruction problems at an unprecedented scale and be able to bring back to life ancient artworks and masterpieces which would otherwise remain broken into pieces forever. Specifically, we aim to develop an intelligent robotic system which will autonomously process, match and physically assemble large fractured artefacts at a fraction of the time it takes humans to do. The level of ambition of our proposal poses several challenges that cannot be satisfactorily addressed with off-the-shelf technologies, and hence we shall develop brand-new solutions that will push the boundaries of research in the fields of robotics and computer vision. Our system will be tested over iconic case studies from the UNESCO World Heritage site of Pompeii, and one tangible outcome of the project will be to restore two world-renowned frescos which are now shattered into thousands of fragments and forgotten in storerooms.

Planned Start date	Planned End date
1 st June 2021	31 st December 2024

PARTNERSHIP:

1.	UNIVERSITA' CA' FOSCARI	Italy	Lead partner/coordinator
2.	BEN-GURION UNIVERSITY OF THE NEGEV	Israel	Partner
3.	FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA	Italy	Partner
4.	ASSOCIACAO DO INSTITUTO SUPERIOR TECNICO PARA A INVESTIGACAO E DESENVOLVIMENTO	Portugal	Partner
5.	RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITAT BONN	Germany	Partner
6.	MINISTERO PER I BENI E LE ATTIVITA' CULTURALI E PER IL TURISMO	Italy	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: EMERGE - Evaluation, control and Mitigation of the EnviRonmental impacts of shippinG Emissions

FUNDING PROGRAMME: Horizon 2020 - MG

CALL: H2020-MG-2018-2019-2020

SCIENTIFIC FIELDS: Maritime

HOST DEPARTMENT: DAIS -Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Antonio Marcomini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 7.493.885,00	€ 402.267,50

ABSTRACT:

The objectives of EMERGE are (i) to quantify and evaluate the effects of potential emission reduction solutions for shipping in Europe for several scenarios, and (ii) to develop effective strategies and measures to reduce the environmental impacts of shipping. EMERGE objectives will be achieved through real-world test cases involving measurements and modelling on actual vessels, along main shipping routes and in sensitive European marine regions. Given our unique capabilities, the EMERGE consortium is the only group that can model real world emissions of shipping to air and water for the whole of Europe. The project will collect and synthesize experimental evidence on waste streams to water and emissions to air originating from ships, for different emission control technologies. The measurements will focus on abatement techniques and will include emissions to, and concentrations in water, air and marine biota. The project will especially investigate how effectively available scrubbers reduce the effects of key pollutants. EMERGE includes five geographical case studies, in different ecologically vulnerable regions, and a mobile onboard case study. The case study regions are (i) Eastern Mediterranean (ii) Northern Adriatic Sea, (iii) the region surrounding the Lagoon of Aveiro, (iv) the Solent Strait and (v) the Öresund Strait. The mobile onboard case study will be deployed in various European sea regions. EMERGE will develop an integrated modelling framework to assess the combined impacts of shipping emissions on the aquatic and atmospheric environments, and the effects on marine ecosystems. The assessment will include the benefits and costs of control and mitigation options affecting water quality, air pollution exposure, health impact, climate forcing and bioaccumulation of pollutants. EMERGE will provide recommendations and guidance for stakeholders and decision-makers on cost-beneficial options for sustainable use of shipping on the medium and long term.

Planned Start date	Planned End date
01/02/2020	31/12/2024

PARTNERSHIP:

1. ILMATIEETEN LAITOS, the Coordinator	FI	Coordinator
2. IVL SVENSKA MILJOEINSTITUTET AB	SE	Partner
3. CHALMERS TEKNISKA HOEGSKOLA AB	SE	Partner
4. ARISTOTELIO PANEPISTIMIO THESSALONIKIS	EL	Partner
5. INTERNATIONALES INSTITUT FUER ANGEWANDTE SYSTEMANALYSE	AT	Partner
6. THE UNIVERSITY OF HERTFORDSHIRE HIGHER EDUCATION CORPORATION	UK	Partner
7. PANEPISTIMIO AIGAIUO	EL	Partner
8. UNIVERSIDADE DE AVEIRO	PT	Partner
9. UNIVERSITY OF SOUTHAMPTON	UK	Partner
10. UNIVERSITA CA' FOSCARI VENEZIA	IT	Partner
11. METEOROLOGISK INSTITUTT	NO	Partner
12. GOETEBORGS UNIVERSITET	SE	Partner
13. OULUN YLIOPISTO	FI	Partner
14. FUNDACIO INSTITUT CATALA DE RECERCA DE L'AIGUA	ES	Partner
15. DANAOS SHIPPING COMPANY LIMITED	CY	Partner
16. MARITIME INSTITUTE OF EASTERN MEDITERRANEAN - MAR.IN.E.M.	CY	Partner
17. THE BALTIC MARINE ENVIRONMENT PROTECTION COMMISSION	FI	Partner
18. CREATIVE NANO PC	EL	Partner



Università
Ca' Foscari
Venezia

HORIZON 2020

European Research Infrastructures,
including e-Infrastructures



Università Ca'Foscari Venezia

PROJECT ACRONYM AND TITLE: SHARE-DEV3 Achieving world-class standards in all SHARE countries

FUNDING PROGRAMME: Horizon 2020 - Infrastructures

CALL: H2020-INFRADEV-1-2015-1 - Developing new world-class research infrastructures

SCIENTIFIC FIELD: Cross-national comparability, population ageing, retirement, socio-economic status

HOST DEPARTMENT/CENTRE: Department of Economics

SCIENTIFIC RESPONSIBLE: Prof. Agar Brugiavini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
5,493,328.75	521,113.75

ABSTRACT:

The central objective of this project is to improve European coverage, stability and cross-national comparability of SHARE, the Survey of Health, Ageing and Retirement in Europe, while a sustainable funding model will be negotiated with the member states, DG RTD, DG JRC and several policy-related DGs to fully implement SHAREERIC in all SHARE countries.

SHARE is a research infrastructure to better understand and cope with population ageing created after a joint communication by the European Council and the European Parliament to the European Commission. It has been a huge success measured by the number of users, the number of scientific publications and its public policy support. The data has world-class value as proven by the many users also outside of the EU, especially in the US. The key value of SHARE lies in its strict cross-national comparability which permits unbiased cross-national comparisons of the economic, health and social situation of European citizens aged 50 and over.

To obtain this key value, SHARE aims to include all European countries, especially all EU member states. SHARE has made great progress during the first waves and has collected data in 21 countries. Moreover, substantial international coordination has to be done among these countries. To this end, SHARE has implemented an efficient and effective central management model.

In contrast to this scientific and managerial success, the decentralized and member state-related funding is succeeding rather slowly in certain parts of the EU, for a host of structural reasons detailed below. This threatens the stability of SHARE, has stalled the inclusion of all EU member states, and is threatening its world-class standards.

The project aims to enlarge SHARE-ERIC membership, enhance the technical architecture, introduce several scientific innovations, and support the central coordination which is crucial for the international cooperation and cross-national comparability.

Planned Start date	Planned End date
1 st July 2015	30 th June 2018

PARTNERSHIP:

1	European Research Infrastructure Consortium for the Survey of Health, ageing and Retirement in Europe (SHARE ERIC)	Munchen (DE)	Beneficiary
2	Università Ca' Foscari Venezia	Venice (IT)	Partner

WEBSITE: available from September 2015.



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: SERISS - Synergies for Europe's Research Infrastructures in the Social Sciences

FUNDING PROGRAMME: Horizon 2020 - Infrastructures

CALL: H2020-INFRADEV-1-2014-1 - Developing new world-class research infrastructures

SCIENTIFIC FIELD: Social Sciences - Health Ageing - Generations and Gender

HOST DEPARTMENT/CENTRE: Department of Economics

SCIENTIFIC RESPONSIBLE: Prof. Agar Brugiavini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
8,494,397.00	139,125.00

ABSTRACT:

Europe is facing huge socio-economic challenges: an economic crisis with a young generation in search of jobs, population ageing potentially straining inclusion and innovation of our societies, climate change with its pressures to redesign energy, transport and housing patterns, just to name some of the most urgent "Grand Challenges". SERISS brings together three research infrastructures in the social sciences: the European Social Survey (ESS), the Survey for Health Ageing and Retirement in Europe and the Consortium of European Social Science Data Archives (CESSDA). Also involved in SERISS are non-ESFRI research infrastructures: GGP - Generations and Gender Programme; EVS - European Values Survey and the WageIndicator Survey.

The overarching objective of this project is to support the Union, the Commission and the Member States to tackle these challenges with a solid base of socio-economic evidence. The scientific objective of this project is to exploit the synergies among these three infrastructures to their fullest extent and to leverage these synergies to influence the still rather fragmented landscape of smaller infrastructures. Specific objectives are

- to better represent the European population, including target groups of policy measures addressing the Grand Challenges, e.g., young unemployed, older persons in institutions and migrants,
- to strengthen cross-national harmonization across Europe by leveraging recent advances in questionnaire design, translation and coding techniques,
- to exploit the advances in software technology for cost-effective web-based interviewing, more efficient fieldwork management, and to support new ways of collecting data
- to better connect the world of research-driven social surveys with the world of process-generated administrative data, and,
- to ensure that the ethical and data protection concerns of the respondents are properly be taken into account by creating a consistent and EU-wide framework for all social surveys

Planned Start date	Planned End date
1 st July 2015	30 th June 2019

PARTNERSHIP:

1	European Social Survey European Research Infrastructure Consortium (ESS ERIC)	London (UK)	Coordinator
2	Università Ca' Foscari Venezia	Venice (IT)	Partner
3	CESSDA AS (CESSDA AS)	Bergen (NO)	Partner
4	Koninklijke Nederlandse Akademie Van Etenschappen - KNAW (KNAW)	Amsterdam (NL)	Partner
5	Stichting Katholieke Universiteit Brabant Universiteit Van Tilburg (TiU)	Tilburg (NL)	Partner
6	Universiteit Van Amsterdam (UvA)	Amsterdam (NL)	Partner
7	European Research Infrastructure Consortium for the Survey of Health, ageing and Retirement in Europe (SHARE ERIC)	Munchen (DE)	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: 'Cohesion in further developing and innovating SHARE across all 28 member countries — SHARE-COHESION'

FUNDING PROGRAMME: H2020 - European Research Infrastructures, including e-Infrastructures

CALL: H2020-INFRADEV-2018-2020/H2020-INFRADEV-2019-2

SCIENTIFIC FIELDS: Social Innovation

HOST DEPARTMENT: Dipartimento di Economia

SCIENTIFIC RESPONSIBLE: Agar Brugiavini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 4 963 432,50	€ 602 722.50

ABSTRACT:

SHARE, the Survey of Health, Ageing and Retirement in Europe, is a research infrastructure to better understand and cope with the challenges and chances of population ageing. The main objective of SHARE is to provide excellent data for aging research through a combination of (a) transdisciplinarity, (b) longitudinality and (c) European coverage with strict cross-national comparability through ex-ante harmonisation. With its recent seventh wave, SHARE succeeded in covering all EU member states in cooperation with the British Isles Surveys (UK and Ireland). The coverage of all EU member states (plus Switzerland and Israel) is particularly attractive for both scientific and Commission users because it permits cross-national comparisons of the economic, health and social situation of EU citizens aged 50 and over and

allows for comparative evaluations of aging-related policies such as pension, health and long-term care reforms. The project will support the supra-national innovation and development tasks during Waves 8-10 of SHARE, thereby improving the scientific state-of-the-art of SHARE and cross-national cohesion across all 28 SHARE member countries. It addresses all seven targets of this call and the related sustainability criteria. Scientific innovation encompasses new questionnaire content including device-based measures; development encompasses more efficient survey methods including new electronic tools. The project will also fund training as it is instrumental especially for the scientifically less developed Member States and its participating SMEs. The costs of collecting the SHARE data in the Member States as well as routine common costs will not be borne by this project but by SHARE-ERIC through contributions by the Member States and a policy DG.

Planned Start date	Planned End date
01/10/2019	30/09/2023

PARTNERSHIP:

1.	EUROPEAN RESEARCH INFRASTRUCTURE CONSORTIUM FOR THE SURVEY OF HEALTH, AGEING AND RETIREMENT IN EUROPE (SHARE ERIC), the Coordinator	DE	Coordinator
2.	MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV	DE	LTP
3.	THE HEBREW UNIVERSITY OF JERUSALEM	IL	LTP
4.	UNIVERSITA CA' FOSCARI VENEZIA	IT	LTP
5.	STICHTING CENTERDATA	NL	LTP
6.	UNIVERSITA DEGLI STUDI DI PADOVA	IT	LTP
7.	SYDDANSK UNIVERSITET	DK	LTP
8.	UNIVERSITE PARIS DAUPHINE	FR	LTP
9.	BERGISCHE UNIVERSITAET WUPPERTAL	DE	LTP
10.	FUNDACION CENTRO DE ESTUDIOS MONETARIOS Y FINANCIEROS	ES	LTP



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: SHARE-ERIC - Survey of Health, Ageing and Retirement in Europe

FUNDING PROGRAMME: ERIC - European Research Infrastructure Consortium

CALL: ERIC - European Research Infrastructure Consortium

SCIENTIFIC FIELDS: Economic and Statistical Studies

HOST DEPARTMENT: Department of Economics

SCIENTIFIC RESPONSIBLE: Agar Brugiavini

DURATION: Since 2011

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 75.000,00	€ 75.000,00

ABSTRACT:

The Survey of Health, Ageing, and Retirement in Europe (SHARE) is a study which explores individuals' experiences as they grow older in countries across Europe from Sweden in the North to Greece in the South. The objective of SHARE is to build a research infrastructure of longitudinal economic, health and social data as a fundamental and innovative resource for science and public policy. SHARE is legally represented by the SHARE-ERIC. Its current members are Austria, Belgium, Czech Republic, Germany, Greece, Italy, Israel, the Netherlands, Poland, Slovenia and Sweden.

Croatia, Denmark, Estonia, France, Hungary, Luxembourg, Spain and Switzerland have not yet succeeded to accede to SHARE-ERIC as members although they have participated in previous waves of SHARE and intend to participate further on.

Article 3 (2) b) of the SHARE-ERIC statutes states that SHARE will be expanded "to include all EU member countries". The endeavour to achieve this aim shall be stressed here once again.

The following Consortium Agreement aims at

1. establishing a legal basis for the cooperation of all participating Country-Representing Scientific Partner Institutions (C-SPIs) which are responsible for carrying out the scientific tasks of SHARE in their own countries;
2. creating a contractual relationship with all Other Scientific Partner Institutions (O-SPIs) that are continuously involved in the SHARE project.

Foundation for this Consortium Agreement is a subset of articles of the SHARE-ERIC statutes which define the fundamental aims of SHARE and the fundamental rules of cooperation within SHARE.

PARTNERSHIP:

1 University of Zagreb	Croatia	Partner
2 Università Ca' Foscari Venezia	Italy	Partner
3 University of Southern Denmark,	Denmark	Partner
4 Tallinn University	Estonia	Partner
5 Fondation Dauphine	France	Partner
6 Central European University	Hungary	Partner
7 CEPS/INSTEAD	Luxembourg	Partner
8 Universidade Nova de Lisboa	Portugal	Partner
9 University of Lausanne	Switzerland	Partner
10 Centro de Estudios Monetarios y Financieros (CEMFI)	Spain	Partner
11 The Institut d'Assistència Sanitària	Spain	Partner
12 CENTERDATA	Netherlands	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: SSHOC - Social Sciences & Humanities Open Cloud

FUNDING PROGRAMME: H2020

CALL: H2020-INFRAEOSC-2018-2020

SCIENTIFIC FIELDS: European Research Infrastructures, including e-Infrastructures

HOST DEPARTMENT: DEC – Department of Economy

SCIENTIFIC RESPONSIBLE: Agar Brugiavini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 14.455.596,25	€ 170.280,00

ABSTRACT:

The project aims to provide a full-fledged Social Sciences and Humanities Open Cloud (SSHOC) where data, tools, and training are available and accessible for users of SSH data. The focus of the project is determined by the goal to further the innovation of infrastructural support for digital scholarship, to stimulate multidisciplinary collaboration across the various subfields of SSH and beyond, and to increase the potential for societal impact. The intention is to create a European open cloud ecosystem for social sciences and humanities, consisting of an infrastructural and human component. Development, realisation and maintenance of user-friendly tools & services, covering all aspects of the full research data cycle will be built, taking into account human-centric approach and creating links between people, data, services and training. SSHOC will encourage secure environments for sharing and using sensitive and confidential data. Where relevant, the results of EOSChub H2020 project will be adopted. The SSHOC will contribute to the Open Science agenda and realising the EOSC. This project aligns with prescribed cluster activities in order to realise a SSH cloud that can fully encompass infrastructural support for the study of social and cultural phenomena. Moreover, the planned SSH Cloud is instrumental to Europe's multilingualism; data in Europe is often available in multiple languages thus making a strong incentive for comparative research of the societal and cultural phenomena that are reflected in language use. The SSH Cloud shall contribute to innovations stemming from the coupling of these heterogeneous data types - and work on the Interoperability principle of FAIR.

Planned Start date	Planned End date
1 st February 2019	31 st May 2022

PARTNERSHIP:

1.	CESSDA AS	Norvegia	Coordinatore
2.	Ca' Foscari University	Italy	Partner
3.	European social survey european research infrastructure consortium	Regno Unito	Partner
4.	European research infrastructure consortium for the survey of health, ageing and retirement in europe	Germania	Partner
5.	Clarin eric	Paesi Bassi	Partner
6.	Digital research infrastructure for the Arts and humanities	Francia	Partner
7.	Stichting liber	Paesi Bassi	Partner
8.	Koninklijke nederlandse akademie van Wetenschappen	Paesi Bassi	Partner
9.	Universiteit van amsterdam	Paesi Bassi	Partner
10.	Stichting katholieke universiteit brabant	Paesi Bassi	Partner
11.	Trust-it services limited	Regno Unito	Partner
12.	Semantic web company gmbh	Austria	Partner
13.	Fondation nationale des sciences politiques	Francia	Partner
14.	The university of nottingham	Regno Unito	Partner
15.	Deutsches archaologisches institut	Germania	Partner
16.	Centre national de la recherche scientifique cnrs	Francia	Partner
17.	Consiglio nazionale delle ricerche	Italia	Partner
18.	University college london	Regno Unito	Partner
19.	Foundation for research and technology hellas	Grecia	Partner
20.	Stichting centerdata	Paesi Bassi	Partner



Università
Ca' Foscari
Venezia

HORIZON 2020

Industrial Leadership

Information and Communication
Technologies (ICT)



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: Families_Share, Socializing and sharing time for work/ life balance through digital and social innovation

FUNDING PROGRAMME: HORIZON 2020

CALL: H2020-ICT-2016-2017

SCIENTIFIC FIELD: Social innovation, Collective Awareness Platforms, Open Source Software

HOST DEPARTMENT/CENTRE: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Agostino Cortesi

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
1,621,977.50	215,952.50

ABSTRACT:

The overall objective of the project is to develop a social networking and awareness platform dedicated to childcare and work life balance. The platform builds on neighbourhood networks enabling citizens to come together and share tasks, time and skills relevant to childcare and after school education/leisure which have become unaffordable in times of stagnation and austerity. To achieve this objective the project borrows and integrates the concepts of time banking with some already developed digital social innovation experiments in the child care field represented in the consortium and seeks to further exploit the potential of ICT networks to increase participatory innovation in the sense of self-organizing neighbourhoods. The specific objectives of the project are:

- Exploring new ways for sharing and socializing child care needs and care work in urban communities facilitated by ICT
- Supporting families, couples and individuals with care tasks to find flexible solutions in their daily lives to cope with care work and time management needs in more balanced ways
- Raising awareness on the importance of overcoming gender biased views of care roles, as well as stereotypes related to intersected social differences (class and economic status, ethnic background, sexual orientation, etc.)

Proposed actions:

- Needs analysis and residents engagements in 7 Cities in Europe activating 7 Families_Share City Labs where needs analysis, platform co-design, pilot testing and local raising awareness campaigns will integrate.
- Co-designing an operational framework and a scalable collective awareness platform engaging existing communities of parents
- Pilot the platform in 7 cities
- Evaluate the impact of the adopted techno-social solution and the user engagement strategy
- Develop a scalable and replicable model for an affordable childcare scheme based on the Families Share Platform that will ensure sustainability and further exploitation in other EU cities.

Planned Start date	Planned End date
January 1th, 2018	October 31th, 2020

PARTNERSHIP:

1 Università Ca' Foscari Venezia (UNIVE)	Venice (IT)	Coordinator
2 SMART VENICE SRL	Venice (IT)	Partner
3 VILABS (CY) LTD (ViLabs)	Cyprus (GR)	Partner
4 URBANISTA OHG	Hamburg (DE)	Partner
5 REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE- REC	Szentendre (H)	Partner
6 FONDAZIONE BRUNO KESSLER (FBK)	Trento (IT)	Partner
7 INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM (imec)	Leuven (B)	Partner
8 CENTRE FOR SUPPORT AND ADVANCEMENT OF EMPLOYMENT FOR WOMEN IN THESSALONIKI-ERGANI (Ergani)	Thessaloniki (GR)	Partner
9 DE STUYVERIJ (De Stuyverij)	Kortrijk (B)	Partner



Università
Ca' Foscari
Venezia

PROJECT ACRONYM AND TITLE: AI4EU - A European AI On Demand Platform and Ecosystem

FUNDING PROGRAMME: H2020 ICT - Information and Communication Technologies

CALL: H2020-ICT-2018-2020

SCIENTIFIC FIELDS: Artificial Intelligence

HOST CENTRE: ECLT - European Centre for Living Technology

SCIENTIFIC RESPONSIBLE: Marcello Pelillo

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 20.618.400,00	€ 541.381,25

ABSTRACT:

Artificial Intelligence is a disruptive technology of our times with expected impacts rivalling those of electricity or printing. Resources for innovation are currently dominated by giant tech companies in North America and China. To ensure European independence and leadership, we must invest wisely by bundling, connecting and opening our AI resources. AI4EU will efficiently build a comprehensive European AI-on-demand platform to lower barriers to innovation, to boost technology transfer and catalyse the growth of start-ups and SMEs in all sectors through Open calls and other actions. The platform will act as a broker, developer and one-stop shop providing and showcasing services, expertise, algorithms, software frameworks, development tools, components, modules, data, computing resources, prototyping functions and access to funding. Training will enable different user communities (engineers, civic leaders, etc.) to obtain skills and certifications. The AI4EU Platform will establish a world reference, built upon and interoperable with existing AI and data components (e.g. the Acumos open-source framework, QWT search engine..) and platforms. It will mobilize the whole European AI ecosystem and already unites 80 partners in 21 countries including researchers, innovators and related talents. Eight industry-driven AI pilots will demonstrate the value of the platform as an innovation tool. In order to enhance the platform, research on five key interconnected AI scientific areas will be carried out using platform technologies and results will be implemented. The pilots and research will showcase how AI4EU can stimulate scientific discovery and technological innovation. The AI4EU Ethical Observatory will be established to ensure the respect of human centred AI values and European regulations. Sustainability will be ensured via the creation of the AI4EU Foundation. The results will feed a new and comprehensive Strategic Research Innovation Agenda for Europe.

Planned Start date	Planned End date
1 st January 2019	31 st December 2021

PARTNERSHIP:

1. Thales Six Gts France Sas	Francia	Coordinatore
2. Università Ca' Foscari	Italia	Partner
3. Abb As	Norvegia	Partner
4. Agi Research Sro	Repubblica Ceca	Partner
5. Allianz Se	Germania	Partner
6. Atos Spain Sa	Spagna	Partner
7. Aristotelio Panepistimio Thessalonikis - Eidikos Logariasmos Kondilion Erevnas	Grecia	Partner
8. Blumorpho Sas	Francia	Partner
9. Budapesti Muszaki Es Gazdasagtudomanyi Egyetem	Ungheria	Partner
10. Bureau De Recherches Geologiques Et Minières	Francia	Partner
11. Barcelona Supercomputing Center - Centro Nacional De Supercomputacion	Spagna	Partner
12. Fundacion Cartif	Spagna	Partner
13. Commissariat A L Energie Atomique Et Aux Energies Alternatives	Francia	Partner
14. Cineca Consorzio Interuniversitario	Italia	Partner
15. Consiglio Nazionale Delle Ricerche	Italia	Partner
16. Centre National De La Recherche Scientifique	Francia	Partner
17. Agencia Estatal Consejo Superior De Investigaciones	Spagna	Partner
18. National Center For Scientific Research "Demokritos"	Grecia	Partner
19. Deutsches Forschungszentrum Fur Kunstliche Intelligenz Gmbh	Germania	Partner
20. Deutsches Zentrum Fuer Luft - Und Raumfahrt Ev	Germania	Partner
21. Eit Digital	Belgio	Partner
22. Eotvos Lorand Tudomanyegyetem	Ungheria	Partner
23. European Organisation For Security Scrl	Belgio	Partner
24. Fundingbox Research Aps	Danimarca	Partner
25. Fondazione Bruno Kessler	Italia	Partner
26. Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.V.	Germania	Partner
27. France Digitale	Francia	Partner
28. Foundation For Research And Technology Hellas	Grecia	Partner
29. Forum Virium Helsinki Oy	Finlandia	Partner
30. Grassroots Arts And Research Ug	Germania	Partner
31. Hub France Ia	Francia	Partner
32. Fondation De L'institut De Recherche Idiap	Svizzera	Partner
33. Industrial Data Space Ev	Germania	Partner
34. Institut Mines-Telecom	Francia	Partner
35. Institut National De Recherche Eninformatique Et Automatique	Francia	Partner
36. Associacao Do Instituto Superior	Portogallo	Partner

Tecnico Para A Investigacao E Desenvolvimento		
37. Ethniko Kentro Erevnas Kai Technologikis Anaptyxis	Grecia	Partner
38. Institut Jozef Stefan	Slovenia	Partner
39. Karlsruher Institut Fuer Technologie	Germania	Partner
40. Know-Center Gmbh Research Center For Data-Driven Business & Big Data Analytics	Austria	Partner
41. University Of Leeds	Regno Unito	Partner
42. Loupe 16 Ltd	Regno Unito	Partner
43. Universita Degli Studi Di Roma La Sapienza	Italia	Partner
44. Norges Teknisk-Naturvitenskapelige Universitet Ntnu	Norvegia	Partner
45. National University Of Ireland Galway	Irlanda	Partner
46. Office National D'etudes Et De Recherches Aerospatiales	Francia	Partner
47. Orange Sa	Francia	Partner
48. Orebro University	Svezia	Partner
49. Pg Wconsulting Sarl	Svizzera	Partner
50. Wavestone Advisors	Francia	Partner
51. Universite Paris I Pantheon-Sorbonne	Francia	Partner
52. Qwant	Francia	Partner
53. Siemens Aktiengesellschaft	Germania	Partner
54. Sap Se	Germania	Partner
55. Smile	Francia	Partner
56. Smartrural Sll	Spagna	Partner
57. Simula Research Laboratory As	Norvegia	Partner
58. Thales Alenia Space France	Francia	Partner
59. Thomson Licensing	Francia	Partner
60. Telenor Asa	Norvegia	Partner
61. Tilde Sia	Lettonia	Partner
62. Thales Sa	Francia	Partner
63. Technische Universitat Berlin	Germania	Partner
64. Umea Universitet	Svezia	Partner
65. Technicka Univerzita V Kosiciach	Slovacchia	Partner
66. Technische Universitaet Muenchen	Germania	Partner
67. Technische Universitaet Wien	Austria	Partner
68. Alma Mater Studiorum - Universita Di Bologna	Italia	Partner
69. University College Cork - National University Of Ireland	Irlanda	Partner
70. Universidade De Coimbra	Portogallo	Partner
71. Universite Grenoble Alpes	Francia	Partner
72. Unilever U.K. Central Resources Limited	Regno Unito	Partner
73. Ethniko Kai Kapodistriako Panepistimio Athinon	Grecia	Partner
74. Universidad Politecnica De Madrid	Spagna	Partner
75. Universita' Degli Studi Di Siena	Italia	Partner
76. Sorbonne Universite	Francia	Partner
77. Vrije Universiteit Brussel	Belgio	Partner
78. Women In Ai	Francia	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: ELISE - European Learning and Intelligent Systems Excellence

FUNDING PROGRAMME: H2020 ICT - Information and Communication Technologies

CALL: H2020 ICT-48-2020: Towards a vibrant European network of AI excellence centres

HOST DEPARTMENT: ECLT - European Center for Living Technology

SCIENTIFIC RESPONSIBLE: Marcello PELILLO

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 11.966.855,00	€ 32.250,00

ABSTRACT:

ELISE aims to make Europe competitive in AI through a network of excellence. The best European researchers in machine learning and AI have worked together to attract talent, to foster research through collaboration, and to inspire and be inspired by industry and society. While ELISE starts from machine learning as the current most prominent method of AI, the network invites in all ways of reasoning, considering all types of data, applicable for almost all sectors of science and industry. While being aware of data safety and security, and while striving to explainable and trustworthy outcomes we aim to create a force to Europe.

ELISE will run a PhD student and a postdoc programme to attract and to educate world-class talents to Europe. It will operate a Fellows programme for groundbreaking research and high-profile workshops to develop AI methods applications further. Industry involvement is guaranteed by the many connections members of ELISE have with industry, on average one for every member and one start-up for every second member of ELISE. ELISE will demonstrate a fraction of their research in use cases to be implemented in AI4EU and the SME's of Europe. Additional impact will be created to SME's through open calls. The current practice of ELISE members of spin-off research in SME's once a break-through is achieved will be stimulated through incubators. The current practice of participating in dissemination and debate that many members of ELISE are used to will be continued to develop a mature acceptance of AI throughout Europe for the benefit of all and in cooperation with all. ELISE is built on 105 organisations in total, in which the 202 core contributors have actively indicated they will help build and profit from the networks of PhD-students and scholars. ELISE includes 60 ERC grants of their active supporters. By their citation and other accepted scores of scientific quality, ELISE is the network that combines in Europe excellence in AI.

Planned Start date	Planned End date
1 st November 2020	31 st October 2023

PARTNERSHIP:

1. Aalto Korkeakoulusaatio Sr	Finland	Coordinator
2. Eberhard Karls Universitaet Tuebingen	Germany	Partner
3. Universiteit Van Amsterdam	Netherlands	Partner
4. Ceske Vysoke Uceni Technicke V Praze	Czech Republic	Partner
5. Danmarks Tekniske Universitet	Denmark	Partner
6. Universitat Linz	Austria	Partner
7. The Chancellor Masters And Scholars Of The University Of Cambridge	United Kingdom	Partner
8. Consorzio Interuniversitario Nazionale Per L'informatica	Italy	Partner
9. Universitat De Valencia	Spain	Partner
10. Max-Planck-Gesellschaft Zur Forderung Der Wissenschaften Ev	Germany	Partner
11. Stichting Katholieke Universiteit	Netherlands	Partner
12. Eidgenoessische Technische Hochschule Zuerich	Switzerland	Partner
13. The Chancellor, Masters And Scholars Of The University Of Oxford	United Kingdom	Partner
14. University College London	United Kingdom	Partner
15. Knowledge 4 All Foundation Lbg	United Kingdom	Partner
16. Saidot Oy	Finland	Partner
17. Oticon A/S	Denmark	Partner
18. Fundingbox Accelerator Sp Zoo	Poland	Partner
19. Siemens Aktiengesellschaft	Germany	Partner
20. Zalando Se	Germany	Partner
21. Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.V.	Germany	Partner
22. Spinverse Oy	Finland	Partner
23. Enliteai Gmbh	Austria	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: ORANG - Open and Resilient Radio Access Network for Next Generation Wireless Backhauls

FUNDING PROGRAMME: H2020 ICT - Information and Communication Technologies

CALL: NGIatlantic.eu - 5th Open Call

SCIENTIFIC FIELDS: Informatics

HOST DEPARTMENT: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Maccari Leonardo

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 46.134,00	€ 46.134,00

ABSTRACT:

5G was designed to provide an impressive performance step-up compared to its predecessors, but its success depends on a strong increase on the number of Base Stations, named Next Generation NodeB (gNB), which may pass from 8-10 per km², to tens and maybe hundreds of gNBs per km². All the gNBs need to be connected to the core network, which dramatically increases the costs of the infrastructure, making the necessary coverage affordable only in densely inhabited areas, and thus, increasing the divide between well served and underserved areas. To solve this challenge 5G introduced the concept of Integrated Access and Backhaul (IAB) in which "IAB-nodes" collect the traffic from user terminals and have no wired connection, and "IAB-donors" are fiber-connected to the network core. A wireless backhaul network between gNBs needs to be created to route the user traffic from IAB-nodes to the closest IAB-donor. Replacing the cable connections with a wireless multi-hop network is a key opportunity to make 5G services profitable even in situations where a capillary cabled infrastructure would be unaffordable, and in general to extend the reach of mobile networks. A new challenge for research is to provide performance, reliability, and dependability to those we call Next Generation Wireless Backhaul (NGWB), leveraging on the research background on wireless mesh networks. This project aims to evaluate the technical feasibility of large-scale NGWB using real world data and taking advantage of the "Colosseum" testbed available at Northeastern University. This testbed, based on 256 software-defined radios, allows the deployment and testing of solutions at scale under different channel conditions, which are emulated through FPGA-based filters.

Our goal is to design networks based on realistic scenarios and assess to what extent NGWB can be used to make 5G more accessible by the end users.

Planned Start date	Planned End date
01/07/2022	30/11/2022

PARTNERSHIP:

1.	Ca' Foscari University	IT	Coordinator
2.	Northeastern University Team	USA	Partner



Università
Ca' Foscari
Venezia

HORIZON 2020

Industrial Leadership

Nanotechnologies, Advanced
Materials, Advanced Manufacturing
and Processing, and Biotechnology
(NMPB)



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: BIORIMA- BIOMaterial Risk MAnagement

FUNDING PROGRAMME: HORIZON 2020

CALL: H2020-NMBP-2016-2017

SCIENTIFIC FIELD: Biomaterials

HOST DEPARTMENT/CENTRE: INSTITUTE OF OCCUPATIONAL MEDICINE (IOM), UK

SCIENTIFIC RESPONSIBLE: Antonio Marcomini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 7.999.981,25	€ 195387,50

ABSTRACT:

BIORIMA stands for Biomaterial Risk Management. BIORIMA aims to develop an integrated risk management (IRM) framework for nano-biomaterials (NBM) used in Advanced Therapeutic Medicinal Products (ATMP) and Medical Devices (MD). The BIORIMA RM framework is a structure upon which the validated tools and methods for materials, exposure, hazard and risk identification/assessment and management are allocated plus a rationale for selecting and using them to manage and reduce the risk for specific NBM used in ATMP and MD. Specifically, the IRM framework will consist of: (i) Risk Management strategies and systems, based on validated methodologies, tools, and guidance, for monitoring and reducing the risks together with methods for evaluating them; (ii) Validated methodologies and tools to identify the potential Exposure and Hazard posed by NBM to humans and the environment; (iii) A strategy for Intelligent Testing (ITS) and Tiered Risk Assessment for NBM used in ATMP and MD. BIORIMA workplan consists of 7 workpackages covering the major themes: Materials, Exposure, Hazard and Risk. BIORIMA will generate methods and tools for these themes for use in risk evaluation and reduction. The BIORIMA toolbox will consist of validated methods/tools for materials synthesis; reference materials bank; methods for human/environment exposure assessment and monitoring; (eco)-toxicology testing protocols; methods for prevention of accidental risks – massive release or explosion – A tiered risk assessment method for humans/environment; An intelligent testing strategy for NBM and risk reduction measures, including the safer-by-design approach. BIORIMA will deliver a web-based Decision Support System to help users, especially SME, evaluate the risk/benefit profile of their NBM products and help to shorten the time to market for NBM products.

Planned Start date	Planned End date
November 1th, 2017	October 31th, 2021

PARTNERSHIP:

1. INSTITUTE OF OCCUPATIONAL MEDICINE (IOM)	UK	COORDINATOR
2. UNIVERSITA CA' FOSCARI VENEZIA (UNIVE)	IT	PARTNER
3. AARHUS UNIVERSITET (AU)	DK	PARTNER
4. EUROPEAN RESEARCH SERVICES GMBH (ERS),	DE	PARTNER
5. REUTHER RUDOLF (ENAS)	DE	PARTNER
6. CONSIGLIO NAZIONALE DELLE RICERCHE (ISTEC CNR)	IT	PARTNER
7. AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES	PARTNER
8. THE UNIVERSITY OF MANCHESTER (UNIMAN)	UK	PARTNER
9. WESTFAELISCHE WILHELMS-UNIVERSITAET MUENSTER (WWU)	DE	PARTNER
10. KAROLINSKA INSTITUTET (KI)	S	PARTNER
11. UNIVERSITA DEGLI STUDI DI TORINO (UNITO)	IT	PARTNER
12. EIDGENOSSISCHE MATERIALPRUFUNGS- UND FORSCHUNGSANSTALT (EMPA),	CH	PARTNER
13. UNIVERSITA DEGLI STUDI DI ROMA TOR VERGATA (URTV)	IT	PARTNER
14. HERIOT-WATT UNIVERSITY (HWU)	UK	PARTNER
15. UNIVERSITE PARIS DIDEROT - PARIS 7 (UPDiderot)	FR	PARTNER
16. THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN (TCD)	IRL	PARTNER
17. EDINBURGH NAPIER UNIVERSITY (NAPIER)	UK	PARTNER
18. WAGENINGEN UNIVERSITY (WU)	NL	PARTNER
19. INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA O.A. MP (INIA)	ES	PARTNER
19. UNIVERSIDADE DE AVEIRO (UAVR)	P	PARTNER
20. FRAUNHOFER GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. (Fraunhofer)	DE	PARTNER
21. NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA (NTUA)	GR	PARTNER
22. INSTITUT NATIONAL DE L'ENVIRONNEMENT ET DES RISQUES INERIS (INERIS)	FR	PARTNER
24. UNIVERSITY OF LEEDS (LEEDS)	UK	PARTNER
25. WARRANT GROUP SRL (WG)	IT	PARTNER
26. BIONANONET FORSCHUNGSGESELLSCHAFT MBH (BNN)	A	PARTNER
27. INSTITUTO TECNOLÓGICO DEL EMBALAJE, TRANSPORTE Y LOGÍSTICA (ITENE)	ES	PARTNER
28. INNOVATION IN RESEARCH & ENGINEERING SOLUTIONS (IRES)	B	PARTNER
29. ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOMATERIALES- CIC biomagune (CIC)	ES	PARTNER
30. NANOVECTOR SRL (NAV)	IT	PARTNER
31. COLOROBIA CONSULTING SRL (COL)	IT	PARTNER
32. FIN-CERAMICA FAENZA SPA (FCF)	IT	PARTNER
33. INSTITUT FÜR ENERGIE UND UMWELTECHNIK EV - IUTA (IUTA)	DE	PARTNER
34. ROYAL COLLEGE OF SURGEONS IN IRELAND (RCSI)	IRL	PARTNER
35. THE ELECTROSPINNING COMPANY LTD (TECL)	UK	PARTNER
36. COMMISSARIAT À L'ÉNERGIE ATOMIQUE ET AUX ÉNERGIES ALTERNATIVES (CEA)	FR	PARTNER
37. JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT MBH (JRF)	A	PARTNER
38. GREENDECISION SRL (GD)	IT	PARTNER
39. TOKYO UNIVERSITY OF SCIENCE FOUNDATION (TUS)	J	PARTNER
40. Hong Kong University of Science and Technology (HKUST)	HK	PARTNER
41. Zhejiang University (ZJU)	PRC	PARTNER



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: CaLIBRAte - Performance testing, calibration and implementation of a next generation system-of-systems Risk Governance Framework for nanomaterials

FUNDING PROGRAMME: Horizon 2020 – Industrial Leadership – Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing and Biotechnology

CALL: H2020-NMP-2015

SCIENTIFIC FIELD: Nanomaterials, Nanotechnologies, Risk Assessment

HOST DEPARTMENT/CENTRE: Departement of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Antonio Marcomini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 9.828.106,25	€ 158.525,00

ABSTRACT:

The objective of the caLIBRAte project is to establish a state-of-the-art versatile Risk Governance Framework for the assessment and management of human and environmental risks of MN and MN-enabled products. The framework will be a web-based “system-of-systems” linking different models and methods for:

- 1) screening of apparent and perceived risks and trends in nanotechnology;
- 2) control banding, qualitative and fully integrated predictive quantitative risk assessment operational at different information levels;
- 3) safety-by-design and multi-criteria decision support methods;
- 4) risk surveillance, - management and -guidance documents.

The risk management framework will support assessments of emerging and existing MN and MN-enabled products following the recent ISO31000 risk governance framework, as well as safety in innovation by matching models to the principle innovation steps in the “Cooper Stage-Gate®” product innovation model. Control banding tools and quantitative models will be subject to sensitivity analysis and performance testing followed by a revision as needed. After revision the models will again be analyzed by sensitivity testing, calibration, performance tested to establish the uncertainties. After calibration, the models will be part of the framework, which will be demonstrated by case studies. Stakeholders will be involved for defining the user requirements of the framework and will receive training in the framework at the end. The caLIBRAte project proposal answers to the call of NMP30-2015: Next generation tools for risk governance of MNs. The project is specifically designed to address the key challenges defined in the scope of the call text.

There is particular focus on model revision, calibration and demonstration of existing models and methods that support the risk governance framework in regards to safe innovation and already implemented nanomaterials. Next generation computational exposure assessment and -toxicology is anticipated in the framework.

Planned Start date	Planned End date
May 1 st , 2016	October 31 st , 2019

PARTNERSHIP:

1	DET NATIONALE FORSKNINGSCENTER FORARBEJDSMILJO	Denmark	Lead Partner/Coordinator
2	UNIVERSITA' CA' FOSCARI VENEZIA	Italy	Partner
3	EIDGENOESSISCHE ANSTALT FUER WASSERVERSORGUNG ABWASSERREINIGUNG UND GEWAESSERSCHUTZ	Switzerland	Partner
4	EIDGENOSSISCHE MATERIALPRUFUNGS UNDFORSCHUNGSANSTALT	Switzerland	Partner
5	TYOETERVEYSLAITOS	Finland	Partner
6	FUNDACION GAIKER	Spain	Partner
7	KAROLINSKA INSTITUTET	Sweden	Partner
8	ACONDICIONAMIENTO TARRASENSE ASSOCIACION	Spain	Partner
9	MISVIK BIOLOGY OY	Finland	Partner
10	ASSOCIAZIONE ITALIANA PER LA RICERCA INDUSTRIALE - AIRI	Italy	Partner
11	NATURAL ENVIRONMENT RESEARCH COUNCIL	UK	Partner
12	NANOTECHNOLOGY INDUSTRIES ASSOCIATION AISBL	Belgium	Partner
13	DIALOGIK GEMEINNUETZIGE GESELLSCHAFT FUER KOMMUNIKATIONS- UND KOOPERATIONSFORSCHUNG mbH	Germany	Partner
14	RIJKSINSTITUUT VOOR VOLKSGEZONDHEIDEN MILIEU*NATIONAL INSTITUTEFOR PUBLIC HEALTH AND THE ENVIRONMENTEN	Netherlands	Partner
15	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	Netherlands	Partner
16	TTY-SAATIO	Finland	Partner
17	DANMARKS TEKNISKE UNIVERSITET	Denmark	Partner
18	Steinbeis Advanced Risk Technologies GmbH	Germany	Partner
19	HEALTH CANADA	Canada	Partner
20	RESEARCH TRIANGLE INSTITUTE	USA	Partner
21	DUKE UNIVERSITY	USA	Partner
22	GreenDecision s.r.l.	Italy	Partner
23	INSTITUT NATIONAL DE L ENVIRONNEMENT ET DES RISQUES INERIS	France	Partner
24	NATIONAL HEALTH LABORATORY SERVICES	South Africa	Partner



Ca' Foscari
University
of Venice

ACRONYM AND TITLE: NanoRESTART: NANOMaterials for the REStoration of works of ART

FUNDING PROGRAMME: Horizon 2020 – Leadership and Enabling Industrial Technologies

CALL: H2020-NMP-2014-two-stage. Nanotechnologies, Advanced Materials and Production (NMP) – Topic 'Materials-based solutions for protection or preservation of European cultural heritage'

SCIENTIFIC FIELD: Nanotechnologies

HOST DEPARTMENT/CENTRE: DAIS – Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Prof. Antonio Marcomini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 7.903.397	€ 324.438

ABSTRACT:

Currently there is a lack of methodologies for the conservation of modern and contemporary artworks, many of which will not be accessible in very short time due to extremely fast degradation processes. The challenge of NANORESTART (NANOMaterials for the REStoration of works of ART) will be to address this issue within a new framework with respect to the state of the art of conservation science. NANORESTART is devoted to the development of nanomaterials to ensure long term protection and security of modern/contemporary cultural heritage, taking into account environmental and human risks, feasibility and materials costs. The market for conservation of this heritage is estimated at some €5 billion per year, and could increase by a significant factor in the next years due to the wider use of nanomaterials. The new tools and materials developed will represent a breakthrough in cultural heritage and conservation science and will focus on: (i) tools for controlled cleaning, such as highly-retentive gels for the confinement of enzymes and nanostructured fluids based on green surfactants; (ii) the strengthening and protection of surfaces by using nanocontainers, nanoparticles and supramolecular systems/assemblies; (iii) nanostructured substrates and sensors for enhanced molecules detection; (iv) evaluation of the environmental impact and the development of security measures for long lasting conservation of cultural heritage. Within the project the industrial scalability of the developed materials will be demonstrated.

NANORESTART gathers centres of excellence in the field of synthesis and characterization of nanomaterials, world leading chemical Industries and SMEs operating in R&D, and International and European centres for conservation, education and museums. Such centres will assess the new materials on modern/contemporary artefacts in urgent need of conservation, and disseminate the knowledge and the new nanomaterials among conservators on a worldwide perspective.

Start date	End date
1st June 2015	30th November 2018

PARTNERSHIP:

1 Consorzio Interuniversitario per lo Sviluppo dei Sistemi a Grande Interfase (IT)	Italy	Coordinator
2 Università Ca' Foscari Venezia	Italy	Partner
3 Antonio Mirabile	France	Partner
4 Nationalmuseet	Denmark	Partner
5 Consiglio Nazionale delle Ricerche	Italy	Partner
6 University College Cork, National University of Ireland, Cork	Ireland	Partner
7 MBN Nanomaterialia SPA	Italy	Partner
8 Kemijski Institut	Slovenia	Partner
9 Chevalier Aurelia	France	Partner
10 Universidade Federal Do Rio Grande Do Sul	Brazil	Partner
11 Chalmers Tekniska Hoegskola AB	Sweden	Partner
12 Akzo Nobel Pulp And Performance Chemicals AB	Sweden	Partner
13 Commissariat A L'Energie Atomique et Aux Energies Alternatives	France	Partner
14 Fundación Carlos Slim A.C.	Mexico	Partner
15 Arkema France SA	France	Partner
16 Dirección General de Promoción Cultural y Acervo Patrimonial SHCP	Mexico	Partner
17 Universidade de Santiago de Compostela	Spain	Partner



Ca' Foscari
University
of Venice

TITOLO PROGETTO: NanoFASE: Nanomaterial Fate and Speciation in the Environment

FUNDING PROGRAMME: Horizon2020 – LEadership and Industrial Technologies (LEITs)

CALL: H2020-NMP-2014-two-stage – Call for Nanotechnologies, Advanced Materials and Production - Topic 'Assessment of environmental fate of nanomaterials'

SCIENTIFIC FIELD: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Antonio Marcomini

DATI FINANZIARI:

Project total costs	Overall funding assigned to UNIVE
€ 9.954.479,00	€ 121.069,00

ABSTRACT:

Concept: NanoFASE will deliver an integrated Exposure Assessment Framework, including methods, parameter values, model and guidance that will allow Industry to assess the full diversity of industrial nano-enabled products to a standard acceptable in regulatory registrations. Methods to assess how use phases, waste streams and environmental compartments (air, soil, water biota) act as “reactors” in modifying and transporting ENMs will be developed and used to derive parameter values. Our nanospecific models will be integrated with the existing multi-media fate model SimpleBox4Nano for use in EUSES and also develop into a flexible multi-media model for risk assessment at different scales and complexities. Information on release form, transformation and transport processes for product relevant ENMs will allow grouping into Functional Fate Groups according to their “most probable” fate pathways as a contribution to safe-by-design based on fate.

Methodology: Inventories of material release forms along the product value chain are established. We then study how released ENMs transform from initial reactive states to modified forms with lower energy states in which nanospecific properties may be lost. Transport studies assess material fluxes within/between compartments. The experimental work underpins models describing ENM transformation and transport. Open access is provided to the models suitable for incorporation into existing exposure assessment tools (e.g. SimpleBox4Nano) and for more detailed assessment. Framework completeness is validated by case studies.

Impact: Identified links between ENM material properties and fate outcome (e.g. safe-by-design). Improved representation of nanospecific processes in existing key fate and exposure assessment tools (e.g. SimpleBox4Nano in EUSES). Contribution to standardization. GIS framework to support predictive assessment, catchment and point source management of ENM releases.

Planned Start date	Planned End date
1/08/2018	28/02/2022

PARTNERSHIP:

1. Natural Environment Research Council	(Regno Unito)	Coordinator
2. University of Birmingham	(Regno Unito)	Partner
3. Acondicionamiento Tarrasense Associaciòn	(Spagna)	Partner
4. Eidgenoessische Anstalt Fuer Wasserversorgung Abwasserreinigung Und Gew	(Svizzera)	Partner
5. Institut Fur Energie Und Umwelttechnik Ev – IUTA	(Germania)	Partner
6. Goeteborgs Universitet	(Svezia)	Partner
7. Universitaet Wien	(Austria)	Partner
8. Wageningen University	(Paesi Bassi)	Partner
9. The Chancellor, Masters and Scholars of the University of Oxford	(Regno Unito)	Partner
10. European Virtual Institute for Integrated Risk Management EU VRI EWIV	(Germania)	Partner
11. Pintura Hempel SA	(Spagna)	Partner
12. Promethean Particles LTD	(Regno Unito)	Partner
13. Technicka Univerzita V Liberci	(Repubblica Ceca)	Partner
14. FCC Construcccion SA	(Spagna)	Partner
15. Przedsiębiorstwo Amepox SP ZOO	(Polonia)	Partner
16. Inotex Spol Sro	(Repubblica Ceca)	Partner
17. Applied Nanoparticles S.L.	(Spagna)	Partner
18. Eidgenoessische Materialpruefungs – Und Forschungsanstalt	(Svizzera)	Partner
19. Institut National de l’Environnement et des Risques Ineris	(Francia)	Partner
20. ETSS, Gottschalk & Co. Kollektivgesellschaft	(Svizzera)	Partner
21. Nederlandse Organisatie Voor Toegepast Natuurwetenschappelijk Onderzoek	(Paesi Bassi)	Partner
22. Rijksinstituut Voor Volksgezondheiden MILIEU – National Institute for Public Health and the Environment	(Paesi Bassi)	Partner
23. Université de Geneve	(Svizzera)	Partner
24. Malvern Instruments LTD	(Regno Unito)	Partner
25. University of Plymouth	(Regno Unito)	Partner
26. Univerza V Ljubljani	(Slovenia)	Partner
27. Stichting VU-VUMC	(Paesi Bassi)	Partner
28. Universidade de Aveiro	(Portogallo)	Partner
29. Stichting Dienst Landbouwkundig Onderzoek	(Paesi Bassi)	Partner
30. Università Ca’ Foscari Venezia	(Italia)	Partner
31. Pensoft Publishers Ltd	(Bulgaria)	Partner
32. Institut Symlog	(Francia)	Partner
33. GBP Consulting Ltd	(Regno Unito)	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: APACHE - Active & intelligent PAckaging materials and display cases as a tool for preventive conservation of Cultural Heritage

FUNDING PROGRAMME: H2020 NMPB

CALL: NMBP-33-2018 - Innovative and affordable solutions for the preventive conservation of cultural heritage

SCIENTIFIC FIELDS: Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology

HOST DEPARTMENT: DAIS – Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Antonio Marcomini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 7.913.811,25	€ 349.875,00

ABSTRACT:

Most Cultural Heritage objects housed by museums are often stored under unsuitable climate conditions. APACHE will develop a cutting edge technology to control and prevent the degradation of such patrimony. The novel approach is based on three pillars: 1) advanced sensing and absorbing materials to control the artifacts' environment; 2) modeling to define the threshold of artifacts' degradation and to discriminate between the need for preventive or remedial conservation; 3) remote control of the works of art stressors. The unique combination of these pillars will reduce to the lowest possible level the costs actually required by conventional technology for art conservation. New generation of active and intelligent display cases, crates, and storage boxes, will be implemented thanks to: i) The unique APACHE partnership, comprising the most important experts in the three aforementioned pillars; ii) The development of easy-to-use sensing devices able to communicate through Wireless Sensor Networks and Radio Frequency Identification Devices thanks to Industry 4.0-5.0 ICT technologies, granting the optimal environmental conditions around the art objects. Multiscale models integrated in an open simulation environment will be used to predict the degradation of artefacts and set the properties of sensors (detection limits) and polyfunctional absorbents. APACHE includes small, medium, and large museums exhibiting representative variety of display and storage conditions. For instance, the Venice Peggy Guggenheim Collection features one of the most important collections of modern/contemporary art, which experiences highly unfavorable environmental conditions, difficult to control with conventional tools. Centre Pompidou and National Museum of Hungary possess a vast amount of artefacts stored in deposits (e.g. in crates and boxes). Moreover, a decision-making tool composed by a modular set of decision trees will be offered to end-users to guide them through the best solutions.

Planned Start date	Planned End date
1 st January 2019	30 th June 2022

PARTNERSHIP:

1. Consorzio interuniversitario per lo sviluppo dei sistemi a grande interfase	Italy	Coordinatore
2. Ca' Foscari University	Italy	Partner
3. University college cork - national University of Ireland	Ireland	Partner
4. Consiglio Nazionale delle Ricerche	Italy	Partner
5. University college of London	United Kingdom	Partner
6. Foundation for research and technology Hellas	Greece	Partner
7. Chalmers tekniska hogskola ab	Sweden	Partner
8. National technical university of Athens	Greece	Partner
9. Universidade federal do rio grande do sul	Brazil	Partner
10. Zfb zentrum fur bucherhaltung gmbh	Germany	Partner
11. Ionfly vacuum and plasma technology srl	Italy	Partner
12. Univerza v ljubljani	Slovenia	Partner
13. Max-planck-gesellschaft zur forderung Der wissenschaften ev	Germany	Partner
14. Fraunhofer gesellschaft zur foerderung Der angewandten forschung e.v.	Germany	Partner
15. Bewarrant	Belgium	Partner
16. Mirabile antonio	France	Partner
17. Goppion s.p.a.	Italy	Partner
18. Akzo nobel pulp and performance Chemicals ab	Sweden	Partner
19. Ericsson ab	Sweden	Partner
20. International centre for the study of The preservation and restoration of cultural property	Italy	Partner
21. Ministero per i beni e le attivita culturali	Italy	Partner
22. Centre national d'art et de culture Georges-pompidou	France	Partner
23. Narodni muzej slovenije	Slovenia	Partner
24. Magyar nemzeti muzeum	Hungary	Partner
25. Fondazione scienza e tecnica	Italy	Partner
26. Solomon r guggenheim foundation	United States of America	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: CULTURAL-E- Climate and cultural based design and market valuable technology solutions for Plus Energy Houses

FUNDING PROGRAMME: Horizon 2020 - NMBP

CALL: H2020-NMBP-ST-IND-2018-2020

SCIENTIFIC FIELDS: Energy efficient buildings

HOST DEPARTMENT: DAIS – Dipartimento di Scienze Ambientali Informatica e Statistica

SCIENTIFIC RESPONSIBLE: Wilmer Pasut

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 9.641.336,25	€ 292.872,50

ABSTRACT:

CULTURAL-E aims to define modular and replicable solutions for Plus Energy Houses (PEHs), accounting for climate and cultural differences, while engaging all key players involved in the building life cycle; to create comfortable, efficient, and affordable indoor environments. CULTURAL-E will develop technologies and solution sets that are tailorable to specific contexts and energy demands, as well as performing a comprehensive optimization of the value/cost ratio of PEHs. Sets of design-for-assembly technologies will be produced and driven by a careful mapping of European climates, building archetypes, and cultural energy habits; going beyond the positive by maximizing the share of the demand covered by renewable sources (toward Ø emissions in the operational phase). The CULTURAL-E solution sets are the result of a usercentric design process and aim to achieve and affordably maintain the best indoor environmental conditions. The houses become regenerative for the indoor and outdoor environment in the life cycle, with minor extra costs compared to nZEB, thus guaranteeing a sound return of investment. E-mobility is dealt through a dedicated management strategy to avoid energy demand peaks coming from the simultaneous fast-charging of multiple vehicles. Despite an “agnostic approach” to technology selection, CULTURAL-E will enhance the TRL of specific key technologies, such as air movement for summer thermal comfort, natural and mix-mode ventilation, packed and modular HVAC units, industrialized active window systems for natural ventilation and solar control, cloud-based house management system, and user involvement in the continuous building control, optimized envelope (tailored thermal features). Finally, to increase the replicability of the solutions and the adoption of a “cultural-centric” design, key market players involved in the PEH development are supported by dedicated tools and guidelines that will assist the development of robust, inclusive business models.

Planned Start date	Planned End date
1 st October 2019	30 th September 2024

PARTNERSHIP:

1. ACCADEMIA EUROPEA (EURAC), the Coordinator	IT	Coordinator
2. ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY SPAIN SL (RMIT)	ES	Partner
3. UNIVERSITÀ CA' FOSCARI VENEZIA (UNIVE)	IT	Partner
4. UNIVERSITAET STUTTGART (USTUTT)	DE	Partner
5. BRUNEL UNIVERSITY LONDON (BRUNEL)	UK	Partner
6. CONSEIL DES ARCHITECTES D'EUROPE (ACE)	BE	Partner
7. NOBATEK/INEF 4 (NBK)	FR	Partner
8. SINTEF AS, represented by its institute SINTEF Community (SINTEF)	NO	Partner
9. STEINBEIS INNOVATION gGmbH (SIZ-EGS)	DE	Partner
10. ISTITUTO COOPERATIVO PER L'INNOVAZIONE SCRL (ICIE)	IT	Partner
11. VILOGIA SA (VILOGIA)	FR	Partner
12. OSLO KOMMUNE BOLIGBYGG OSLO KF (BBY)	NO	Partner
13. WILHELM NUSSER GmbH SYSTEMBAU (NUSSER)	DE	Partner
14. UNICOOP IMMOBILIARE S.r.l. (UNICOOP)	IT	Partner
15. ADVANTIC SISTEMAS Y SERVICIOS SL (ADSYS)	ES	Partner
16. VENTIVE Ltd (VENTIVE)	UK	Partner
17. EUROFINESTRA SAS DI ECOSISTEMA SRL (EUROFIN)	IT	Partner
18. VORTICE ELETTROSOCIALI SPA (VORTICE)	IT	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: RiskGONE - Risk Governance of Nanotechnology

FUNDING PROGRAMME: H2020 - NMPB

CALL: NMBP-13-2018 - Risk Governance of nanotechnology

SCIENTIFIC FIELDS: Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology

HOST DEPARTMENT: DAIS – Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Antonio Marcomini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 5.140.380,00	€ 180.435,00

ABSTRACT:

Engineered nanomaterials (ENMs) are covered by REACH/CLP regulations; the general opinion is that the risk assessment (RA) approach routinely used for conventional chemicals is also applicable to ENMs. However, as acknowledged by OECD and ECHA, the OECD and ISO Test Guidelines (TGs) and Standard Operating Procedures (SOPs) need to be verified and adapted to be applicable to ENMs. RiskGONE will support the standardization and validation process for ENM by evaluating, optimizing and pre-validating SOPs and TGs and integrating them into a framework for risk governance (RG) of ENMs. The framework will comprise modular tools and will rely heavily on current strategies for the RA of conventional chemicals, complemented by methods for estimating environmental, social and economic benefits. It will incorporate ethical aspects and societal risk perception and will manage acceptable and unacceptable risks through transfer or mitigation. The focus of RiskGONE will be to produce nano-specific draft guidance documents for application to ENM RA; or, alternatively, to suggest ameliorations to OECD, ECHA, and ISO/CEN SOPs or guidelines. Rather than producing assays and methods ex-novo, this will be achieved through Round Robin exercises and multimodal testing of OECD TGs and ECHA methods supporting the “Malta-project”, and on methods not yet considered by OECD. This process will be accelerated by guidance documents for data storage/curation/accessibility optimisation, applied to well-characterized reference ENMs typifying the main physicochemical and toxicological features of ENMs. A transparent, self-sustained RG council, representing EU stakeholders, member states, industry and civil society, will be established. The RG framework and methods developed by RiskGONE will be transferred to the RG council, which will act as a science-based governance body for ENMs safety and provide responsible 2-way communication with stakeholders and civil society, based on high quality information.

Planned Start date	Planned End date
1 st January 2019	31 st December 2022

PARTNERSHIP:

1.	Norsk institutt for luftforskning stiftelse	Norvegia	Coordinatore
2.	Luxembourg institute of science and Technology	Lussemburgo	Partner
3.	Institut za medicinska istrazivanja i medicinu rada	Croazia	Partner
4.	Agencia estatal consejo superior de Investigaciones cientificas	Spagna	Partner
5.	Universitetet i bergen	Norvegia	Partner
6.	The university of birmingham	Regno Unito	Partner
7.	Swansea university	Regno Unito	Partner
8.	Qsar lab spolka z ograniczona Odpowiedzialnoscia	Polonia	Partner
9.	Katholieke universiteit leuven	Belgio	Partner
10.	Fraunhofer gesellschaft zur Foerderung der angewandten forschung e.v.	Germania	Partner
11.	European environmental citizens Organisation for standardisation	Belgio	Partner
12.	Ideaconsult limited liability company	Bulgaria	Partner
13.	Fundacion cidetec	Spagna	Partner
14.	Universiteit maastricht	Paesi Bassi	Partner
15.	Novamechanics limited	Cipro	Partner
16.	Malsch neelina	Paesi Bassi	Partner
17.	Transgero limited	Irlanda	Partner
18.	Dechema gesellschaft fuer chemische technik und biotechnologie e.v	Germania	Partner
19.	Iran nanotechnology initiative council	Iran	Partner
20.	The regents of the university of california	Stati Uniti	Partner
21.	Factor social - consultoria em psico - Sociologia e ambiente lda	Portogallo	Partner
22.	Agence nationale de la securite sanitaire de l'alimentation de l'environnement et Du travail	Francia	Partner
23.	Ca' Foscari University	Italia	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: SUNSHINE - Safe by Design Strategies for High Performance Multi-component Nanomaterials

FUNDING PROGRAMME: H2020 NMPB - Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology

CALL: H2020-NMBP-TO-IND-2018-2020 (FOUNDATIONS FOR TOMORROW'S INDUSTRY)

SCIENTIFIC FIELDS: Risk reduction

HOST DEPARTMENT: DAIS – Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Antonio Marcomini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 6.521.348,75	€401.625,00

ABSTRACT:

SUNSHINE will develop an e-infrastructure for Safe by Design (SbD) of multi-component (advanced) nanomaterials (MCNM). This web-based application will i) facilitate information exchange between actors along MCNM supply chains to promote the development and use of SbD strategies for specific products; ii) provide access to relevant data, testing guidelines and modelling approaches to test the effectiveness of the SbD strategies, and iii) support Stage-Gate R&D decisions for developing new MCNM technologies and bringing them to the market based on an estimation of their safetyperformance-cost balance and regulatory readiness. The e-infrastructure will be applied to develop SbD strategies for case studies corresponding to supply chains of real industrial products. The effectiveness of these strategies will be tested in the lab by means of Integrated Approaches to Testing and Assessment comprising experimental and modelling methods to assess not only the hazard and exposure of the SbD-modified materials, but also their performance. The development and implementation of SbD strategies as well as the SUNSHINE grouping and read-across scheme and multi-scale models will generate substantial knowledge and data and will enable the use of existing data. SUNSHINE will facilitate adaptation of standards and regulatory guidance documents for MCNMs and explore how safety regulations can keep pace with the innovations in MCNMs. Our approach will reduce, refine and replace (where possible) the need for animal testing by promoting the use of modelling as well as in vitro and cell-free tests. It will not only decrease the cost of industrial R&D and regulatory compliance but will also increase fundamental scientific understanding of how components of MCNMs interact with each other, with other nanomaterials and/or chemicals, leading ultimately to mixture toxicity. The SbD-modified products that are found to be safer, functional and economically viable will be proposed for the market.

Planned Start date	Planned End date
12/12/2019	14/05/2020

PARTNERSHIP:

1. UNIVERSITÀ CA' FOSCARI VENEZIA	Italy	Coordinator
2. RIJKSINSTITUUT VOOR VOLKSGEZONDHEID EN MILIEU	Netherlands	Partner
3. JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION	Belgium	Partner
4. SWANSEA UNIVERSITY	United Kingdom	Partner
5. GREENDECISION SRL	Italy	Partner
6. HERIOT-WATT UNIVERSITY	United Kingdom	Partner
7. NATIONAL TECHNICAL UNIVERSITY OF ATHENS – NTUA	Greece	Partner
8. ROYAL COLLEGE OF SURGEONS IN IRELAND	Ireland	Partner
9. AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	Spain	Partner
10. CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	France	Partner
11. UNIVERSITA DEGLI STUDI DI GENOVA	Italy	Partner
12. Purposeful IKE	Greece	Partner
13. INSTITUTE OF OCCUPATIONAL MEDICINE	United Kingdom	Partner
14. EIDGENOSSISCHE MATERIALPRUFUNGS- UND FORSCHUNGSANSTALT	Switzerland	Partner
15. INSTITUTO TECNOLÓGICO DEL EMBALAJE, TRANSPORTE Y LOGÍSTICA	Spain	Partner
16. SOLVAY SA	Belgium	Partner
17. FUNDACION TECNALIA RESEARCH & INNOVATION	Spain	Partner
18. AVANZARE INNOVACION TECNOLÓGICA SL	Spain	Partner
19. Fundación CIAC Centro de Innovación Andaluz para la Construcción Sostenible	Spain	Partner
20. Encapsulae S.L.	Spain	Partner
21. LAURENTIA TECHNOLOGIES SLL	Spain	Partner
22. OCSiAl Europe S.a r.L	Luxembourg	Partner
23. CONSIGLIO NAZIONALE DELLE RICERCHE	Italy	Partner
24. TEMAS AG TECHNOLOGY AND MANAGEMENT SERVICES	Switzerland	Partner
25. EAST EUROPEAN RESEARCH AND INNOVATION ENTERPRISE LTD	Bulgaria	Partner
26. YORDAS GMBH	Germany	Partner
27. WARRANT HUB SPA	Italy	Partner
28. MINTEK	South Africa	Partner
29. EUROPEAN RESEARCH SERVICES GMBH	Germany	Partner
30. DUKE UNIVERSITY	United States	Partner
31. ARIZONA BOARD OF REGENTS	United States	Partner
32. PRESIDENT AND FELLOWS OF HARVARD COLLEGE	United States	Partner
33. KOREA RESEARCH INSTITUTE OF STANDARDS AND SCIENCE	South Korea	Partner
34. NATIONAL CENTER FOR NANOSCIENCE AND TECHNOLOGY, CHINA	China	Partner



Università
Ca' Foscari
Venezia

HORIZON 2020

Industrial Leadership

Cross-cutting activities: Industry
2020 in the Circular Economy



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: RES URBIS - REsources from URban Bio-waSte

FUNDING PROGRAMME: Horizon 2020 – Cross-cutting activities

CALL: H2020-IND-CE-2016-17 Industry 2020 in the Circular Economy; Topic CIRC-05-2016

TYPE OF ACTION: RIA

SCIENTIFIC FIELD : Bioproducts, bio-waste

HOST DEPARTMENT/CENTRE : Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Prof. Paolo PAVAN

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 3.046.656,25	€ 199.020,00

ABSTRACT:

RES URBIS aims at making it possible to convert several types of urban bio-waste into valuable bio-based products, in an integrated single biowaste biorefinery and by using one main technology chain. This goal will be pursued through:

- collection and analysis of data on urban bio-waste production and present management systems in four territorial clusters that have been selected in different countries and have different characteristics.
- well-targeted experimental activity to solve a number of open technical issues (both process- and product-related), by using the appropriate combination of innovative and catalogue-proven technologies.
- market analysis within several economic scenarios and business models for full exploitation of bio-based products (including a path forward to fill regulatory gaps).

Urban bio-waste include the organic fraction of municipal solid waste (from households, restaurants, caterers and retail premises), excess sludge from urban wastewater treatment, garden and parks waste, selected waste from food-processing (if better recycling options in the food chain are not available), other selected waste streams, i.e. baby nappies.

Bio-based products include polyhydroxyalkanoate (PHA) and related PHA-based bioplastics as well as ancillary productions: biosolvents (to be used in PHA extraction) and fibers (to be used for PHA biocomposites).

Territorial and economic analyses will be done either considering the ex-novo implementation of the biowaste biorefinery or its integration into existing wastewater treatment or anaerobic digestion plants, with reference to clusters and for different production size. The economic analysis will be based on a portfolio of PHA-based bioplastics, which will be produced at pilot scale and tested for applications:

- Biodegradable commodity film
- Packaging interlayer film
- Speciality durables (such as electronics)
- Premium slow C-release material for ground water remediation.

Planned Start date	Planned End date
1 st January 2017	31 st December 2019

PARTNERSHIP:

1	UNIVERSITÀ DEGLI STUDI DI ROMA LA SAPIENZA	Italy	Lead Partner/Coordinator
2	DANMARKS TEKNISKE UNIVERSITET	Denmark	Partner
3	NOVA ID FCT - ASSOCIACAO PARA A INOVACAO E DESENVOLVIMENTO DA FCT	Portugal	Partner
4	BIOTREND - INOVACAO E ENGENHARIA EM BIOTECNOLOGIA SA	Portugal	Partner
5	SO.F.TER. SPA	Italy	Partner
6	UNIVERSITÀ CA' FOSCARI VENEZIA	Italy	Partner
7	UNIVERSITÀ DEGLI STUDI DI VERONA	Italy	Partner
8	BIOINICIA SL	Spain	Partner
9	CONSIGLIO NAZIONALE DELLE RICERCHE	Italy	Partner
10	UNIVERSITAT DE BARCELONA	Spain	Partner
11	ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA	Italy	Partner
12	PROVINCIA AUTONOMA DI TRENTO	Italy	Partner
13	MI-PLAST DOO ZA PROIZVODNJU TRGOVINU I PRUZANJE USLUGA - MI-PLAST LLC MANUFACTURING, TRADING AND SERVICES MIPLAST	Croatia	Partner
14	Physis	Italy	Partner
15	EPAL-EMPRESA PORTUGUESA DAS ÁGUAS LIVRES, SA	Portugal	Partner
16	INNOEXC GMBH	Switzerland	Partner
17	UNIVERSITY OF SOUTH WALES PRIFYSGOLDE CYMRU	United Kingdom	Partner
18	ISTITUTO NAZIONALE ASSICURAZIONE INFORTUNI SUL LAVORO INAIL	Italy	Partner
19	AREA METROPOLITANA DE BARCELONA	Spain	Partner
20	BBIA	United Kingdom	Partner
21	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE	France	Partner



Università
Ca' Foscari
Venezia

HORIZON 2020

Societal Challenges

Societal Challenge 1 - Health, Demographic Change and Wellbeing



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: DC-ren - Drug combinations for rewriting trajectories of renal pathologies in type II diabetes (DC-ren)

FUNDING PROGRAMME: Horizon 2020 - H2020-SC1-BHC

CALL: H2020-SC1-BHC-2018-2020

SCIENTIFIC FIELDS: Systems medicine

HOST DEPARTMENT: ECLT - European Centre for Living Technology

SCIENTIFIC RESPONSIBLE: Irene Poli

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 5.968.480,00	€ 781.405,00

ABSTRACT:

Diabetic Kidney Disease (DKD) is highly prevalent in type 2 diabetes, with major impact on patients and healthcare systems. The complex disorder, further modulated by cardiovascular comorbidities, presents as an accumulation of risk factors, which we treat with drug combinations. While the overall benefit of this approach is evident on a cohort level, individual patients show remarkable heterogeneity in drug response, and lack of guidance on personalized medication results in suboptimal control of the disorder. For resolving variability, we propose a new concept for personalization of drug combinations beyond the cohort-centric perspective. We improve patient stratification based on equivalence relations of clinical presentation, disease pathophysiology and drug combinations. The approach is derived from dynamical systems theory, aimed at reducing probabilistic assignment of patient-specific disease evolution and matching drug combinations. The availability of a large European repository holding DKD patients in routine care with diverse drug combinations, complemented by high-throughput screening for improving patient phenotyping, and molecular network modelling of pathology, embedded risk factor combinations and consequence of drug effect allows a systems representation of patient groups. Integrating clinical presentation and molecular architecture in a novel computational framework will establish a decision support software prototype. We will validate this tool for predicting optimized personalized drug combinations in a study using given clinical trial repositories. Demonstration will expand to other available drugs, which in combination with approved drugs promise benefit for groups of DKD patients. With a clear route toward uptake in the clinical setting, and generalization capacity of our approach to other complex disorders we foster next steps in personalization, anticipate major patient benefit, and see novel translation and business opportunities.

Planned Start date	Planned End date
01/01/2020	31/12/2024

PARTNERSHIP:

1. MEDIZINISCHE UNIVERSITAT INNSBRUCK (MUI), the Coordinator	AT	Coordinator
2. EMERGENTEC BIODEVELOPMENT GMBH	AT	Partner
3. MEDIZINISCHE UNIVERSITAET WIEN (MUW)	AT	Partner
4. MOSAIQUES DIAGNOSTICS GMBH (MOSAIQUES)	DE	Partner
5. ACADEMISCH ZIEKENHUIS GRONINGEN (UNIVERSITAIR MEDISCH CENTRUM GRON)	NL	Partner
6. UNIVERSITA CA' FOSCARI VENEZIA (UNIVE)	IT	Partner
7. WEIZMANN INSTITUTE OF SCIENCE LTD (WEIZMANN)	IL	Partner
8. REGION HOVEDSTADEN (REGIONH)	DK	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: SHARE-COVID19 - Non-intended health, economic and social effects of the COVID-19 epidemic control decisions: Lessons from SHARE (SHARE-COVID19)

FUNDING PROGRAMME: Horizon 2020 - H2020-SC1-BHC

CALL: H2020-SC1-PHE-CORONAVIRUS-2020-2-RTD

SCIENTIFIC FIELDS: Systems medicine

HOST DEPARTMENT: ECLT - European Centre for Living Technology

SCIENTIFIC RESPONSIBLE: Brugiavini Agar

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 6.847.680,25	€ 313.541,25

ABSTRACT:

The non-intended consequences of the epidemic control decisions to contain the COVID-19 pandemic are huge and affect the well-being of European citizens in terms of economics, social relationships and health: Europe is experiencing the largest recession since WWII; social contacts have been interrupted; people avoid seeking medical treatment in fear of infection. The overarching objective of this project is to understand these non-intended consequences and to devise improved health, economic and social policies. In our policy recommendations, we strive to make healthcare systems and societies in the EU more resilient to pandemics in terms of prevention, protection and treatment of the population 50+, a most vulnerable part of the population.

The project aims to identify healthcare inequalities before, during and after the pandemic; to understand the lockdown effects on health and health behaviours; to analyse labour market implications of the lockdown; to assess the impacts of pandemic and lockdown on income and wealth inequality; to mitigate the effects of epidemic control decisions on social relationships; to optimise future epidemic control measures by taking the geographical patterns of the disease and their relationship with social patterns into account; and to better manage housing and living arrangements choices between independence, coresidence or institutionalisation.

The project pursues a transdisciplinary and internationally comparative approach by exploiting the data sources of the SHARE research infrastructure. It covers all EU MS. The project's team represents medicine, public health, economics and sociology and has worked together since the creation of SHARE. It is experienced in translating data analysis into concrete policy advice. The project's policy recommendation are targeted at policy makers in the Commission and in national ministries as well as at national and international NGOs and social organisations.

Planned Start date	Planned End date
01/11/2020	30/10/2023

PARTNERSHIP:

1. MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV	DE	Coordinator
2. SYDDANSK UNIVERSITET	DK	Partner
3. UNIVERSITE PARIS DAUPHINE	FR	Partner
4. THE HEBREW UNIVERSITY OF JERUSALEM	IL	Partner
5. UNIVERSITA CA' FOSCARI VENEZIA	IT	Partner
6. UNIVERSITA DEGLI STUDI DI PADOVA	IT	Partner
7. FUNDACION CENTRO DE ESTUDIOS MONETARIOS Y FINANCIEROS	ES	Partner
8. SZKOLA GLOWNA HANDLOWA W WARSZAWIE	PL	Partner
9. UNIVERSITY OF PIRAEUS RESEARCH CENTER	EL	Partner
10. NARODOHOSPODARSKY USTAV AKADEMIE VED CESKE REPUBLIKY VEREJNA VYZKUMNA INSTITUCE	CZ	Partner
11. SVEUCILISTE U ZAGREBU EKONOMSKI FAKULTET	HR	Partner
12. UMEA UNIVERSITET	SE	Partner
13. VERSITATSKLINIKUM HEIDELBERG	DE	Partner
14. STICHTING CENTERDATA	NL	Partner
15. EUROPEAN RESEARCH INFRASTRUCTURE CONSORTIUM FOR THE SURVEY OF HEALTH, AGEING AND RETIREMENT IN EUROPE	DE	Partner



Università
Ca' Foscari
Venezia

HORIZON 2020

Societal Challenges

**Societal Challenge 2 - Food Security,
Sustainable Agriculture and Forestry,
Marine, Maritime and Inland Water
Research and the Bioeconomy**



PROJECT ACRONYM AND TITLE: ClimeFish – Co-creating a Decision Support Framework to ensure sustainable fish production in Europe under climate change

FUNDING PROGRAMME: Horizon 2020 – Societal Challenge 2: Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy

CALL: H2020-SC2-BG02

SCIENTIFIC FIELD: Sustainable Fisheries, Blue Growth, Aquaculture and Seafood Sectors

HOST DEPARTMENT/CENTRE: Department of Environmental Science, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Prof. Fabio Pranovi

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 5.187.091,25	€ 201.160,00

ABSTRACT:

ClimeFish will, in co-creation with stakeholders, support sustainable fisheries, enable an increase in European aquaculture production, facilitate employment and regional development through effective forecasting, and develop management tools for adapting to climate change. Biological models will be based on single species distribution and production, as well as more advanced multispecies interactions. Forecasting models will provide scenarios to evaluate socio-economic effects of climate change on ecosystem services, and will give information to support fisheries management and aquaculture development. The models will incorporate uncertainty and risk, thereby strengthening the scientific advice, policy making process and production planning.

Based on these models, ClimeFish will develop a Decision Support Framework (DSF) and case-specific management plans (MPs) under a results-based scheme that will allow regulators, fishermen and aquaculture operators to anticipate, prepare and adapt to climate change while minimizing economic losses and social consequences. ClimeFish will address three production sectors (marine fisheries, marine aquaculture and freshwater lakes and ponds) through seven case studies involving approximately 20 species. ClimeFish will identify threats and opportunities that will occur under three different climate scenarios, and in co-creation with stakeholders prepare to mitigate risks and reap the potential benefits for European fisheries, aquaculture and seafood sectors.

The capacity building and empowerment of operators through their participation in data collection, DSF design and responsive MP development, will ensure sustainability and increase the competitiveness and growth of seafood producers and associated companies. This will contribute to the development of innovations, meeting the needs of the EU as well as the global market, and have significant impact also after project end.

Planned Start date	Planned End date
01/04/2016	31/03/2020

PARTNERSHIP:

1	UiT, The Arctic University of Norway	Norway	Coordinator
2	Ca' Foscari University of Venice	Italy	Partner
3	Universidad de Concepción	Chile (ICPC)	Partner
4	Biology Centre Czech Academy of Sciences	Czech Republic	Partner
5	International Council for the Exploration of the Sea	Denmark	Partner
6	Syntesa	Faroe Islands	Partner
7	Federation of European Aquaculture Producers	France	Partner
8	Brandenburg University of Technology Cottbus-	Germany	Partner

	Senftenberg		
9	Hellenic Center for Marine Research	Greece	Partner
10	National Agricultural Research and Innovation Centre	Greece	Partner
11	Matis	Iceland	Partner
12	The Food and Agriculture Organization of the United Nations	Italy	Partner
13	The Institute of Marine Research in Norway	Norway	Partner
14	The Norwegian Institute of Food, Fisheries and Aquaculture Research	Norway	Partner
15	Centro Tecnológico del Mar	Spain	Partner
16	The Spanish National Research Council	Spain	Partner
17	University of Stockholm	Sweden	Partner
18	University of Aberdeen	UK	Partner
19	University of Stirling	UK	Partner
20	Nha Trang University	Vietnam (ICPC)	Partner
21	Memorial University of Newfoundland	Canada (ICPC-HI)	Partner

WEBSITE: available after the starting date



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: CITIES2030 – Co-creating resilient and sustainable food systems towards FOOD2030

FUNDING PROGRAMME: Food and Natural Resources

CALL: H2020-FNR-2020

SCIENTIFIC FIELDS: Economics

HOST DEPARTMENT: DEC – Department of Economics

SCIENTIFIC RESPONSIBLE: Prof. Nicola CAMATTI

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 12,513,955.75	€ 844734, 50

ABSTRACT:

Urban food systems and ecosystems (UFSE) demand immediate action. CITIES2030 innovative approach have a great opportunity to attract the best researchers, entrepreneurs, civil society leaders, cities and all agents of the UFSE as well. The main goal of CITIES2030 is to create a future proof and effective UFSE via a connected structure centered in the citizen, built on trust, with partners encompassing the entire UFSE. CITIES2030 commit to work towards the transformation and restructuring of the way systems produce, transport and supply, recycle and reuse food in the 21st century. CITIES2030 vision is to connect short food supply chains, gathering cities and regions, consumers, strategic and complement industry partners, the civil society, promising start-ups and enterprises, innovators and visionary thinkers, leading universities and research across the vast diversity of disciplines addressing UFSE, including food science, social science and big data. CITIES2030 actively encourage the participation of citizens by delivering a trusted UFSE, moving consumers from being passive recipients to active engagement and motivated change agents. This objective is achieved via multiple tools delivered by CITIES2030 such as the CRFS Alliance, a community of practice supported by a digital platform, reaching all over Europe and beyond. This approach will enable policy developments, innovation actions within result-driven Labs, and enhancements on a pan-European scope with a global reach. Cities and regions will improve resilience and sustainability, and their leadership will create short food supply chain and ecosystems enabling local investments, trans-borders and transnational deployment. A blockchain-based data-driven UFSE management platform will secure intelligence and coordination actions by delivering an accurate, almost real-time digital twin of the whole supply chain, e.g. from production to waste management, but also on key enablers of resilience and sustainability.

Planned Start date	Planned End date
1 st October 2020	30 th September 2024

PARTNERSHIP:

1.	Università Ca' Foscari Venezia	Italy	Coordinator
2.	EPC – European Project Consulting – SRL	Italy	Partner
3.	STAD BRUGGE	Belgium	Partner
4.	KATHOLIEKE HOGESCHOOL VIVES ZUID	Belgium	Partner
5.	ISTANBUL AVRUPA ARASTIRMALARI DERNEGI	Turkey	Partner
6.	INAGRO, PROVINCIAL EXTERN VERZEFSTANDIGD AGENTSCHAP IN PRIVAATRECHTELIJKE VORM VZW	Belgium	Partner
7.	EREVNITIKO IDRIMA P. L.	Cyprus	Partner
8.	Razvojna agencije Grada Velika Gorica – VE – GO – RA	Croatia	Partner
9.	Inventivna rjesenja	Croatia	Partner
10.	VEJLE KOMMUNE	Denmark	Partner
11.	FUNDINGBOX RESEARCH APS	Denmark	Partner
12.	Into Seinäjoki Ltd	Finland	Partner
13.	PROAGRIA ETELA – POHJANMAA RY	Finland	Partner
14.	SMART & LEAN HUB OY	Finland	Partner
15.	Magistrat der Stradt Bremerhaven	Germany	Partner
16.	VEREIN ZUR FORDERUNG DES TECHNOLOGIETRANSFERS AN DER HOCHSCHULE BREMERHAVEN EV	Germany	Partner
17.	BIOZOOM GMBH	Germany	Partner
18.	AYUNTAMIENTO DE QUART DE POBLET	Spain	Partner
19.	FUNDACION SOCIALINNOLABS	Spain	Partner
20.	UNIVERSIDAD POLITECNICA DE MADRID	Spain	Partner
21.	WATERFORD INSTITUTE OF TECHNOLOGY	Ireland	Partner
22.	MATIS OHF	Iceland	Partner
23.	FUTURE FOOD INSTITUTE	Italy	Partner
24.	VIDZEMES PLANOSANAS REGIONS	Latvia	Partner
25.	LATVIJAS LAUKU FORUMS	Latvia	Partner
26.	ZDRUZENIE PLATFORMA ZA ZELEN RAZVOJSKOPJE	North Macedonia	Partner
27.	AG FUTURA TECHNOLOGII DOOEL SKOPJE	North Macedonia	Partner
28.	MUNICIPIUL IASI	Romania	Partner
29.	Academia Romana – Filiala Iasi	Romania	Partner
30.	ITC – INOVACIJSKO TEHNOLOSKI GROZD MURSKA SOBOTA	Slovenia	Partner
31.	Correlate AS	Norway	Partner
32.	Comune di Vicenza	Italy	Partner
33.	STICHTING VU	Netherlands	Partner
34.	Mestna občina Murska Sobota	Slovenia	Partner
35.	UNIVERSITIE DU LUXEMBOURG	Luxembourg	Partner
36.	UNION OF CYPRUS COMMUNITIES	Cyprus	Partner
37.	Primelayer, Unipessoal, Lda	Portugal	Partner
38.	UNIVERSITA' IUAV DI VENEZIA	Italy	Partner
39.	RIGAS TEHNISKA UNIVERSITATE	Latvia	Partner
40.	Cité de l'agriculture	France	Partner
41.	Gemeente Haarlem	Netherlands	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: EMERGE - Evaluation, control and Mitigation of the EnviRonmental impacts of shippinG Emissions

FUNDING PROGRAMME: Horizon 2020 - MG

CALL: H2020-MG-2018-2019-2020

SCIENTIFIC FIELDS: Maritime

HOST DEPARTMENT: DAIS -Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Antonio Marcomini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 7.493.885,00	€ 402.267,50

ABSTRACT:

The objectives of EMERGE are (i) to quantify and evaluate the effects of potential emission reduction solutions for shipping in Europe for several scenarios, and (ii) to develop effective strategies and measures to reduce the environmental impacts of shipping. EMERGE objectives will be achieved through real-world test cases involving measurements and modelling on actual vessels, along main shipping routes and in sensitive European marine regions. Given our unique capabilities, the EMERGE consortium is the only group that can model real world emissions of shipping to air and water for the whole of Europe. The project will collect and synthesize experimental evidence on waste streams to water and emissions to air originating from ships, for different emission control technologies. The measurements will focus on abatement techniques and will include emissions to, and concentrations in water, air and marine biota. The project will especially investigate how effectively available scrubbers reduce the effects of key pollutants. EMERGE includes five geographical case studies, in different ecologically vulnerable regions, and a mobile onboard case study. The case study regions are (i) Eastern Mediterranean (ii) Northern Adriatic Sea, (iii) the region surrounding the Lagoon of Aveiro, (iv) the Solent Strait and (v) the Öresund Strait. The mobile onboard case study will be deployed in various European sea regions. EMERGE will develop an integrated modelling framework to assess the combined impacts of shipping emissions on the aquatic and atmospheric environments, and the effects on marine ecosystems. The assessment will include the benefits and costs of control and mitigation options affecting water quality, air pollution exposure, health impact, climate forcing and bioaccumulation of pollutants. EMERGE will provide recommendations and guidance for stakeholders and decision-makers on cost-beneficial options for sustainable use of shipping on the medium and long term.

Planned Start date	Planned End date
01/02/2020	31/12/2024

PARTNERSHIP:

1. ILMATIEEN LAITOS, the Coordinator	FI	Coordinator
2. IVL SVENSKA MILJOEINSTITUTET AB	SE	Partner
3. CHALMERS TEKNISKA HOEGSKOLA AB	SE	Partner
4. ARISTOTELIO PANEPISTIMIO THESSALONIKIS	EL	Partner
5. INTERNATIONALES INSTITUT FUER ANGEWANDTE SYSTEMANALYSE	AT	Partner
6. THE UNIVERSITY OF HERTFORDSHIRE HIGHER EDUCATION CORPORATION	UK	Partner
7. PANEPISTIMIO AIGAIU	EL	Partner
8. UNIVERSIDADE DE AVEIRO	PT	Partner
9. UNIVERSITY OF SOUTHAMPTON	UK	Partner
10. UNIVERSITA CA' FOSCARI VENEZIA	IT	Partner
11. METEOROLOGISK INSTITUTT	NO	Partner
12. GOETEBORGS UNIVERSITET	SE	Partner
13. OULUN YLIOPISTO	FI	Partner
14. FUNDACIO INSTITUT CATALA DE RECERCA DE L'AIGUA	ES	Partner
15. DANAOS SHIPPING COMPANY LIMITED	CY	Partner
16. MARITIME INSTITUTE OF EASTERN MEDITERRANEAN - MAR.IN.E.M.	CY	Partner
17. THE BALTIC MARINE ENVIRONMENT PROTECTION COMMISSION	FI	Partner
18. CREATIVE NANO PC	EL	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: GAIN – Green Aquaculture Intensification in Europe

FUNDING PROGRAMME: HORIZON 2020

CALL: H2020-SFS-2016-2017 - Societal Challenge 2 - Sustainable Food Security – Resilient and resource-efficient value chains

SCIENTIFIC FIELDS: Aquaculture, fisheries

HOST DEPARTMENT: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Roberto Pastres

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 5.998.795,00	€ 710.328,75

ABSTRACT:

GAIN is designed to support the ecological intensification of aquaculture in the European Union (EU) and the European Economic Area (EEA), with the dual objectives of increasing production and competitiveness of the industry, while ensuring sustainability and compliance with EU regulations on food safety and environment. Eco-intensification of European aquaculture is a transdisciplinary challenge that requires the integration of scientific and technical innovations, new policies and economic instruments, as well as the mitigation of social constraints. Successful eco-intensification of aquaculture will provide more and better aquatic products, more jobs, and improve trade balance by reducing imports. GAIN, besides looking at innovative ways of integrating cultured species, will seek integration with other sectors, in order to promote the implementation of the principles of circular economy in Aquaculture. The GAIN Consortium includes a wide range of complementary expertise and a well blended mix of research institutes and industrial partners, which will ensure the achievement of the following specific objectives: (i) Develop and optimize sustainable feeds, without increasing the pressure on land and fish stocks; (ii) Add value to cultivation, by means of innovative processes, which turn both by-products and side-streams into valuable secondary materials, thus increasing profits and minimizing the environmental footprint; (ii) Improve the management of finfish and shellfish farms, in terms of FCR, fish welfare and reduction of wastes, through the use of sensors, biomarkers, Big Data, IoT (Internet of Things) and predictive mathematical models; (iv) Support integrated policies and address current barriers to the implementation of the principles of circular economy in aquatic production.

Planned Start date	Planned End date
1 st May 2018	31 st October 2021

PARTNERSHIP:

1	Università Ca' Foscari Venezia	Italy	Coordinator
2	The University of Stirling	United Kingdom	Partner
3	Alfred-Wegener-Institut Helmholtz-Zentrum Fur Polar - Und Meeresforschung	Germany	Partner
4	IBM Ireland Limited	Ireland	Partner
5	Agencia Estatal Consejo Superior Deinvestigaciones Cientificas	Spain	Partner
6	Longline Environment Limited	Ireland	Partner
7	Sparos LDA	Portugal	Partner
8	Salten Havbrukspark as	Norway	Partner
9	Wageningen University	Netherlands	Partner
10	Johann Heinrich Von Thuenen-Institut, Bundesforschungsinstitut Fuer Landliche Raeume, Wald Und Fischerei	Germany	Partner
11	Agrifood And Biosciences Institute	United Kingdom	Partner
12	Zachodniopomorski Uniwersytet Technologiczny W Szczecinie	Poland	Partner
13	Asociacion Nacional De Fabricantes De Conservas De Pescados Y Mariscos-Centro Tecnico Nacional De Conservacion De Productos De La Pesca	Spain	Partner
14	Multivector AS	Norway	Partner
15	GILDESKAL FORSKNINGSSTASJON AS	Norway	Partner
16	Lebeche Spain S.L.U.	Spain	Partner
17	Sagremarisco-Viveiros de Marisco Lda	Portugal	Partner
18	Fondazione Edmund Mach	Italy	Partner
19	Dalhousie University	Canada	Partner
20	South China Sea Fisheries Research Institute, CAFS	China (People's Republic of)	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: NewTechAqua - New Technologies, Tools and Strategies for a Sustainable, Resilient and Innovative European Aquaculture

FUNDING PROGRAMME: Horizon 2020 – SC2 - Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy

CALL: H2020-SC2-DT-BG-04-2018-2019 Sustainable European aquaculture 4.0: nutrition and breeding

SCIENTIFIC FIELDS: Aquaculture

HOST DEPARTMENT: DAIS – Dipartimento di Scienze Ambientali Informatica e Statistica

SCIENTIFIC RESPONSIBLE: Roberto Pastres

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ € 6723843,50	€ € 343785,00

ABSTRACT:

The vision of the EU aquaculture industry is to grow substantially in the next decade and to provide annually 4.5 million tons of sustainable food products. To this aim, NewTechAqua intends to expand and diversify EU production of finfish, molluscs and microalgae by developing and validating technologically-advanced, resilient and sustainable new solutions. The organizational approach of NewTechAqua is to group the solutions in 6 different categories: feed, Industry 4.0, sustainable farming, genetics, new species and new products. They will be validated on conventional (Atlantic salmon, rainbow trout, seabass and seabream) and emerging (greater amberjack, meagre, Senegalese sole and grey mullet) finfish species, molluscs (Pacific oyster, mussel) and microalgae. NewTechAqua is structured in 9 WPs. WP1 will conceive, formulate, produce and demonstrate three innovative sets of aquafeeds (pro-health, organic, zero waste). WP2 will establish new Alepidemiological models for enhancing the control of parasite outbreaks in Norwegian and Mediterranean farms. Sustainable aquaculture will be also promoted by advanced model systems and technologies for mollusc and in-land fish farms ecointensification. WP3 will develop innovative breeding programmes to improve performance, robustness and quality of farmed fish, molluscs and microalgae, while WP4 will achieve significant advances in reproduction technology of three emerging fish species. High-quality seafood products and sustainable food processing techniques for valorisation of byproducts will be validated. WP6 will develop a set of indicators to monitor and measure progress towards the expected impacts, while market uptake of NewTechAqua results and outputs will be ensured by a detailed exploitation strategy (WP7). Finally, NewTechAqua will achieve well-targeted communication, dissemination and maximum transfer of generated knowhow and project new technologies (WP8).

Planned Start date	Planned End date
01/01/2020	31/12/2023

PARTNERSHIP:

1. ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA	IT	Coordinator
2. UNIVERSITA CA' FOSCARI VENEZIA	IT	Partner
3. INSTITUT DE RECERCA I TECNOLOGIA AGROALIMENTARIES	ES	Partner
4. HELLENIC CENTRE FOR MARINE RESEARCH	EL	Partner
5. UNIVERSITA DEGLI STUDI DI BARI ALDO MORO	IT	Partner
6. NOFIMA AS	NO	Partner
7. A.I.A. AGRICOLA ITALIANA ALIMENTARE S.P.A.	IT	Partner
8. AQUICULTURA BALEAR SA	ES	Partner
9. CROMARIS DIONICKO DRUSTVO ZA MARIKULTURU	HR	Partner
10. MARINE HARVEST ASA	NO	Partner
11. IRIDA AE-PRODUCTS FOR ANIMAL PRODUCTION-SERVICES	EL	Partner
12. RARA AVIS BIOTEC, S.L.	ES	Partner
13. AQUANETIX LIMITED	UK	Partner
14. Fédération Européenne des Producteurs Aquacoles	FR	Partner
15. CENTRE INTERNATIONAL DE HAUTES ETUDES AGRONOMIQUES MEDITERRANEENNES	FR	Partner
16. Il Vigneto soc agricola arl	IT	Partner
17. Greenovate! Europe	BE	Partner
18. INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER	FR	Partner
19. SYNDICAT DES SELECTIONNEURS AVICOLES ET AQUACOLES FRANCAIS	FR	Partner
20. ICHTHYOKALLIERGEIES ARGOSARONIKOU ANONYMI ETAIRIA	EL	Partner
21. MINISTRY OF AGRICULTURE, RURAL DEVELOPMENT AND ENVIRONMENT OF CYPRUS	CY	Partner
22. UNIVERSIDAD DE LAS PALMAS DE GRAN CANARIA	ES	Partner
23. THE SEAFOOD INNOVATION CLUSTER AS	NO	Partner
24. GALAXIDI MARINE FARM AE	EL	Partner
25. CONSIGLIO NAZIONALE DELLE RICERCHE	IT	Partner
26. CASALI ROBERTO	IT	Partner



Università
Ca' Foscari
Venezia

HORIZON 2020

Societal Challenges

Societal Challenge 3 - Secure, Clean and Efficient Energy



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: EeMAP - Energy efficient Mortgages Action Plan

FUNDING PROGRAMME: Horizon 2020 – Societal Challenge 3 - Secure, Clean and Efficient Energy

CALL: H2020-EE-24-2016

TYPE OF ACTION: CSA

SCIENTIFIC FIELD : Financing for energy efficiency Energy savings, housing stock, energy efficiency, mortgage credit, bank financing initiative, green value, EPC, preferential financial conditions, risk management, capital requirements.

HOST DEPARTMENT : Department of Economics

SCIENTIFIC RESPONSIBLE: Monica BILLIO

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1.553.062,50	€ 240.000,00

ABSTRACT:

In the EU, buildings are responsible for 40% of total energy consumption and 36% of CO₂ emissions. By improving the energy efficiency (EE) of buildings, the EU's total energy consumption could be reduced by 5-6% and CO₂ emissions by 5%. Considering that the building stock constitutes the largest single energy consumer in the EU, and that the value of the European mortgage market is equal to 53% of EU's GDP, there is huge potential to bridge financial innovation and the EE world and to unlock the benefits of mortgage financing to support EE to the benefit of all.

The EeMAP Project intends to deliver a standardised framework based on a market benchmark to stimulate EE investment by households in the EU's housing stock by way of a private banking financing mechanism.

Three key outputs will be: recommendations for a building energy passport, recording the EE history of a property by recognising the improvements made and integrating data on energy performance for valuers and banks; a framework that can integrate the "green value" of a property through EE and collected market data; the framework for an EE mortgage product. Accordingly, EE investment will become financially viable, as market transparency will be improved. The Project will create synergies in the mortgage and covered bond value chain, delivering a virtuous circle between lenders, borrowers and investors from the origination of the energy efficient mortgage to the pooling of EE collateral for the purpose of energy efficient covered bonds. EeMAP has long-term potential to drive housing markets across Europe in a sustainable manner and encourage significant energy reductions in line with the EU's aspirations and global climate change demands. Concretely, issuing 35,000 green mortgages a year can achieve savings of 88 GWh per annum.

The EeMAP Project brings together all the necessary competencies (financial, building and EE, property valuation, energy provision and data) to develop a credible, workable and marketable pan-European energy efficient mortgage initiative.

Planned Start date	Planned End date
01ST May 2017	31ST March 2019

PARTNERSHIP:

1	COVERED BOND AND MORTGAGE COUNCIL	Belgium	Coordinator
2	UNIVERSITÀ CA' FOSCARI VENEZIA	Italy	Partner
3	RICS	UK	Partner
4	UKGBC LIMITED	UK	Partner
5	E.ON UK PLC	UK	Partner
6	JOHANN WOLFGANG GOETHE UNIVERSITAET FRANKFURT AM MAIN	Germany	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: EeDaPP – Energy efficiency Data Protocol and Portal

FUNDING PROGRAMME: HORIZON 2020

CALL: H2020-EE-2016-2017 - ENERGY EFFICIENCY

SCIENTIFIC FIELDS: Financing for energy efficiency

HOST DEPARTMENT: Department of Economics

SCIENTIFIC RESPONSIBLE: Monica Billio

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1,500,000.00	€ 220,000.00

ABSTRACT:

Despite some progress has been made in green finance, only a fraction of bank lending and funding (securities) is explicitly classified as green. The lack of standardisation (in terms of reporting definitions and dynamic data sets) hinders transparency, viability and risk assessment and it is thus a major obstacle to the development of the market. There is a huge and urgent need of a standardised approach to “green due diligence”. The EeDaPP Project intends to deliver large-scale, granular technical and financial data related to energy efficient mortgages by way of a standardised data protocol to be accessed through a common, centralised portal.

Three key outputs will be: the definition of specific reporting criteria for the gathering of data on energy efficient mortgages; the design and delivery of the standardised protocol for the gathering, processing and disclosing of such data, and the design of a centralised portal; the analysis of data gathered to further integrate ‘green value’ in property valuation and substantiate the correlation between energy efficiency and risk. In this way, the EeDaPP Project builds on and complements the ongoing EeMAP Project, which is intended to design an energy efficient mortgage financing mechanism. The EeDaPP Project will boost the green securities market in terms of size, liquidity and efficiency by providing for the traceability of the performance of energy efficient assets, allowing for the identification of such assets for the purposes of energy efficient covered bond/bond issuance and potentially other derivatives, and by significantly boosting investor confidence in such securities. EeDaPP has also long-term potential to scale-up the expected impacts of the EeMAP Project to encourage significant energy reductions.

The EeDaPP Consortium brings together all the necessary competencies (financial, data processing and management, property valuation) to develop a robust, workable and marketable pan-European data protocol & portal.

Planned Start date	Planned End date
1 st March 2018	29 th February 2020

PARTNERSHIP:

1 COVERED BOND & MORTGAGE COUNCIL (EMF-ECBC)	Belgium	Coordinator
2 UNIVERSITA CA' FOSCARI VENEZIA (UNIVE)	Italy	Partner
3 CRIF SPA (CRIF S.P.A.)	Italy	Partner
4 EUROPEAN DATAWAREHOUSE GMBH (EuroDW)	Germany	Partner
5 Hypoport BV (Hypoport BV)	Netherlands	Partner
6 TXS GMBH (TXS GmbH),	Germany	Partner
7 JOHANN WOLFGANG GOETHE-UNIVERSITÄT FRANKFURT AM MAIN (GUF)	Germany	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: EeMMiP - Energy efficient Mortgage Market Implementation Plan

FUNDING PROGRAMME: H2020-LC-SC3-2018-2019-2020 (BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY)

CALL: LC-SC3-EE-10-2018-2019-2020

SCIENTIFIC FIELDS: Financial mechanisms

HOST DEPARTMENT: Dipartimento di Economia

SCIENTIFIC RESPONSIBLE: Monica Billio

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ € 1 745 115, 00	€ € 204 875,00

ABSTRACT:

The European Union (EU) has set itself ambitious climate change targets. The scale of investment needed to meet the energy savings targets alone is estimated at €180 billion p.a., three quarters of which is accounted for by energy efficiency in buildings. In light of the link between buildings and mortgages, the EU-funded Energy Efficient Mortgages Initiative (EEMI)[1] sought to bridge some of this gap by way of the energy efficient mortgage (EEM) product and framework. However, experience gained indicates the development of the EEM market goes far beyond designing the product and requires the integration of a complex web of stakeholders. The Energy Efficient Mortgage Market Implementation Plan (EeMMIP) will build on efforts to develop EEM by delivering an integrated market and a blueprint for established and emerging markets around the globe. The Project will conduct an analysis of the current market systems relevant to the development of an EEM market and establish demonstrators to support the demonstration of the end-to-end customer journey and EEM life-cycle. It will establish market-based governance and an EEM Label to support recognition of and confidence in EEM and facilitate access to quality information for market participants. It will deliver guidance for the inclusion of energy efficiency in credit risk assessments for lending institutions and supervisors and policy recommendations for the prudential framework in line with the principle of risk sensitivity and promote a well-functioning banking market. Finally, it will support global take-up of EEM through the Label and institutional cooperation. EeMMIP responds to the objectives of the EU in the areas of sustainable finance and climate change, all against the background of Capital Markets Union, and aims to influence the entire value chain, from consumer to bond investor, stimulating mentality change and securing energy efficiency in market attitudes and best practices both in Europe and globally.

Planned Start date	Planned End date
01/09/2020	31/08/2022

PARTNERSHIP:

1. COVERED BOND & MORTGAGE COUNCIL	Belgium	Coordinator
2. E.ON SOLUTIONS GMBH	Germany	Partner
3. UNIVERSITA CA' FOSCARI VENEZIA	Italy	Partner
4. CRIF SPA	Italy	Partner
5. COPENHAGEN ECONOMICS AS	Denmark	Partner
6. SCOTTISH GOVERNMENT	United Kingdom	Partner
7. PROVINCIA AUTONOMA DI TRENTO	Italy	Partner



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: TranspArEEnS - MAINSTREAMING TRANSPARENT ASSESSMENT OF ENERGY EFFICIENCY IN ENVIRONMENTAL SOCIAL GOVERNANCE RATINGS

FUNDING PROGRAMME: Horizon 2020

CALL: H2020-LC-SC3-2018-2019-2020

HOST DEPARTMENT: DEC, Department of Economics

SCIENTIFIC RESPONSIBLE: Billio Monica

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1.487.957,50	€ 421.876,25

ABSTRACT: Improving access to long-term finance for Energy Efficiency (EE) projects is key to achieve the EU2030 targets and aligning the COVID-19 recovery to the European Green Deal. However, the lack of standardized disclosure of EE investments limits firms' access to EE financing. Further, poor understanding of EE information in ESG ratings increases the risk of greenwashing, thus preventing a smooth development of the sustainable finance market. TranspArEEnS addresses these barriers by mainstreaming a qualitative-quantitative framework for standardized collection and analysis of firms' EE and ESG information and the development of a standardized EE-ESG rating. This serves as an EE-ESG filter to inform investment and financial policy decisions with regard to portfolios' alignment to sustainability. A unique added value of this project is to cover non-listed Small and Medium Enterprises, meeting an important market need. TranspArEEnS' EE-ESG rating will be tested in pilot case studies and capacity building sessions with leading representatives of the financial industry and supervisors. This allows to understand barriers and opportunities for its operationalization in: i) credit risk assessment, ii) development of long-term EE-financing via securitization (covered bonds, European Secured Notes), and iii) introduction of EE-ESG considerations into monetary policies and prudential regulations. By enhancing standardized disclosure of EE investing, TranspArEEnS will decrease uncertainty in the EE and ESG market, thus promoting the scaling up of new EE financing and investment opportunities in the EU. Moreover, it will help to mitigate the risk of greenwashing thus improving financial stability. An excellent Consortium, composed of leading academic, business and financial experts, with the support of key stakeholders in EE and sustainable finance, ensures the policy and market relevance of the project's results.

Planned Start date	Planned End date
01/06/2021	30/11/2023

PARTNERSHIP:

1 Ca' Foscari University of Venice (UNIVE)	Italy	Coordinator
2 CRIF S.p.A.	Italy	Partner

3	European Mortgage Federation-European Covered Bond Council (EMF-ECBC)	Belgium	Partner
4	Modefinance srl	Italy	Partner
5	Leibniz-Institut für Finanzmarktforschung SAFE e.V. (SAFE)	Germany	Partner



Università
Ca' Foscari
Venezia

HORIZON 2020

Societal Challenges

**Societal Challenge 5 - Climate
action, environment, resource
efficiency and raw materials**



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: GREEN-WIN: Green growth and win-win strategies for sustainable climate action

FUNDING PROGRAMME: Horizon 2020 – Societal Challenge 5 – 2014 - two-stage

CALL: H2020-SC5-2014-two-stage: Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials – Topic SC5-03b-2014: Linkages between climate change actions and sustainable development

SCIENTIFIC FIELDS: ECLT - European Centre for Living Technologies

HOST DEPARTMENT: DAIS -Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Irene Poli

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 3.624.765	€ 99.000

ABSTRACT:

The GREEN-WIN project will develop a major international transdisciplinary research collaboration to apply a solution-oriented approach targeted at increasing the understanding of links between climate action and sustainability and overcoming implementation barriers through win-win strategies. The project will critically assess where and under which conditions win-win and in particular green growth strategies work in practice and where fundamental trade-offs must be faced. We thereby focus on four critical barriers that have been identified by practitioners and policy makers. First, we develop transformative narratives highlighting opportunities in climate and sustainability action in order to contribute to overcoming cognitive barriers and empowering people. Second, we examine climate and sustainability finance policies and governance arrangements in order to contribute to overcoming financial barriers to mitigation and adaptation. Third, we substantiate the economics of green growth in order to contribute to overcoming economic and collective action barriers to de-carbonisation. Towards this end we introduce major innovations into the GEM-E3 computable general equilibrium model required to discover green growth strategies. These include developing a network-based model of technological diffusion, and introducing financial market constraints and adaptive expectations of agents. Fourth, we contribute to overcoming economic and institutional barriers through identifying win-win strategies, sustainable business models and enabling environments in three action fields of coastal zone flood risk management, urban transformations and energy poverty eradication and resilience. We embed all these activities within a sustained international dialogue involving stakeholders from policy, research, civil society and the private sector, and an open knowledge management and capacity building strategy to promote knowledge transfer and learning beyond the project lifespan.

Planned Start date	Planned End date
01 st septembre 2015	31 st August 2018

PARTNERSHIP:

1. GCF – Global Climate Forum EV	(Germania)	Coordinator
2. Universitat Autònoma de Barcelona	(Spagna)	Partner
3. E3-Modelling.PC	(Grecia)	Partner
4. The Chancellor, Masters and Scholars of the University of Oxford	(Regno Unito)	Partner
5. Ecole d'Economie de Paris	(Francia)	Partner
6. University College London	(Regno Unito)	Partner
7. Group Up Association	(Svizzera)	Partner
8. Stichting Deltares	(Paesi Bassi)	Partner
9. Institute for Advanced Sustainability Studies EV	(Germania)	Partner
10. Global Green Growth Institute	(Regno Unito)	Partner
11. Jager Jill	(Austria)	Partner
12. Università Ca' Foscari Venezia	(Italia)	Partner
13. Bogazici Universitesi	(Turchia)	Partner
14. Center for Remote Sensing and Ocean Sciences, Udayana University	(Indonesia)	Partner
15. University of Cape Town	(Sud Africa)	Partner
16. 2° Investing Initiative (2°II)	(Francia)	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: BE-OIC - Beyond EPICA Oldest Ice Core: 1,5 Myr of greenhouse gas – climate feedbacks

FUNDING PROGRAMME: Horizon 2020 - LC

CALL: H2020-LC-CLA-2018-2019-2020

SCIENTIFIC FIELDS: Climatology

HOST DEPARTMENT: DAIS – Dipartimento di Scienze Ambientali Informatica e Statistica

SCIENTIFIC RESPONSIBLE: Barbara Stenni

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 11.199.456,25	€ 30.000,00

ABSTRACT:

To better constrain the long-term response of Earth's climate system to continuing greenhouse gas emissions, it is essential to turn to the past. A key advance would be to understand the shift in Earth's climate response to orbital forcing during the 'Mid-Pleistocene transition' [MPT, 900,000 (900 kyr) to 1.2 million years (1.2 Myr) ago], when a dominant 40 kyr cyclicity gave way to the current 100 kyr period. It is critical to understand the role of forcing factors and especially of greenhouse gases in this transition. Unravelling such key linkages between the carbon cycle, ice sheets, atmosphere and ocean behaviour is vital, assisting society to design an effective mitigation and adaptation strategy for climate change. Only ice cores contain direct and quantitative information about past climate forcing and atmospheric responses. However, the longest (EPICA) ice core record available to date covers only the last 800 kyr. The RIA Topic LC-CLA-08-2018 empowers the European ice core community to perform such an oldest ice core drilling and the project BE-OIC is taking on this unique challenge and opportunity. The overarching scientific objective driving BE-OIC is to obtain quantitative, high-resolution icecore information on climate and environmental changes over the last 1.5 Myr. The cause and effect relationship that led to the enigmatic MPT change in the climate system is not understood yet, as important information on global changes in the climate system is still missing. Most of this information, including the phasing of these changes in the Earth System can only be derived from a continuous ice core from Antarctica covering the last 1.5 Myr.

This proposal uses the planning derived during the recent BE-OI CSA, and offers an excellent team (the only team globally that could at present accept the challenge of the call), underpinned by excellent infrastructure and capacity, and is currently ensuring it has an excellent location for the core.

Planned Start date	Planned End date
01/06/2019	31/05/2025

PARTNERSHIP:

1. CONSIGLIO NAZIONALE DELLE RICERCHE	IT	Coordinator
2. ALFRED-WEGENER-INSTITUT HELMHOLTZ-ZENTRUM FUR POLAR- UND MEERESFORSCHUNG	DE	Partner
3. UNITED KINGDOM RESEARCH AND INNOVATION	UK	Partner
4. INSTITUT POLAIRE FRANCAIS PAUL-EMILE-VICTOR GIP	FR	Partner
5. AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE	IT	Partner
6. CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	FR	Partner
7. UNIVERSITEIT UTRECHT	NL	Partner
8. NORSK POLARINSTITUTT	NO	Partner
9. STOCKHOLMS UNIVERSITET	SE	Partner
10. UNIVERSITAET BERN	CH	Partner
11. KOBENHAVNS UNIVERSITET	DK	Partner
12. UNIVERSITE LIBRE DE BRUXELLES	BE	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: MYRIAD-EU 'Multi-hazard and sYstemic framework for enhancing Risk-Informed mAnagement and Decision-making in the E.U.'

FUNDING PROGRAMME: H2020 SC5 - Climate action, environment, resource efficiency and raw materials

CALL: LC-CLA-16-2020 : Multi-hazard risk management for risk-informed decision-making in the E.U.

HOST DEPARTMENT: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Andrea Critto

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 4.999.802,50	€ 30.000

ABSTRACT:

MYRIAD-EU's vision is to catalyse the paradigm shift required to move towards a multi-risk, multi-sector, systemic approach to risk management. Our aim is that by the end of MYRIAD-EU policy-makers, decision-makers, and practitioners can develop forward-looking disaster risk management pathways that assess trade-offs and synergies across sectors, hazards, and scales.

Planned Start date	Planned End date
01 st September 2021	1 st September 2025

PARTNERSHIP:

1	Stichting Vu	Netherlands	Coordinator
2	United Kingdom Research And Innovation	United Kingdom	Partner
3	Fondazione Centro Euro-Mediterraneosui Cambiamenti Climatici	Italy	Partner
4	Stichting Deltares	Netherlands	Partner
5	Risklayer GmbH	Germany	Partner
6	Internationales Institut Fuer Angewandte Systemanalyse	Austria	Partner
7	Arctik Srl	Belgium	Partner
8	Cicero Senter For Klimaforskning	Norway	Partner
9	Universidad De La Laguna	Spain	Partner
10	Max-Planck-Gesellschaft Zur Forderung Der Wissenschaften Ev	Germany	Partner

11 Academia De Studii Economice Din Bucuresti	Romania	Partner
12 Forum Des Laboratoires Nationaux Europeens De Recherche Routiere Fehrlaisbl	Belgium	Partner
13 Wetlands International - European Association	Netherlands	Partner
14 Hotrec, Hotels, Restaurants & Cafes In Europe	Belgium	Partner
15 Centro De Investigaciones Cientificas Y Tecnologicas De Extremadura	Spain	Partner
16 Aon Uk Limited	United Kingdom	Partner
17 Nederlandse Organisatie Voor Toegepast Natuurwetenschappelijk Onderzoek Tno	Netherlands	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: PARIS REINFORCE - Delivering on the Paris Agreement: A demand-driven, integrated assessment modelling approach

FUNDING PROGRAMME: Horizon 2020 - LC

CALL: H2020-LC-CLA-2018-2019-2020

SCIENTIFIC FIELDS: Risk assessment

HOST DEPARTMENT: DAIS – Dipartimento di Scienze Ambientali Informatica e Statistica

SCIENTIFIC RESPONSIBLE: Carlo Carraro

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 7.830.242,50	€ 40.041,87

ABSTRACT:

PARIS REINFORCE aims to underpin climate policymaking with authoritative scientific processes and results, and enhance the science-policy interface, in light of the Paris Agreement and associated challenges. In particular, our aim is to develop a novel, demand-driven, IAM-oriented assessment framework for effectively supporting the design and assessment of climate policies in the EU as well as in other major emitters and selected less emitting/developed countries, in respect to the Paris Agreement objectives. Building on an exhaustive facilitative dialogue and a strong ensemble of complementary—in terms of mathematical structure, geographical, sectoral and focus coverage—integrated assessment, energy system and sectoral models, we will create an open-access and transparent data exchange platform, I2AM PARIS, in order to support the effective implementation of Nationally Determined Contributions, the preparation of future action pledges, the development of 2050 decarbonisation strategies, and the reinforcement of the 2023 Global Stocktake. We also seek to enhance the legitimacy of the scientific processes in support of climate policymaking, by introducing an innovative stakeholder inclusion framework and improving the transparency of the employed models, methods and tools. Beyond effectively communicating respective outputs and fostering wider societal acceptance of climate policy, we actively involve policymakers and other stakeholder groups in all stages: from the formulation of policy questions and the definition of modelling assumptions in a demand-driven approach; to the design of I2AM PARIS interfaces and specifications, and the mobilisation of tacit knowledge embedded in them in the aim of bridging knowledge gaps. Finally, we will introduce innovative integrative processes, in which IAMs are further coupled with well-established methodological frameworks, in order to improve the robustness of modelling outcomes against different types of uncertainties.

Planned Start date	Planned End date
01/06/2019	31/05/2022

PARTNERSHIP:

1.	NATIONAL TECHNICAL UNIVERSITY OF ATHENS – NTUA	GR	Coordinator
2.	ASOCIACION BC3 BASQUE CENTRE FOR CLIMATE CHANGE - KLIMA ALDAKETA IKERGAI	ES	Partner
3.	BRUEGEL AISBL	BE	Partner
4.	THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE	UK	Partner
5.	CICERO SENTER KLIMAFORSKNING STIFTELSE	NO	Partner
6.	FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI	IT	Partner
7.	ENERGY ENGINEERING ECONOMIC ENVIRONMENT SYSTEMS MODELING AND ANALYSIS SRL	IT	Partner
8.	ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE	CH	Partner
9.	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	DE	Partner
10.	IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE	UK	Partner
11.	HOLISTIC P.C.	GR	Partner
12.	INSTITUTE FOR EUROPEAN ENERGY AND CLIMATE POLICY STICHTING	NL	Partner
13.	SEURECO SOCIETE EUROPEENNE D'ECONOMIE SARL	FR	Partner
14.	FUNDACAO DE EMPREENDIMENTOS CIENTIFICOS E TECNOLOGICOS	BR	Partner
15.	China University of Petroleum-Beijing	CN	Partner
16.	Russian Academy of Sciences Institute of Economic Forecasting	RU	Partner
17.	Institute for Global Environmental Strategies	JP	Partner
18.	THE ENERGY AND RESOURCES INSTITUTE	IN	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: RECEIPT - REmote Climate Effects and their Impact on European sustainability, Policy and Trade

FUNDING PROGRAMME: Horizon 2020 – LC -CLA

CALL: H2020-LC-CLA-2018-2019-2020

SCIENTIFIC FIELDS: Earth science

HOST DEPARTMENT: DAIS – Dipartimento di Scienze Ambientali Informatica e Statistica

SCIENTIFIC RESPONSIBLE: Antonio Marcomini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 6.998.996,25	€ 30.000,00

ABSTRACT:

In an interconnected world, Europe's economy will be increasingly affected by climate change impacts that occur beyond its border. The movement of goods and services, people and capital occurs at ever increasing rates and volumes. This complex network reveals Europe's globalized climate exposure, vulnerability and risk structure, through which both gradual and sudden impacts of climatic features at any location on the world (hurricanes, droughts, melting ice sheets) propagate, ultimately impacting Europe's socio-economic welfare. Public awareness of Europe's sensitivity to global climate impacts is steadily growing. In order to provide relevant and quantitative information on the European risks from remote global climatic features, RECEIPT will develop and implement a novel stakeholder driven storytelling concept that maps representative connections between European socio-economic activities and remote climatic hazards. Using a limited number of storylines designed for selected sectors, RECEIPT has the following key objectives and deliverables:

- Mapping of global hotspots of remote areas with climate features relevant for Europe, using state-of-the-art climate and climate-impact databases;
- Science-based sectoral storylines co-developed with societal partners, describing the impacts of remote climate change on: European food security, the financial sector, international development, commodities and European coastal infrastructure;
- Assessment of European socio-economic impacts along each of the selected storylines under different future climatic conditions, including high-end climate scenarios;
- A robust synthesis of the storyline results into a pan-European socioeconomic risk assessment focusing on the difference between high-end and moderate climate change conditions;
- Innovative web-based concepts for visualizing potential impacts of remote drivers and mapping risk mitigation options.

Planned Start date	Planned End date
01/09/2019	31/08/2023

PARTNERSHIP:

1. KONINKLIJK NEDERLANDS METEOROLOGISCH INSTITUUT-KNMI	NL	Coordinator
2. STICHTING VU	NL	Partner
3. STICHTING NETHERLANDS ESCIENCE CENTER	NL	Partner
4. INTERNATIONALES INSTITUT FÜR ANGEWANDTE SYSTEMANALYSE	AT	Partner
5. POTSDAM INSTITUT FÜR KLIMAFOLGENFORSCHUNG	DE	Partner
6. EIDGENÖSSISCHE TECHNISCHE HOCHSCHULE ZÜRICH	CH	Partner
7. UNIVERSITÄT BERN	CH	Partner
8. R2 Water	NL	Partner
9. ARCTIK SPRL	BE	Partner
10. FONDAZIONE CENTRO EURO-MEDITERRANEO SUI CAMBIAMENTI CLIMATICI	IT	Partner
11. THE UNIVERSITY OF READING	UK	Partner
12. CICERO SENTER KLIMAFORSKNING STIFTELSE	NO	Partner
13. Stichting Solidaridad	NL	Partner
14. CASE - CENTRUM ANALIZ SPOŁECZNO-EKONOMICZNYCH- FUNDACJA NAUKOWA	PL	Partner
15. Sayers and Partners LLP	UK	Partner
16. UNIVERSITY OF LEEDS	UK	Partner
17. STICHTING INTERNATIONAL RED CROSS RED CRESCENT CENTRE ON CLIMATE CHANGE AND DISASTER PREPAREDNESS	NL	Partner



Università
Ca' Foscari
Venezia

HORIZON 2020

Societal Challenges

**Societal Challenge 6 - Europe in a
changing world - Inclusive, innovative
and reflective societies**



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: SIGN-HUB - The Sign Hub: preserving, researching and fostering the linguistic, historical and cultural heritage of European Deaf signing communities with an integral resource

FUNDING PROGRAMME: Horizon 2020 - Societal Challenge 6: Europe in a changing world - Inclusive, innovative and reflective societies

CALL: H2020-REFLECTIVE-SOCIETY-2015

SCIENTIFIC FIELD: Historical, Philosophical and Psychological Sciences

HOST DEPARTMENT: Department of Linguistics and Comparative Cultural Studies

SCIENTIFIC RESPONSIBLE: Chiara Branchini

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
2.499.337,50	170.583,75

ABSTRACT:

SIGN-HUB aims to provide the first comprehensive response to the societal and scientific challenge resulting from generalized neglect of the cultural and linguistic identity of signing Deaf communities in Europe. It will provide an innovative and inclusive resource hub for the linguistic, historical and cultural documentation of the Deaf communities' heritage and for sign language assessment in clinical intervention and school settings. To this end, it will create an open state-of-the-art digital platform with customized accessible interfaces. The project will initially feed that platform with core content in the following domains, expandable in the future to other sign languages: (i) digital grammars of 6 sign languages, produced with a new online grammar writing tool; (ii) an interactive digital atlas of linguistic structures of the world's sign languages; (iii) online sign language assessment instruments for education and clinical intervention, and (iv) the first digital archive of life narratives by elderly signers, subtitled and partially annotated for linguistic properties. These components, made available for the first time through a centralized platform to specialists and to the general public, will (a) help explore and value the identity and the cultural, historical and linguistic assets of Deaf signing communities, (b) advance linguistic knowledge on the natural languages of the Deaf and (c) impact on the diagnosis of language deficits within these minorities. SIGN-HUB will thus contribute to the dissemination and reuse of those assets in broader contexts, as part of European identity. The project is a critical attempt to rescue, showcase and boost that largely unknown part of our common heritage, as well as to ultimately enhance the full participation of Deaf citizens in all spheres of public life on an equal footing with hearing citizens.

Planned Start date	Planned End date
1 st April 2016	31 st March 2020

PARTNERSHIP:

1	UNIVERSIDAD POMPEU FABRA	Spain	Lead Partner/ Coordinator
2	UNIVERSITA CA' FOSCARI VENEZIA	Italy	Partner
3	UNIVERSITA' DEGLI STUDI DI MILANO-BICOCCA	Italy	Partner
4	UNIVERSITEIT VAN AMSTERDAM	Netherlands	Partner
5	BOGAZICI UNIVERSITESI	Turkey	Partner
6	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	France	Partner
7	UNIVERSITE PARIS DIDEROT - PARIS 7	France	Partner
8	TEL AVIV UNIVERSITY	Israel	Partner
9	GEORG-AUGUST-UNIVERSITAET GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS	Germany	Partner
10	CONSORZIO INTERUNIVERSITARIO NAZIONALE PER L'INFORMATICA	Italy	Partner



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: EUMEPLAT - European media platforms: assessing positive and negative externalities for European culture

FUNDING PROGRAMME: H2020 SC6 - Europe in a changing world - Inclusive, innovative and reflective societies

CALL: H2020-SC6-TRANSFORMATIONS-2018-2019-2020 (SOCIOECONOMIC AND CULTURAL TRANSFORMATIONS IN THE CONTEXT OF THE FOURTH INDUSTRIAL REVOLUTION)

SCIENTIFIC FIELDS: Media and socio-cultural communication

HOST DEPARTMENT: DAIS – Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Walter Quattrociochi

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 3.023.375,00	€ 223.162,50

ABSTRACT:

The EUMEPLAT project aims at analyzing the role of media platforms in fostering or dismantling European identity. The assumption we will draw on is that European dimension has rarely been dominant in media history. In most cases – i.e., movie – market shares are mainly divided among national productions and importations from the most influential country. In broadcasting both regional and national patterns emerge, with properly European exchanges being the exception more than the rule. Web platforms are usually owned by US companies, with a new threat appearing in our media landscape. We will focus on the “platformization” process, as the rise of new closed Web architectures, so as to inquire its positive and negative externalities, functional and dis-functional consequences. Positive externalities are beneficial to society at large, in a way that explains the overall ambition of the project. Detecting the insurgence of negative effects is a fundamental duty for scholars and policy-makers, as externalities of both kinds tend to reinforce themselves, giving rise to positive loop feedbacks and critical vicious circles. Negative externalities include misinformation, toxic debate, exclusion of independent voices; positive externalities encompass European co-productions, or practices able to bring people out of the information bubble. For this purpose, we will run a multidisciplinary analysis of platformization in three fields: news, video sharing, media representations, with the final goal to offer a theoretical synthesis. The research question is whether or not new platforms – YouTube, Netflix, NewsFeed - are making European culture more European, based on indicators related to production, consumption and representation. Patterns will be detected by comparing national, regional and European and level. Advanced methods will be applied for data analysis, so as to provide guidelines for decision-makers (i.e., fake news prevention; best practices in co-productions).

Planned Start date	Planned End date
01/03/2021	29/02/2024

PARTNERSHIP:

1.	LIBERA UNIVERSITA' DI LINGUE E COMUNICAZIONE	Italy	Coordinator
2.	RUHR-UNIVERSITAET BOCHUM	Germany	Partner
3.	NEW BULGARIAN UNIVERSITY	Bulgaria	Partner
4.	UNIMED - UNIONE DELLE UNIVERSITA DEL MEDITERRANEO	Italy	Partner
5.	FUNDACIO PER A LA UNIVERSITAT OBERTA DE CATALUNYA	Spain	Partner
6.	UNIVERSITEIT GENT	Belgium	Partner
7.	BILKENT UNIVERSITESI VAKIF	Turkey	Partner
8.	ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON	Greece	Partner
9.	Iscte - Instituto Universitário de Lisboa	Portugal	Partner
10.	UNIVERSITA CA' FOSCARI VENEZIA	Italy	Partner
11.	FORENINGEN IKED	Sweden	Partner
12.	UNIVERZITA KARLOVA	Czechia	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: ISEED - Inclusive Science and European Democracies

FUNDING PROGRAMME: H2020 SC6 - Europe in a changing world - Inclusive, innovative and reflective societies

CALL: H2020-SC6-GOVERNANCE-2018-2019-2020 (GOVERNANCE FOR THE FUTURE)

SCIENTIFIC FIELDS: Democratic engagement and civic participation

HOST DEPARTMENT: DFBC – Department of Philosophy and Cultural heritage

SCIENTIFIC RESPONSIBLE: Eleonora MONTUSCHI

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 2.723.287,00	€ 564.338,75

ABSTRACT:

The objective of ISEED is to identify, through an analysis of a variety of types of, and experiments in, public engagement on science-related questions and activities, generalizable characteristics and conditions that cultivate active and productive citizen participation in public deliberation. The aim is to construct a novel concept of 'deliberative participation' designed to enhance both the quality and the legitimacy of political decision-making, by focusing on the importance of knowledge-based deliberation. ISEED will build on and extend existing experience in the field of citizen science to explore the conditions under which participative and deliberative practices can be successfully implemented for the purpose of building forms of knowledge-based democratic governance complementary to political representation in democratic societies. ISEED combines theoretical analysis, empirical research, and small-scale experiments. It will reassess the role of the public sphere to include a novel notion of deliberative participation in a plurality of publics and counter publics. It will empirically explore how current practices of citizen participation in science can offer innovative methods to confront and overcome a number of current obstacles faced by democratic participation and decision making. It will develop a new tool to describe styles of argumentation in traditional and digital media and analyze the role of emotion and reason in polarised debates on contemporary scientific issues. The ISEED consortium, committed to multi and inter-disciplinary research, aims to deliver scalable results to foster deliberative democratic processes in Europe and other knowledge societies.

Planned Start date	Planned End date
1 st February 2021	31 st January 2024

PARTNERSHIP:

1. UNIVERSITA' CA' FOSCARI VENEZIA	Italy	Coordinator
2. UNIVERSITA DEGLI STUDI DI TRENTO	Italy	Partner
3. MUSEUM NATIONAL D'HISTOIRE NATURELLE	France	Partner
4. UNIWERSYTET WARSZAWSKI	Poland	Partner
5. NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU	Norway	Partner

6.	INSTYTUT ROZWOJU MIAST I REGIONOW	Poland	Partner
7.	FONDEN TEKNOLOGIRADET	Denmark	Partner
8.	UNIVERSITY COLLEGE DUBLIN	Ireland	Partner
9.	UNIVERSIDAD POMPEU FABRA	Spain	Partner
10.	APPLIED RESEARCH AND COMMUNICATIONS FUND	Bulgaria	Partner
11.	MINISTERIO DE EDUCACION Y CULTURA	Uruguay	Partner
12.	THE UNIVERSITY OF EXETER	United Kingdom	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: MEMEX - MEMories and EXperiences for inclusive digital storytelling

FUNDING PROGRAMME: H2020-SC6-TRANSFORMATIONS

CALL: H2020-SC6-TRANSFORMATIONS-2018-2019-2020

SCIENTIFIC FIELDS: Technological innovation, Cultural history, history of collective identities and memories

HOST DEPARTMENT: Centre for Cultural Heritage Technology (CCHT)

SCIENTIFIC RESPONSIBLE: Marcello Pelillo

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 3.995.036,25	€ 284.034

ABSTRACT:

MEMEX promotes social cohesion through collaborative, heritage-related storytelling tools that provide access to tangible and intangible Cultural Heritage (CH) for communities at risk of exclusion. The project implements new actions for social science to: understand the NEEDS of such communities and co-design interfaces to suit their needs; DEVELOP the audience through participation strategies; while increasing the INCLUSION of communities. The fruition of this will be achieved through ground breaking ICT tools that provide a new paradigm for interaction with CH for all end user. MEMEX will create new assisted Augmented Reality (AR) experiences in the form of stories that intertwine the memories (expressed as videos, images or text) of the participating communities with the physical places / objects that surround them. To reach these objectives, MEMEX develop techniques to (semi-)automatically link images to their LOCATION and connect to a new opensource Knowledge Graph (KG). The KG will facilitate assisted storytelling by means of clustering that links consistently user data and CH assets in the KG. Finally, stories will be visualised onto smartphones by AR on top of the real world allowing to TELL an engaging narrative. MEMEX will be deployed and demonstrated on three pilots with unique communities. First, Barcelona's Migrant Women, which raises the gender question around their inclusion in CH, giving them a voice to valorise their memories. Secondly, MEMEX will give access to the inhabitants of Paris's XIX district, one of the largest immigrant settlements of Paris, to digital heritage repositories of over 1 million items to develop co-authored new history and memories connected to the artistic history of the district. Finally, first, second and third generation Portuguese migrants living in Lisbon will provide insights on how technology tools can enrich the lives of the participants.

Planned Start date	Planned End date
December 2019	36 months

PARTNERSHIP:

1. FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA , the Coordinator	Italy	Coordinator
2. MAPILLARY AB	Sweden	Partner
3. ARDITI - AGENCIA REGIONAL PARA O	Portugal	Partner

DESENVOLVIMENTO DA INVESTIGACAO, TECNOLOGIA E INOVACAO - ASSOCIACAO		
4. NOHO LIMITED	Ireland	Partner
5. EY ADVISORY SPA	Italy	Partner
6. MICHAEL CULTURE	Belgium	Partner
7. FUNDACIO INTERARTS PER A LA COOPERACIO CULTURAL INTERNACIONAL	Spain	Partner
8. ECCOM CENTRO EUROPEO PER L'ORGANIZZAZIONE E IL MANAGEMENT CULTURALE - EUROPEAN CENTRE FOR CULTURAL ORGANISATION AND MANAGEMENT ASSOCIAZIONE	Italy	Partner
9. MAPA DAS IDEIAS - EDICOES DE PUBLICACOES LDA	Portugal	Partner
10. UNIVERSITA CA' FOSCARI VENEZIA	Italy	Third party



Università Ca'Foscari Venezia

PROJECT ACRONYM AND TITLE: NETCHER - NETwork and digital platform for Cultural Heritage Enhancing and Rebuilding

FUNDING PROGRAMME: Horizon 2020 - Societal Challenge 6

CALL: H2020-SC6-TRANSFORMATIONS-2018-2019-2020

SCIENTIFIC FIELDS: SU-TRANSFORMATIONS-09-2018

HOST DEPARTMENT: DSU – Dipartimento di Studi Umanistici (CCHT and Fondazione Ca' Foscari as Linked third party)

SCIENTIFIC RESPONSIBLE: Cristina Tonghini (Arianna Traviglia, CCHT@Ca' Foscari)

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1.499.606,25	€ 240.817,50

ABSTRACT:

The last decades have witnessed a variety of initiatives promoted by a diverse set of actors engaged in the protection of endangered cultural heritage and in stopping illicit trade, initiatives that have tried to bring solutions, remediation, methods and approaches to tackle looting and trafficking. NETCHER seeks to address the complex challenge of harmonising and bringing together these worthy, but often disconnected initiatives by using a participative approach that will result in the establishment of a structured network (defined as a Social Platform) drawing together a broad range of players such as international bodies, umbrella organizations, national governments, researchers, public policy makers, NGOs, as well as public and private foundations. In light of the significance of these uncoordinated efforts, the Platform will take charge of the systematizing and framing of all the emerging best practices in order to enhance and capitalize on the experiences of the partnership members at an international level for building a joint action plan with shared toolkits and a research and innovation roadmap.

Planned Start date	Planned End date
1 st January 2019	31 th December 2020

PARTNERSHIP:

1 Centre National De La Recherche Scientifique Cnrs	Paris (FR)	Coordinator
2 Università Ca' Foscari Venezia	Venezia (IT)	Partner
3 Deutsches Archäologisches Institut	Berlin (DE)	Partner

4	Ecole Nationale Superieure De La Police	Saint-Cyr-au-Mont-d'Or (FR)	Partner
5	Capital High Tech Sarl	Castelnau Sur Gupie (FR)	Partner
6	Fundacio Interarts Per A La Cooperacio Cultural Internacional	Barcelona (ES)	Partner
7	Michael Culture	Brussels (BE)	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: SmartCulTour - Smart Cultural Tourism as a Driver of Sustainable Development of European Regions

FUNDING PROGRAMME: H2020-SC6-TRANSFORMATIONS

CALL: H2020-SC6-TRANSFORMATIONS-2018-2019-2020

SCIENTIFIC FIELDS: Cultural tourism, Sustainable urban and regional development,

HOST DEPARTMENT: DEC - Department of Economics

SCIENTIFIC RESPONSIBLE: Nicola Camatti

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 2.980.000,50	€ 290.000,25

ABSTRACT:

SmartCulTour aims to support regional development in European regions, with special attention to rural peripheries and the urban fringe, through sustainable cultural tourism. The project redefines cultural tourism through a contemporary lens and provides a comprehensive measurement framework for supply, demand and impacts. In order to support knowledge-led destination management, a decision-support system (DSS) will be developed for wide-scale monitoring purposes across European regions. The DSS will synthesize both traditional and non-traditional data sources, the latter particularly related to big data analytics, thereby assisting smart regional development. Besides a contribution to conceptual development and cultural tourism measurement, the main objective of SmartCulTour relates to the facilitation of community-led rural development through field experimentation in 6 living labs. Prior to these living labs, a comprehensive desk research will identify significant sustainable cultural tourism policies, their impacts and critical success factors. These best cases will inspire a series of possible local interventions. Within the living labs, novel creative approaches to stakeholder engagement are tested, notably arts-based methods, serious games, and service design which will help to provide local context and support. A toolkit will be designed to help destinations implement local actions towards sustainable cultural tourism development. SmartCulTour will therefore contribute to theory development, empirical validation of best practices within a living labs setting, and procedural development, particularly by providing European regions with a set of strategies to optimally engage with stakeholders and co-create sustainable cultural tourism experiences.

Planned Start date	Planned End date
01/01/2020	31/12/2024

PARTNERSHIP:

1. KATHOLIEKE UNIVERSITEIT LEUVEN, the Coordinator	Belgium	Coordinator
2. STICHTING BREDA UNIVERSITY OF APPLIED SCIENCES	Netherlands	Partner
3. LAPIN YLIOPISTO	Finland	Partner

4.	UNIVERSITY OF SPLIT, FACULTY OF ECONOMICS, BUSINESS AND TOURISM	Croatia	Partner
5.	UNIVERSITA CA' FOSCARI VENEZIA	Italy	Partner
6.	MODUL UNIVERSITY VIENNA GMBH	Austria	Partner
7.	UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION -UNESCO	France	Partner
8.	Mediterranean Agronomic Institute of Zaragoza / International Centre for Advanced Mediterranean Agronomic Studies	Spain	Partner
9.	TOERISME VLAANDEREN	Belgium	Partner
10.	QUANTITAS SRL	Italy	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: VULNER - Vulnerabilities under the Global Protection Regime: how does the law assess, address, shape, and produce the vulnerabilities of protection seekers?

FUNDING PROGRAMME: H2020-SC6-MIGRATION

CALL: H2020-SC6-MIGRATION-2018-2019-2020

SCIENTIFIC FIELDS: Migrations

HOST DEPARTMENT: DFBC - Dipartimento di Filosofia e Beni Culturali

SCIENTIFIC RESPONSIBLE: Sabrina Marchetti

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 3.194.775,00	€ 399.923,75

ABSTRACT:

'Vulnerability' is increasingly used as a conceptual tool to guide the design and implementation of the global protection regime, as illustrated by the 2016 New York Declaration for Refugees and Migrants and the subsequent adoption of the Global Compact for Safe, Orderly and Regular Migration and of the final draft of the Global Compact on Refugees. However, 'vulnerability' lacks a sharp conceptualisation and still needs to be accompanied by a thorough understanding of its concrete meanings, practical consequences and legal implications. This research project aims to address these uncertainties from a critical and comparative perspective, with a focus on forced migration. It will provide a comprehensive analysis of how the 'protection regimes' of select countries address the vulnerabilities of 'protection seekers'. The select countries are in Europe (Belgium, Germany, Italy, Norway), North America (Canada), the Middle East (Lebanon) and Africa (Uganda and South Africa). The analysis adopts two different yet complementary perspectives. First, the way the 'vulnerabilities' of the protection seekers are being assessed and addressed by the relevant norms and in the practices of the decision makers will be systematically documented and analysed through a combination of legal and empirical data. Second, the various forms and nature of the concrete experiences of 'vulnerability' as they are lived by the protection seekers, including the resilience strategies and how they are being continuously shaped in interactions with the legal frameworks, will be documented and analysed through empirical data collected during fieldwork research. Ultimately, the very notion of 'vulnerability' will be questioned and assessed from a critical perspective. An alternative concept, such as 'precarity', may be suggested to better reflect the concrete experiences of the protection seekers.

Planned Start date	Planned End date
01/02/2020	31/01/2023

PARTNERSHIP:

1. MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV, the Coordinator	Germany	Coordinator
2. UNIVERSITE CATHOLIQUE DE LOUVAIN	Belgium	Partner
3. MARTIN-LUTHER-UNIVERSITAET HALLE-WITTENBERG	Germany	Partner

4. UNIVERSITA CA' FOSCARI VENEZIA	Italy	Partner
5. INSTITUTT FOR SAMFUNNSFORSKNING	Norway	Partner
6. UNIVERSITY OF OTTAWA	Canada	Partner
7. ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING MCGILL UNIVERSITY	Canada	Partner
8. YORK UNIVERSITY	Canada	Partner
9. Centre for Lebanese Studies	United Kindom	Partner



Università
Ca' Foscari
Venezia

HORIZON 2020

Transversal Programmes

Science with and for Society



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: EQUAL-IST - Gender Equality Plans for Information Sciences and Technology Research Institutions.

FUNDING PROGRAMME: Horizon 2020 – Science with and for society

CALL: H2020-GERI-2015-1

SCIENTIFIC FIELD : Social Science and Humanities – Gender Studies

HOST DEPARTMENT/CENTRE : Departement of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Agostino CORTESI

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1.857.217,50	€ 289.850,00

ABSTRACT:

EQUAL-IST aims at introducing structural changes to enhance gender equality within Information Systems and Technology Research institutions, which have been demonstrated to be among the research sectors most affected by gender inequalities at all levels. The project aims at supporting seven RPOs from Northern, Southern and Central European countries plus a CSI country, in developing and implementing Gender Equality Action Plans. All the 7 RPOs of the EQUALIST consortium are at a starting stage in the setting up of GEPs and they have also ensured the support of the highest management levels both from their faculties and university as whole. The project will combine gender mainstreaming and positive actions on 3 main levels: HR practices and management processes, research design and delivery, student services and institutional communication. For addressing and solving issues of horizontal and vertical segregation in research and administrative careers, work life balance, gender neutral-blind approaches to IST research, gender gaps in students' enrollment, EQUAL-IST will try to operate at the same time on organizational structures, discourses and behaviors.

In addition, EQUAL-IST will promote a participatory approach towards Gender Equality Policies based on co-design and at the same time ensuring the active dialogue with and involvement of top decision makers at the partner RPOs. By setting up a dedicated crowdsourcing- online collaborative platform the project will support both the initial internal assessment of the RPOs and the GEPs design process. EQUAL-IST toolkits and guidelines, lessons learned and used methodologies will be disseminated broadly in Europe and other CSI countries with a communication strategy focused on IST Research Institutions and RFOs and through collaboration with the EURAXESS network, in order to support ERA objectives in relation to gender equality in research.

Planned Start date	Planned End date
1 June 2016	31 May 2019

PARTNERSHIP:

1	VILABS OE	Greece	Lead Partner/Coordinator
2	UNIVERSITA' CA' FOSCARI VENEZIA	Italy	Partner
3	WESTFAELISCHE WILHELMSUNIVERSITAET MUENSTER	Germany	Partner
4	UNIVERSITAT LIECHTENSTEIN	Liechtenstein	Partner
5	TURUN YLIOPISTO	Finland	Partner
6	KAUNO TECHNOLOGIJOS UNIVERSITETAS	Lithuania	Partner
7	UNIVERSITA DEGLI STUDI DI MODENA E REGGIO EMILIA	Italy	Partner
8	UNIVERSIDADE DO MINHO	Portugal	Partner
9	SIMON KUZNETS KHARKIV NATIONAL UNIVERSITY OF ECONOMICS	Ukraine	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: QUEST - QQuality and Effectiveness in Science and Technology communication

FUNDING PROGRAMME: H2020 Science with and for Society

CALL: H2020-SwafS-19-2018-2019

SCIENTIFIC FIELDS: Science of complex economic, human and natural systems

HOST DEPARTMENT: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Fabiana Zollo

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1,194,227.50	€ 168,431.25

ABSTRACT:

Science Communication (SciCom) plays a key role in addressing today's societal challenges. To be effective, it must be conceived as multi-directional communication, involving scientists, policy-makers, journalists, other communications actors and citizens. On one side, scientists produce research results but are not always equipped to communicate efficiently to the public and to policy-makers. On the other, journalists and other communications actors act as the interface between science, citizens and other audiences, although they may face challenges in fully comprehending the scientific message. Citizens will have a varied perception of the information received but limited knowledge and tools impeding a qualitative assessment. The variety of means of communication existing today makes communications faster and easier, but that increases the complexity of these interactions and the challenge to communicate "sound" science. We also need to consider that much of today SciCom passes through the digital sphere, as the advent of digitalization has changed the way in which information flows and opinions are shaped, also regarding science. Social media are one of the key representatives of these modern means of communication, deserving a special focus. In this context, the challenge faced by SciCom is in finding effective, non-hierarchical ways to exchange these diverse forms of knowledge, by making SciCom stakeholders interact in a constructive way through the different media. QUEST aims at facing this challenge with a multi-step approach that will: (1) understand the dynamics of today SciCom (2) design tools to evaluate SciCom quality (3) experiment best practices and proposing innovative ways for SciCom (4) promote SciCom training (5) build an engaging SciCom community. The focus will be on (a) journalism (b) Social media (c) Museums, recognized as having the highest impact in this context. Climate change, vaccines and Artificial Intelligence are used as case studies.

Planned Start date	Planned End date
01/01/2019	31/01/2021

PARTNERSHIP:

1	VENICE INTERNATIONAL UNIVERSITY	Italy	Coordinator
2	UNIVERSITA CA' FOSCARI VENEZIA	Italy	Partner
3	NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU	Norway	Partner
4	CITY UNIVERSITY OF LONDON	United Kingdom	Partner
5	TALLINN UNIVERSITY	Estonia	Partner
6	WAN-IFRA FR	France	Partner
7	THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN	Ireland	Partner
8	AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA	Italy	Partner



Università
Ca'Foscari
Venezia

HORIZON 2020

Green deal call



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: Reachout - Resilience In Europe Through Activating City Hubs Reaching Out To Users With Triple-A Climate Adaptation Tools

FUNDING PROGRAMME: H2020 Green Deal Call

CALL: H2020-LC-GD-2020

HOST DEPARTMENT: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Francesco Bosello

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 4.998.860,00	€ 30.000

ABSTRACT:

REACHOUT will advance Climate Services for urban environments in 7 City Hubs across Europe, developing adaptation strategies integrated in climate resilient urban development. Our climate services will be tailored, visualized and presented in attractive climate story maps. In a series of City Hub workshops, we build up the narratives through engagement with municipalities within the region, citizens and the private sector. Not reinventing the wheel we implement an approach based on proven success in many cities across the world. The underlying Triple-A approach has been successfully applied in the Dutch National Spatial Adaptation program reaching most municipalities in the Netherlands. We will enrich and improve the Triple-A approach unlocking the potential of EU datasets and tools established by earlier H2020, Copernicus, GEOSS & JRC activities. We will improve existing tools and services through an agile development process, enhancing relevance by including possibilities for crowd sourcing and engagement of citizens and private sector. City Hubs apply the toolkit and provide the platforms for co-creation.

Planned Start date	Planned End date
1 st October 2021	1 st October 2025

PARTNERSHIP:

1	Stichting Deltares	Netherlands	Coordinator
2	Stichting Climate Adaptation Services	Netherlands	Partner
3	Stichting Vu	Netherlands	Partner
4	Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici	Italy	Partner
5	Stiftelsen Norges Geotekniske Institutt	Norway	Partner
6	ECOLOGIC INSTITUT Gemeinnützige GmbH	Germany	Partner
7	Fundacion Tecnalia Research & Innovation	Spain	Partner

8	Stichting Global Resilient Cities Network	Netherlands	Partner
9	University College Cork - National University Of Ireland, Cork	Ireland	Partner
10	Fundacja Sendzimira	Poland	Partner
11	Cork City Council	Ireland	Partner
12	Dimos Athinaion	Greece	Partner
13	Lillestrom Kommune	Norway	Partner
14	Comune Di Milano	Italy	Partner
15	Ayuntamiento De Logrono	Spain	Partner
16	Miasto Gdynia	Poland	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: Large scale RESToration of COASTal ecosystems through rivers to sea connectivity

FUNDING PROGRAMME: HORIZON 2020

CALL: Green Deal Call 2020

HOST DEPARTMENT: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Critto Andrea

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 17.823.756,00	€170.000,00

ABSTRACT:

REST COAST will demonstrate to what extent upscaled coastal restoration can provide a low-carbon adaptation, reducing risks and providing gains in biodiversity for vulnerable coastal ecosystems, such as wetlands or sea grass beds. By overcoming present technical, economic, governance and social barriers to restoration upscaling, REST COAST will develop the large-scale river-coast connectivity and increase the nearshore accommodation space for the resilient delivery of coastal ecosystem services (ESS). Theselected ESS (risk reduction, environmental quality and fish provisioning) touch urgent coastal problems such as the erosion/flooding during recent storms or the accelerating coastal habitat degradation that seriously affects fisheries and aquaculture. By enhancing these ESS under present and future climates at 9 Pilots that represent the main EU regional seas (Baltic, Black, North, Atlantic and Mediterranean) we shall increase the commitment of citizens, stakeholders and policy makers for a long-term maintenance of restoration. Such commitment will go together with a transformation of governance and financial structures, supported by evidence-based results on restoration benefits for the welfare of coastal societies and assets. This transformation will build upon the results from hands-on restoration at the Pilots, steered by the multidisciplinary project advances. Combining new techniques, risk assessments, innovative financial/governance arrangements and homogeneous metrics for ESS and biodiversity, REST-COAST will develop a systemic approach to coastal restoration based on a scalable coastal adaptation plan. The plan will underpin a transformative change in governance and policies, proving the importance of the coastal dimension in the EU Green Deal for

Planned Start date	Planned End date
1 st October 2021	28 th February 2026

PARTNERSHIP:

1 CY Paris University	Paris (FR)	Coordinator
2 Università Ca' Foscari	Venezia (IT)	Partner
3 POLITECNICA DE CATALUNYA	Cataluña (ES)	Partner
4 FUNDACIO EURECAT	Cataluña (ES)	Partner
5 GCF - GLOBAL CLIMATE FORUM EV	Berlin (DE)	Partner
6 STICHTING DELTARES	Delft (NL)	Partner
7 INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT	Paris (FR)	Partner
8 UNION INTERNATIONALE POUR LA CONSERVATION DE LA NATURE ET DE SES RESSOURCES	Gland (CH)	Partner
9 PENSOFT PUBLISHERS	Sofia (BG)	Partner
10 ALBIREM SUSTAINABILITY, S.L.	Barcelona (ES)	Partner
11 UNIVERSIDAD POLITECNICA DE MADRID	Madrid (ES)	Partner
12 Departament de Territori i Sostenibilitat - Generalitat de Catalunya	Catalunya (ES)	Partner
13 Dirección General de la Costa y el Mar	Madrid (ES)	Partner
14 CONSORCIO CENTRO INTERNACIONAL DE INVESTIGACION DE LOS RECURSOS COSTEROS	Cataluña (ES)	Partner
15 HELMHOLTZ-ZENTRUM GEESTHACHT ZENTRUM FÜR MATERIAL- UND KÜSTENFORSCHUNG GMBH	Geesthacht (DE)	Partner
16 Niedersächsischer Landesbetrieb für Wasserwirtschaft, Küsten- und Naturschutz	Berlin (DE)	Partner
17 FONDAZIONE CENTRO EURO-MEDITERRANEO SUI CAMBIAMENTI CLIMATICI	Lecce (IT)	Partner
18 CORILA - CONSORZIO PER IL COORDINAMENTO DELLE RICERCHE INERENTI AL SISTEMA LAGUNARE DI VENEZIA	Venezia (IT)	Partner
19 Provveditorato Interregionale alle Opere Pubbliche per il Veneto - Trentino Alto Adige - Friuli Venezia Giulia	Venezia (IT)	Partner



Ca' Foscari
University
of Venice

PROJECT ACRONYM AND TITLE: WaterLANDS: Water-based solutions for carbon storage, people and wilderness

FUNDING PROGRAMME: H2020 Green Deal Call

CALL: LC-GD-7-1-2020: Restoring biodiversity and ecosystem services

HOST DEPARTMENT: Department of Economics

SCIENTIFIC RESPONSIBLE: Carlo Giupponi

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 23.068.483,00	€ 517.205,00

ABSTRACT:

WaterLANDS aims to enable an upscaling of the restoration of wetlands. Socio-economic factors, insufficient stakeholder engagement, lack of government commitment, lack of funding and inadequate exchange of knowledge of restoration methods have all been identified as barriers to successful restoration. Consequently, most restoration has been modest in scale, has occurred mainly where there is a single landowner or responsible organisation, and has often been undertaken principally for reasons of conservation. WaterLANDS will work to overcome these barriers. It includes both Action and Knowledge Sites, the former being the object of restoration upscaling, and the latter a source of best practice experience and knowledge. To provide for local support and sustainability, it will aim for the co-design of restoration with the on-going engagement of communities and stakeholders. It will investigate best practice in ecological restoration which meets both biodiversity and social objectives and for which restoration trajectories are specific to the physical and cultural context of the Action Sites. It will propose supportive governance structures appropriate to this process and to local and national circumstances. It will identify business models, economic incentives and international funding sources and tailor or direct these resources for each site. The project will pull this expertise and knowledge together in a co-creation work package. Process-indicators will be developed to enable on-going assessment of restoration success in terms of ecosystem services, socioeconomic embedding and financial sustainability, to ensure wide-scale restoration which catalyses scalability beyond the life of the WaterLANDS project.

Planned Start date	Planned End date
01/12/2021	30/11/2026

PARTNERSHIP:

1	University College Dublin, National University Of Ireland, Dublin	Ireland	Coordinator
2	National University Of Ireland Galway	Ireland	Partner
3	Department Of Housing, Local Government And Heritage	Ireland	Partner
4	Irish Rural Link	Ireland	Partner
5	Erinn Innovation Limited	Ireland	Partner
6	Umweltorganisation Wwf Central Andeastern Europe	Austria	Partner
7	Prospex Institute	Belgium	Partner
8	Wwf Bulgaria	Bulgaria	Partner
9	Stolichna Obshtina	Bulgaria	Partner
10	Tartu Ulikool	Estonia	Partner
11	Sihtasutus Eestimaa Looduse Fond	Estonia	Partner
12	Riigimetsa Majandamise Keskus	Estonia	Partner
13	Tootsi Turvas As	Estonia	Partner
14	Ita-Suomen Yliopisto	Finland	Partner
15	Geologian Tutkimuskeskus	Finland	Partner
16	Plan Bleu Pour L'environnement Et Le Developpement En Mediterranee	France	Partner
17	Fondation Tour Du Valat	France	Partner
18	Succow Stiftung	Germany	Partner
19	Universita Ca' Foscari Venezia	Italy	Partner
20	We Are Here Venice	Italy	Partner
21	Wageningen University	Netherlands	Partner
22	Stichting Wetlands International	Netherlands	Partner
23	Stichting Katholieke Universiteit	Netherlands	Partner
24	Provincie Groningen	Netherlands	Partner
25	Staatsbosbehee	Netherlands	Partner
26	Centrum Ochrony Mokradel	Poland	Partner
27	Uniwersytet Warszawski	Poland	Partner

28 Agencia Estatal Consejo Superior Deinvestigaciones Cientificas	Spain	Partner
29 Uppsala Universitet	Sweden	Partner
30 Natural England	United Kingdom	Partner
31 Scottish Wildlife Trust	United Kingdom	Partner
32 University Of Leeds	United Kingdom	Partner