European Commission

Press briefing

European Green Deal call kick-off event on Wednesday 27

October, 13:00-14:00 CEST

Annex I

Horizon 2020 European Green Deal Call

Funded projects

Research and Innovation

Horizon 2020 European Green Deal Call - Funded projects

I. SUMMARY of projects :

Project number	Acronym	Type of Action	Total cost	EU Contribution	TITLE
Topic : LC-GD-1-1-2020 - Preventing and fighting extreme wildfires with the integration and demonstration of innovative means					
101037247	SILVANUS	Innovation Action	€ 24.624.444	€ 19.902.191	Integrated Technological and Information Platform for wildfire Management
101036926	DRYADS	Innovation Action	€ 22.820.208	€ 19.290.661	A Holistic Fire Management Ecosystem for Prevention, Detection and Restoration of Environmental Disasters
101037419	FIRE-RES	Innovation Action	€ 21.543.629	€ 19.896.391	Innovative technologies and socio-ecological-economic solutions for fire resilient territories in Europe.
101036534	FIRELOGUE	Coordination and Support Action	€ 3.259.371	€ 3.259.371	Cross-sector dialogue for Wildfire Risk Management
			€ 72.247.652	**€ 62.348.613**	
Topic : LC-GD-1-2-2020 Towards climate neutral and socially innovative cities					
101036519	NetZeroCities	Research and Innovation Action	€ 53.054.660	€ 52.996.761	Accelerating cities' transition to net zero emissions by 2030
			€ 53.054.660	**€ 52.996.761**	
Topioc : LC-GD-1-3-2020 Climate-resilient innovation packages for EU regions					
101037424	ARSINOE	Innovation Action	€ 15.643.021	€ 14.834.278	CLIMATE RESILIENT-REGIONS THROUGH SYSTEMIC SOLUTIONS AND INNOVATIONS
101037084	IMPETUS	Innovation Action	€ 16.224.769	€ 14.872.468	DYNAMIC INFORMATION MANAGEMENT APPROACH FOR THE IMPLEMENTATION OF CLIMATE RESILIENT ADAPTATION PACKAGES IN EUROPEAN REGIONS
101036683	TransformAr	Innovation Action	€ 12.730.323	€ 11.872.257	Accelerating and upscaling transformational adaptation in Europe: demonstration of water-related innovation packages
101036560	REGILIENCE	Coordination and Support Action	€ 2.994.473	€ 2.994.473	Resilience Strategies for Regions
			€ 47.592.585,00	**€ 44.573.475,01**	

Project number	Acronym	Type of Action	Total cost	EU Contribution	TITLE
Topic : LC-GD-2-1-2020 Innovative land-based and offshore renewable energy technologies and their integration into the energy system					
101036457	EU-SCORES	Innovation Action	€ 46.069.294	€ 34.831.484	European Scalable Complementary Offshore Renewable Energy Sources
101037125	FORWARD-2030	Innovation Action	€ 27.987.219	€ 21.648.116	Fast-tracking Offshore Renewable energy With Advanced Research to Deploy 2030MW of tidal energy before 2030
101036656	HYPERGRYD	Research and Innovation Action	€ 5.992.875	€ 5.992.875	Hybrid coupled networks for thermal-electric integrated smart energy Districts
101037085	Bio-FlexGen	Research and Innovation Action	€ 5.984.698	€ 5.984.698	Highly-efficient and flexible integration of biomass and renewable hydrogen for low-cost combined heat and power generation to the energy system.
101036766	RESTORE	Research and Innovation Action	€ 5.667.736	€ 5.667.736	Renewable Energy based seasonal Storage Technology in Order to Raise Economic and environmental sustainability of DHC
			€ 91.701.822	**€ 74.124.908**	
Topic : LC-GD-2-2-2020 Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and industrial applications					
101036970	REFHYNE II	Innovation Action	€ 147.365.995	€ 32.431.618	Clean Refinery Hydrogen for Europe II
101036935	GreenHyScale	Innovation Action	€ 52.982.524	€ 30.000.000	100 MW Green hydrogen production in a replicable and scalable industrial hosting environment
101036908	GREENH2SINES (GREENH2ATLANTIC)	Innovation Action	€ 76.614.020	€ 30.000.000	A 100 MW FLEXIBLE GREEN HYDROGEN PRODUCTION PROCESS SOURCING HYBRID RENEWABLE ENERGY AND SUPPLYING GREEN HYDROGEN TO MULTIPLE END-USES
			€ 200.348.519	**€ 92.431.618**	
Topic : LC-GD-2-3-2020 Accelerating the green transition and energy access partnership with Africa					
101037141	SESA	Innovation Action	€ 10.209.988	€ 9.989.133	Smart Energy Solutions for Africa
101036836	SophiA	Innovation Action	€ 8.407.220	€ 7.382.135	SUSTAINABLE OFF-GRID SOLUTIONS FOR PHARMACIES AND HOSPITALS IN AFRICA
101037428	ENERGICA	Innovation Action	€ 12.241.301	€ 9.999.370	ENERGy access and green transition collaboratively demonstrated in urban and rural areas in AfrICA
101036401	SteamBioAfrica	Innovation Action	€ 11.725.329	€ 9.937.771	Innovative Large-Scale Production of Affordable Clean Burning Solid Biofuel and Water in Southern Africa: transforming bush encroachment from a problem into a secure and sustainable energy source
101036900	REFFECT AFRICA	Innovation Action	€ 8.093.651	€ 6.962.821	RENEWABLE ENERGIES FOR AFRICA: EFFECTIVE VALORIZATION OF AGRI-FOOD WASTES
			€ 50.677.489	**€ 44.271.230**	

Project number	Acronym	Type of Action	Total cost	EU Contribution	TITLE
Topic : LC-GD-3-1-2020 Closing the industrial carbon cycle to combat climate change					
101037009	PYROCO2	Innovation Action	€ 43.887.818	€ 39.999.561	Demonstrating sustainable value creation from industrial CO2 by its thermophilic microbial conversion into acetone
101037389	ECO2Fuel	Innovation Action	€ 20.095.545	€ 16.620.616	LARGE-SCALE LOW-TEMPERATURE ELECTROCHEMICAL CO2 CONVERSION TO SUSTAINABLE LIQUID FUELS
			€ 63.983.363	**€ 56.620.177**	
Topic : LC-GD-3-2-2020 Demonstration of systemic solutions for the territorial deployment of the circular economy					
101036428	EcoeFISHent	Innovation Action	€ 18.583.668	€ 15.170.720	Demonstrable and replicable cluster implementing systemic solutions through multilevel circular value chains for eco-efficient valorization of fishing and fish industries side-streams
101036838	Agro2Circular	Innovation Action	€ 16.846.033	€ 14.074.828	TERRITORIAL CIRCULAR SYSTEMIC SOLUTION FOR THE UPCYCLING OF RESIDUES FROM THE AGRIFOOD SECTOR
101037031	FRONTSH1P	Innovation Action	€ 18.968.453	€ 16.118.418	A FRONTrunner approacTransition to a circular & resilient future: deployment of systemic solutions with the support of local clusters and the development of regional community-based innovation schemes
101036854	CIRCULAR FOAM	Innovation Action	€ 19.192.150	€ 15.756.499	Systemic expansion of territorial CIRCULAR Ecosystems for end-of-life FOAM
			€ 73.590.303	**€ 61.120.465**	
Topic : LC-GD-4-1-2020 Building and renovating in an energy and resource efficient way					
101036723	ARV	Innovation Action	€ 21.275.779	€ 19.998.411	Climate Positive Circular Communities
101037080	oPEN Lab	Innovation Action	€ 21.799.483	€ 19.920.874	Open innovation living labs for Positive Energy Neighbourhoods
101037075	PROBONO	Innovation Action	€ 25.252.011	€ 20.158.489	The Integrator-centric approach for realising innovative energy efficient buildings in connected sustainable green neighbourhoods
			€ 68.327.273	**€ 60.077.774**	
Topic : LC-GD-5-1-2020 Green airports and ports as multimodal hubs for sustainable and smart mobility					
101036871	OLGA	Innovation Action	€ 34.006.427	€ 24.991.644	OLympics & Green Airports
101037053	STARGATE	Innovation Action	€ 32.762.940	€ 24.816.122	SusTainable AiRports, the Green heArT of Europe
101037564	PIONEERS	Innovation Action	€ 33.709.981	€ 24.999.997	PORTable Innovation Open Network for Efficiency and Emissions Reduction Solutions
101036594	MAGPIE	Innovation Action	€ 30.764.355	€ 24.964.564	sMArt Green Ports as Integrated Efficient multimodal hubs

Project number	Acronym	Type of Action	Total cost	EU Contribution	TITLE
101036996	TULIPS	Innovation Action	€ 31.796.273	€ 24.997.763	DemonsTrating lower pollUting soLutions for sustaInable airPorts acrosS Europe
			€ 163.039.975	**€ 124.770.090**	
Topic : LC-GD-6-1-2020 Testing and demonstrating systemic innovations for sustainable food from farm to fork					
101037128	PestNu	Innovation Action	€ 7.438.050	€ 6.000.960	Field -testing and demonstration of digital and space based technologies with agro-ecological and organic practices in systemic innovation
101036388	ZeroW	Innovation Action	€ 12.932.881	€ 11.999.734	Systemic Innovations Towards a Zero Food Waste Supply Chain
101036763	SchoolFood4Change	Innovation Action	€ 12.284.816	€ 12.200.425	Shifting school meals and schools into a new paradigm by addressing public health and territorial, social and environmental resilience
101036822	ClieNFarms	Innovation Action	€ 13.639.536	€ 11.999.974	Climate Neutral Farms
101036588	ENOUGH	Innovation Action	€ 11.531.641	€ 11.022.996	European food chain supply to reduce GHG emissions by 2050
101036768	NeoGiANT	Innovation Action	€ 9.329.509	€ 8.374.692	The power of grape extracts: antimicrobial and antioxidant properties to prevent the use of antibiotics in farmed animals
101037796	SISTERS	Innovation Action	€ 10.124.750	€ 8.362.549	Systemic Innovations for a SusTainable reduction of the EuRopean food waStage
			€ 77.281.184	**€ 69.961.329**	
Topic : LC-GD-7-1-2020 Restoring biodiversity and ecosystem services					
101036337	MERLIN	Innovation Action	€ 22.034.618	€ 21.245.939	Mainstreaming Ecological Restoration of freshwater-related ecosystems in a Landscape context: INnovation, upscaling and transformation
101036484	WaterLANDS	Innovation Action	€ 23.631.576	€ 23.068.483	Water-based solutions for carbon storage, people and wilderness
101036849	SUPERB	Innovation Action	€ 22.294.356	€ 19.996.256	Systemic solutions for upscaling of urgent ecosystem restoration for forest related biodiversity and ecosystem services
101037097	REST-COAST	Innovation Action	€ 18.482.593	€ 17.823.756	Large scale RESToration of COASTal ecosystems through rivers to sea connectivity
			€ 86.443.143	**€ 82.134.434**	
Topic : LC-GD-8-1-2020 Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals					
101037509	SCENARIOS	Research and Innovation Action	€ 11.985.716	€ 11.985.716	Strategies for health protection, pollution Control and Elimination of Next generAtion RefractIve Organic chemicals from the Soil, vadose zone and water
101036449	PROMISCES	Research and Innovation Action	€ 11.995.414	€ 11.995.414	Preventing Recalcitrant Organic Mobile Industrial chemicalS for Circular Economy in the Soil-sediment-water system
101036756	ZeroPM	Research and Innovation Action	€ 11.627.139	€ 11.627.139	ZeroPM: Zero pollution of Persistent, Mobile substances
			€ 35.608.269	**€ 35.608.269**	

Project number	Acronym	Type of Action	Total cost	EU Contribution	TITLE
Topic : LC-GD-8-2-2020 Fostering regulatory science to address chemical and pharmaceutical mixtures: from science to evidence-based policies					
101036631	PANORAMIX	Research and Innovation Action	€ 4.471.093	€ 4.471.093	Providing risk assessments of complex real-life mixtures for the protection of Europe?s citizens and the environment
101036702	LIFESAVER	Research and Innovation Action	€ 6.136.513	€ 6.136.512	Living Impact on Fetal Evolution: Shelter-Analyze-Validate-Empower Regulations
101037090	ALTERNATIVE	Research and Innovation Action	€ 5.499.758	€ 5.499.757	environmentAL Toxicity chEmical mixtuRes through aN innovative platform based on aged cardiac tissue model
			€ 16.107.363	**€ 16.107.362**	
Topic : LC-GD-9-1-2020 European Research Infrastructures' capacities and services to address European Green Deal challenges					
101037319	PAUL	Research and Innovation Action	€ 12.999.999	€ 12.999.999	Pilot Application in Urban Landscapes ? towards integrated city observatories for greenhouse gases
101036910	StoRIES	Research and Innovation Action	€ 6.999.980	€ 6.999.980	Storage Research Infrastructure Eco-System
101036245	RI-URBANS	Research and Innovation Action	€ 8.000.000	€ 8.000.000	Research Infrastructures Services Reinforcing Air Quality Monitoring Capacities in European Urban & Industrial AreaS (RI-URBANS)
			€ 27.999.979	**€ 27.999.979**	
Topic : LC-GD-9-2-2020 Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation					
101036458	LOCALISED	Research and Innovation Action	€ 5.083.700	€ 5.083.700	Localised decarbonisation pathways for citizens, local administrations and businesses to inform for mitigation and adaptation action
101036814	CityCLIM	Research and Innovation Action	€ 4.997.790	€ 4.997.790	NEXT GENERATION CITY CLIMATE SERVICES USING ADVANCED WEATHER MODELS AND EMERGING DATA SOURCES
101037293	I-CISK	Research and Innovation Action	€ 4.998.823	€ 4.998.823	Innovating Climate services through Integrating Scientific and local Knowledge
101036599	REACHOUT	Research and Innovation Action	€ 4.998.860	€ 4.998.860	RESILIENCE IN EUROPE THROUGH ACTIVATING CITY HUBS REACHING OUT TO USERS WITH TRIPLE-A CLIMATE ADAPTATION TOOLS
101037104	RethinkAction	Research and Innovation Action	€ 4.999.818	€ 4.999.818	CRoss-sEcToral planning decisIoN-maKing platform to foster climate Action
			€ 25.078.990	**€ 25.078.990**	
Topic : LC-GD-9-3-2020 A transparent and accessible ocean: towards a digital twin of the ocean					
101037643	ILIAD	Innovation Action	€ 18.944.255	€ 17.046.230	INTEGRATED DigitaL Framework FOR Comprehensive MARITIME DATA AND INFORMATION SERVICES
			€ 18.944.255	**€ 17.046.230**	

Project number	Acronym	Type of Action	Total cost	EU Contribution	TITLE
Topic : LC-GD-10-1-2020 European capacities for citizen deliberation and participation for the Green Deal					
101037071	REAL_DEAL	Research and Innovation Action	€ 6.795.550	€ 6.795.550	Reshaping European Advances towards green Leadership Through Deliberative Approaches and Learning
101037328	PHOENIX	Research and Innovation Action	€ 4.975.449	€ 4.975.449	The rise of the citizen voices for a Green Europe
			€ 11.770.999	**€ 11.770.999**	
Topic : LC-GD-10-2-2020 Behavioural, social and cultural change for the Green Deal					
101036504	ACCTING	Research and Innovation Action	€ 4.997.086	€ 4.997.086	AdvanCing behavioural Change Through an INclusive Green deal
101036640	SHARED GREEN DEAL	Research and Innovation Action	€ 4.996.099	€ 4.996.099	SHARED GREEN DEAL: Social sciences & Humanities for Achieving a Responsible, Equitable and Desirable GREEN DEAL
			€ 9.993.185	**€ 9.993.185**	
Topic : LC-GD-10-3-2020 Enabling citizens to act on climate change and environmental protection through education, citizen science, observation initiatives, and civic involvement					
101036563	CompAir	Innovation Action	€ 5.336.160	€ 4.686.189	Community Observation Measurement & Participation in AIR Science
101036418	AURORA	Innovation Action	€ 4.786.456	€ 4.628.631	Achieving a new European Energy Awareness.
101037648	SOCIO-BEE	Innovation Action	€ 5.480.149	€ 4.999.859	Wearables and droneS fOr CIty Socio-Environmental Observations and BEhavioral ChangE
101036505	ECF4CLIM	Innovation Action	€ 5.383.348	€ 4.896.710	A EUROPEAN COMPETENCE FRAMEWORK FOR A LOW CARBON ECONOMY AND SUSTAINABILITY THROUGH EDUCATION
101037193	I-CHANGE	Innovation Action	€ 5.234.118	€ 4.949.998	Individual Change of HAbits Needed for Green European transition
101036480	SCENT (GreenSCENT)	Innovation Action	€ 6.503.245	€ 5.549.493	Smart Citizen Education for a greeN fuTure
101037342	PSLifestyle	Innovation Action	€ 5.316.803	€ 4.999.871	Co-Creating Positive and Sustainable Lifestyle Tool with and for European Citizens
			€ 38.040.278	**€ 34.710.751**	
Grand Total			**€ 1 308 445 303**	**€ 1 003 746 640**	

A factsheet, results, and news and multimedia for each project are available on :

https://cordis.europa.eu/projects/en

Definitions of types of organisations

Private for profit companies (PRC): Private, for-profit entities, including small or medium-sized enterprises and excluding Universities and Higher or Secondary Education Establishments.

Public bodies (excluding research and education) (PUB): Any legal entity established as a public body by national law or an international organisation. Excludes Research Organisations and Higher or Secondary Education Establishments.

Research organisations (excluding education) (REC): A legal entity that is established as a non-profit organisation and whose main objective is carrying out research or technological development.

Secondary and higher education establishments (HES): A legal entity that is recognised by its national education system as a University or Higher or Secondary Education Establishment. It can be a public or a private body.

Other entities (OTH): Any entity not falling into one of the other four categories

I. INDIVIDUAL FACTSHEETS

LC-GD-1-1-2020 – Preventing and fighting extreme wildfires with the integration and demonstration of innovative means

FIRELOGUE

Total Cost: **3 259 371,25 €** Requested Grant: **3 259 371,25 €**

Title:
Cross-sector dialogue for Wildfire Risk Management

Abstract:
In line with increasing demands for more public participation, transparency and fairness in risk management institutions and procedures, FIRELOGUE aims to coordinate and support the Innovation Actions (IAs) by integrating their findings across stakeholder groups and fire management phases. It therefore builds on different formats to process the existing WFRM knowledge and innovations as developed by the IAs to translate them into the FIRELOGUE platform. The FIRELOGUE platform, together with Communication Booster services such as brokering expertise, will disseminate the insights and technologies developed by the IAs and integrated by the FIRELOGUE project.

In addition to developing dedicated knowledge sharing formats for the exchange between the IAs, FIRELOGUE also aims to (1) deconstruct conflicting (and synergising) aims, interests, mandates, policies and practices existing in WFRM, (2) identify real or perceived injustices linked to these conflicts, (3) provide a space for deliberating on these conflicts and synergies in a just and inclusive way, in order to (4) co-develop integrated strategies to overcome these conflicts.

FIRELOGUE builds on an Integrated Systems Thinking approach to bind the IAs together while comprehensively addressing the different components of wildfire risk (hazard, exposure, vulnerability and capabilities) as well as the diverse natural and socioeconomic drivers of risk. Building on the concept of Just Transition, different notions of justice (distributive, procedural and restorative justice) will form the basis for structuring the discussions within and across the working groups. Collaborative governance will build the conceptual underpinning for designing the dialogue workshops and to eventually co-develop integrated WFRM strategies.

Country Code	Applicant Legal Name	Type of organisation
DE	**FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.**	**REC**
AT	INTERNATIONALES INSTITUT FUER ANGEWANDTE SYSTEMANALYSE	REC
BE	THE INTERNATIONAL EMERGENCY MANAGEMENT SOCIETY AISBL	OTH
CH	UNITED NATIONS RESEARCH INSTITUTE FOR SOCIAL DEVELOPMENT	REC
GR	EDGE IN EARTH OBSERVATION SCIENCES MONOPROSOPI IKE	PRC
GR	ETHNIKO ASTEROSKOPEIO ATHINON	REC
GR	KENTRO MELETON ASFALEIAS	REC
ES	CONSORCI CENTRE DE CIENCIA I TECNOLOGIA FORESTAL DE CATALUNYA	REC
ES	FUNDACIO D'ECOLOGIA DEL FOC I GESTIO D'INCENDIS PAU COSTA ALCUBIERRE	REC
ES	UNIVERSIDAD DE ALCALA	HES
FR	ASSOCIATION PEGASE	OTH
IT	FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI	REC
PT	VOST PORTUGAL - ASSOCIACAO DE VOLUNTARIOS DIGITAIS EM SITUACOES DE EMERGENCIA	OTH
PT	ASSOCIACAO PARA O DESENVOLVIMENTO DA AERODINAMICA INDUSTRIAL	REC
PT	INESC TEC - INSTITUTO DE ENGENHARIADE SISTEMAS E COMPUTADORES, TECNOLOGIA E CIENCIA	REC
UK	TRILATERAL RESEARCH LTD	PRC

LC-GD-1-1-2020 Preventing and fighting extreme wildfires with the integration and demonstration of innovative means

SILVANUS

Total Cost: **24 624 443,75 €** Requested Grant: **19 902 190,63 €**

Title:
Integrated Technological and Information Platform for wildfire Management

Abstract:
SILVANUS envisages to deliver an environmentally sustainable and climate resilient forest management platform through innovative capabilities to prevent and combat against the ignition and spread of forest fires. The platform will cater to the demands of efficient resource utilisation and provide protection against threats of wildfires encountered globally. The project will establish synergies between (i) environmental; (ii) technology and (iii) social science experts for enhancing the ability of regional and national authorities to monitor forest resources, evaluate biodiversity, generate more accurate fire risk indicators and promote safety regulations among citizens through awareness campaigns. The novelty of SILVANUS lies in the development and integration of advanced semantic technologies to systematically formalise the knowledge of forest administration and resource utilisation. Additionally, the platform will integrate a big-data processing framework capable of analysing heterogeneous data sources including earth observation resources, climate models and weather data, continuous on-board computation of multi-spectral video streams. Also, the project integrates a series of sensor and actuator technologies using innovative wireless communication infrastructure through the coordination of aerial vehicles and ground robots.

The technological platform will be complemented with the integration of resilience models, and the results of environmental and ecological studies carried out for the assessment of fire risk indicators based on continuous surveys of forest regions. The surveys are designed to take into consideration the expertise and experience of frontline fire fighter organisations who collectively provide support for 47,504x104 sq. meters of forest area within Europe and across international communities. The project innovation will be validated through 11 pilot demonstrations across Europe and internationally using a two sprint cycle.

Country Code	Applicant Legal Name	Type of organisation
IT	**UNIVERSITA TELEMATICA PEGASO**	**HES**
AU	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION	REC
BR	UNIVERSIDADE FEDERAL DO RIO DE JANEIRO	HES
CY	CATALINK LIMITED	PRC
CY	SYNTHESIS CENTER FOR RESEARCH AND EDUCATION LIMITED	PRC
CZ	HASICSKY ZACHRANNY SBOR MORAVSKOSLEZSKEHO KRAJE	PUB
DE	Venaka Media GbR	PRC
GR	EXUS SOFTWARE MONOPROSOPI ETAIRIA PERIORISMENIS EVTHINIS	PRC
GR	PERIFEREIA STEREAS ELLADAS	PUB
GR	ARISTOTELIO PANEPISTIMIO THESSALONIKIS	HES
GR	ELLINIKI OMADA DIASOSIS SOMATEIO	REC
GR	ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	REC
GR	GEOPONIKO PANEPISTIMION ATHINON	HES
GR	KENTRO MELETON ASFALEIAS	REC
GR	PANEPISTIMIO THESSALIAS	HES
ES	ATOS IT SOLUTIONS AND SERVICES IBERIA SL	PRC
FR	POMPIERS DE L'URGENCE INTERNATIONALE	OTH
FR	THALES	PRC
HR	Hrvatska vatrogasna zajednica	PUB
HR	Micro Digital d.o.o.	PRC
HR	RINIGARD DOO ZA USLUGE	PRC
HR	VELEUCILISTE VELIKA GORICA	OTH
ID	Yayasan AMIKOM Yogyakarta	PRC
IE	EMC INFORMATION SYSTEMS INTERNATIONAL	PRC
IT	ASSET - Agenzia regionale Strategica per lo Sviluppo Ecosostenibile del Territorio	PUB
IT	cmcc srl	PRC
IT	EXPERT SYSTEM SPA	PRC
IT	FINCONS SPA	PRC
IT	LETS ITALIA srls	PRC
IT	ZANASI ALESSANDRO SRL	PRC
IT	Ospedale Israelitico	OTH

Country Code	Applicant Legal Name	Type of organisation
IT	Parco Naturale Regionale di Tepilora	HES
LU	INTRASOFT INTERNATIONAL SA	PRC
PL	ITTI SP ZOO	PRC
PL	POLITECHNIKA WARSZAWSKA	HES
PL	THE MAIN SCHOOL OF FIRE SERVICE	HES
PT	ADP AGUAS DE PORTUGAL SERVICOS AMBIENTAIS SA	PRC
PT	CNET CENTRE FOR NEW ENERGY TECHNOLOGIES SA	PRC
PT	Hitachi Consulting Portugal	PRC
PT	TERRAPRIMA - SERVICOS AMBIENTAIS SOCIEDADE UNIPESSOAL LDA	PRC
PT	ASSOCIACAO DO INSTITUTO SUPERIOR TECNICO PARA A INVESTIGACAO E DESENVOLVIMENTO	REC
RO	FUNDATIA PENTRU SMURD	OTH
RO	Romanian Forestry Association - ASFOR	OTH
RO	SOFTWARE IMAGINATION & VISION SRL	PRC
SE	MASSIVE DYNAMIC SWEDEN AB	PRC
SE	HOEGSKOLAN I BORAS	HES
SK	3MON, s. r. o.	PRC
SK	Obcianske zdruzenie Plamen Badin	PRC
SK	TECHNICKA UNIVERZITA VO ZVOLENE	HES
SK	USTAV INFORMATIKY, SLOVENSKA AKADEMIA VIED	HES

LC-GD-1-1-2020 Preventing and fighting extreme wildfires with the integration and demonstration of innovative means

DRYADS

Total Cost: **22 820 207,75 €** Requested Grant: **19 290 660,88 €**

Title:
A Holistic Fire Management Ecosystem for Prevention, Detection and Restoration of Environmental Disasters

Abstract:
Considering the socio-ecological transition of Europe 2030, and towards a more resilient and informed community, focusing on the forests that are near wildfire risk, DRYADS aims to build upon state-of-the-art high TRL products and unite them in a holistic Fire Management platform that optimize and reuse per phase the available Socio-technological Resources in all three main phases of Wildfires. For the prevention and preparedness DRYADS propose the use of a real-time risk evaluation tool that can receive multiple classification inputs and work with a new proposed neural network-powered Risk factor indicator. To create a model of Fire adapted communities (FAC) in parallel to insurance incentives, DRYADS will use alkali activated construction materials (AAM) integrating post-wildfires wood ashes (PWA) for fire-resilient buildings and infrastructure. DRYADS also uses a variety of technological solutions such as the Copernicus infrastructure, and a swarm of small drones customized for accurate forest supervision. In the area of Detection DRYADS propose a variety of toolsets that will accommodate most needs. Stemming from Virtual reality for the training, wearables for the protective equipment of the emergency responders. to UAV (drones), UAG and airships for improving capacity in temporal and spatial analysis as well as to increase the inspected area coverage.. Last, DRYADS will build a new land and field-based restoration initiative that will use all modern techniques such as agroforestry, drones for seed spread, Internet of things sensors that will be able to adapt the seeding process based on the ground needs and on the same time with the help of AI to determine post-fire risks factors. DRYADS solution will be demonstrated and validated under real operating conditions. Demonstration will involve Eight complex pilot implementations executed in seven EU countries and in Taiwan.

Country	Applicant Legal Name	Type of organisation
NO	**RISE FIRE RESEARCH AS**	**REC**
AT	FEISCHL RICHARD	PRC
AT	FREIWILLIGE FEUERWEHR GUMPOLDSKIRCHEN	PUB
AT	STADT GRAZ	PUB
AT	DISASTER COMPETENCE NETWORK AUSTRIA	REC
AT	JOHANNITER OSTERREICH AUSBILDUNG UND FORSCHUNG GEMEINNUTZIGE GMBH	REC
BE	Global Biodesign Scomm	OTH
BE	SQUAREDEV	PRC
BG	K3Y	PRC
CY	ACCELIGENCE LTD	PRC
CY	EIGHT BELLS LTD	PRC
CY	INNOV-ACTS LIMITED	PRC
DE	Schmitz One Seven GmbH	PRC
DE	BUNDESANSTALT FUER MATERIALFORSCHUNG UND -PRUEFUNG	REC
DE	OTTO-VON-GUERICKE-UNIVERSITAET MAGDEBURG	HES
DK	COPENHAGEN BUSINESS SCHOOL	HES
GR	ADRESTIA EREVNITIKI IDIOTIKI KEFALAIOUXIKI ETAIREIA	PRC
GR	Decentralized Administration of Crete	PRC
GR	ENGINEERS FOR BUSINESS IPIRESIES TECHNOLOGIAS KAI MICHANIKIS ANONIMI ETAIRIA	PRC
GR	FRONTIER INNOVATIONS OE	PRC
GR	ETHNIKO ASTEROSKOPEIO ATHINON	REC
GR	ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	REC
GR	MEDITERRANEAN AGRONOMIC INSTITUTE OF CHANIA	HES
GR	NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	REC
GR	POLYTECHNEIO KRITIS	HES
ES	ALTRAN INNOVACION SL	PRC
ES	DIPUTACION DE AVILA	PUB
ES	DRONE HOPPER SL	PRC
ES	FEDERACION DE ASOCIACIONES FORESTALES DE CASTILLA Y LEON	PRC

Country	Applicant Legal Name	Type of organisation
ES	FUNDACION CARTIF	REC
ES	UNIVERSIDAD DE SALAMANCA	HES
ES	UNIVERSITAT DE GIRONA	HES
FR	POMPIERS DE L'URGENCE INTERNATIONALE	OTH
IT	ACaMIR - Agenzia Campana Mobilit? Infrastrutture e Reti	PRC
IT	Comune di Sorrento	PRC
IT	MAGGIOLI SPA	PRC
IT	SVILUPPO TECNOLOGIE E RICERCA PER L'EDILIZIA SISMICAMENTE SICURA ED ECOSOSTENIBILE SCARL	REC
LT	LIETUVOS AGRARINIU IR MISKU MOKSLU CENTRAS	REC
NO	JOTNE EPM TECHNOLOGY AS	PRC
NO	Trelleborg Offshore Norway AS	PRC
NO	Woodify AS	PRC
RO	FUNDATIA PENTRU SMURD	OTH
RO	Ministerul Mediului, Apelor si Padurilor	PUB
RO	Romanian Forestry Association - ASFOR	OTH
RO	SOFTWARE IMAGINATION & VISION SRL	PRC
TW	NATIONAL TAIWAN UNIVERSITY OF SCIENCE AND TECHNOLOGY	HES
UK	AIR WORLDWIDE LIMITED	PRC

LC-GD-1-1-2020 Preventing and fighting extreme wildfires with the integration and demonstration of innovative means

FIRE-RES

Total Cost: **21 543 629 €** Requested Grant: **19 896 390,5 €**

Title:
Innovative technologies and socio-ecological-economic solutions for fire resilient territories in Europe.

Abstract:
Extreme wildfire events (EWE) are becoming a major environmental, economic and social threat in Southern Europe and increasingly gaining importance elsewhere in Europe. As the limits of fire suppression-centered strategies become evident, practitioners, researchers and policymakers increasingly recognise the need to develop novel approaches that shift emphasis to the root causes and impacts of EWE, moving towards preventive landscape and community management for greater resilience. FIRE-RES integrates existing research, technology, civil protection, policy and governance spheres related to wildfires to innovate processes, methods and tools to effectively promote the implementation of a more holistic fire management approach and support the transition towards more resilient landscapes and communities to EWE. To achieve this, FIRE-RES will, first, generate new knowledge on sustainable integrated fire management models that help to define what type of possible future scenarios (including climate change and general policies) should be promoted across EU territories. Second, it will identify and demonstrate innovations at the technological, social, health/safety, administrative, ecological and economic levels to define how and across which possible paths the future scenarios may be achieved in the EU. These innovations will be implemented in different regional contexts, and upscaled at the national and EU levels using an open innovation hub, promoting capacity building and partnership brokerage between public and private actors. Third, it will raise societal awareness and engagement on wildfire risk prevention, preparedness and response by leveraging existing national and cross-border networks at supranational levels. FIRE-RES is a transdisciplinary, multi-actor consortium, formed by researchers, wildfire agencies, technological companies, industry and civil society from 13 countries, linking to broader networks in science and disaster reduction management.

Country Code	Applicant Legal Name	Type of organisation
DE	**FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.**	**REC**
AT	INTERNATIONALES INSTITUT FUER ANGEWANDTE SYSTEMANALYSE	REC
BE	THE INTERNATIONAL EMERGENCY MANAGEMENT SOCIETY AISBL	OTH
CH	UNITED NATIONS RESEARCH INSTITUTE FOR SOCIAL DEVELOPMENT	REC
GR	EDGE IN EARTH OBSERVATION SCIENCES MONOPROSOPI IKE	PRC
GR	ETHNIKO ASTEROSKOPEIO ATHINON	REC
GR	KENTRO MELETON ASFALEIAS	REC
ES	CONSORCI CENTRE DE CIENCIA I TECNOLOGIA FORESTAL DE CATALUNYA	REC
ES	FUNDACIO D'ECOLOGIA DEL FOC I GESTIO D'INCENDIS PAU COSTA ALCUBIERRE	REC
ES	UNIVERSIDAD DE ALCALA	HES
FR	ASSOCIATION PEGASE	OTH
IT	FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI	REC
PT	VOST PORTUGAL - ASSOCIACAO DE VOLUNTARIOS DIGITAIS EM SITUACOES DE EMERGENCIA	OTH
PT	ASSOCIACAO PARA O DESENVOLVIMENTO DA AERODINAMICA INDUSTRIAL	REC
PT	INESC TEC - INSTITUTO DE ENGENHARIADE SISTEMAS E COMPUTADORES, TECNOLOGIA E CIENCIA	REC
UK	TRILATERAL RESEARCH LTD	PRC

LC-GD-1-2-2020 Towards climate-neutral and socially innovative cities

NetZeroCities

Total Cost: **53 054 660 €** Requested Grant: **52 996 761,25 €**

Title:
Accelerating cities' transition to net zero emissions by 2030

Abstract:
NetZeroCities (NZC) is designed to pursue the ambition of the report from the Mission Board for Climate Neutral and Smart Cities, as part of a broader European ambition to achieve climate neutrality before 2050. This ambition represents a substantial elevation of the degrees of decarbonisation and the timescale for achieving it. For all cities achieving this level of impact is an extraordinary undertaking and would require profound changes in how policies, projects and programmes are advanced by cities, with the direction and support of senior governments. NZC connects and builds beyond established programmes and experimental initiatives.

The NetZeroCities consortium is build based on partners? expertise, experience, and access to a very large network of cities of all sizes and maturity throughout Europe. It has an excellent balance of partner typologies, a great geographical coverage allowing presence and activity all throughout Europe, and thanks to that, its approach goes beyond current state-of-the-art.

NetZeroCities will create a programme tailored to the specific conditions of each city. All the services and thematic expertise will be aggregated and co-designed through a NZC one-stop-shop Platform and the digital portal and smart repository for impact measurement, capacity building and knowledge/tools dissemination. Cities will benefit from an intensive support relationship of dedicated City Guides to navigate the platform and ensure city needs are adequately understood and addressed.

NetZeroCities will support pilots in 30 European cities and, in subsequent rounds of engagement, more than 100 cities to achieving carbon neutrality by 2030 (medium-term) and 2050 (long term) respectively, by developing and deploying an integral approach to support climate-neutral transformation in cities. This will be achieved through the co-design and organisation of services, including the Climate-neutral City Contract as an enabling instrument.

Country	Applicant Legal Name	Type of organisation
NL	**CLIMATE-KIC HOLDING BV**	**PRC**
AT	AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH	REC
BE	EUROCITIES ASBL	OTH
BE	EUROPEAN REGIONS RESEARCH AND INNOVATION NETWORK ASBL	OTH
BE	INSTITUTE FOR EUROPEAN ENVIRONMENTAL POLICY AISBL	OTH
BE	OPEN & AGILE SMART CITIES	OTH
BE	THE DEMOCRATIC SOCIETY AISBL	OTH
BE	UNION INTERNATIONALE DES TRANSPORTS PUBLICS	OTH
CH	SOUTH POLE CARBON ASSET MANAGEMENT AG	PRC
DE	CLIMATE ALLIANCE - KLIMA-BUENDNIS - ALIANZA DEL CLIMA e.V.	OTH
DE	ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)	OTH
DE	RUPPRECHT CONSULT-FORSCHUNG & BERATUNG GMBH	PRC
DE	FRANKFURT SCHOOL OF FINANCE & MANAGEMENT GEMEINNUTZIGE GMBH	HES
DE	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	REC
EE	TALLINNA TEHNIKA?LIKOOL	HES
ES	EIT KIC URBAN MOBILITY SL	PRC
ES	FUNDACION CARTIF	REC
ES	FUNDACION TECNALIA RESEARCH & INNOVATION	REC
ES	UNIVERSIDAD POLITECNICA DE MADRID	HES
FI	DEMOS RESEARCH INSTITUTE OY	REC
FI	TEKNOLOGIAN TUTKIMUSKESKUS VTT OY	REC
FR	CENTRE D ETUDES ET D EXPERTISE SUR LES RISQUES L ENVIRONNEMENT LA MOBILITE ET L AMENAGEMENT	PUB
FR	ENERGY CITIES/ENERGIE-CITES ASSOCIATION	OTH
FR	LGI CONSULTING	PRC
HR	REGIONALNA ENERGETSKA AGENCIJA SJEVEROZAPADNE HRVATSKE	REC
IE	BWB CONNECT COMPANY LIMITED BY GUARANTEE	PRC
IT	POLITECNICO DI MILANO	HES
NL	Dark Matter Laboratories B.V.	PRC
NL	Stichting Global Resilient Cities Network	OTH

Country	Applicant Legal Name	Type of organisation
NL	STICHTING METABOLIC INSTITUTE	OTH
NL	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	REC
SE	Material Economics Sverige AB	PRC
SE	KUNGLIGA TEKNISKA HOEGSKOLAN	HES
US	Urban Sustainability Directors Network	PRC

LC-GD-1-3-2020 Climate-resilient innovation packages for EU regions

REGILIENCE

Total Cost: **2 994 472,5 €** Requested Grant: **2 994 472,5 €**

Title:
Resilience Strategies for Regions

Abstract:
REGILIENCE aims to foster the adoption and wide dissemination of regional climate resilience pathways, following a demand-driven approach and bearing in mind the expertise and knowledge acquired, as well as the solutions available from Innovation Packages and other sources. It will implement the LC-GD-1-3-2020 RIA project results on the Innovation Packages. REGILIENCE will provide coordination by developing a needs survey covering the 50 most vulnerable regions in the EU, which will be shared and matched with Innovation Package projects, 2 citizen surveys and the development of an indicator set for regional resilience, including its testing. We will furthermore review and foster synergies of 30 online platforms to improve their performance and usability for regions and communities. In terms of support, REGILIENCE will provide wide dissemination of the solutions and approaches within networks, regional authorities and key stakeholders, including civil society organisations and citizens. Overall, we plan for almost 700 specific activities with an estimated audience of 100,000 individuals, including 8 large network events, 52 workshops/webinars, 30 twinning, 300 helpdesk, 10 testing, and 40 media activities, amongst others. These aim to share experiences, learn from failure, provide guidance and disseminate knowledge and tools which will be developed by REGILIENCE, such as the Resilience Fundamentals Course, a citizen Resilience Scan Tool, information about resilience funding and financing, including recommendations for the inclusion of climate resilience in the national and regional plans for the EU Recovery Package and the Multiannual Finance Framework, on overcoming barriers and obstacles, maladaptation and the running of 10 tests for innovative public-private partnership approaches. Complementary to wide dissemination, we plan to facilitate the replication of Innovation Packages in 10 additional vulnerable and low-capacity regions.

Country	Applicant Legal Name	Type of organisation
NL	**INSTITUTE FOR EUROPEAN ENERGY AND CLIMATE POLICY STICHTING**	**REC**
AT	FRESH-THOUGHTS CONSULTING GMBH	PRC
BE	FEDERATION EUROPEENNE DES AGENCES ET DES REGIONS POUR L'ENERGIE ET L'ENVIRONNEMENT	OTH
DE	ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)	OTH
DE	ADELPHI RESEARCH GEMEINNUTZIGE GMBH	REC
HR	REGIONALNA ENERGETSKA AGENCIJA SJEVEROZAPADNE HRVATSKE	REC
IE	F6S NETWORK IRELAND LIMITED	PRC
NL	Stichting Global Resilient Cities Network	OTH
PT	FCIENCIAS.ID - ASSOCIACAO PARA A INVESTIGACAO E DESENVOLVIMENTO DE CIENCIAS	REC

LC-GD-1-3-2020 Climate-resilient innovation packages for EU regions

ARSINOE

Total Cost: **15 643 021,25 €** Requested Grant: **14 834 277,5 €**

Title:
CLIMATE RESILIENT-REGIONS THROUGH SYSTEMIC SOLUTIONS AND INNOVATIONS

Abstract:
Systems Innovation Approach (SIA) addresses the growing complexity, interdependencies and interconnectedness of modern societies and economies, focusing on the functions of the cross-sectoral system ?as a whole? and on the variety of actors. The Climate Innovation Window (CIW) is the EU reference innovations marketplace for climate adaptation technologies. ARSINOE shapes the pathways to resilience by bringing together SIA and CIW, to build an ecosystem for climate change adaptation solutions. Within the ARSINOE ecosystem, pathways to solutions are co-created and co-designed by stakeholders, who can then select either existing CIW technologies, or technologies by new providers (or a combination) to form an innovation package. This package may be designed for implementation to a specific region, but its building blocks are transferable and re-usable; they can be re-adapted and updated. In this way, the user (region) gets an innovation package consisting of validated technologies (expanding the market for CIW); new technologies implemented in the specific local innovation package get the opportunity to be validated and become CIW members, while the society (citizens, stakeholders) benefits as a whole. ARSINOE applies a three-tier, approach: (a) using SIA it integrates multi-faceted technological, digital, business, governance and environmental aspects with social innovation for the development of adaptation pathways to climate change for specific regions; (b) it links with CIW to form innovation packages by matching innovators with end-users/regions; (c) it fosters the ecosystem sustainability and growth with cross-fertilization and replication across regions and scales, at European level and beyond, using specific business models, exploitation and outreach actions. The ARSINOE approach is show-cased in nine widely varied demonstrators, as a proof-of-concept with regards to its applicability, replicability, potential and efficacy.

Country	Applicant Legal Name	Type of organisation
GR	**PANEPISTIMIO THESSALIAS**	**HES**
AL	AGJENCIA KOMB?TARE E PLANIFIKIMIT T? TERRITORIT	PUB
BE	WATER EUROPE	OTH
BG	KLIYNTEH BULGARIA FONDATSIYA	OTH
CY	TECHNOLOGIKO PANEPISTIMIO KYPROU	HES
DE	Verband kommunaler Unternehmen e.V.	PRC
DE	LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN	HES
DK	Danish Coastal Authority	OTH
DK	Esbjerg Kommune	PUB
DK	LNH Water	PRC
DK	DANMARKS TEKNISKE UNIVERSITET	HES
GR	ETAIREIA ANAPTYXIS KAI TOURISTIKIS PROVOLIS ATHINON - ANAPTYXIAKI ANONYMOS ETAIREIA ORGANISMOU TOPIKIS AFTODIOIKISIS	PRC
GR	PIRAEUS PORT AUTHORITY SA	PRC
GR	ARISTOTELIO PANEPISTIMIO THESSALONIKIS	HES
GR	ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS - RESEARCH CENTER	HES
GR	ATHINA-EREVNITIKO KENTRO KAINOTOMIAS STIS TECHNOLOGIES TIS PLIROFORIAS, TON EPIKOINONION KAI TIS GNOSIS	REC
GR	Elliniko Idryma Evropaikis kai Exoterikis Politikis (HELLENIC FOUNDATION FOR EUROPEAN AND FOREIGN POLICY)	REC
GR	INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS	REC
GR	ORGANISMOS FYSIKOU PERIVALLONTOS KAI KLIMATIKIS ALLAGIS	REC
ES	ELITTORAL ESTUDIOS DE INGENIERIA COSTERA Y OCEANOGRAFICA SLNE	PRC
ES	AGENCIA ESTATAL CONSEJO SUPERIOR DEINVESTIGACIONES CIENTIFICAS	REC
ES	BRIGAID CONNECT	REC
ES	FUNDACION DE LA COMUNIDAD VALENCIANA PARA LA INVESTIGACION, PROMOCION Y ESTUDIOS COMERCIALES DE VALENCIAPORT	REC
ES	INSTITUTO GEOL?GICO Y MINERO DE ESPA?A	REC
ES	UNIVERSIDAD DE LA LAGUNA	HES
FR	GAC	PRC
FR	SDSN ASSOCIATION PARIS	REC
FR	UNIVERSITE DE TOURS	HES

Country	Applicant Legal Name	Type of organisation
IT	Blue Gold s.r.l.	PRC
IT	AGRIS SARDEGNA - AGENZIA PER LA RICERCA IN AGRICOLTURA	REC
IT	CENTRO DI RICERCA, SVILUPPO E STUDI SUPERIORI IN SARDEGNA SOCIETE A RESPONSABILITY LIMITATA	REC
IT	UNIVERSITA DEGLI STUDI DI CAGLIARI	HES
MK	PRIVATE SCIENTIFIC INSTITUTION, INSTITUTE FOR RESEARCH IN ENVIRONMENT, CIVIL ENGINEERING AND ENERGY, SKOPJE	REC
NL	KWR WATER B.V.	PRC
NL	Stichting Global Resilient Cities Network	OTH
RO	SECRETARIATUL NATIONAL ROMAN AL RETELEI UNIVERSITATILOR DE LA MAREA NEAGRA	PUB
RO	INSTITUTUL NATIONAL DE CERCERTARE DEZVOLTARE PENTRU STIINTE BIOLOGICE RA	REC
TR	MIDDLE EAST TECHNICAL UNIVERSITY	HES
TR	ORGANIZATION OF THE BLACK SEA ECONOMIC COOPERATION	PUB
UK	THE COUNCIL OF THE BOROUGH OF TORBAY	PUB
UK	WESTCOUNTRY RIVERS TRUST LBG	OTH
UK	THE UNIVERSITY OF EXETER	HES

LC-GD-1-3-2020 Climate-resilient innovation packages for EU regions

IMPETUS

Total Cost: **16 224 768,75 €** Requested Grant: **14 872 468,13 €**

Title:

DYNAMIC INFORMATION MANAGEMENT APPROACH FOR THE IMPLEMENTATION OF CLIMATE RESILIENT ADAPTATION PACKAGES IN EUROPEAN REGIONS

Abstract:

As climate change progresses irrevocably, urgent measures are needed for building resilience and adaptive capacity. In the wake of the COVID-19 crisis, effective climate resilient regions cannot be built at expense of productive sectors, or without fair societal consensus. IMPETUS will develop and validate a coherent multi-scale, multi-level, cross-sectoral climate change adaptation framework to accelerate the transition towards a climate-neutral and sustainable economy. IMPETUS Resilience Knowledge Boosters (RKBs) will build a robust Quintuple Helix stakeholders? community (human dimension) complemented with reliable data and assessment methods to support decision and policy making (digital dimension). This will result in a community empowerment to co-design, assess, deploy, and monitor climate adaptation Innovation Packages, including R&I methodological, technological, governance, awareness, behavioural, economic, financial and pathway components. IMPETUS RKBs will be deployed and validated in all 7 EU biogeographical regions (Continental, Coastal, Mediterranean, Atlantic, Arctic, Boreal, Mountainous) covering all Key Community Systems, climate threats, and multi-level governance . IMPETUS consortium is made of selected local, regional and national public authorities; R&D organisations; SMEs and large enterprises; and, international organisations, to build upon, upscale and demonstrate a wide range of R&D solutions. IMPETUS has a clear earmark to ensure continuity after the project lifetime through consolidated and interconnected RKBs and communities at different scales.

Country Code	Applicant Legal Name	Type of organisation
ES	**FUNDACIO EURECAT**	**REC**
CH	UNION INTERNATIONALE POUR LA CONSERVATION DE LA NATURE ET DE SES RESSOURCES	REC
CH	UNIVERSITAET BERN	HES
DE	BERLINER WASSERBETRIEBE	PUB
DE	EUROPEAN SCIENCE COMMUNICATION INSTITUTE (ESCI) GGMBH	OTH
DE	SENATSVERWALTUNG FUER UMWELT, VERKEHR UND KLIMASCHUTZ	PUB
DE	GCF - GLOBAL CLIMATE FORUM EV	REC
DE	KWB KOMPENTENTZZENTRUM WASSER BERLIN GEMEINNUTZIGE GMBH	REC
GR	ETAIREIA YDREYSEOS KAI APOCHETEFSEOS PROTEYOYSIS ANONIMI ETAIREIA	PRC
GR	Mantis Business Innovation Private Company	PRC
GR	MINISTRY OF ENVIRONMENT AND ENERGY	PUB
GR	ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS - RESEARCH CENTER	HES
GR	MEDITERRANEAN AGRONOMIC INSTITUTE OF CHANIA	HES
GR	NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA	HES
ES	Departament de Territori i Sostenibilitat - Generalitat de Catalunya	PUB
ES	LOBELIA EARTH SL	PRC
ES	UNIVERSITAT DE GIRONA	HES
ES	UNIVERSITAT ROVIRA I VIRGILI	HES
FR	SDSN ASSOCIATION PARIS	REC
IT	Cantina Toblino S.c.a.	PRC
IT	Consorzio dei Comuni BIM SARCA MINCIO GARDA	PUB
IT	MOBYGIS SRL	PRC
IT	THETIS SPA	PRC
IT	ACCADEMIA EUROPEA DI BOLZANO	REC
LV	BALTIJAS VIDES FORUMS	OTH
LV	JELGAVAS PASVALDIBAS OPERATIVAS INFORMACIJAS CENTRS	PUB
LV	ZEMGALES PLANOSANAS REGIONS	PUB
NL	KWR WATER B.V.	PRC
NL	Nelen & Schuurmans B.V.	PRC
NL	WATER & ENERGY INTELLIGENCE BV	PRC
NO	Troms & Finnmark County Council	PUB
NO	UNIVERSITETET I TROMSOE - NORGES ARKTISKE UNIVERSITET	HES

LC-GD-1-3-2020 Climate-resilient innovation packages for EU regions

TransformAr

Total Cost: **12 730 322,5 €** Requested Grant: **11 872 256,88 €**

Title:

Accelerating and upscaling transformational adaptation in Europe: demonstration of water-related innovation packages

Abstract:

Climate change impacts are here and now. The impacts on people, prosperity and planet are already pervasive but unevenly distributed, as stated in the new EU Blueprint strategy (European Commission-EC, 2019). To reduce climate-related risks, the EC and the IPCC agree that transformational adaptation is essential. The TranformAr project aims to develop and demonstrate products and services to launch and accelerate large-scale and disruptive adaptive process for transformational adaptation in vulnerable regions and communities across Europe.

Country	Applicant Legal Name	Type of organisation
BE	**UNIVERSITEIT ANTWERPEN**	**HES**
BE	VERHAERT NEW PRODUCTS & SERVICES NV	PRC
BE	WATER EUROPE	OTH
CZ	CESKA ZEMEDELSKA UNIVERZITA V PRAZE	HES
DE	POTSDAM INSTITUT FUER KLIMAFOLGENFORSCHUNG	REC
GR	DIMOS EGALEO	PUB
GR	E3-MODELLING AE	PRC
GR	NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	REC
ES	FUNDACION EMPRESA UNIVERSIDAD GALLEGA	OTH
ES	CENTRO TECNOLOGICO DEL MAR - FUNDACION CETMAR	REC
ES	UNIVERSIDAD DE VIGO	HES
FI	LAPPEENRANNAN KAUPUNKI	PUB
FI	LAPPEENRANNAN-LAHDEN TEKNILLINEN YLIOPISTO LUT	HES
FR	ACTERRA	PRC
FR	AGENCE DE L'ENVIRONNEMENT ET DE LAMAITRISE DE L'ENERGIE	PUB
FR	EUROQUALITY SARL	PRC
IT	Mediterranean Sea and Coast Foundation	OTH
IT	FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI	REC
MT	EPSILON MALTA LIMITED	PRC
NO	Gj?vik kommune	HES
NO	NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU	HES
UK	WESTCOUNTRY RIVERS TRUST LBG	OTH

LC-GD-2-1-2020 Innovative land-based and offshore renewable energy technologies and their integration into the energy system

EU-SCORES

Total Cost: **46 069 294 €** Requested Grant: **34 831 483,81 €**

Title:
European Scalable Complementary Offshore Renewable Energy Sources

Abstract:
Efficient and effective use of offshore renewables is pivotal in the transition of the EU to become a net-zero economy in greenhouse gas emissions by 2050. EU-SCORES will unlock the large-scale potential of the roll-out of offshore renewable energy in multi-source parks across different European sea basins through two highly comprehensive and impactful demonstrations: (1) An offshore solar PV system in Belgium co-located with a bottom fixed windfarm and; (2) A wave energy array in Portugal co-located with a floating wind farm.
The multi-source demonstrations in EU-SCORES will showcase the benefits of a continuous power output harnessing the complementarity between wind, sun and waves as it leads to a more resilient and stable power system, higher capacity factors and a lower total cost per MWh. These aspects will also improve the business case for the production of green hydrogen within these parks. The full-scale demonstrations will prove how the increased power output and capacity installed per km2 will reduce the amount of marine space needed, thereby leaving more space for aquaculture, fisheries, shipping routes and environmentally protected zones. Additional benefits attained by co-using critical electrical infrastructures and exploring advanced operation and maintenance methodologies supported by innovative autonomous systems will further lower the costs per MWh. The involvement of major project developers and utility companies (EDP, EGP, SBE, RWE, EnBW, Eneco, OceanWinds, and Parkwind) will ensure an accelerated path towards commercialisation of these innovative parks.
Altogether, through a highly competent, skilled and motivated consortium EU-SCORES will pave the way for bankable multi-source parks including wind, wave and floating solar systems across different European sea basins by 2025, thereby supporting the stability and resilience of the European energy system, while considering sustainability, local stakeholders and existing ecosystems.

Country	Applicant Legal Name	Type of organisation
NL	**STICHTING DUTCH MARINE ENERGY CENTRE**	**OTH**
BE	PROVINCIALE ONTWIKKELINGSMAATSCHAPPIJ WEST-VLAANDEREN	PUB
DE	RWE Renewables GmbH	PRC
FI	LAPPEENRANNAN-LAHDEN TEKNILLINEN YLIOPISTO LUT	HES
FR	INNOSEA	PRC
IE	exceedence ltd	PRC
IE	Western Star Wave Limited	PRC
IT	ENEL GREEN POWER SPA	PRC
IT	RINA CONSULTING SPA	PRC
NL	OCEANS OF ENERGY BV	PRC
NL	SBM Schiedam B.V.	PRC
NL	TECHNISCHE UNIVERSITEIT DELFT	HES
PT	LABELEC - ESTUDOS, DESENVOLVIMENTO E ACTIVIDADES LABORATORIALS SA	PRC
PT	INESC TEC - INSTITUTO DE ENGENHARIADE SISTEMAS E COMPUTADORES, TECNOLOGIA E CIENCIA	REC
PT	WAVEC/OFFSHORE RENEWABLES - CENTRO DE ENERGIA OFFSHORE ASSOCIACAO	REC
SE	CORPOWER OCEAN AB	PRC
SE	UPPSALA UNIVERSITET	HES

LC-GD-2-1-2020 Innovative land-based and offshore renewable energy technologies and their integration into the energy system

HYPERGRYD

Total Cost: **5 992 875 €** Requested Grant: **5 992 874,5 €**

Title:
Hybrid coupled networks for thermal-electric integrated smart energy Districts

Abstract:
HYPERGRYD aims at developing a set of replicable and scalable cost effective technical solutions to allow the integration of RES with different dispatchability and intrinsic variability inside Thermal Grids as well as their link with the Electrical Grids, including the development of innovative key components, in parallel with innovative and integrated ICT services formed by a scalable suite of tools for the proper handling of the increased complexity of the systems from building to Local Energy Community (LEC) levels and beyond, accelerate the sustainable transformation, planning and modernization of District Heating and Cooling (DHC) toward 4th and 5th generation. HYPERGRYD also aims at developing real time management of both electrical and thermal energy flows in the coupled energy network complex, including the synergies between them. Therefore, HYPERGRYD aims at three over-arching General Objectives:

- To prove Smart Energy Networks as the future of Efficient Energy Management in DHC in synergy with the Electrical Grids in LEC/Smart Cities of the future,
- To define the roadmap to design and planning of future DHC as well as the modernization of the existing ones in different climates and RES penetration levels toward 4th-5th generation,
- To demonstrate HYPERGRYD RES-based Enabling Technologies, Smart Energy Grid Solutions empowered by new ICT tools and services as the key for this evolution.

During the project, the HYPERGRYD?s solutions will be implemented across 4 Live-In-the-Labs cases in 3 representative climates provided by the consortium, with special consideration to their cost effectiveness and potential replicability to finally achieve these 3 main objectives. All these tasks will follow the proposed work program activities to ensure systematic and scientific performance measures, feedback and powerful exploitation.

Country	Applicant Legal Name	Type of organisation
ES	ARMENGOL & ROS CONSULTORS I ASSOCIATS	PRC
AT	OCHSNER WARMEPUMPEN GMBH	PRC
AT	SONNENPLATZ GROSSCHONAU GMBH	PRC
AT	AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH	REC
AT	GUSSING ENERGY TECHNOLOGIES GMBH	REC
BE	EUROPEAN INNOVATION MARKETPLACE ASBL	REC
DE	encoord GmbH	PRC
DE	Grid Singularity GmbH	PRC
DE	Sorption Technologies GmbH	PRC
ES	COMET GESINCO SL	PRC
ES	IDP INGENIERIA Y ARQUITECTURA IBERIA SL	PRC
IT	PARCO SCIENTIFICO TECNOLOGICO PER LAMBIENTE ENVIRONMENT PARK TORINO SPA	PRC
IT	R2M SOLUTION SRL	PRC
IT	RINA CONSULTING SPA	PRC
IT	ACCADEMIA EUROPEA DI BOLZANO	REC
IT	CONSIGLIO NAZIONALE DELLE RICERCHE	REC
PL	INSTYTUT MASZYN PRZEPLYWOWYCH IM ROBERTA SZEWALSKIEGO POLSKIEJ AKADEMII NAUK - IMP PAN	REC
SE	RANOTOR	PRC
SE	KUNGLIGA TEKNISKA HOEGSKOLAN	HES

LC-GD-2-1-2020 Innovative land-based and offshore renewable energy technologies and their integration into the energy system

Bio-FlexGen

Total Cost: **5 984 697,5 €** Requested Grant: **5 984 697,5 €**

Title:
Highly-efficient and flexible integration of biomass and renewable hydrogen for low-cost combined heat and power generation to the energy system.

Abstract:
Climate change is the most significant challenge for humanity today. For this reason, fossil fuels must be replaced utilising renewables, improved energy efficiency and more flexible energy systems. An optimal combination of several renewable sources is needed to satisfy human energy needs. Bioenergy, in combination with hydrogen, can take the role as secure and plannable source for power and heat complementing intermittent renewable sources such as wind and sun.

BIO-FlexGen will increase the efficiency and flexibility of renewable energy-based combined heat and power (CHP), playing a key role in energy system integration, and make a significant contribution to the decarbonisation of the energy system.

In particular, to overcome these challenges, Bio-FlexGen brings to the table a unique combination of gasification and gas turbine technology that allows the plant to utilise hydrogen for fast dispatch and biomass for low operating costs over time. Due to the high efficiency, three times more power can be generated from biomass for the same heat load, and the plant can quickly achieve full load by starting and operating on 100% hydrogen. To meet fluctuations in seasonal demands and prices, a variant of the plant can provide climate-positive hydrogen production during long periods of low electricity prices or heat demand.

To do so, Bio-FlexGen consortium gathers the necessary experience, knowledge and resources through a multi-stakeholder approach that covers the whole value chain of the project. It consists of a multidisciplinary team of 14 entities from 5 different EU countries (Spain, Finland, Sweden, Germany, Hungary), among which, 4 universities, 2 RTD organisations, 1 NGO, and 4 SMEs to ensure market exploitation (2 industrial companies and 1 District heat company).

Country	Applicant Legal Name	Type of organisation
SE	**RISE RESEARCH INSTITUTES OF SWEDEN AB**	**REC**
DE	BIT GmbH	PRC
DE	EUROPEAN SCIENCE COMMUNICATION INSTITUTE (ESCI) GGMBH	OTH
DE	TECHNISCHE UNIVERSITAT BERLIN	HES
ES	CEMEX ESPA?A OPERACIONES S.L.U.	PRC
ES	S.A.U. SULQUISA	PRC
ES	ZABALA INNOVATION CONSULTING, S.A.	PRC
ES	IKERLAN S. COOP	REC
ES	UNIVERSIDAD PONTIFICIA COMILLAS	HES
FI	ABO AKADEMI	HES
HU	GEONARDO ENVIRONMENTAL TECHNOLOGIESLTD	PRC
SE	PHOENIX BIOPOWER AB	PRC
SE	TEKNISKA VERKEN I LINKOPING AB	PRC
SE	KUNGLIGA TEKNISKA HOEGSKOLAN	HES

LC-GD-2-1-2020 Innovative land-based and offshore renewable energy technologies and their integration into the energy system

FORWARD-2030

Total Cost: **27 987 218,75 €** Requested Grant: **21 648 116,26 €**

Title:
Fast-tracking Offshore Renewable energy With Advanced Research to Deploy 2030MW of tidal energy before 2030

Abstract:
There is 10 GW of predictable, high value tidal stream potential in European waters, with up to 100 GW of capacity globally. It is an entirely unharnessed resource, with just 13 MW currently deployed .
FORWARD-2030 has an overall objective to fast track 2030MW of tidal energy deployment by 2030. The project has five specific objectives:

1. Reducing Levelised Cost of Energy (LCOE) from ?200/MWh to ?150/MWh,
2. Enhancing environmental and societal acceptance,
3. Complete industrial design for volume manufacture rollout for 10 and 100+ MW projects,
4. Reducing life cycle carbon emissions by 33% from 18 gCO2 eq/kWh to 12 gCO2 eq/kWh,
5. Enhancing commercial returns and energy system integration (with battery storage and green hydrogen production).

Objective 1 is focused on fast-tracking innovation to support the development of a technically and commercially viable tidal energy solution by rapidly reducing LCOE. This will be achieved by developing and verifying seven high priority cost reduction innovations to reduce CAPEX, reduce OPEX, increase efficiency and increase availability.
Objectives 2, 3, 4 and 5 are focused on the regulatory and commercial barriers that must be overcome to achieve the project vison of installing 2030MW of tidal energy by 2030. It will be achieved by developing three market uptake innovations: an integrated environmental monitoring system, an energy management system, and an operational forecasting tool. Four market rollout initiatives will be completed: a supply chain plan for large scale roll out, Societal Cost of Energy (SCOE) assessment tool, marine spatial planning to encompass floating tidal and a life cycle carbon reduction assessment.

Country	Applicant Legal Name	Type of organisation
UK	**ORBITAL MARINE POWER LIMITED**	**PRC**
BE	BELGISCH LABORATORIUM VAN DE ELEKTRICITEITSINDUSTRIE LABORELEC CVBA	REC
DE	SKF GMBH	PRC
IE	UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK	HES
SE	SKF SVERIGE AB	PRC
UK	THE EUROPEAN MARINE ENERGY CENTRE LIMITED	OTH
UK	THE UNIVERSITY OF EDINBURGH	HES

LC-GD-2-1-2020 Innovative land-based and offshore renewable energy technologies and their integration into the energy system

RESTORE

Total Cost: **5 667 736,25 €** Requested Grant: **5 667 736,25 €**

Title:
Renewable Energy based seasonal Storage Technology in Order to Raise Economic and environmental sustainability of DHC

Abstract:
RESTORE proposes a radically innovative solution for DHC, based on the combination of two key innovative technologies (TCES+ORC), that allows integrating a wide variety of renewable technologies combined with competitive seasonal storage in DHC networks, allowing them to be 100% renewable to radically improve their environmental sustainability.
The first technology the project aims to develop is an innovative thermal energy storage system based on Thermo-chemical reactions, the Thermo-Chemical Energy Storage (TCES), that provides daily and seasonal competitive energy storage due to its high energy density, very low energy losses and its low-cost. The system represents a key development due to the fact that it allows harnessing the enormous amount of energy that is normally wasted due to the mismatch between energy demand (loads) and energy generation (related to the availability of the renewable resource or waste heat), mainly occurring between seasons. In addition, the project aims to develop a second technology that is based on Heat Pump and ORC and is combined with the TCES system. This second technology adapts the energy provided by different renewable technologies to feed the storage system, thus a wide variety of renewable technologies as well as waste heat can be integrated into the whole system to finally supply the energy demand under the specific conditions laid down by each DHC.
This radically innovative solution would tackle the main barriers for a wide deployment of renewable energy technologies and waste heat in the existing and future DHC networks. The projects consider the experimental validation of the RESTORE concept and also the demonstration of the concept replicability potential, adapting and optimizing the proposed solution to different real sites (different network conditions and local particularities as the available renewable technologies/waste heat) spread over the EU, and quantifying its potential benefits via virtual use-cases.

Country	Applicant Legal Name	Type of organisation
ES	**FUNDACION CENER**	**REC**
AT	ANDRITZ AG	PRC
AT	SIMTECH GMBH	PRC
AT	TECHNISCHE UNIVERSITAET WIEN	HES
BE	PROSPEX INSTITUTE	OTH
DE	S?dbayerisches Portland-Zementwerk Gebr. Wiesb?ck & Co. GmbH	PRC
DE	STEINBEIS INNOVATION GGMBH	REC
DK	AALBORG CSP AS	PRC
ES	ENERBASQUE SL	PRC
IT	TURBODEN SPA	PRC
IT	POLITECNICO DI MILANO	HES
RO	UNIVERSITATEA BABES BOLYAI	HES

LC-GD-2-2-2020 Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and industrial applications

REFHYNE II

Total Cost: **147 365 995 €** Requested Grant: **32 431 618 €**

Title:
Clean Refinery Hydrogen for Europe II

Abstract:
REFHYNE II will install a 100MW PEM electrolyser at Rheinland refinery in Cologne, Germany, using renewable power to produce green hydrogen and oxygen, which will be fed-in to the existing refinery networks to decarbonise refinery operations. The electrolyser will be based on a state of the art 5MW PEM stack integrated into pre-engineered 20MW electrolyser trains, with factory assembled balance of plant to reduce the amount of bespoke work required to integrate electrolysers into new sites. The project will be delivered by the same team responsible for the REFHYNE project that has installed a 10MW PEM electrolyser at the same site, exploiting the experience of the consortium to deliver a timely and cost-effective project.
REFHYNE II will achieve a viable business case for large-scale electrolysis at refineries by valorising the hydrogen and oxygen streams in the refinery and receiving RED credits for the hydrogen produced, while minimising the cost of hydrogen through improvements in efficiency and capital cost. A research task will explore the upgrading of waste heat to higher temperatures for use in the refinery, to further improve the business case.
Power will be sourced through novel PPAs with named renewable plants. Emissions avoidance will be achieved by displacing the hydrogen currently produced on-site through SMR and adapting the refinery to allow the electrolyser to act as a flexible load and hence contract direct with renewable generators, to increase renewable penetration into the grid.
Research work packages will support the deployment of 100MW+ scale electrolysers at refineries and industrial sites across Europe and enable GW-scale electrolysis systems to be implemented. Finally, a thorough dissemination work package will exploit the results of the project by delivering key messages to target audiences, and supporting three fast follower sites (of which at least two will be located in EU13 countries) to rapidly replicate the results of the project.

Country	Applicant Legal Name	Type of organisation
NO	**SINTEF AS**	**REC**
BE	CONCAWE IVZW	OTH
DE	ITM Linde Electrolysis GmbH	PRC
DE	ITM Power GmbH	PRC
DE	LINDE GMBH	PRC
DE	SHELL DEUTSCHLAND OIL GMBH	PRC
ES	FUNDACION TECNALIA RESEARCH & INNOVATION	REC
FR	ELEMENT ENERGY	PRC
UK	ITM POWER (TRADING) LIMITED	PRC

LC-GD-2-2-2020 Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and industrial applications

GreenHyScale

Total Cost: **52 982 523,75 €** Requested Grant: **30 000 000 €**

Title:
100 MW Green hydrogen production in a replicable and scalable industrial hosting environment

Abstract:
The objective of GreenHyScale is to pave the way for large scale deployment of electrolysis both onshore and offshore, in line with the EU hydrogen strategy and offshore renewable energy strategy.
GreenHyScale will develop a novel multi-MW alkaline electrolyser platform with factory assembled and pre-tested modules, allowing rapid onsite installation capable of reaching a CAPEX below 400 EUR/kW by the end of the 5-year project. A 6 MW module fitting into a 40-foot container will be demonstrated as the first step in the project, and lead to a minimum 100 MW electrolysis plant located in the ideal hosting environment of GreenLab Skive: a symbiotic, industrial Power-to-X platform capable of replicating across Europe with associated green growth and job creation benefits.
The minimum 100 MW electrolysis plant will generate green hydrogen for 2 years from 80 MW directly connected renewables in combination with certified green electricity from a TSO grid connection. GreenLab Skive distributes green electricity from both sources through its unique SymbiosisNet which optimises and exchanges energy in all forms (heat, gas, water, heat) between the industrial park entities and external suppliers and offtakers. The setup enables the electrolysis plant to reach an overall energy efficiency above 90%. The GreenHyScale electrolysis plant will become the world's largest electrolyser system qualified as a TSO balancing services provider, thereby reducing the cost of hydrogen to below 2.85 EUR/kg for an electricity cost of 40 EUR/MWh.
Besides, because of the inevitable link between offshore wind and electrolysis, an upgraded high-pressure 7.5 MW electrolysis module suited for offshore applications will be developed.
GreenHyScale will form new European green value chains that support the paradigm shift to hydrogen economy and transition to green energy by overcoming both technical upscaling and commercial barriers. GreenHyScale will pave the way towards GW-scale electrolyser plants.

Country Code	Applicant Legal Name	Type of organisation
DK	**GREENLAB SKIVE AS**	**OTH**
DK	ENERGY CLUSTER DENMARK	OTH
DK	Everfuel A/S	PRC
DK	Green Hydrogen Systems A/S	PRC
DK	SIEMENS GAMESA RENEWABLE ENERGY AS	PRC
DK	DANMARKS TEKNISKE UNIVERSITET	HES
FR	EUROQUALITY SARL	PRC
FR	Lhyfe Labs	PRC
NO	EQUINOR ENERGY AS	PRC
NO	Quantafuel AS	PRC
UK	IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE	HES

LC-GD-2-2-2020 Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and industrial applications

GREENH2SINES (GREENH2ATLANTIC)

Total Cost: **76 614 020 €** Requested Grant: **30 000 000 €**

Title:
A 100 MW FLEXIBLE GREEN HYDROGEN PRODUCTION PROCESS SOURCING HYBRID RENEWABLE ENERGY AND SUPPLYING GREEN HYDROGEN TO MULTIPLE END-USES

Abstract:
GREENH2SINES will help Europe to reach green and affordable electrolysis at GW-scale in 2030 by developing and demonstrating a first-of-a-kind 100 MW alkaline electrolyser at TRL8, leveraging scale-up, standardization and manufacturing automation. This 100 MW electrolyser will be composed of innovative, scalable and fast-cycling 8 MW modules which overcome bottlenecks related to CAPEX (480EUR/kW, -31%), efficiency (49 kWh/kg at nominal power), size (-40%), lifetime (70 000 operating hours @ degradation rate of 0.12%/1000h), current-density (>0.5 A/cm2) and flexibility (ramp-up and down between 20-100% in less than 30 sec and 5 sec, respectively). GREENH2SINES will supply multiple local off-takers and help reduce the LCOH to 2.87EUR/kg of green H2. An innovative interface system composed of advanced power electronics will allow for the direct coupling of the electrolyser with local, dedicated hybrid (solar and wind) renewable energy. Moreover, an innovative, AI-enhanced Advanced Hydrogen Management System will allow for the optimization of OPEX, load factor, real-time H2 production management, system behaviour analysis, etc.
The consortium includes the full value chain including European electrolyser manufacturing, green hydrogen production, off-takers from the chemical industry and natural gas grids, power electronics developers, AI energy management system developers, renewable energy providers and electrical grid balancing.
The demonstrator will reduce greenhouse gas emissions by 82.16 ktCO2-eq/year. Clear exploitation and replication plans based on rigorous analyses are presented to reach 1 GW by 2030 in Sines and beyond, creating an estimated 1147 direct and 2744 indirect jobs. Green H2 market readiness will be enhanced in promising H2 valleys across Europe, targeting at least 5 systemic H2+RE investment plans facilitated across Europe by the end of the project. Finally, the project will provide actionable input for EU harmonisation and regulations.

Country	Applicant Legal Name	Type of organisation
PT	**EDP INOVACAO SA**	**PRC**
DE	DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV	REC
DK	VESTAS WIND SYSTEMS A/S	PRC
FR	ENGIE ENERGIE SERVICES	PRC
FR	MCPHY ENERGY	PRC
FR	AXELERA - ASSOCIATION CHIMIE-ENVIRONNEMENT LYON ET RHONE-ALPES	REC
FR	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	REC
PT	BONDALTI CHEMICALS SA	PRC
PT	EFACEC ENERGIA - MAQUINAS E EQUIPAMENTOS ELECTRICOS SA	PRC
PT	GALP ENERGIA SA	PRC
PT	MARTIFER - SGPS, S.A.	PRC
PT	INESC TEC - INSTITUTO DE ENGENHARIADE SISTEMAS E COMPUTADORES, TECNOLOGIA E CIENCIA	REC
PT	INSTITUTO DE SOLDADURA E QUALIDADE	REC

LC-GD-2-3-2020 Accelerating the green transition and energy access partnership with Africa

SESA

Total Cost: **10 209 987,5 €** Requested Grant: **9 989 133,13 €**

Title:
Smart Energy Solutions for Africa

Abstract:
SESA will facilitate a structured co-development process, which starts with the co-development of energy access innovations that have a high potential for take-up and are tested, validated and later replicated. Each technology will be demonstrated in the living lab, and a corresponding information and training package is created. Each of the living lab team will consist of technology experts, local implementation partners (members of the consortium) along with local authorities (associated partners) and innovators (recruited through the seed-funding call), guided by business development, finance and policy experts. Demonstration actions will aim to test innovative technologies and services in different contexts that have a high level of replicability and a high potential for long-term sustainability. The project aims to achieve a high level of replicability of actions. As part of an effort to go beyond the state of the art and maximise the project?s impact, the project will co-develop innovations with local partners and cooperate closely with sister projects to exploit synergies. Solutions that will be tested in this project have been selected on their basis of their replication potential. Demonstration concepts aim to integrate several solutions to provide essential energy services to rural and urban communities and create easily replicable business opportunities for local entrepreneurs. The co-developed demonstration actions will be initially tested in the Kenya living lab and based on the initial learnings, various aspects of the tested innovations will be validated in living labs in different socio-economic operating environments (Ghana, South Africa, Malawi and Morocco). The learning from the validation living labs will strengthen the applicability and replicability of the technologies as well as the basic business concepts, which will be shared in the SESA toolbox and incubator programme.

Country	Applicant Legal Name	Type of organisation
DE	**ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)**	**OTH**
DE	ICLEI - LOCAL GOVERNMENTS FOR SUSTAINABILITY EV	OTH
DE	Siemens Stiftung	OTH
DE	TECHNISCHE UNIVERSITAT BERLIN	HES
DE	URBAN ELECTRIC MOBILITY INITIATIVE (UEMI) GGMBH	REC
DE	WUPPERTAL INSTITUT FUR KLIMA, UMWELT, ENERGIE GGMBH	REC
DK	AALBORG UNIVERSITET	HES
DK	DANMARKS TEKNISKE UNIVERSITET	HES
ES	Metanogenia	PRC
ES	ACONDICIONAMIENTO TARRASENSE ASSOCIACION	REC
ES	FUNDACION TECNALIA RESEARCH & INNOVATION	REC
GH	Akenten Appiah-Menka University of Skills Training and Entrepreneurial Development	HES
IE	F6S NETWORK IRELAND LIMITED	PRC
KE	UNITED NATIONS ENVIRONMENT PROGRAMME	PUB
KE	UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME	PUB
KE	WE!HUB Victoria Limited	OTH
MA	Green Energy Park	REC
MW	Going Green	PRC
NA	NAMIBIA UNIVERSITY OF SCIENCE AND TECHNOLOGY	HES
NL	STICHTING CENEX NEDERLAND	REC
NO	Basic Internet Foundation	OTH
NO	SMART INNOVATION NORWAY AS	REC
RW	UNIVERSITY OF RWANDA	HES
SE	Make It Green Solutions AB	PRC
SE	BLEKINGE TEKNISKA HOGSKOLA	HES
SE	RISE RESEARCH INSTITUTES OF SWEDEN AB	REC
SE	STIFTELSEN THE STOCKHOLM ENVIRONMENT INSTITUTE	REC
TZ	Energy and Livelihoods for Communities (E-LICO) Foundation	OTH
ZA	ICLEI - LOCAL GOVERNMENTS FOR SUSTAINABILITY - AFRICA	OTH
ZA	NELSON MANDELA UNIVERSITY	HES

LC-GD-2-3-2020 Accelerating the green transition and energy access partnership with Africa

SophiA

Total Cost: **8 407 220 €** Requested Grant: **7 382 134,63 €**

Title:
SUSTAINABLE OFF-GRID SOLUTIONS FOR PHARMACIES AND HOSPITALS IN AFRICA

Abstract:
SophiA system enables African people access to off-grid carbon-neutral electricity, heating and cooling of food and medicine as well as safe and clean drinking water, increasing quality of life in a sustainable way. Broad implementation of SophiA systems will bring vast environmental, economic, social and especially health benefits. It will be demonstrated at 4 rural health facilities, i.e. where aid is most needed, in 4 different climate regions, by providing sustainable solutions appropriate to the African context. The innovative, affordable and efficient SophiA renewable energy solutions will support Africa in achieving sustainable development growth and economic transformation. SophiA systems will be developed by a multi-national interdisciplinary team of 13 partners well balanced between academia and industry, and Africa and Europe. The African manufactured SophiA systems will for the first time provide an innovative solution based on low GWP natural refrigerants that covers cooling in 4 temperature ranges: air conditioning for surgery / intensive care unit, for medicine/food at +5 ?C, blood plasma (-30?C), sensitive medication (e. g. Covid-19 vaccine) at -70 ?C, in a cascade refrigeration system with highly efficient thermal energy storage. Based on the results from 4 field tests, a modular containerized version will remain operational as demonstrators for the purpose of showrooms after the project. A training guidebook will enable local companies to build SophiA on site, as to set up local value-chains in different African countries creating numerous jobs. Capacity building and appropriate financing solutions will be ensured by the involvement of private and public European and African organisations. The SME-partners from Europe will have the opportunity to generate growth by entering new market segments. Everflo as main partner driving SophiA commercialization ensures to transfer that enormous market of over 100 B ? (SOM) to economic value for EU and Africa.

Country	Applicant Legal Name	Type of organisation
DE	**HOCHSCHULE KARLSRUHE-TECHNIK UND WIRTSCHAFT**	**HES**
BF	FONDATION 2IE ASSOCIATION	HES
CH	OST - Ostschweizer Fachhochschule	HES
CM	Ministry of Public Health	PUB
DE	newterra GmbH	PRC
DE	Operieren in Afrika	OTH
DE	Raach Solar GmbH	PRC
DE	Simply Solar GbR	PRC
DE	STEINBEIS INNOVATION GGMBH	REC
FR	INSTITUT INTERNATIONAL DU FROID	PUB
UG	MAKERERE UNIVERSITY	HES
ZA	Everflo (Pty)Ltd	PRC
ZA	Kovco Pty Ltd	PRC

LC-GD-2-3-2020 Accelerating the green transition and energy access partnership with Africa

ENERGICA

Total Cost: **12 241 301,25 €** Requested Grant: **9 999 370,39 €**

Title:
ENERGy access and green transition collaboratively demonstrated in urban and rural areas in AfrICA

Abstract:
Gathering 11 African-based partners and 17 Europeans with offices or subsidiaries in Africa, the ENERGICA project is ambitiously fostering the collaboration between partners of both continents on energy access and sustainable energy development. Developing innovative and tailored solutions on productive use systems through innovative nano-grids in rural Madagascar in WP4; low-tech efficient biogas system, coupled with water purification demonstrated in peri-urban Sierra Leone in WP5; and solar powered e-mobility solution for boda-boda in urban Kenya in WP6, ENERGICA addresses a wide range of issues and provides solutions. From energy production, local renewable value chain development and e-mobility also providing flexibility services to the grid, ENERGICA is applicable to many different technical and socio-economic contexts. Built upon local stakeholders and through a co-creation methodology that will take additional local stakeholders' inputs into account (WP2), ENERGICA aims to reach a powerful market uptake and wide replication (WP9) during and after the end of the project, with strong environmental and socio-economic local benefits (WP8). The innovative business models developed in WP7 will support this movement for local market uptake while some of the solutions will even rely upon local production and manufacturing, and local business and workforce participating to capacity building activities (WP3). Developing solutions that are based on renewable energy (mainly solar and biogas), and studying projected climate change impact evolution in Africa, ENERGICA will strengthen the joint EU-AU climate change and sustainable energy partnership effort and contribute to fighting climate change as well as improving health and social conditions in the demonstration sites and beyond. ENERGICA will demonstrate its solutions and gather data for 24 out of the 48 months that it will last and will directly impact positively more than 1500 local stakeholders across Africa.

Country	Applicant Legal Name	Type of organisation
DE	**TECHNISCHE UNIVERSITAT BERLIN**	**HES**
CH	HIVE POWER SAGL	PRC
CI	African Association for Rural Electrification / CLUB-ER	PRC
CI	Finergreen Africa	PRC
CV	ECOWAS Centre for Renewable Energy and Energy Efficiency	PUB
DE	HUDARA GGMBH	OTH
ES	Arenys Inox S.L.	PRC
ES	CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT	REC
ES	FUNDACION TEKNIKER	REC
FR	Association Energy Generation	PRC
FR	ECOSUN INNOVATIONS	PRC
FR	EUROQUALITY SARL	PRC
FR	JOKOSUN	PRC
FR	Odit-e	PRC
FR	STIMA SAS	PRC
FR	TRIALOG	PRC
KE	Kenya Power and Lightning Company	PRC
KE	UNITED NATIONS ENVIRONMENT PROGRAMME	PUB
KE	UNTAPPED WATER LIMITED KENYA	PRC
MG	NANOE MADAGASCAR	PRC
NA	SADC Centre for Renewable Energy and Energy Efficiency	PUB
NE	UNIVERSITE ABDOU MOUMOUNI DE NIAMEY	HES
NL	The Waste Transformers Nederland BV	PRC
NO	NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU	HES
SE	Opibus AB	PRC
SE	RISE RESEARCH INSTITUTES OF SWEDEN AB	REC
SL	The Freetwon Waste Transformers	PRC
UG	East African Centre of Excellence for Renewable Energy and Efficiency	REC

LC-GD-2-3-2020 Accelerating the green transition and energy access partnership with Africa

SteamBioAfrica

Total Cost: **11 725 328,75 €** Requested Grant: **9 937 771,26 €**

Title:
Innovative Large-Scale Production of Affordable Clean Burning Solid Biofuel and Water in Southern Africa: transforming bush encroachment from a problem into a secure and sustainable energy source

Abstract:
We will adapt, tailor, and advance the results from the Horizon 2020 project SteamBio (Grant agreement 636865). SteamBio demonstrated innovative continuous Superheated Steam processing of agro-forestry biomass into clean burning solid biofuel. This was recognised by the EU Innovation Radar as a market ready innovation with three SMEs identified as key innovators, bringing these innovations to SteamBioAfrica. Across Southern Africa invasive encroachment by bush and other woody species, aggravated by climate change, is creating environmental, social, and economic damage. We will demonstrate superheated steam processing of invasive woody biomass into clean burning biofuel and water in rural Namibia. Operating at an industrially relevant scale (250kg/hour throughput) for over one year, we will validate this biofuel with domestic and industrial customers in Namibia, Botswana, and South Africa. We will prepare sustainable and inclusive business plans to justify post project investment in large scale replication that will result in economic impact, and jobs across the region.

Our objectives will be to validate this superheated steam biomass processing as a viable and sustainable source of large scale, clean burning, secure and affordable energy across Southern Africa. We will confirm market acceptance and ensure that it creates greater value than the cost of harvesting and processing. Quantifying over five different market opportunities, we will create a plan for post project exploitation that will stimulate bush harvesting and reverse encroachment. This will lead to long term socio-economic and environmental benefit across the region.

SteamBioAfrica will enable large scale, clean, secure, and affordable energy in Africa. It addresses multiple challenges facing Southern Africa, low carbon energy, climate change impacts and resource efficiency. It will transform these challenges into a resilient source of clean and secure energy, water, and sustainable rural economies.

Country	Applicant Legal Name	Type of organisation
ES	**AGENCIA ESTATAL CONSEJO SUPERIOR DEINVESTIGACIONES CIENTIFICAS**	**REC**
BW	Botswana Institute for Technology Research and Innovation	REC
DE	COLLABORATING CENTRE ON SUSTAINABLE CONSUMPTION AND PRODUCTION GGMBH	REC
ES	EVENOR TECH SL	PRC
ES	MAGCE URBION SL	PRC
IE	CELIGNIS LIMITED	PRC
NA	Carbon Capital (Pty) Ltd	PRC
NA	Namibia Biomass Industry Group	OTH
NA	Cheetah Conservation Fund	REC
NA	NAMIBIA UNIVERSITY OF SCIENCE AND TECHNOLOGY	HES
SE	STIFTELSEN SKOGSBRUKETS FORSKNINGSINSTITUT - SKOGFORSK	REC
SE	SVERIGES LANTBRUKSUNIVERSITET	HES
UK	C E Bennett & Sons Ltd	PRC
UK	SteamBio Limited	PRC
ZA	Ekasi Energy	PRC

LC-GD-2-3-2020 Accelerating the green transition and energy access partnership with Africa

REFFECT AFRICA

Total Cost: **8 093 651,25 €** Requested Grant: **6 962 820,78 €**

Title:
RENEWABLE ENERGIES FOR AFRICA: EFFECTIVE VALORIZATION OF AGRI-FOOD WASTES

Abstract:
Population without access to electricity is set to increase again in 2020 after 6 years of decline in Africa. The number of people gaining access to electricity in Africa has increased greatly: the number of people without access to electricity dropped from almost 860 million in 2018 to 770 million in 2019, a record low in recent years . Nonetheless, past progress is being reversed due to the Covid-19 pandemic. In order to tackle this, the present proposal will demonstrate innovative, reliable and adapted sustainable energy solutions based on the valorization of biomass wastes from agriculture and the food industry through biomass gasification. REFFECT AFRICA will adapt and optimize these technologies to a wide variety of biomass wastes: olive mill residues, almond hulls and husks, millet, rice, sorghum or peanut wastes and sugarcane bagasse, among others locally available. Three full- scale demonstrators will be built in Morocco, Ghana and South Africa to consider both urbanized and rural contexts in Africa, on- and off-grid solutions, as well as different socio-economic backgrounds. The project will carry out comprehensive LCA and LCC of each supply chain and will consider the climate adaptation and mitigation potential of this technology compared to other technologies and solutions in the African social, economic and environmental contexts. REFFECT AFRICA will tackle the development of renewable energy sources, providing solutions for on-grid and off-grid communities, and their integration into the existing energy system. It will consider the generation of renewable energy, the transmission, and the use of storage systems.With the aim to closing all water- energy-food links, the project will work on obtaining biochar from the gasifier, and will be improved to provide a valuable fertilizer to local farmers. The demonstrators will include a robust but reliable water laboratory to provide their location with basic but often lacking testing services.

Country	Applicant Legal Name	Type of organisation
ES	**UNIVERSIDAD DE JAEN**	**HES**
DE	Adrian Letzner	PRC
DE	Ankron Water Services GmbH	PRC
DZ	UNIVERSITY DE BLIDA	HES
EG	Upper Egypt electricity Distribution Company	PRC
EG	ASWAN UNIVERSITY	HES
ES	FICOSTERRA	PRC
ES	INSTITUTO TECNOLOGICO DE CANARIAS,S.A.	PRC
ES	NASCO FOUNDATION	OTH
ES	UNIVERSIDAD DE HUELVA	HES
GH	Sawla- Tuna- Kalba District assembly	PUB
GH	UNIVERSITY OF ENERGY AND NATURAL RESOURCES	HES
IT	Tecnologie per la Riduzione delle Emissioni Engineering Srl	PRC
IT	TIFEO SRL	PRC
IT	UNIVERSITA DI PISA	HES
MA	DAR AZZAYTOUNE	PRC
MA	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE	REC
MZ	UNIVERSIDADE EDUARDO MONDLANE	HES
NG	University of Port Harcourt	PRC
NO	PS-ITECH AS	PRC
PT	IRRADIARE INVESTIGACAO E DESENVOLVIMENTO EM ENGENHARIA E AMBIENTE LDA	PRC
SN	Moustapha SENE	PRC
TN	Solar FM	PRC
TN	VIARAYA	PRC
TN	INSTITUT DE L'OLIVIER	REC
TZ	Bwiri Enterprise	PRC
UG	MAKERERE UNIVERSITY	HES
ZA	ETHEKWINI MUNICIPALITY	PUB

ZA	DURBAN UNIVERSITY OF TECHNOLOGY	HES

LC-GD-3-1-2020 Closing the industrial carbon cycle to combat climate change

PYROCO2

Total Cost: **43 887 817,75 €** Requested Grant: **39 999 561,18 €**

Title:
Demonstrating sustainable value creation from industrial CO2 by its thermophilic microbial conversion into acetone

Abstract:
Achieving climate neutrality by 2050 requires a rapid paradigm shift towards the implementations of new, climate-positive solutions that can boost the European market. Emerging new solutions for carbon capture, utilization, and storage (CCUS) have great potential to decarbonize production in the chemical industry, while allowing value-creation from own carbon emissions. In this context, the PYROCO2 project will demonstrate the scalability and economic viability of carbon capture and utilization (CCU) to make climate-positive acetone out of industrial CO2 and renewable electricity derived hydrogen. Core of the technology is an energy-efficient thermophilic microbial bioprocess that is projected towards a reduction of 17 Mt CO2eq by 2050. The acetone produced by the PYROCO2 process will be demonstrated as an ideal platform for the catalytic synthesis of a range of chemicals, synthetic fuels, and recyclable polymer materials from CO2, generating a portfolio of viable business cases and pre-developed processes for replication and commercialisation. The PYROCO2 demonstrator plant will be able to produce at least 4000 tonnes acetone annually from 9100 tonnes of industrial CO2 and green hydrogen. It will be located at the industrial cluster of Heroya Industrial Park in southern Norway, a strategic placement that guarantees access to CO2 feedstock and green energy at a competitive price and connects several carbon-intensive industries with chemical production through industrial symbiosis. From here, the PYROCO2 project will represent a key driver for the emergence of CCU Hubs across Europe. Besides the large-scale demonstration and full financial, regulatory, and environmental assessment of the PYROCO2 technology, the project will explore the sphere of public acceptance and market exploitation to further encourage the emergence of the CCU market.

Country	Applicant Legal Name	Type of organisation
NO	**SINTEF AS**	**REC**
CH	FIRMENICH SA	PRC
CZ	RANIDO, S.R.O.	PRC
DE	KARLSRUHER INSTITUT FUER TECHNOLOGIE	HES
DK	LuaBio ApS	PRC
DK	DANMARKS TEKNISKE UNIVERSITET	HES
ES	BIOPROCESS TECHNOLOGY SL	PRC
FR	ARKEMA FRANCE SA	PRC
FR	AXELERA - ASSOCIATION CHIMIE-ENVIRONNEMENT LYON ET RHONE-ALPES	REC
FR	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	REC
IT	CIAOTECH Srl	PRC
IT	ECOINNOVAZIONE SRL	PRC
IT	NEXTCHEM SPA	PRC
NO	Her?ya Industripark	PRC
NO	VESTFOLD OG TELEMARK FYLKESKOMMUNE	PUB
NO	NORCE NORWEGIAN RESEARCH CENTRE AS	REC
NO	Norner Research AS	REC
SE	CHALMERS TEKNISKA HOEGSKOLA AB	HES
TH	SCG Chemicals	PRC
UK	JOHNSON MATTHEY PLC	PRC

LC-GD-3-1-2020 Closing the industrial carbon cycle to combat climate change

ECO2Fuel

Total Cost: **20 095 545 €** Requested Grant: **16 620 616,01 €**

Title:
LARGE-SCALE LOW-TEMPERATURE ELECTROCHEMICAL CO2 CONVERSION TO SUSTAINABLE LIQUID FUELS

Abstract:
ECO2Fuel aims to design, manufacture, operate, and validate the worldwide first low-temperature 1MW direct, electrochemical CO2 conversion system to produce economic and sustainable liquid e-fuels (C1-C4 alcohols) under industrially relevant conditions (TRL7). This will be achieved by the direct electrocatalytic reduction of CO2 using water and renewable electricity without hydrogen at temperatures and pressures below 80?C and 15 bar, respectively. Due to its compatibility to dynamic loads, the ECO2Fuel system allows the efficient and direct coupling to renewable energy sources (RES) or facilitating grid-balancing service. The ECO2Fuel system is based on a genuinely unique CO2 co-electrolysis technology developed under the Horizon 2020 project LOTER.CO2M. This system will be optimized to produce efficiently and selectively C1-C4 alcohols and upscaled from 5kW with an unpretentious approach to a size of 1MW within the ECO2Fuel project. The produced e-fuels will be evaluated as green alternative feedstock in two of Europe?s CO2 emission heavy sectors, transport and energy.

Country	Applicant Legal Name	Type of organisation
DE	**DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV**	**REC**
BE	NV BEKAERT SA	PRC
BE	VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.	REC
DE	RWE POWER AKTIENGESELLSCHAFT	PRC
DE	Think11 GmbH	PRC
DK	DANMARKS TEKNISKE UNIVERSITET	HES
GR	MONOLITHOS KATALITES KE ANAKIKLOSI ETAIREIA PERIORISMENIS EVTHINIS	PRC
ES	ARIEMA ENERGIA Y MEDIOAMBIENTE SL	PRC
ES	UNIVERSITAT POLITECNICA DE VALENCIA	HES
IL	POCELL TECH LTD	PRC
IT	INDUSTRIE DE NORA SPA-IDN	PRC
IT	META GROUP SRL	PRC
IT	CENTRO RICERCHE FIAT SCPA	REC
IT	CONSIGLIO NAZIONALE DELLE RICERCHE	REC
NL	HYGEAR BV	PRC

LC-GD-3-2-2020 Demonstration of systemic solutions for the territorial deployment of the circular economy

EcoeFISHent

Total Cost: **18 583 667,5 €** Requested Grant: **15 170 720,15 €**

Title:
Demonstrable and replicable cluster implementing systemic solutions through multilevel circular value chains for eco-efficient valorization of fishing and fish industries side-streams

Abstract:
EcoeFISHent demonstrates a replicable systemic and sustainable cluster for territorial deployment of the climate-neutral circular economy by creating six multilevel and synergic circular value chains (CVC) interconnecting blue- and green-economies to reconcile human industrial and economic activities with marine ecosystems and marine protected areas.

The EcoeFISHent innovative bio-mass pre-treatment and extraction technologies will enable sustainable and efficient exploitation of fish processing side-streams (FPS) by obtaining bio-actives and galantine for high value-added food supplements and skin care products, biodegradable and compostable barrier layer for food packaging. Other fishing- and fish-industry side-streams (FFS) will undergo the Black Soldier Fly bioconversion to yield innovative soil fertilizer, oil for biodiesel and chitin for cosmetic applications. End of life fishing nets from aquaculture and fisheries will be recycled and converted into automotive polymer-based components and into packaging for cosmetic products. The multilevel interconnected cluster will be managed by a cloud-based platform communicating with physical IoT systems enabling safe and efficient operation of the logistic and transport infrastructure. The cluster busines model and the cluster digital twin will allow simulating critical and optimal scenarios for quantitative analysis of cluster performance measured by dedicated KPIs, also enabling the assessment of the cluster replicability in other geographic areas and fostering investments pipelines. Community and stakeholder?s involvement will be promoted also in the implementation of specific actions for marine ecosystem preservation by modeling, application of better practices and technologies for strongly reducing by-catch and for stopping ghost gears. Social and justice inclusion programs will be implemented by employing disadvantaged individuals, to increase overall cluster employment and to apply distributive justice criteria

Country	Applicant Legal Name	Type of organisation
IT	**FINANZIARIA LIGURE PER LO SVILUPPOECONOMICO FI.L.S.E. SPA**	**OTH**
BG	NASEKOMO AD	PRC
ES	SYSPRO AUTOMATION, S.L.U.	PRC
ES	AIMPLAS - ASOCIACION DE INVESTIGACION DE MATERIALES PLASTICOS Y CONEXAS	REC
ES	ASOCIACION NACIONAL DE FABRICANTES DE CONSERVAS DE PESCADOS Y MARISCOS-CENTRO TECNICO NACIONAL DE CONSERVACION DE PRODUCTOS DE LA PESCA	REC
FR	Le Pouvoir des Id?es	PRC
IL	CLOUD - CONSULTING AND PRODUCTION IT INTEGRATION LTD	PRC
IL	GOMEH SOLUTIONS LTD	PRC
IL	BAR ILAN UNIVERSITY	HES
IT	AGENZIA REGIONALE PER LA PROTEZIONE DELL'AMBIENTE LIGURE - ARPAL	PUB
IT	ANGEL CONSULTING SAS DI MATTEO ZANOTTI RUSSO & C	PRC
IT	AQUA SOCIETA AGRICOLA SRL	PRC
IT	ARDES - S.R.L.	PRC
IT	AZIENDA MULTISERVIZI E D'IGIENE URBANA GENOVA S.P.A.	PRC
IT	CONSORZIO PER LA PROMOZIONE DELLA CULTURA PLASTICA PROPLAST	OTH
IT	COOP ITALIA - SOCIETA' COOPERATIVA SCRL	PRC
IT	FEDERCOOPESCA	OTH
IT	GENERALE CONSERVE SPA	PRC
IT	Green Evolution	PRC
IT	Industria Cartaria Santo Spirito Spa	PRC
IT	LIMHEALTH SRL	PRC
IT	MICAMO srl	PRC
IT	OMNIA COSORZIO OPPORTUNIT? LAVORATIVE SOCIET? CONSORTILE	OTH
IT	PROJECT SAS DI MASSIMO PERUCCA	PRC
IT	SAES GETTERS S.P.A.	PRC
IT	Themis S.p.A.	PRC
IT	WIISE SRL	PRC

Country	Applicant Legal Name	Type of organisation
IT	WWF Italy ONG ONLUS	OTH
IT	CONSORZIO DI GESTIONE DELL'AREA MARINA PROTETTA DEL PROMONTORIO DI PORTOFINO	REC
IT	CONSORZIO PER IL CENTRO INTERUNIVERSITARIO DI BIOLOGIA MARINA ED ECOLOGIA APPLICATA G. BACCI	REC
IT	TECNOLOGIE INNOVATIVE PER IL CONTROLLO AMBIENTALE E LO SVILUPPO SOSTENIBILE SOCIETA CONSORTILE A RESPONSABILITA LIMITATA	REC
IT	UNIVERSITA DEGLI STUDI DI GENOVA	HES
KE	Panel of Eminent Development Consultants Limited	OTH
NO	NOFIMA AS	REC

LC-GD-3-2-2020 Demonstration of systemic solutions for the territorial deployment of the circular economy

Agro2Circular

Total Cost: **16 846 032,5 €** Requested Grant: **14 074 828,28 €**

Title:
TERRITORIAL CIRCULAR SYSTEMIC SOLUTION FOR THE UPCYCLING OF RESIDUES FROM THE AGRIFOOD SECTOR

Abstract:
Agro2Circular (A2C) project is focused on the implementation of the first territorial systemic solution for the upcycling of most relevant residues in the agrifood sector (fruits& vegetables and plastic multilayers) into high added value products, powered by a digital tool and constructed upon a systemic approach with high replicable/scalable potential. Through this solution, A2C will face important industrial, economic & social challenges in the agrifood sector:
1) The fruits & vegetables (F&V) are the group of major contribution to food waste along the food supply chain rising up to > 40% of waste, and are as excellent source of natural bioactives. However, these F&V wastes are not exploited. A2C will valorise them by green routes to obtain these bioactives for the production of nutraceuticals, functional foods, and cosmetics.
3) Multilayer plastic films are widely used as industrial packaging for the protection of food and agriculture for crops due to their unique barrier properties. However, there is a lack of sorting and recycling technologies for an economic and environmentally sustainable valorisation of these multilayer structures. A2C will develop the first recycling value chain for post-industrial multilayer films based on a synergistic approach combining innovative sorting, physical delamination, enzymatic depolymerisation, decontamination & mechanical recycling.
3) There is a lack of digitalisation in the agrifood sector. A2C will implement a Data Integration System (DIS) as a digital tool for ensuring traceability and as Predictive Decision Tool in the agrifood sector.
A2C will be a demonstrated in the Regi?n de Murcia (Spain) and replicable systemic solution throughout Europe for the territorial deployment of the circular economy.

Country Code	Applicant Legal Name	Type of organisation
ES	**ASOCIACION EMPRESARIAL DE INVESTIGACION CENTRO TECNOLOGICO DEL CALZADOY DEL PLASTICO DE LA REGION DE MURCIA**	**REC**
AT	UNIVERSITAET FUER BODENKULTUR WIEN	HES
BE	ASSOCIATION EUROPEENNE DES AGENCES DE DEVELOPPEMENT	OTH
CH	EVRYTHNG S?rl	PRC
DE	saperatec GmbH	PRC
GR	EXUS SOFTWARE MONOPROSOPI ETAIRIA PERIORISMENIS EVTHINIS	PRC
ES	Agrotransformados, S.A.	PRC
ES	ASOCIACI?N DE ORGANIZACIONES DE PRODUCTORES DE FRUTAS Y HORTALIZAS DE LA REGI?N DE MURCIA	OTH
ES	ASOCIACION ESPANOLA DE NORMALIZACION	OTH
ES	CETEC BIOTECHNOLOGY SL	PRC
ES	CITROMIL SL	PRC
ES	DMC RESEARCH CENTER SL	PRC
ES	ECOTRACE PLASTIC, SL	PRC
ES	EQUMETRICS SL	PRC
ES	EVERSIA INNOVA SA	PRC
ES	Fundaci?n Primafrio	PRC
ES	FUNDACION CLUSTER AGROALIMENTARIO DE LA REGION DE MURCIA	OTH
ES	Green World Compounding	PRC
ES	INSTITUTO DE FOMENTO DE LA REGION DE MURCIA	PUB
ES	IRIS TECHNOLOGY SOLUTIONS, SOCIEDAD LIMITADA	PRC
ES	Laboratorios Almond S.L.	PRC
ES	REGENERA LEVANTE SL	PRC
ES	REGION DE MURCIA	PUB
ES	SENIOR EUROPA SOCIEDAD LIMITADA	PRC
ES	SOLPLAST SA	PRC
ES	TRIBU BIO & WILD SL	PRC
ES	ASOCIACION EMPRESARIAL DE INVESTIGACION CENTRO TECNOLOGICO NACIONAL DE LA CONSERVA	REC
ES	FUNDACION CAJAMAR	REC

Country Code	Applicant Legal Name	Type of organisation
ES	UNIVERSIDAD DE ALICANTE	HES
ES	UNIVERSITAT DE VALENCIA	HES
FI	TEKNOLOGIAN TUTKIMUSKESKUS VTT OY	REC
IT	Alter srl	PRC
IT	FONDAZIONE ICONS	OTH
IT	STAZIONE SPERIMENTALE PER L'INDUSTRIA DELLE CONSERVE ALIMENTARI	REC
IT	TECNOALIMENTI S.C.P.A.	REC
IT	UNIVERSITA COMMERCIALE LUIGI BOCCONI	HES
IT	UNIVERSITA' DEGLI STUDI DI MILANO-BICOCCA	HES
LT	LIETUVOS PRAMONININKU KONFEDERACIJA	OTH
NL	STICHTING CENTRE OF EXPERTISE WATERTECHNOLOGIE	REC
NL	STICHTING WETSUS, EUROPEAN CENTRE OF EXCELLENCE FOR SUSTAINABLE WATER TECHNOLOGY	REC
UK	Mellizyme Biotechnology Limited	PRC

LC-GD-3-2-2020 Demonstration of systemic solutions for the territorial deployment of the circular economy

FRONTSH1P

Total Cost: **18 968 452,5 €** Requested Grant: **16 118 418,01 €**

Title:

A FRONTrunner approacTransition to a circular & resilient future: deployment of systemic solutions with the support of local clusters and the development of regional community-based innovation schemes

Abstract:

FRONTSH1P aims at ensuring green and just transition of the Polish ??dzkie Region towards decarbonization and territorial regeneration through demonstration at TRL7 of highly replicable circular systemic models and MONAD aims is to create a territorial cluster of circular initiatives to accelerate the transition to a more green, resilient economy, able to provide sustainable responses to the need of the involved regions. The proposed model will be implemented and demonstrated in ??d? Region, where key territorial partners, and particularly the Regional Institution, the scientific partner, the representative of civil society and Industry Groups, will play a relevant role in promoting, facilitating and enabling systemics and circular economy at regional scale. The involvement of those relevant actors will allow the promotion of the circular economy and to reach relevant actors, such as municipalities, companies, consumers and civil society, which will be engaged in a participatory approach to collect needs and perceived constraints. From this activity, the cluster system will identify and define a circular economy strategy, with clear objectives, measurable targets and a proper monitoring method. Moreover, the cluster will facilitate collaborations and co-operations among relevant actors for boosting circularity. It will mean to:

- Identify already available initiatives and policies at local, regional, national and international level
- Create platforms to explore opportunities and to share information, best practices and successful examples
- Activate a strong communication between universities, businesses and civil society for the technological transfer
- Exchange information and experiences with other Regions and Countries

The proposal will foresee activities, such as the definition of regulatory instruments aimed at accelerating the transition to a circular economy creating a Circular Economy Action Plan (CEAP) in which the proposed systemic solution is embedded.

Country	Applicant Legal Name	Type of organisation
PL	**K-FLEX POLSKA SP ZOO**	**PRC**
BE	ASSOCIATION EUROPEENNE DES AGENCES DE DEVELOPPEMENT	OTH
BE	VELTHA IVZW	REC
CH	Promix Solutions AG	PRC
DE	Burkhardt GmbH	PRC
GR	DIMOS LEVADEWN	PUB
GR	PERIFEREIA STEREAS ELLADAS	PUB
GR	ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	REC
GR	NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA	HES
ES	AGENCIA ESTATAL CONSEJO SUPERIOR DEINVESTIGACIONES CIENTIFICAS	REC
ES	FUNDACION CARTIF	REC
IT	Carmasciando societ? agricola srl	PRC
IT	Consorzio Gruppo di Azione Locale Irpinia	PRC
IT	CONSORZIO PER LA PROMOZIONE DELLA CULTURA PLASTICA PROPLAST	OTH
IT	NOVAMONT SPA	PRC
IT	STAM SRL	PRC
IT	LIBERA UNIVERSITA DI BOLZANO	HES
IT	SVILUPPO TECNOLOGIE E RICERCA PER L'EDILIZIA SISMICAMENTE SICURA ED ECOSOSTENIBILE SCARL	REC
NL	Association Circulair Friesland	OTH
NL	PROVINCIE FRYSLAN	PUB
NL	Waste4ME BV	PRC
PL	Centrum Promocji i Rozwoju Inicjatyw Obywatelskich OPUS	PRC
PL	Gmina Parzeczew	PRC
PL	KPMG Advisory Spolka z ograniczona odpowiedzialnoscia sp. k.	PRC
PL	LEDA POLYMER SP ZOO	PRC
PL	SIRMAX POLSKA Sp. z o.o.	PRC
PL	WOJEWODZTWO LODZKIE	PUB
PL	Zwiazek Miedzygminny Bzura	PRC

Country	Applicant Legal Name	Type of organisation
PL	CENTRUM BADAN I INNOWACJI PRO-AKADEMIA STOWARZYSZENIE	REC
PL	POLITECHNIKA LODZKA	HES
PL	UNIWERSYTET LODZKI	HES
PT	COMISSAO DE COORDENACAO E DESENVOLVIMENTO REGIONAL DO NORTE	PUB
PT	LABORATORIO IBERICO INTERNACIONAL DE NANOTECNOLOGIA	REC
PT	Laboratorio Nacional de Energia e Geologia I.P.	REC

LC-GD-3-2-2020 Demonstration of systemic solutions for the territorial deployment of the circular economy

CIRCULAR FOAM

Total Cost: **19 192 150 €** Requested Grant: **15 756 499,01 €**

Title:
Systemic expansion of territorial CIRCULAR Ecosystems for end-of-life FOAM

Abstract:
CIRCULAR FOAM aims at the demonstration of a territorial cross-sectorial systemic solution for the circularity of high performance plastics from diverse applications on the example of rigid polyurethane foams used as insulation in refrigerators and in construction. The waste streams will be upcycled chemically, which means that they will be valorised to become new virgin-equivalent feedstock for the chemical industry to produce new high performance plastics. In this way, it will become possible to replace limited fossil-based resources by the renewable waste-based ones, thus not only reducing waste, but also becoming more sustainable and making a step forward to climate neutrality. The project and the demonstration are targeting a concrete implementation of the solution in question in the selected regions after the project and developing a blueprint for both the geographical transferability to other regions and for the technological extension of the circularity principle to a number of further waste materials from further applications. We consider here two carefully selected regions: NRW/Germany, Silesia/PL and Greater Amstedam Region. The consortium is composed of all actors required to close the circular value chain (process industries, manufacturing, waste management, technology providers, incl. also research partners, logistics, social scientists and economist working with with public sector and citizens. After practical implementation and replication in EU of the systemic solution, following reductions will have been attained by 2040: 586.000 tons per year less waste, 18,6 mln. tons less CO2 emission; 118 mln EUR less cost for incineration for the PU producers. The system will signifficantly contribute to resilience in regions.

Country Code	Applicant Legal Name	Type of organisation
DE	**COVESTRO DEUTSCHLAND AG**	**PRC**
AT	BT-WOLFGANG BINDER GMBH	PRC
BE	UNILIN BVBA	PRC
CH	EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH	HES
DE	INTERSEROH Dienstleistungs GmbH	PRC
DE	DECHEMA GESELLSCHAFT FUER CHEMISCHE TECHNIK UND BIOTECHNOLOGIE E.V.	REC
DE	FORSCHUNGSZENTRUM JULICH GMBH	REC
DE	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	REC
DE	RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN	HES
DE	RUHR-UNIVERSITAET BOCHUM	HES
DE	TECHNISCHE UNIVERSITAT DORTMUND	HES
IE	KINGSPAN RESEARCH AND DEVELOPMENTS LIMITED	PRC
IT	ELECTROLUX ITALIA SPA	PRC
NL	BIOBTX BV	PRC
NL	CIRCULARISE BV	PRC
NL	RIJKSUNIVERSITEIT GRONINGEN	HES
NL	STICHTING HOGESCHOOL VAN AMSTERDAM	HES
NL	STICHTING NEDERLANDSE WETENSCHAPPELIJK ONDERZOEK INSTITUTEN	REC
PL	GORNOSLASKO-ZAGLEBIOWSKA METROPOLIA	PUB
PL	IZNAB SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA	PRC
PL	Park Naukowo Technologiczny Euro-Centrum sp. z o.o.	PRC
PL	UNIWERSYTET EKONOMICZNY WE WROCLAWIU	HES

LC-GD-4-1-2020 Building and renovating in an energy and resource efficient way

ARV

Total Cost: **21 275 779,25 €** Requested Grant: **19 998 410,75 €**

Title:
Climate Positive Circular Communities

Abstract:
The vision of the ARV project is to contribute to speedy wide scale implementation of Climate Positive Circular Communities (CPCC) where people can thrive and prosper for generations to come.
The overall aim is to demonstrate and validate attractive, resilient, and affordable solutions for CPCC that will significantly speed up the deep energy renovations and the deployment of energy and climate measures in the construction and energy industries.
To achieve this, the ARV project will employ a novel concept relying on a combination of 3 conceptual pillars, 6 demonstration projects, and 9 thematic focus areas.
The 3 conceptual pillars are integration, circularity and simplicity. Integration in ARV means the coupling of people, buildings, and energy systems, through multi-stakeholder co-creation and use of innovative digital tools. Circularity in ARV means a systematic way of addressing circular economy through automated use of LCA, digital logbooks and material banks. Simplicity in ARV means to make the solutions easy to understand and use for all stakeholders, from manufacturers to end-users.
The 6 demos are urban regeneration projects in 6 locations around Europe. They have been carefully selected to represent the different European climates and contexts, and due to their high ambitions in environmental, social and economic sustainability. Renovation of social housing and public buildings are specifically focused. Together, they will demonstrate more than 50 innovations in more than 150,00 m2 of buildings.
The 9 thematic focus areas are 1) Effective planning and implementation of CPCCs, 2) Citizen engagement, environment and well-being, 3) Sustainable building re(design) 4) Resource efficient manufacturing and construction workflows, 5) Integrated renewables and storage, 6) Energy management and flexibility, 7) Monitoring and evaluation, 8) Business models, financial mechanisms, policy and exploitation, 9) Communication, dissemination, and stakeholder outreach.

Country Code	Applicant Legal Name	Type of organisation
NO	**NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU**	**HES**
BE	COMITE EUROPEEN DE COORDINATION DE L'HABITAT SOCIAL AISBL	OTH
BE	CONSEIL DES ARCHITECTES D'EUROPE	OTH
CH	GREEN DIGITAL FINANCE ALLIANCE	OTH
CZ	nano power a.s.	PRC
CZ	statutarni mesto Karvina	PRC
CZ	CESKE VYSOKE UCENI TECHNICKE V PRAZE	HES
DK	DANFOSS A/S	PRC
DK	ENFOR AS	PRC
DK	PROJECT ZERO A/S	OTH
DK	SONDERBORG ANDELSBOLIGFORENING	OTH
DK	Center Danmark Drift ApS	REC
DK	DANMARKS TEKNISKE UNIVERSITET	HES
ES	AYUNTAMENT DE PALMA DE MALLORCA	PUB
ES	Institut Balear de l'Habitatge	PRC
ES	Metrovacesa S.A.	PRC
ES	SISTEMES AVANCATS D ENERGIA SOLAR TERMICA SCCL	PRC
ES	FUNDACIO INSTITUT DE RECERCA DE L'ENERGIA DE CATALUNYA	REC
IT	DISTRETTO TECNOLOGICO TRENTINO SCARL	OTH
IT	DOLOMITI ENERGIA RINNOVABILI SOCIETA A RESPONSABILITA' LIMITATA	PRC
IT	ACCADEMIA EUROPEA DI BOLZANO	REC
IT	POLITECNICO DI TORINO	HES
IT	UNIVERSITA DEGLI STUDI DI TRENTO	HES
NL	Bos Installatiewerken B.V.	PRC
NL	Buro de Haan Informatietechnologie B.V.	PRC
NL	GEMEENTE UTRECHT	PUB
NL	iwell B.V.	PRC
NL	mex architects bv	PRC

Country Code	Applicant Legal Name	Type of organisation
NL	Rc Panels B.V.	PRC
NL	STICHTING BO-EX 91	OTH
NL	Stichting Mitros	PRC
NL	Stichting Portaal	OTH
NL	Stichting Hogeschool Utrecht	HES
NL	UNIVERSITEIT UTRECHT	HES
NO	OSLO KOMMUNE	PUB
NO	SINTEF AS	REC

LC-GD-4-1-2020 Building and renovating in an energy and resource efficient way

oPEN Lab

Total Cost	**21 799 482,5 €**	Requested Grant	**19 920 874,26 €**

Title:
Open innovation living labs for Positive Energy Neighbourhoods

Abstract:
The aim of the oPEN Lab is to identify replicable, commercially viable solution packages enabling the achievement of positive energy neighbourhoods within existing urban contexts that are seamlessly integrated into the local energy system as an active micro-energy hub, and to test these technologies and package as an integrated solution at neighbourhood scale.
Three open innovation living labs in the cities of Genk (BE), Pamplona (ES) and Tartu (EE) will test combinations of different close-to-market ready technologies and services and study their performance as a unique operating system. Focus is on demonstrating innovations in an integrated approach combining sustainable design tailored to the local context, seamless industrial renovation workflows, renewable energy generation combined with energy storage systems, urban service facilities and smart operation, life cycle thinking and circularity, and this across the whole value chain, targeting the whole life cycle of the building and its neighbourhood, in view of scaling up and wide replication. A user driven and participatory approach with the neighbourhood?s community will be rolled out for a holistic and positive energy vision for the neighbourhood, going beyond citizen awareness raising activities.
oPEN Lab is a unique collaboration aligned with the Open Innovation quadruple helix model where a) industry (SMEs, large companies, start-ups and scale-ups in both construction and energy value chains), b) government (local public administration), c) academia/RTOs and d) civil participants (end users, NGOs) work together to co-create and drive structural changes that will result in high TRL levels, with great focus on exploitation of results and wide replication.

Country	Applicant Legal Name	Type of organisation
BE	**VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.**	**REC**
BE	Cast4All	PRC
BE	DAIKIN EUROPE N.V.	PRC
BE	Dcinergy	PRC
BE	EUROPEAN NETWORK OF LIVING LABS IVZW	OTH
BE	FLUX50	OTH
BE	FUTECH	PRC
BE	Groep Van Roey	PRC
BE	Litobox BV	PRC
BE	Nieuw Dak	PUB
BE	STAD GENK	PUB
BE	Stebo vzw	OTH
BE	BUILDINGS PERFORMANCE INSTITUTE EUROPE ASBL	REC
BE	INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM	REC
BE	KATHOLIEKE UNIVERSITEIT LEUVEN	HES
CH	HAUTE ECOLE SPECIALISEE DE SUISSE OCCIDENTALE	HES
DE	IFOK GmbH	PRC
DE	STEINBEIS INNOVATION GGMBH	REC
EE	AS FORTUM TARTU	PRC
EE	EESTI ENERGIA AS	PRC
EE	MITTETULUNDUSUHING TARTU REGIOONI ENERGIAAGENTUUR	OTH
EE	TARTU LINN	PUB
EE	Institute of Baltic Studies	REC
EE	TALLINNA TEHNIKA?LIKOOL	HES
EE	TARTU ULIKOOL	HES
GR	SYMPRAXIS TEAM P.C.	PRC
ES	ALONSO HERNANDEZ & ASOCIADOS ARQUITECTOS SL	PRC
ES	AYUNTAMIENTO DE PAMPLONA	PUB
ES	BAX INNOVATION CONSULTING SL	PRC
ES	Obras Especiales Edificacion e Infraestructuras S.A.U.	PRC
ES	FUNDACION CENER	REC
ES	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	HES

NL	Habenu-van de Kreeke Vastgoedservice BV	PRC

LC-GD-4-1-2020 Building and renovating in an energy and resource efficient way

PROBONO

Total Cost: **25 252 011,25 €** Requested Grant: **20 158 488,63 €**

Title:
The Integrator-centric approach for realising innovative energy efficient buildings in connected sustainable green neighbourhoods

Abstract:
PROBONO brings together a consortium of major construction and consultancy firms, asset utility managers, municipalities, solution providers and experts to execute 6 Living Labs (LL) in interconnected Green Buildings and Neighbourhoods (GBN). PROBONO will:
? Provide GBN Strategic Planning Tools in spatial, economic, technical, environmental, regulatory, and social context aligned with city and urban masterplans and policy frameworks.
? Maximise the adoption of the PROBONO approach and innovations through a range of participatory methods that promote stakeholders (including citizens) partaking in co-designing and co-delivering a sustainable GBN.
? Provide an inventory of 12 innovative GBN Construction and Renovation Transition Acceleration Enablers with GBN Insulation along with green and cool roof-centric innovative solutions; GBN related Construction and Lifecycle GBN blueprints, processes and controls including robots; GBN Building Materials/upcycling; Social distancing measures considering epidemiology risk.
? Provide a cloud-based decision-support planning tool to develop an optimized design for carbon neutral energy GBN systems incorporating PROBONO innovative solutions on GBN demand and response dynamics, including metering different utilities with electricity, gas, warm energy, cold energy, water, linked to Smart IoT gateway and Energy Optimisation midleware. Central to our approach are Building Integrated Photovoltaics with optimized visual appearance; GB Positive Energy Package combining geothermal, PV and micro-turbines with efficient HVAC technologies, green roofs, custom insulation, and GB energy optimisation; GBN Energy Storage solutions focusing on innovative flow and 2nd life batteries, and integrated Infrastructure Mobility Energy EV charging station value chains.
? Provide a GBN Digital Twin (DT) implemented across the LLs as a virtual representation of associated GBN including operational assets that implicate environmental and efficiency KPI.

Country Code	Applicant Legal Name	Type of organisation
ES	**INGENIERIA ESPECIALIZADA OBRA CIVIL E INDUSTRIAL SA**	**PRC**
BE	De l'Autre C?t? de l'Ecole	PRC
BE	SERCO BELGIUM	PRC
BE	TPF Utilities	PRC
BE	VLTN GCV	PRC
BE	Willis Towers Watson SA/NV	PRC
BE	VIAS INSTITUTE	REC
CH	ANERDGY AG	PRC
CY	EBOS TECHNOLOGIES LIMITED	PRC
CZ	Municipal district of Prague 6	PRC
CZ	CESKE VYSOKE UCENI TECHNICKE V PRAZE	HES
DE	DIN DEUTSCHES INSTITUT FUER NORMUNG E.V.	OTH
DE	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	REC
DK	COWI AS	PRC
DK	GECO GLOBAL APS	PRC
DK	VISBLUE APS	PRC
DK	AARHUS UNIVERSITET	HES
GR	TELCOSERV SCHEDIASMOS YLOPOIHSH & BELTIOPOIHSH THLEPIKOINONIAKON DIKTION-EGKATASTASIS THLEPIKOINONIAKOU EKSOPLISMOU DIATAKSEON-KATASKEVASTIK	PRC
GR	INLECOM INNOVATION ASTIKI MI KERDOSKOPIKI ETAIREIA	REC
GR	POLYTECHNEIO KRITIS	HES
ES	AYUNTAMIENTO DE MADRID	PUB
ES	BEEPLANET FACTORY SL	PRC
ES	Compa??a Espa?ola de Laminaci?n S.L.	PRC
ES	Distrito Castellana Norte SA	PRC

Country Code	Applicant Legal Name	Type of organisation
ES	ECOFOREST GEOTERMIA S.L.	PRC
ES	IDOM CONSULTING, ENGINEERING, ARCHITECTURE S.A.U.	PRC
ES	PNO INNOVATION SL	PRC
ES	FUNDACION CARTIF	REC
ES	FUNDACION CIDAUT	REC
ES	INSTITUTO TECNOLOGICO DE ARAGON	REC
ES	UNIVERSIDAD DE SANTIAGO DE COMPOSTELA	HES
FR	AKKA HIGH TECH	PRC
FR	BOVLABS SAS	PRC
FR	INTERNATIONAL BIODIVERSITY & PROPERTY COUNCIL	OTH
FR	MOTT MACDONALD FRANCE	PRC
FR	Sixense Engineering	PRC
FR	SOPREMA	PRC
FR	INSTITUT DE RECHERCHE TECHNOLOGIQUE SYSTEMX	REC
HR	HRVATSKI SAVJET ZA ZELENU GRADNJU	OTH
IE	DUN LAOGHAIRE RATHDOWN COUNTY COUNCIL	PUB
IE	KONNECTA SYSTEMS LIMITED	PRC
IE	UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN	HES
IT	STAM SRL	PRC
NL	ERASMUS UNIVERSITEIT ROTTERDAM	HES
NO	SMART INNOVATION NORWAY AS	REC
PT	CAPWATT S.A.	PRC
PT	SONAE MC - SERVICOS PARTILHADOS, SA	PRC

LC-GD-5-1-2020 Green airports and ports as multimodal hubs for sustainable and smart mobility

OLGA

Total Cost **34 006 426,75 €** Requested Grant **24 991 644,02 €**

Title:
OLympics & Green Airports

Abstract:
Our world is facing unprecedented environmental challenges. Keeping the global temperature rise below 1.5°C implies a mandatory drop in CO2 emissions. Against this backdrop, the EC has issued the European Green Deal: an ambitious plan towards a fully sustainable economy, including aviation. With one million species endangered, biodiversity restoration is another key issue. Once aviation has recovered from the COVID pandemic effects, global air traffic as a major enabler of connectivity and economic growth will resume and keep increasing. This emphasizes the challenge of reducing the environmental impact of the air transportation sector as a whole.
OLGA partners (airports, airline, handler, industry, research, SMEs) unite a wealth of expertise to contribute to solving this complex challenge: efficient and carbon neutral airport and airline operations, sustainable logistics, smart energy & mobility, intermodality for passengers and freight, emission/air quality assessments, green construction and circular end-of-life solutions.
Sustainable Aviation Fuels supply chains will be integrated in conventional jet fuel infrastructure. Complementary types of low-emission mobilities, electric ground support equipment, hydrogen infrastructure and reduced carbon airside operations will be demonstrated.
OLGA will achieve significant quantified advances already within the first three years, ready for exploitation by partners. This will lead to proven CO2 reduction, air quality improvement and biodiversity preservation with involvement of the entire sector's value chain. Sustainable impacts will be realised on societal, environmental and economic levels at local, national and EU scale.
OLGA will have a duration of 60 months, requesting a 25 MEuros grant.
With the 2024 & 2026 Olympics (Paris, Milano), OLGA's airports are uniquely positioned to showcase the environmental innovations, while the airports of Zagreb and Cluj will prove scalability and EU-wide applicability.

Country	Applicant Legal Name	Type of organisation
FR	**AEROPORTS DE PARIS SA**	**PRC**
AT	AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH	REC
BE	AIRPORT REGIONS COUNCIL	OTH
BE	ECATS INTERNATIONAL ASSOCIATION AISBL	OTH
BE	EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION	REC
CH	Assaia International	PRC
CH	BESTMILE SA	PRC
DK	ITW GSE	PRC
FR	ADDAIR	PRC
FR	AIR FRANCE SA	PRC
FR	AIR LIQUIDE FRANCE INDUSTRIE	PRC
FR	batirim SAS	PRC
FR	BUREAU VERITAS EXPLOITATION	PRC
FR	ENVISA SAS	PRC
FR	INEO ENERGY AND SYSTEMS	PRC
FR	L - UP SAS	PRC
FR	PROAVIA	OTH
FR	SAFETY LINE	PRC
FR	SERVICE TECHNIQUE DE L'AVIATION CIVILE	PUB
FR	SMART AIRPORT SYSTEMS	PRC
FR	TRANSDEV GROUP	PRC
FR	WALTR	PRC
FR	ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS	REC
FR	IFP Energies nouvelles	REC
FR	UNIVERSITE PARIS XII VAL DE MARNE	HES
HR	ERICSSON NIKOLA TESLA D.D.	PRC
HR	GDi GISDATA d.o.o.	PRC

Country	Applicant Legal Name	Type of organisation
HR	INFRA PLAN KONZALTNIG JDOO ZA USLUGE	PRC
HR	MEDUNARODNA ZRACNA LUKA ZAGREB DD	PRC
HR	SVEUCILISTE U ZAGREBU FAKULTET PROMETNIH ZNANOSTI	HES
HR	SVEUCILISTE U ZAGREBU, FAKULTET STROJARSTVA I BRODOGRADNJE	HES
IT	CENTRO TESSILE COTONIERO E ABBIGLIAMENTO SPA	PRC
IT	parco lombardo della valle del ticino	PUB
IT	RINA CONSULTING SPA	PRC
IT	SNAM S.P.A.	PRC
IT	SOCIETA PER AZIONI ESERCIZI AEROPORTUALI SEA	PRC
IT	CONSORZIO INTERUNIVERSITARIO PER L'OTTIMIZZAZIONE E LA RICERCA OPERATIVA	REC
RO	AEROPORTUL INTERNATIONAL AVRAM IANCU CLUJ RA	PUB
RO	BS RESONET (RESONATE MP4 Romania)	PRC
RO	MUNICIPIUL CLUJ-NAPOCA	PUB
RO	INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE TURBOMOTOARE - COMOTI	REC
RO	UNIVERSITATEA TEHNICA CLUJ-NAPOCA	HES

LC-GD-5-1-2020 Green airports and ports as multimodal hubs for sustainable and smart mobility

STARGATE

Total Cost: **32 762 940,25 €** Requested Grant: **24 816 121,5 €**

Title:
SusTainable AiRports, the Green heArT of Europe

Abstract:
STARGATE is the response of a consortium of 22 entities led by Brussels Airport committing to create green airports as multimodal hubs for sustainable and smart mobility. STARGATE follows an ambitious strategy to impactfully contribute to the strengthening of the competitiveness of the European air transport ecosystem. The mission of the STARGATE consortium is to develop, test and deploy a set of innovative solutions making the airport ecosystem significantly more sustainable. Our vision is to build with STARGATE a benchmark and be source of inspiration to other airports in Europe and the world.

STARGATE is grounded on five main pillars. The first one is the application of a Digital Twin ecosystem for airports and extensive development to model the Lighthouse Airport, its transport flows, airport process, energy production and supply and emissions management. The second pillar is the focus on multimodal, sustainable and smart mobility through an innovative mobility governance practice to create an intermodal hub, and dedi-cated tools to enhance digitalisation and decarbonisation of transport for both people and goods. Third, the opti-misation of terminal operations, including the deployment of a Terminal Command Centre, a novel approach to circular resource management and the minimisation of resources and waste generated. The fourth pillar tackles the investigation in the energy field and production and use of SAF. Finally, the fifth pillar covers cross-cutting aspects such as minimisation of noise and emissions, assessing non-technological framework conditions and promoting new multi-actor governance arrangements. In STARGATE all actions undertaken are widespread as much as possible, not only to create awareness, but also to serve as valuable inputs and groundwork for other initiatives and projects in the sustainability field. Ultimately, this value chain will improve the quality of life of European citizens and provide solid foundations for a sustainable future

Country	Applicant Legal Name	Type of organisation
BE	**BRUSSELS AIRPORT COMPANY**	**PRC**
BE	AIR CARGO BELGIUM	OTH
BE	BRUSSELS AIRLINES	PRC
BE	DHL Aviation NV	PRC
BE	SKEYES	PRC
BE	Skytanking NV	PRC
BE	SOCIETE NATIONALE DES CHEMINS DE FER BELGES	PRC
BE	TUI Airlines Belgium nv	PRC
BE	VLAAMS-BRABANT	PUB
BE	VLAAMS INSTITUUT VOOR DE LOGISTIEK VZW	OTH
BE	BELGISCH LABORATORIUM VAN DE ELEKTRICITEITSINDUSTRIE LABORELEC CVBA	REC
BE	Quatra	PRC
BE	UNIVERSITEIT HASSELT	HES
BE	VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.	REC
GR	ATHENS INTERNATIONAL AIRPORT S.A.	PRC
FR	AEROPORT TOULOUSE BLAGNAC SA	PRC
FR	SOPRA STERIA GROUP	PRC
HU	Budapest Liszt Ferenc International Airport	PRC
IE	IES R&D	PRC
LU	LUXMOBILITY S.A.R.L.	PRC
NL	TO70 BV	PRC
NL	ERASMUS CENTRE FOR URBAN,PORT AND TRANSPORT ECONOMICS BV	REC

LC-GD-5-1-2020 Green airports and ports as multimodal hubs for sustainable and smart mobility

PIONEERS

Total Cost: **33 709 980,75 €** Requested Grant: **24 999 997,26 €**

Title:
PORTable Innovation Open Network for Efficiency and Emissions Reduction Solutions

Abstract:
PIONEERS brings together four ports with differing characteristics, but shared commitments towards meeting Green Deal goals and Blue Growth socio-economic aims, in order to address the challenge for European ports of reducing GHG emissions while remaining competitive. In order to achieve ambitions, the Ports of Antwerp, Barcelona, Venlo and Constanta will implement green port innovation demonstrations across four main pillars: clean energy production and supply, sustainable port design, modal shift and flows optimization, and digital transformation. Actions include: renewable energy generation and deployment of electric, hydrogen and methanol vehicles; building and heating networks retrofit for energy efficiency and implementation of circular economy approaches in infrastructure works; together with deployment of digital platforms (utilising AI and 5G technologies) to promote modal shift of passengers and freight, ensure optimised vehicle, vessel and container movements and allocations, and facilitate vehicle automation. These demonstrations form integrated packages aligned with other linked activities of the ports and their neighbouring city communities. Forming an Open Innovation Network for exchange, the ports, technology and support partners will progress through project phases of innovation demonstration, scale-up and co-transferability. Rigorous innovation and transfer processes will address technology evaluation and business case development for exploitation, as well as creating the institutional, regulatory and financial frameworks for green ports to flourish ? from technical innovation pilots to widespread solutions. These processes will inform and be undertaken in parallel with masterplan development and refinement, providing a Master Plan and roadmap for energy transition at the PIONEERS ports, and handbook to guide green port planning and implementation for different typologies of ports across Europe.

Country	Applicant Legal Name	Type of organisation
BE	**HAVENBEDRIJF ANTWERPEN**	**PRC**
BE	Antwerp Euroterminal NV	PRC
BE	Constructiewerkhuizen De Meyer	PRC
BE	EUROPEAN INLAND WATERWAY TRANSPORT(IWT) PLATFORM	OTH
BE	INFRABEL SA	PRC
BE	L'AIR LIQUIDE BELGE	PRC
BE	LINEAS	PRC
BE	MEDITERRANEAN SHIPPING COMPANY BELGIUM NV	PRC
BE	PROCTER & GAMBLE SERVICES COMPANY NV	PRC
BE	PSA ANTWERP NV	PRC
BE	SEAFAR	PRC
BE	STAD ANTWERPEN	PUB
BE	TCT Belgium NV	PRC
BE	UNION INTERNATIONALE DES TRANSPORTS PUBLICS	OTH
BE	VLAAMSE GEWEST	PUB
BE	ALLIANCE FOR LOGISTICS INNOVATION THROUGH COLLABORATION IN EUROPE	REC
BE	CENTRE SCIENTIFIQUE ET TECHNIQUE DE LA CONSTRUCTION	REC
BE	INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM	REC
BE	UNIVERSITEIT ANTWERPEN	HES
BE	VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.	REC
CA	ADMINISTRATION PORTUAIRE DE MONTREAL	PUB
CN	Shanghai Maritime University	HES
DE	AKKA DSO GmbH	PRC
DE	BALANCE TECHNOLOGY CONSULTING GMBH	PRC
DE	VECTOS GMBH	PRC
GR	INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS	REC
ES	AUTOMOBIL CLUB ASSISTENCIA SA	PRC
ES	AUTORITAT PORTUARIA DE BARCELONA	PUB
ES	MOSAIC FACTOR SL	PRC
ES	PRODEVELOP SL	PRC

Country	Applicant Legal Name	Type of organisation
ES	CENTRE INTERNACIONAL DE METODES NUMERICS EN ENGINYERIA	REC
FR	ENGIE	PRC
IT	UNIVERSITA DEGLI STUDI DI GENOVA	HES
NL	Co?peratie e-GLM U.A.	PRC
NL	Danser Group BV	PRC
NL	ECT VENLO B.V.	PRC
NL	Envision Digital B.V.	PRC
NL	GEMEENTE VENLO	PUB
NL	MACOMI BV	PRC
NL	PANTEIA BV	PRC
NL	VDL Steelweld	PRC
NL	UNIVERSITEIT MAASTRICHT	HES
PT	MAGELLAN-ASSOCIACAO PARA A REPRESENTACAO DOS INTERESSES PORTUGUESES NO EXTERIOR	OTH
RO	COMPANIA NATIONALA ADMINISTRATIA PORTURILOR MARITIME SA CONSTANTA	PRC
RO	EUROPEAN INTEGRATED PROJECT	PRC
UK	MJC2 LIMITED	PRC

LC-GD-5-1-2020 Green airports and ports as multimodal hubs for sustainable and smart mobility

MAGPIE

Total Cost: **30 764 354,5 €** Requested Grant: **24 964 564,23 €**

Title:
sMArt Green Ports as Integrated Efficient multimodal hubs

Abstract:
The MAGPIE consortium, consisting of 4 ports (Lighthouse Port of Rotterdam, Fellow ports DeltaPort (inland), Port of Sines and HAROPA), 9 research institutes and universities, 32 private companies and 4 other institutes, forms a unique collaboration addressing the missing link between green energy supply and green energy use in port-related transport and the implementation of digitisation, automation, and autonomy to increase transport efficiency. MAGPIE accelerates the introduction of green energy carriers (batteries, hydrogen, ammonia, BioLNG and methanol) combined with realisation of logistic optimisation in ports through automation and autonomous operations. The main objective of MAGPIE is to demonstrate technical, operational, and procedural energy supply and digital solutions in a living lab environment to stimulate green, smart, and integrated multimodal transport and ensure roll out through the European Green Port of the Future Master Plan and dissemination and exploitation activities. A living lab approach is applied in which technological and non-technological innovations are developed or demonstrated. Innovations demonstrated are: On-site BioLNG production; Smart Energy Systems; Shore power peak shaving; Port digital twin (GHG tooling and energy matching); Ammonia bunkering; Offshore charging buoy; Autonomous e-barge and transhipment; Green energy container for inland shipping; Hybrid shunting locomotive; Green connected trucking; Spreading of road traffic; Non-technological innovations to increase the use of green energy. Demonstrators will lead into the Master Plan for the European Green including a roadmap and handbook for implementation. To increase the reach and exploitation of the project results, stakeholders will be in the project through stakeholder consultation groups, targeted communication and dissemination activities. Technical collaborations will be set up with other actions to multiply the results of MAGPIE and of the other actions.

Country	Applicant Legal Name	Type of organisation
NL	**HAVENBEDRIJF ROTTERDAM NV**	**PRC**
DE	DeltaPort GmbH & Co. KG	PRC
DE	H2 Projektentwicklungsgesellschaft mbH	PRC
DE	IMGRUND Silogistic GmbH	PRC
DE	MTS Emmelsum GmbH	PRC
DE	Niederrheinische Verkehrsbetriebe Aktiengesellschaft	PRC
DE	PLANCO CONSULTING GMBH	PRC
DE	ENERGIEWIRTSCHAFTLICHES INSTITUT ANDER UNIVERSITAT ZU KOLN GGMBH	REC
DE	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	REC
DK	Fonden M?rsk Mc-Kinney M?ller Center for Zero Carbon Shipping	OTH
FR	AIR LIQUIDE FRANCE INDUSTRIE	PRC
FR	CIRCOE	OTH
FR	GIE HAROPA	PRC
FR	Association Internationale Villes et Ports (AIVP)	OTH
FR	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	REC
FR	IFP Energies nouvelles	REC
NL	AI IN MOTION BV	PRC
NL	APM Terminals Maasvlakte II B.V.	PRC
NL	BLOCKCHAIN FIELDLAB BV	PRC
NL	BLUEWATER ENERGY SERVICES BV	PRC
NL	Chemgas Shipping BV	PRC
NL	DAF TRUCKS NV	PRC
NL	DHL GLOBAL FORWARDING NETHERLANDS BV	PRC
NL	Eneco Solar, Bio & Hydro	PRC
NL	GOODFUELS BV	PRC
NL	Heerema Marine Contractors Nederland SE	PRC
NL	PITPOINT.LNG B.V.	PRC
NL	PRORAIL BV	PRC
NL	PROTON VENTURES BV	PRC

Country	Applicant Legal Name	Type of organisation
NL	Rail Innovators Holding B.V.	PRC
NL	STICHTING PROJECTEN BINNENVAART	OTH
NL	Van Oord Offshore b.v.	PRC
NL	Van Oord Ship Management B.V.	PRC
NL	VDL ENABLING TRANSPORT SOLUTIONS BV	PRC
NL	WARTSILA NETHERLANDS BV	PRC
NL	Zero Emission Services B.V.	PRC
NL	ERASMUS UNIVERSITEIT ROTTERDAM	HES
NL	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	REC
NL	STICHTING MARITIEM RESEARCH INSTITUUT NEDERLAND	REC
NL	STICHTING NETHERLANDS MARITIME TECHNOLOGY FOUNDATION	REC
NL	TECHNISCHE UNIVERSITEIT DELFT	HES
PT	APS - Administra??o dos Portos de Sines e do Algarve, S.A.	PUB
PT	CNET CENTRE FOR NEW ENERGY TECHNOLOGIES SA	PRC
PT	INESC TEC - INSTITUTO DE ENGENHARIADE SISTEMAS E COMPUTADORES, TECNOLOGIA E CIENCIA	REC
SE	VOLVO TECHNOLOGY AB	PRC

LC-GD-5-1-2020 Green airports and ports as multimodal hubs for sustainable and smart mobility

TULIPS

Total Cost: **31 796 272,75 €** Requested Grant: **24 997 762,89 €**

Title:
DemonsTrating lower pollUting soLutions for sustaInable airPorts acrosS Europe

Abstract:
Airports will play a major role in transition towards climate neutral aviation. Sustainable energy production and use (both airside and landside) as well as a shift towards greener multi-modal transport options will reduce GHG emissions and improve local air quality around airports. Bringing together a highly competent and complementary consortium of 29 partners supported by an external advisory board, TULIPS will accelerate the implementation of innovative and sustainable technologies towards lower emissions at airports. At Amsterdam Airport Schiphol alone, TULIPS will realise an estimated 800kT/year CO2 savings based on the sum of the expected benefits of the 17 demonstrations by 2025 with further savings scaled with technology roll out.
17 real-life demonstrations of green airport innovations (technological, non-technological and social) will be performed at the Lighthouse Schiphol, and some also at fellows Oslo, Turin and Larnaca airport. Measuring and quantifying benefits and forecasting their impact on EU climate goals should they be implemented extensively across European airports, results in hands-on robust roadmaps which present how these technologies and concepts should be deployed to different sized airports (international hubs down to regional level) considering economic, geographical, and political scenarios across Europe and beyond.
Topics covered include a) improved multi-modal shift for passengers and freight, reduce traffic congestion and offer seamless green travel options, b) improved airside infrastructure for future electric/hybrid aircraft infrastructure, c) smart energy solutions to manage airport operations, d) integrating hydrogen fuel cell technology into current ground support equipment, e) enabling large scale supply of SAF fuel along with the preparation of an EU clearing house, f) circular economy, and g) UFP mitigation.

Country	Applicant Legal Name	Type of organisation
NL	**SCHIPHOL NEDERLAND BV**	**PRC**
BE	UNIVERSITEIT ANTWERPEN	HES
CY	CATALINK LIMITED	PRC
CY	HERMES AIRPORTS LTD	PRC
DE	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	REC
DK	BALLARD POWER SYSTEMS EUROPE AS	PRC
FR	Egis Villes et Transports SAS	PRC
IT	SOCIETA AZIONARIA GESTIONE AEROPORTO TORINO	PRC
IT	POLITECNICO DI TORINO	HES
NL	BAM Infraconsult B.V.	PRC
NL	DHL GLOBAL FORWARDING NETHERLANDS BV	PRC
NL	Excess Materials Exchange	PRC
NL	HAVENBEDRIJF AMSTERDAM N.V.	PRC
NL	KLM Equipment Services BV	PRC
NL	KONINKLIJKE LUCHTVAART MAATSCHAPPIJNV	PRC
NL	MOBILITY CONCEPT BV	PRC
NL	NOURYON INDUSTRIAL CHEMICALS B.V.	PRC
NL	SKYNRG BV	PRC
NL	zepp.solutions B.V.	PRC
NL	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	REC
NL	STICHTING NATIONAAL LUCHT- EN RUIMTEVAARTLABORATORIUM	REC
NL	TECHNISCHE UNIVERSITEIT DELFT	HES
NO	AVINOR AS	PRC
NO	SINTEF AS	REC
NO	SINTEF ENERGI AS	REC
PT	WILDTRIUMPHS LDA	PRC
PT	INSTITUTO SUPERIOR TECNICO	HES
SI	PIPISTREL VERTICAL SOLUTIONS DOO PODJETJE ZA NAPREDNE LETALSKE RESITVE	PRC
UK	THE MANCHESTER METROPOLITAN UNIVERSITY	HES

LC-GD-6-1-2020 Testing and demonstrating systemic innovations for sustainable food from farm to fork

PestNu

Total Cost: **7 438 050 €** Requested Grant: **6 000 960 €**

Title:
Field -testing and demonstration of digital and space based technologies with agro-ecological and organic practices in systemic innovation

Abstract:
PestNu targets the field -testing and demonstration of digital and space based technologies (DST) and agro-ecological and organic practices (AOP) under a systemic approach to reduce the pesticides and fertilisers use, and loss of nutrients. The consortium brings novel DST including: AI robotic traps for real time pest monitoring; Autonomous mobile robots for pesticide monitoring and 3D spot spraying; Earth Observation missions with robust Agroradar AI algorithms to map soil/plant nutrients and pest plant inputs using Copernicus data/services; and in-situ and real-time nutrient analysers. All the DST will be interconnected to a user-centric cloud-based Farm Management System, which features a robust Decision Support System integrated with a blockchain based system for DST data evidence, integrity and AI models verification and with a cybersecurity platform to prevent cyber-attacks and IoT vulnerabilities. The AOP include: on-site production of biofertilisers from agricultural waste-waters through a robust automated drainage recycling system via an innovative enzymatic hydrolysis procedure; a novel foliar biopesticide formulated by circular bioeconomy operations, targeting fungal diseases with biostimulant effect; and advanced nutritional programs for organic farming. The showcase systemic DST & AOP solutions will be demonstrated and tested in aquaponic and hydroponic greenhouse and open-field vegetable cultivation in Greece and Spain. A Pesticide Reduction Program will evaluate the Maximum Residue and the Acceptable Daily Intake levels to ensure vegetable's food safety and LCA activities will be performed. All these systemic approaches will be performed under a strong collaboration among all the Farm to Fork stakeholders and European Commission services.

Country	Applicant Legal Name	Type of organisation
GR	**ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS**	**REC**
AT	GLOBAL 2000 Umweltforschungsinstitut	REC
CY	SIDROCO HOLDINGS LIMITED	PRC
CY	STRATAGEM ENERGY LTD	PRC
GR	AINOOUCHAOU PLIROFORIKI AE	PRC
GR	DIAMANTIS MASOUTIS SA	PRC
GR	SYNDESMOS ELLINIKON VIOMICHANION TROFIMON SOMATEIO	OTH
GR	PANEPISTIMIO THESSALIAS	HES
ES	Centro de demostraci?n y transferencia agraria el mirador	PRC
ES	FERTINAGRO BIOTECH SL	PRC
ES	JARDINERIA Y VIVEROS LA NORIA SL	PRC
ES	NEOALGAE MICRO SEAWEEDS PRODUCTS SL	PRC
IE	T.E. LABORATORIES LIMITED	PRC
IE	TRILATERAL RESEARCH LIMITED	PRC
IT	Agrorobotica srl	PRC
IT	STAM SRL	PRC
PT	AGROINSIDER LDA	PRC
PT	ASSOCIACAO PORTUGUESA DE EMPRESAS DE TECNOLOGIAS AMBIENTAIS - APEMETA	OTH
SE	AGROVAST LIVSMEDEL AKTIEBOLAG	OTH
SE	RISE RESEARCH INSTITUTES OF SWEDEN AB	REC

LC-GD-6-1-2020 Testing and demonstrating systemic innovations for sustainable food from farm to fork

ZeroW

Total Cost: **12 932 881,25 €** Requested Grant: **11 999 733,5 €**

Title:
Systemic Innovations Towards a Zero Food Waste Supply Chain

Abstract:
ZeroW has set the ambitious target of playing a key role in the transition of current food systems towards halving Food Loss & Waste (FLW) by 2030 and reaching near-zero FLW by 2050.
ZeroW provides significant impacts through the demonstration of innovations in nine real-life food chains, by employing a systemic innovation approach, to effectively address the multidimensional issue of FLW. This involves:
(i) pre-identifying systemic innovations, that incorporate multiple interlinked dimensions (process, organisational, strategy, marketing, product, technological, governance, etc.), which are tested and demonstrated;
(ii) steering the evolution of innovations towards higher levels of systemic readiness and impact, using a Living Lab co-creation and multi-actor collective learning approach;
(iii) enhancing the Living Lab actors' innovation advancement capability with shared resources facilitating new ways and means of cooperating and co-developing innovations;
(iv) developing context-specific trajectories for the systemic innovations (from ideation to scaling-up and commercialisation) leading to the provision of currently missing end products and services that align with consumer attitudes, food actor needs and policy trends.
Moreover, ZeroW establishes a clear 'FLW impact trajectory', from demonstrator results (2025), scaled up to meet the F2F 2030 goals, and steered through a 'just transition pathway' towards a near-zero FLW in 2050.

Country	Applicant Legal Name	Type of organisation
IE	**INLECOM COMMERCIAL PATHWAYS COMPANYLIMITED BY GUARANTEE**	**REC**
BE	INNOVATIESTEUNPUNT VOOR LANDBOUW ENPLATTELAND	OTH
BE	OPENBARE VLAAMSE AFVALSTOFFENMAATSCHAPPIJ	PUB
BE	SAFE FOOD ADVOCACY EUROPE	OTH
BE	VLTN GCV	PRC
BE	Voedselbank Limburg	OTH
BE	EIGEN VERMOGEN VAN HET INSTITUUT VOOR LANDBOUW- EN VISSERIJONDERZOEK	REC
DE	ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)	OTH
DE	DIL DEUTSCHES INSTITUT FUR LEBENSMITTELTECHNIK EV	REC
DK	FBCD AS	OTH
EE	DIGIOTOUCH OU	PRC
GR	INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS	REC
ES	AVES NOBLES Y DERIVADOS, S.L.	PRC
ES	EROSKI SCOOP	PRC
ES	GRUPO LA CA?A, S.L.	PRC
ES	MULTISCAN TECHNOLOGIES SL	PRC
ES	TERMOFORMAS DE LEVANTE SL	PRC
ES	ASOCIACION DE INVESTIGACION DE INDUSTRIAS CARNICAS DEL PRINCIPADO DE ASTURIAS	REC
ES	FUNDACION CORPORACION TECNOLOGICA DE ANDALUCIA	REC
ES	INSTITUTO ANDALUZ DE INVESTIGACIONY FORMACION AGRARIA PESQUERA ALIMENTARIA Y DE LA PRODUCCION ECOLOGICA	REC
ES	INSTITUTO TECNOLOGICO DE ARAGON	REC
ES	INSTITUTO TECNOLOGICO DEL EMBALAJE, TRANSPORTE Y LOGISTICA	REC
IE	F6S NETWORK IRELAND LIMITED	PRC
IE	KONNECTA SYSTEMS LIMITED	PRC
IE	WATERFORD INSTITUTE OF TECHNOLOGY	HES
IL	Robin Food	OTH
IT	NOVAMONT SPA	PRC
IT	FONDAZIONE ISTITUTO SUI TRASPORTI E LA LOGISTICA	REC
LT	AgriFood Lithuania DIH	OTH

Country	Applicant Legal Name	Type of organisation
LT	LIETUVOS MAISTO EKSPORTUOTOJU ASOCIACIJA (LITMEA)	OTH
LT	Lithuanian Vegetable Producers Association	OTH
LT	UAB ART21	PRC
NL	SVZ international BV	PRC
NL	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	REC
NL	STICHTING KATHOLIEKE UNIVERSITEIT BRABANT	HES
NL	WAGENINGEN UNIVERSITY	HES
NO	SINTEF AS	REC
PT	ALLMICROALGAE NATURAL PRODUCTS SA	PRC
PT	SONAE MC - SERVICOS PARTILHADOS, SA	PRC
PT	UNIVERSIDADE DO MINHO	HES
RO	ASOCIATIA CLUSTERUL AGRO-FOOD-IND NAPOCA	OTH
RO	ASOCIATIA TRANSILVANIA IT	REC
RS	BIOSENSE INSTITUTE - RESEARCH AND DEVELOPMENT INSTITUTE FOR INFORMATION TECHNOLOGIES IN BIOSYSTEMS	REC
SI	ITC - INOVACIJSKO TEHNOLOSKI GROZD MURSKA SOBOTA	REC
SI	KMETIJSKO GOZDARSKA ZBORNICA SLOVENIJE KMETIJSKO GOZDARSKI ZAVOD MURSKA SOBOTA	REC
SI	UNIVERZA V MARIBORU	HES

LC-GD-6-1-2020 Testing and demonstrating systemic innovations for sustainable food from farm to fork

SchoolFood4Change

Total Cost: **12 284 816 €** Requested Grant: **12 200 425,25 €**

Title:
Shifting school meals and schools into a new paradigm by addressing public health and territorial, social and environmental resilience

Abstract:
SchoolFood4Change (SF4C) will create a shift to both sustainable and healthy diets on a broad societal scale by directly impacting over 3,000 schools and 600,000 school children in 12 EU countries, providing a replicable good practice across the EU and beyond. The SF4C specific objectives (SO) are:
SO1: To innovate and roll out sustainable healthy food procurement, sourced from land, inland water and sea, in line with the EU Farm to Fork Strategy and the SDGs.
SO2: Through innovative ?planetary health diets & cooking?, linked to the identity of the territory, train and empower cooks and urban food enablers in the cities;
SO3: To ensure an enabling educational environment through the innovative ?whole school food approach? which is a method about achieving a healthy food culture in and around schools, contributing to community-wide whole systems change, and impacting on education, sustainability, inequalities, communities and health
SO4: To assess the SF4C impact, demonstrate real life delivery (?business case?), particularly on health and behavioural change of vulnerable children, and prove that it can be cost-effective
SO5: To seek impact for all EU citizens, demonstrate swift EU replicability, also beyond schools, and engage with EC Services and projects on increased Farm to Fork impact toward 2030
All children go to school and are vulnerable to diet-related conditions and disadvantaged environments. SF4C views schools and children and young people (0-18 years of age) as catalysts for systemic change for the shift to sustainable and healthy diets of all EU citizens. The SF4C triple impact approach (SO1-3) will be implemented by 33 partners, mostly governmental partners that have the mandate over sustainable healthy school meals, including many pioneers from across the EU. SF4C has received official support from 10 EU Members States.

Country	Applicant Legal Name	Type of organisation
DE	**ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)**	**OTH**
AT	STADT WIEN	PUB
AT	DANACHDA	REC
BE	Rikolto	OTH
BE	STAD GENT	PUB
BE	STAD LEUVEN	PUB
CZ	Skutecne zdrava skola, z.s.	OTH
DE	Speiser?ume F+B GmbH	PRC
DE	STADT ESSEN	PUB
DE	Stadt N?rnberg B?rgermeister Gesch?ftsbereich Schule und Sport	PRC
DK	KOBENHAVNS KOMMUNE	PUB
EE	TALLINNA LINN	PUB
EE	Viimsi Vallavalitsus	PUB
EE	SIHTASUTUS STOCKHOLMI KESKKONNAINSTITUUDI TALLINNA KESKUS	REC
ES	GENERALITAT VALENCIANA - Direccion General para las Tecnologias de la Informacion	PUB
ES	Mensa C?vica	OTH
ES	FUNDACIO EURECAT	REC
ES	UNIVERSIDAD DE ALCALA	HES
FR	COMMUNE DE LYON	PUB
FR	Conseil D?partemental de la Dordogne	PUB
FR	RISTECO LA VILLE QUI MANGE	OTH
HU	BUDAPEST FOVAROS ONKORMANYZATA	PUB
HU	Vallalatgazdasagi Tudomanyos es Oktatasi Alapitvany	OTH
IT	COMUNE DI MILANO	PUB
IT	COMUNE DI NUORO	PRC

Country	Applicant Legal Name	Type of organisation
IT	FONDAZIONE ECOSISTEMI	OTH
IT	UNIVERSITA DEGLI STUDI DI SCIENZE GASTRONOMICHE	HES
NL	STICHTING FAIR TRADE ADVOCACY OFFICE	OTH
SE	INTERNATIONAL FEDERATION OF ORGANIC AGRICULTURE MOVEMENTS EUROPEAN UNION REGIONAL GROUP	OTH
SE	MALMO STAD	PUB
SE	STIFTELSEN VARLDSNATURFONDEN WWF	OTH
SE	UMEA KOMMUN	PUB
SK	Skutocne zdrava skola o.z.	OTH

LC-GD-6-1-2020 Testing and demonstrating systemic innovations for sustainable food from farm to fork

ClieNFarms

Total Cost: **13 639 536,25 €** Requested Grant: **11 999 973,89 €**

Title:
Climate Neutral Farms

Abstract:
In order to reduce GHG-emissions by at least 50% by 2050 compared with 1990 levels and incresease carbon sequestration and storage a strong systemic approach is required. Different single solutions exist for different production systems, but if one wants to break the glass ceiling new organisational, technical and financial solutions are requested. These solution have to be supported by voluntarist policies. ClieNFarms is based on 20 demonstration case-studies (I3S) where systemic innovative solutions will be tested and evaluated using up-to-date modeling approaches and multicriteria assessment tools. These case-studies will pave the diversity of the production systems (crops, cattle, dairy, special crop productions, etc) and the diversity of geographical situations (from East to West and North to South of Europe, plus one in New-Zealand). The solutions will be co-designed with farmers and the surrounding ecosystem (R&D, finance, supply chain, etc) through creative arena in a living-lab like structure. Involving finance and supply chain will help creating an enabling environment for farmers transition to climate-neutral farms. I3S structure aims to allow for 1 demonstration farm to reach 10 lead commercial farms and then 100 outreach farms. With the help of the supply a much larger number of farmers will be reached. All the solutions will be recorded in the ClieNFarms data hub that will be an open catalog for every one interested in climate mitigation in the agricultural sector. Different guidelines and tools will be part of the outputs of the projects. A large dissemination of the results project will be made through professional newspapers, scientific articles, social networks, etc. ClieNFarms will also develop bricks for capacity building allowing to show in a short sequence pros and cons of the different solutions and tools. ClieNFarms will create a dialog with other on-going project and with the EC. ClieNFarms gather 33 partners and will last 4 years.

Country	Applicant Legal Name	Type of organisation
FR	**INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT**	**REC**
BE	BIOFORUM	OTH
BE	CENTRE WALLON DE RECHERCHES AGRONOMIQUES	REC
CH	AGRICIRCLE AG	PRC
CH	Nestlé Suisse SA	PRC
CH	SOCIETE DES PRODUITS NESTLE SA	PRC
CH	BERNER FACHHOCHSCHULE	HES
CH	FORSCHUNGSINSTITUT FUR BIOLOGISCHEN LANDBAU STIFTUNG	REC
DE	JUSTUS-LIEBIG-UNIVERSITAET GIESSEN	HES
ES	AGENCIA GALLEGA DE LA CALIDAD ALIMENTARIA	REC
FR	ELECTRICITE DE FRANCE	PRC
FR	Nestle France	PRC
FR	Association de Coordination Technique Agricole	REC
FR	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	REC
FR	ECOLE NATIONALE SUPERIEURE DE FORMATION DE L'ENSEIGNEMENT AGRICOLE	HES
IE	TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY	HES
IT	UNIVERSITA CATTOLICA DEL SACRO CUORE	HES
NL	CLIMATE-KIC HOLDING BV	PRC
NL	DanTrade B.V.	PRC
NL	FC CV	PRC
NL	STICHTING WAGENINGEN RESEARCH	REC
NZ	AGRESEARCH LIMITED	REC
NZ	Massey University	HES
PT	CONSULAI, CONSULTORIA AGROINDUSTRIAL LDA	PRC
PT	NUTRIFARMS, S.A.	PRC
RO	INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU BIOLOGIE SI NUTRITIE ANIMALA	REC
RS	BIOSENSE INSTITUTE - RESEARCH AND DEVELOPMENT INSTITUTE FOR INFORMATION TECHNOLOGIES IN BIOSYSTEMS	REC

Country	Applicant Legal Name	Type of organisation
SE	INTERNATIONAL FEDERATION OF ORGANIC AGRICULTURE MOVEMENTS EUROPEAN UNION REGIONAL GROUP	OTH
UA	Nestle Ukraine Limited Liability Company	PRC
UK	NESTLE UK LTD	PRC
UK	GAME AND WILDLIFE CONSERVATION TRUST	REC
UK	THE UNIVERSITY COURT OF THE UNIVERSITY OF ABERDEEN	HES
UK	UNIVERSITY OF LEEDS	HES

LC-GD-6-1-2020 Testing and demonstrating systemic innovations for sustainable food from farm to fork

ENOUGH

Total Cost: **11 531 641,25 €** Requested Grant: **11 022 995,75 €**

Title:
European food chain supply to reduce GHG emissions by 2050

Abstract:
The ENOUGH project will provide technologies, tools and methods to contribute to the EU Farm to Fork strategy to achieve climate neutral food businesses. The ENOUGH objectives are: i) Reducing GHG-emissions by at least 50% by 2050 ii) Reducing energy use and increasing energy efficiency by 2030. iii) Increasing the overall sustainability of food systems iv) Providing selected innovative technological systemic solutions and their potential for uptake at EU. The partnership draws together 29 partners from 11 EU nations and the UK with expertise across the whole food chain. The ENOUGH project is constructed around 9 work packages (WP): WP1 will identify 1990 and 2020 baselines for GHG emissions and will then forecast how emissions will change moving forward to 2030 and 2050. In WP2, we will identify what are the energy efficient measures and new technologies that are vital to achieve the maximum reductions in emissions. In WP4 we will use all the information and models from WP1 and 2 to develop a web-based tool that will identify the benefits of thermal integration heating and cooling and provide information on potential global emission reductions across the whole food chain. In WP5, data from food process and the food supply chain will be used to optimize and better control operations and technologies to minimize emissions. In WP3 and 7 we will examine how social behaviour, policy and finance can add to the GHG reductions target. In WP6, the more relevant and promising technologies will be demonstrated. A set of the most promising technologies TRL (5-7) have been pre-selected for demonstration based on their relevance and readiness. Additional technologies/operational adaptations will be added during the project and will be selected using a robust process managed by the coordinator and demonstrated in real life. Work from the ENOUGH project will be widely disseminated with an ambitious communication plan in WP8. WP9 includes all project management.

Country	Applicant Legal Name	Type of organisation
NO	**SINTEF OCEAN AS**	**REC**
AT	ENGIE K?ltetechnik GmbH	PRC
AT	TECHNISCHE UNIVERSITAET GRAZ	HES
BE	KATHOLIEKE UNIVERSITEIT LEUVEN	HES
BE	VLAAMS CENTRUM VOOR BEWARING VAN TUINBOUWPRODUCTEN	REC
DE	GEORG-AUGUST-UNIVERSITAT GOTTINGEN STIFTUNG OFFENTLICHEN RECHTS	HES
FR	ASSOCIATION NATIONALE DES INDUSTRIES ALIMENTAIRES	PRC
FR	INSTITUT INTERNATIONAL DU FROID	PUB
FR	INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT	REC
FR	SAS visible digital France	PRC
HU	Campden BRI Magyarorszag Nonprofit Korlatolt Felelossegu Tarsasag	REC
IT	ELETICA S.R.L.	PRC
IT	ENEX SRL	PRC
IT	EPTA SPA	PRC
IT	CONSIGLIO NAZIONALE DELLE RICERCHE	REC
IT	UNIVERSITA POLITECNICA DELLE MARCHE	HES
LT	VYTAUTO DIDZIOJO UNIVERSITETAS	HES
NL	STICHTING EFFOST	REC
NO	ROROSMEIERIET AS	PRC
NO	NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU	HES
PL	FrostX Sp. z o.o.	PRC
PL	POLITECHNIKA SLASKA	HES
TR	ARCELIK A.S.	PRC
UK	Asda Stores Limited	PRC
UK	City Facilities Management (UK) Limited	PRC
UK	The Cornish Geothermal Distillery Company Ltd	PRC
UK	Yeo Valley Farms Production Ltd	PRC
UK	LONDON SOUTH BANK UNIVERSITY LBG	HES
UK	THE UNIVERSITY OF BIRMINGHAM	HES

LC-GD-6-1-2020 Testing and demonstrating systemic innovations for sustainable food from farm to fork

NeoGiANT

Total Cost: **9 329 508,75 €** Requested Grant: **8 374 691,81 €**

Title:
The power of grape extracts: antimicrobial and antioxidant properties to prevent the use of antibiotics in farmed animals

Abstract:
NeoGiANT is an innovative actioncoordinated by the University of Santiago de Compostela (Spain). NeoGiANT aims at developing a new set of products (animal feed, treatment products,sperm extenders) able to decrease the use of antibiotics on farmed animals and substitute synthetic preservatives. These new products, based on natural extracts, using an advanced isolation technique, will not only avoid the growth of microorganisms but also improve the health and welfare of the animals increasing profitability.
The proposal is based on the use of biomass sources that can provide cost-effective, efficient and green solutions to obtain functional ingredients in sustainable circular economy production systems. The new products developed will be based on one extract of natural origin called e-Vitis (obtained from Vitis vinifera). e-Vitis is isolated using as raw material grape marc from the production of high quality white wines, that preserves, after the winemaking process, a significant load of bioactive compounds originally present in the grape. In order to obtain a multicomponent ready-to-use extract using green solvent extraction approaches NeoGiANT is going to apply an alternative methodology to conventional extraction, to disrupt the grape marc and extract the bioactive compounds. This innovative green technology is simple, the conditions required are mild (energy savings), and can be easily scaled-up.
The advanced properties of the natural extract will provide antimicrobial and antioxidant protection to the animals improving their performance and serving as a prophylactic treatment. The target products to be developed will be designed to control a large number of infectious diseases of paramount importance in animal production, both in livestock and aquaculture.
Moreover, the emergence of new antimicrobial resistances (AMR) will be reduced, and existing antimicrobial resistances will be better controlled.

Country	Applicant Legal Name	Type of organisation
ES	**UNIVERSIDAD DE SANTIAGO DE COMPOSTELA**	**HES**
AR	CONSEJO NACIONAL DE INVESTIGACIONES CIENTIFICAS Y TECNICAS (CONICET)	REC
BE	NUTRITION SCIENCES	PRC
BE	ANITOM bv	REC
CZ	JIHOCESKA UNIVERZITA V CESKYCH BUDEJOVICICH	HES
CZ	VYZKUMNY USTAV VETERINARNIHO LEKARSTVI	REC
DE	FREIE UNIVERSITAET BERLIN	HES
ES	ASOCIACI?N AGRARIA DE J?VENES AGRICULTORES	OTH
ES	ASOCIACION ESPANOLA DE NORMALIZACION	OTH
ES	BIANOR BIOTECH S.L.	PRC
ES	CONTACTICA S.L.	PRC
ES	CZ VETERINARIA SA	PRC
ES	I-GRAPE LABORATORY S.L.	PRC
ES	LIFEBIOENCAPSULATION SL	PRC
ES	MAGAPOR SL	PRC
ES	UNIVERSIDAD DE LA LAGUNA	HES
HU	NEMZETI AGRARKUTATASI ES INNOVACIOS KOZPONT	REC
PL	INSTYTUT BIOTECHNOLOGII PRZEMYSLU ROLNO-SPOZYWCZEGO IM PROF WACLAWA DABROWSKIEGO - PANSTWOWY INSTYTUT BADAWCZY	REC
PT	UNIVERSIDADE DO PORTO	HES
UK	MOREDUN RESEARCH INSTITUTE	REC

LC-GD-6-1-2020 Testing and demonstrating systemic innovations for sustainable food from farm to fork

SISTERS

Total Cost: **10 124 750 €** Requested Grant: **8 362 549,26 €**

Title:
Systemic Innovations for a SusTainable reduction of the EuROpean food waStage

Abstract:
Only in the EU, we generate every year around 89M tonnes of Food Loss and Waste (FLW), accounting for 20% of the total foodproduced, with costs estimated at ?143 Bn, impacting each stage of the Food Value Chain.
In SISTERS, we propose a set of systemic innovations addressed to reduce FLW generated in every stage of the Food Value Chain inEurope that will solve main existing challenges in Production, Processing, Marketing (retailing/wholesaling), Consumption, and theLogistics among stages.
SISTERS will design the 1st European Short Chain Platform for farmers to sell their discarded production, favouring local economies,providing access to nutritious and healthy food to the less favoured consumers. Smart and reusable food containers will be designed to diminish food losses during transportation, maintain bulk and packed food in ideal conditions with new accurate sensors allowing immediate reaction. Moreover, to improve the preservation and quality of food a set of bio-based and home-compostable packaging solutions will be created reducing their potential negative impacts in the environment. A novel SISTERS Seal of Excellence will promote sustainable practices among retailers. While the information provided to the consumers with QR and dynamic labelling incorporated in the packaging is expected to impact on retailers and consumers sustainable awareness, thusreducing the discard of food and associated FW. With these cross-sectorial innovations, we will achieve an ambitious environmental & economic impact of the current dynamics in the food system, contributing to the reduction of FLW and to change the unsustainable consumer behaviours. With the support of the EC, SISTERS will be a key EU project addressing the problem in a holistic way, reducing FLW by 27.4% and CO2 emissions by around 20% in the case studies.
Our interdisciplinary SISTERS consortium consists of 18 partners from 8 European countries, with wide expertise in fighting FLW from Farm

Country	Applicant Legal Name	Type of organisation
ES	**FUNDACION AITIIP**	**REC**
BE	SAFE FOOD ADVOCACY EUROPE	OTH
CH	Rebus Labs AG	PRC
ES	ASOCIACI?N DE ORGANIZACIONES DE PRODUCTORES DE FRUTAS Y HORTALIZAS DE LA REGI?N DE MURCIA	OTH
ES	EROSKI SCOOP	PRC
ES	EURIZON SL	PRC
ES	ITC PACKAGING SL	PRC
ES	RIBEREBRO INTEGRAL SOCIEDAD ANONIMA	PRC
FR	BM-Services	PRC
FR	CARBIOLICE	PRC
FR	NATUREPLAST SAS	PRC
HR	BIO-MI DRUSTVO S OGRANICENOM ODGOVORNOSCU ZA PROIZVODNJU, ISTRAZIVANJEI RAZVOJ	PRC
IE	MUNSTER TECHNOLOGICAL UNIVERSITY	HES
IT	ENCO SRL	PRC
IT	LABORATORI ARCHA SRL	PRC
IT	FONDAZIONE EDMUND MACH	HES
SE	Gaia Biomaterials AB	PRC
SE	KUNGLIGA TEKNISKA HOEGSKOLAN	HES

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

MERLIN

Total Cost: **22 034 617,5 €** Requested Grant: **21 245 938,88 €**

Title:
Mainstreaming Ecological Restoration of freshwater-related ecosystems in a Landscape context: INnovation, upscaling and transformation

Abstract:
Europe's environment is in an alarming state, with climate change effects aggravating. To secure economic prosperity, human wellbeing and social peace, systemic transformative change of our society is imperative. Ecosystem restoration using nature-based solutions (NbS) is key to this change, in which freshwaters hold a pivotal role. MERLIN will demonstrate freshwater restoration best-practice; implement innovative NbS at landscape-scale; upscale systemic restoration seizing green growth and private investment opportunities; mainstream restoration by co-development with local communities and economic sectors; multiply solutions for transformative restoration to key players of systemic change. MERLIN will capitalise on successful freshwater restoration projects across Europe. Success factors of 17 flagship projects will be scrutinized, generating a blueprint for proficient NbS implementation. With investments of 10 mio Euro in hands-on upscaling measures along scalability plans, MERLIN will transform these projects into beacons of innovation for systemic change. Upscaling to the European level, MERLIN will identify landscapes with high potential for transformative restoration and will analyse cost-benefits of restoration scenarios. Economic analyses of European regions will seize green growth opportunities arising from restoration. MERLIN will delineate models for private investment into restoration alongside public funding. MERLIN's initiatives will co-design win-win solutions with economic sectors (agriculture, water supply, insurance, navigation) and local communities, spearheading systemic economic, social and environmental change. The MERLIN Academy and virtual marketplace will multiply innovations to the community of practice, investors and policy makers across Europe and beyond. MERLIN is committed to a sustainable, climate-neutral and -resilient, inclusive and transformative path, mainstreaming restoration as a cornerstone for systemic change.

Country	Applicant Legal Name	Type of organisation
DE	**UNIVERSITAET DUISBURG-ESSEN**	**HES**
AT	Schnee auf Moss Werbeagentur GmbH	PRC
AT	VIA DONAU OSTERREICHISCHE WASSERSTRASSEN GESELLSCHAFT MBH	PRC
AT	UNIVERSITAET FUER BODENKULTUR WIEN	HES
BE	AQUA PUBLICA EUROPEA	OTH
BE	PROVINCIE OOST-VLAANDEREN	PUB
BE	UNIVERSITEIT GENT	HES
DE	EMSCHERGENOSSENSCHAFT	PUB
DE	NATURLAND - VERBAND FUR OKOLOGISCHEN LANDBAU EV	OTH
DE	Bundesanstalt fuer Gewaesserkunde	REC
DE	ECOLOGIC INSTITUT gemeinn?tzige GmbH	REC
DE	HELMHOLTZ-ZENTRUM FUR UMWELTFORSCHUNG GMBH - UFZ	REC
DK	Danish Nature Agency Himmerland	PRC
DK	AARHUS UNIVERSITET	HES
ES	GIPUZKOAKO FORU ALDUNDIA	PUB
ES	I-CATALIST SL	PRC
ES	FUNDACIO INSTITUT CATALA DE RECERCA DE L'AIGUA	REC
ES	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	HES
FI	TAPIO OY	PRC
FI	International Peatland Society	OTH
FI	SUOMEN YMPARISTOKESKUS	REC
HR	WWF ADRIA -UDRUGA ZA ZASTITU PRIRODE I OCUVANJE BIOLOSKE RAZNOLIKOSTI	OTH
HU	WWF VILAG TERMESZETI ALAP MAGYARORSZAG ALAPITVANYT	OTH
HU	OKOLOGIAI KUTATOKOZPONT	REC
IL	Kishon river and drainage authority	PRC
IL	TEL AVIV UNIVERSITY	HES
NL	MINISTERIE VAN INFRASTRUCTUUR EN WATERSTAAT	PUB
NL	OPPLA EEIG	OTH
NL	STICHTING DELTARES	REC
NL	WAGENINGEN UNIVERSITY	HES
PL	Kampinoski Park Narodowy	PRC

Country	Applicant Legal Name	Type of organisation
PL	SZKOLA GLOWNA GOSPODARSTWA WIEJSKIEGO	HES
PT	Connectology LDA	PRC
PT	DIRECAO-GERAL DE AGRICULTURA E DESENVOLVIMENTO RURAL	PUB
PT	Munic?pio de Ponte de Lima	PRC
PT	INSTITUTO SUPERIOR DE AGRONOMIA	HES
RO	ASOCIATIA WWF ROMANIA	OTH
RO	INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU GEOLOGIE SI GEOECOLOGIE MARINA-GEOECOMAR	REC
SE	The Swedish Forest Agency	PRC
SE	SVERIGES LANTBRUKSUNIVERSITET	HES
UK	Scottish Natural Heritage	PRC
UK	THE JAMES HUTTON INSTITUTE	REC
UK	THE UNIVERSITY OF STIRLING	HES
UK	UK CENTRE FOR ECOLOGY & HYDROLOGY	REC

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

WaterLANDS

Total Cost: **23 631 576,25 €** Requested Grant: **23 068 483 €**

Title:
Water-based solutions for carbon storage, people and wilderness

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 landowning 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.

Country	Applicant Legal Name	Type of organisation
IE	**UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN**	**HES**
AT	UMWELTVERBAND WWF OSTERREICH (WORLDWIDE FUND FOR NATURE)	OTH
BE	PROSPEX INSTITUTE	OTH
BG	STOLICHNA OBSHTINA	PUB
BG	WWF BULGARIA	OTH
DE	Succow Stiftung	PRC
EE	Riigimetsa Majandamise Keskus	PRC
EE	SIHTASUTUS EESTIMAA LOODUSE FOND	OTH
EE	Tootsi Turvas AS	PRC
EE	TARTU ULIKOOL	HES
ES	AGENCIA ESTATAL CONSEJO SUPERIOR DEINVESTIGACIONES CIENTIFICAS	REC
FI	GEOLOGIAN TUTKIMUSKESKUS	REC
FI	ITA-SUOMEN YLIOPISTO	HES
FR	FONDATION TOUR DU VALAT	REC
FR	PLAN BLEU POUR L'ENVIRONNEMENT ET LE DEVELOPPEMENT EN MEDITERRANEE	REC
IE	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT AND HERITAGE	PUB
IE	ERINN INNOVATION LIMITED	PRC
IE	Irish Rural Link	PRC
IE	NATIONAL UNIVERSITY OF IRELAND GALWAY	HES
IT	We are here Venice	OTH
IT	UNIVERSITA CA' FOSCARI VENEZIA	HES
NL	PROVINCIE GRONINGEN	PUB
NL	Staatsbosbeheer	PUB
NL	STICHTING WETLANDS INTERNATIONAL	OTH
NL	STICHTING KATHOLIEKE UNIVERSITEIT	HES
NL	WAGENINGEN UNIVERSITY	HES
PL	CENTRUM OCHRONY MOKRADEL	REC
PL	UNIWERSYTET WARSZAWSKI	HES
SE	UPPSALA UNIVERSITET	HES
UK	NATURAL ENGLAND	PUB
UK	Scottish Wildlife Trust	OTH
UK	UNIVERSITY OF LEEDS	HES

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

SUPERB

Total Cost: **22 294 356,25 €** Requested Grant: **19 996 256,25 €**

Title:

Systemic solutions for upscaling of urgent ecosystem restoration for forest related biodiversity and ecosystem services

Abstract:

SUPERB pursues the overall goal to create a lasting enabling environment for transformative change towards large-scale forest and forest landscape restoration, which empowers decision makers to take just and informed decisions for restoration of biodiversity, ecosystem services and carbon sequestration in a manner that minimises region specific trade-offs and maximises synergies between ecosystem services. SUPERB develops and synthesises a multidisciplinary, practical, and scientific restoration knowledge basis and makes it publicly available. In 12 large-scale demonstrators across Europe, we will showcase best practices responding to key forest restoration and adaptation challenges on some hundreds of hectares per demo and with the potential for immediate upscaling to over one million hectares in 10-15 years. For large scale restoration to be successful, many actors from different sectors and disciplines must behave synergistically and in a mutually reinforcing way. We will speed up transformative change and further upscaling through innovative stakeholder involvement across scales to ensure the favorability and uptake of the proposed approaches. A comprehensive multi-language online Forest Ecosystem Restoration Gateway will guide stakeholders to find answers to their restoration questions, advise them on how to deal with barriers and enablers and provide access to easily applicable and comprehensible tools and materials that support restoration, e.g., best practices for forest restoration or the development of scalability plans, a tree species selection application, an innovative funding guide, and much more. The Gateway will also host a restoration Marketplace, where market agents, e.g. potential funders and landowners, can agree on bids for restoration projects. SUPERB will boost and measure its impact through its extensive and systematically enlarged stakeholder communities and networks, to ensure the relevance of the project outputs and their positive uptake.

Country	Applicant Legal Name	Type of organisation
FI	**EUROPEAN FOREST INSTITUTE**	**REC**
AT	BUNDESFORSCHUNGS UND AUSBILDUNGSZENTRUM FUR WALD NATURGEFAHREN UND LANDSCHAFT	REC
BE	PROSPEX INSTITUTE	OTH
BE	KATHOLIEKE UNIVERSITEIT LEUVEN	HES
CH	EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH	HES
CH	EIDGENOSSICHEN FORSCHUNGSANSTALT FUR WALD SCHNEE UND LANDSCHAFT	REC
CZ	CESKA ZEMEDELSKA UNIVERZITA V PRAZE	HES
DE	ALBERT-LUDWIGS-UNIVERSITAET FREIBURG	HES
DE	Landesbetrieb Wald und Holz Nordrhein-Westfalen	REC
DK	The Danish Nature Agency	PRC
DK	KOBENHAVNS UNIVERSITET	HES
ES	CONSEJERIA DE FOMENTO Y MEDIO AMBIENTE - JUNTA DE CASTILLA Y LEON	PUB
ES	CONSORCI CENTRE DE CIENCIA I TECNOLOGIA FORESTAL DE CATALUNYA	REC
ES	FUNDACION CENTRO DE SERVICIOS Y PROMOCION FORESTAL Y DE SU INDUSTRIA DE CASTILLA Y LEON	REC
ES	INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA OA MP	REC
FR	ALLIANCE FORETS BOIS	PRC
FR	INSTITUT EUROPEEN DE LA FORET CULTIVEE	REC
FR	INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT	REC
HR	HRVATSKI SUMARSKI INSTITUT	REC
IT	Parco Nord Milano	PRC
IT	UNIVERSITA DEGLI STUDI DEL MOLISE	HES
IT	UNIVERSITA DEGLI STUDI DI FIRENZE	HES
IT	UNIVERSITA DEGLI STUDI DI MILANO	HES
NL	Co?peratieve Vereniging Bosgroep Zuid Nederland U.A.	PRC
NL	LAND LIFE COMPANY BV	PRC
NL	STICHTING WAGENINGEN RESEARCH	REC

Country	Applicant Legal Name	Type of organisation
RO	Fundatia Conservation Carpathia	PRC
RS	INSTITUT ZA NIZIJSKO SUMARSTVO I ZIVOTNU SREDINU	REC
RS	UNIVERSITY OF BELGRADE-FACULTY OF FORESTRY	HES
SE	LANSSTYRELSEN I VASTERBOTTEN LAN	PUB
SE	SVERIGES LANTBRUKSUNIVERSITET	HES
UK	BANGOR UNIVERSITY	HES
UK	FORESTRY COMMISSION RESEARCH AGENCY	REC
UK	KING'S COLLEGE LONDON	HES
UK	UNIVERSITY OF KENT	HES
UK	UNIVERSITY OF LANCASTER	HES

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

REST-COAST

Total Cost: **18 482 593 €** Requested Grant: **17 823 756 €**

Title:
Large scale RESToration of COASTal ecosystems through rivers to sea connectivity

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). The selected 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 adaptation/mitigation under climate change. The proposed adaptation will facilitate replicating large scale restoration and introducing coastal ESS into national and international policies.

Country	Applicant Legal Name	Type of organisation
ES	**UNIVERSITAT POLITECNICA DE CATALUNYA**	**HES**
BG	PENSOFT PUBLISHERS	PRC
BG	INSTITUTE OF OCEANOLOGY BAS	REC
CH	UNION INTERNATIONALE POUR LA CONSERVATION DE LA NATURE ET DE SES RESSOURCES	REC
DE	Nieders?chsischer Landesbetrieb f?r Wasserwirtschaft, K?sten- und Naturschutz	PUB
DE	GCF - GLOBAL CLIMATE FORUM EV	REC
DE	HELMHOLTZ-ZENTRUM GEESTHACHT ZENTRUM FUR MATERIAL- UND KUSTENFORSCHUNGGMBH	REC
DE	KONSORTIUM DEUTSCHE MEERESFORSCHUNG EV	REC
ES	ALBIREM SUSTAINABILITY, S.L.	PRC
ES	Departament de Territori i Sostenibilitat - Generalitat de Catalunya	PUB
ES	Direcci?n General de la Costa y el Mar	PRC
ES	CONSORCIO CENTRO INTERNACIONAL DE INVESTIGACION DE LOS RECURSOS COSTEROS	REC
ES	FUNDACIO EURECAT	REC
ES	SOCIEDAD ESPANOLA DE ORNITOLOGIA SEO	REC
ES	UNIVERSIDAD POLITECNICA DE MADRID	HES
FR	Mediterranean Protected Areas Network	OTH
FR	MedWet	OTH
FR	EGIS PORTS	PRC
FR	FONDATION TOUR DU VALAT	REC
FR	INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT	REC
IL	ISRAEL NATURE AND NATIONAL PARKS PROTECTION AUTHORITY	PUB
IL	INTERDISCIPLINARY CENTER (IDC) HERZLIYA	HES
IT	Mediterranean Sea and Coast Foundation	OTH
IT	PERNICE UMBERTO	PRC
IT	Provveditorato Interregionale alle Opere Pubbliche per il Veneto - Trentino Alto Adige - Friuli Venezia Giulia	PRC
IT	CORILA - CONSORZIO PER IL COORDINAMENTO DELLE RICERCHE INERENTI	REC

Country	Applicant Legal Name	Type of organisation
	AL SISTEMA LAGUNARE DI VENEZIA	
IT	FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI	REC
IT	UNIVERSITA DEGLI STUDI DI CATANIA	HES
NL	PROVINCIE GRONINGEN	PUB
NL	Stichting Ecoshape, Building with Nature	PRC
NL	Stichting The Global Center on Adaptation	OTH
NL	STICHTING DELTARES	REC
NL	STICHTING WAGENINGEN RESEARCH	REC
NL	WAGENINGEN UNIVERSITY	HES
PL	INSTYTUT BUDOWNICTWA WODNEGO POLSKIEJ AKADEMII NAUK	REC
TR	ORGANIZATION OF THE BLACK SEA ECONOMIC COOPERATION	PUB
UK	UNIVERSITY OF EAST ANGLIA	HES
UK	UNIVERSITY OF LINCOLN	HES

LC-GD-8-1-2020 Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals

SCENARIOS

Total Cost: **11 985 716,25 €** Requested Grant: **11 985 716,25 €**

Title:
Strategies for health protection, pollution Control and Elimination of Next generAtion RefractIve Organic chemicals from the Soil, vadose zone and water

Abstract:
SCENARIOS will devise and demonstrate a comprehensive set of technological solutions to address the detection, (bio)monitoring, long-term toxicity, risk assessment, pollution control and remediation of Per- and polyFluoroAlkyl Substances (PFASs) as a test bed for zero pollution ambition from refractory and mobile organic chemicals. SCENARIOS's approach and technologies will be self-sustainable, (near) net-zero energy and will smoothly integrate in the circular economies of EU countries and worldwide. A harmonised composition of the project consortium encompassing renewed academic and research centers and competitive technological SMEs will ensure SCENARIOS? replication and impact and continental level and beyond.
The project will fill the knowledge gap and deliver disruptive remediation TRL advancements for probably the most awkward and widespread toxic class of contaminants -PFAS- with unprecedented energetic balance and the near absence of external chemical additions promoting EU leadership in the sector and a significant advance in the research field. The industrial core of SCENARIOS will enable four demonstrations (case studies) within EU industries and a public health institution stepping forward a set of industrial and societal sectors where pollutant remediation and health surveillance have excellent potential for the Green Deal implementation.

Country Code	Applicant Legal Name	Type of organisation
IT	**UNIVERSITA DEGLI STUDI DEL PIEMONTE ORIENTALE AMEDEO AVOGADRO**	**HES**
CY	NOVAMECHANICS LIMITED	PRC
DE	BUNDESINSTITUT FUER RISIKOBEWERTUNG	REC
DK	Geo	PRC
GR	IDRYMA TECHNOLOGIAS KAI EREVNAS	REC
GR	NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA	HES
ES	COMET GESINCO SL	PRC
ES	IDP INGENIERIA Y ARQUITECTURA IBERIA SL	PRC
ES	LOMARTOV SL	PRC
ES	UNIVERSIDAD DE CASTILLA - LA MANCHA	HES
FI	TAMPEREEN KORKEAKOULUSAATIO SR	HES
IL	Sensoil Innovations Ltd	PRC
IL	BEN-GURION UNIVERSITY OF THE NEGEV	HES
IT	Azienda Ospedaliera "SS. Antonio e Biagio e Cesare Arrigo" di Alessandria	PUB
IT	POLO D'INNOVAZIONE DI GENOMICA, GENETICA E BIOLOGIA SCARL	PRC
IT	UNIVERSITA DEL SALENTO	HES
LU	LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	REC
SE	Envytech solutions AB	PRC
UK	THE UNIVERSITY OF BIRMINGHAM	HES

LC-GD-8-1-2020 Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals

PROMISCES

Total Cost: **11 995 413,75 €** Requested Grant: **11 995 413,75 €**

Title:
Preventing Recalcitrant Organic Mobile Industrial chemicalS for Circular Economy in the Soil-sediment-water system

Abstract:
PROMISCES will identify how industrial pollution prevents the deployment of the circular economy (CE) in the EU and which strategies help overcome key bottlenecks to deliver the ambitions of the European Green Deal and Circular Economy Action Plan.
PROMISCES considers specific CE routes including (i) semi-closed water cycles for drinking water supply at urban and catchment scale; (ii) wastewater reuse for irrigation in agriculture; (iii) nutrient recovery from sewage sludge; (iv) material recovery from dredged sediment and (v) land remediation for safe reuse in urban areas.
To reach its goals, PROMISCES will:

- - Develop new analytical methods and toxicological tools to provide data on persistent, mobile (PM) substances (i.e. PFAS and other industrial chemicals) in complex environmental matrices.
- - Explore sources and environmental pathways of PM substances released from (i) soil; (ii) sediment; (iii) landfills; (iv) wastewater treatment plants and via (v) urban runoff into relevant environmental compartments (soil, sediment, surface water, groundwater).
- Assess fate and transport pathways within the different CE routes and evaluate the impacts of corrective measures.
- Improve the assessment and management of human health risks from drinking water and agricultural products.
- Develop and demonstrate cost-efficient and sustainable technologies for the removal of PM substances from different media.
- Translate PROMISCES results into guidance for efficient and feasible management of PM substances and recommendations for the implementation of relevant EU policy strategies and directives.
- Integrate the results into a decision support framework which considers resource recovery and water reuse and supports chemical management decisions with regards to i) stakeholders and societal demands; ii) PM chemical properties iii) technical solutions to prevent, mitigate and remediate industrial pollution and iv) the whole life cycle of current and future chemicals.

Country	Applicant Legal Name	Type of organisation
FR	**BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES**	**REC**
AT	TECHNISCHE UNIVERSITAET WIEN	HES
BG	SOFIA UNIVERSITY ST KLIMENT OHRIDSKI	HES
DE	BERLINER WASSERBETRIEBE	PUB
DE	Bundesanstalt fuer Gewaesserkunde	REC
DE	DECHEMA GESELLSCHAFT FUER CHEMISCHE TECHNIK UND BIOTECHNOLOGIE E.V.	REC
DE	KWB KOMPENTENTZZENTRUM WASSER BERLIN GEMEINNUTZIGE GMBH	REC
DE	UMWELTBUNDESAMT	REC
ES	Consorci Bes?s Tordera	PUB
ES	ESOLVE CONSULTOR?A E INGENIER?A MEDIOAMBIENTAL S.L.	PRC
ES	AGENCIA ESTATAL CONSEJO SUPERIOR DEINVESTIGACIONES CIENTIFICAS	REC
ES	FUNDACIO EURECAT	REC
FR	COLAS ENVIRONNEMENT	PRC
FR	IN EXTENSO INNOVATION CROISSANCE	PRC
FR	ISB WATER	PRC
FR	INSTITUT DE PHYSIQUE DU GLOBE DE PARIS	HES
FR	INSTITUT NATIONAL DE L ENVIRONNEMENT ET DES RISQUES INERIS	REC
HU	FOVAROSI VIZMUVEK ZARTKORUEN MUKODORESZVENYTARSASAG	PRC
IT	ACEA SPA	PRC
IT	SIMAM SPA	PRC
IT	UNIVERSITA POLITECNICA DELLE MARCHE	HES
NL	BioDetection Systems B.V.	PRC
NL	Hoogheemraadschap van Delfland	PRC
NL	MICROLIFE SOLUTIONS BV	PRC
NL	RIJKSINSTITUUT VOOR VOLKSGEZONDHEID EN MILIEU	REC

NL	STICHTING DELTARES	REC
PL	QSAR LAB SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA	PRC

LC-GD-8-1-2020 Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals

ZeroPM

Total Cost: **11 627 139,25 €** Requested Grant: **11 627 138,5 €**

Title:
ZeroPM: Zero pollution of Persistent, Mobile substances

Abstract:
ZeroPM will interlink and synergize prevention, prioritization and removal strategies to protect the environment and human health from persistent, mobile (PM) substances. To do this, ZeroPM will establish an evidence-based multilevel framework to guide policy, technological and market incentives to minimize use, emissions and pollution of entire groups of PM substances.
To prevent pollution, ZeroPM will activate the momentum of the EU's Chemicals Strategy for Sustainability and support its implementation through the development of scientific, policy and market tools supporting essential use and mitigation of prioritized PM substances, resulting in substitution to safe and sustainable alternatives. ZeroPM will prioritize PM substances and substance groups through the development and application of robust screening and prioritization tools aimed at identifying all PM substances on the global chemical inventory. These tools will take into consideration production, use, presence in the circular economy, hazard and risk established by advancing in silico and in vitro new approach methodologies (NAM) using non-animal approaches. ZeroPM will develop next generation remediation techniques to remove prioritized PM substances from water resources, drinking water and sludge-derived products sustainably.
ZeroPM unites leading researchers, regulators and green chemistry innovation experts that have been instrumental in advancing the science and awareness of PM substances, to form an exemplary multidisciplinary team. ZeroPM will deliver policy improvements, an increase in business opportunities and competitiveness, an improved livelihood for EU citizens and beyond state of the art methods, to prevent regrettable substitution and regrettable remediation of PM substance groups. ZeroPM will be the pathfinding project enabling the ambitions of the Chemical Strategy to become an on-the-ground reality, supporting the movement towards a zero pollution, toxic-free environment.

Country	Applicant Legal Name	Type of organisation
NO	**STIFTELSEN NORGES GEOTEKNISKE INSTITUTT**	**REC**
AT	UNIVERSITAT WIEN	HES
BE	MILIEU CONSULTING SPRL	PRC
CH	EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH	HES
DE	DVGW DEUTSCHER VEREIN DES GAS- UND WASSERFACHES - TECHNISCH-WISSENSCHAFTLICHER VEREIN EV	REC
DE	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	REC
DE	UMWELTBUNDESAMT	REC
GR	PANEPISTIMIO AIGAIOU	HES
LU	UNIVERSITE DU LUXEMBOURG	HES
NL	STICHTING VU	HES
NO	NORSK INSTITUTT FOR VANNFORSKNING	REC
SE	International Chemical Secretariat, ChemSec	PRC
SE	CHALMERS TEKNISKA HOEGSKOLA AB	HES
SE	STOCKHOLMS UNIVERSITET	HES
UK	GOUIN TODD	PRC

LC-GD-8-2-2020 Fostering regulatory science to address chemical and pharmaceutical mixtures: from science to evidence-based policies

PANORAMIX

Total Cost: **4 471 092,5 €** Requested Grant: **4 471 092,5 €**

Title:
Providing risk assessments of complex real-life mixtures for the protection of Europe?s citizens and the environment

Abstract:
The toxicological impact of exposure to chemical mixtures is a matter of undisputed concern, but mixtures are only slowly making their way into regulatory risk assessment. Critical knowledge gaps are which and how many chemicals drive mixture effects in the environment and in humans. Scientific uncertainty remains on the validity of the dose addition principle for complex mixtures of large numbers of chemicals at low concentrations as they occur in our bodies. The PANORAMIX consortium addresses these challenges by showcasing a novel experimental path based on whole mixture assessments for identifying and quantifying the risk of chemical mixtures extracted from real-life samples representing environment and food as well as humans. We provide ready-to-use and practical tools for mixture risk assessment of several chemicals with a diverse range of adverse health outcomes. The applied methodologies, including a panel of in vitro assays coupled with effect-directed analyses and large-scale suspect and non-targeted chemical profiling are innovative in their combinatorial approach. Specifically, we will take advantage of a well-studied human cohort of new-borns, in whom adverse health outcomes related to developmental toxicity originating from chemical mixture exposure will be identified. PANORAMIX will use mixture modelling, case studies and experimental data to deliver a web-based interface for calculating risks to chemical mixtures and to define effect-based trigger values for in vitro effects that can be directly measured in water, food, and blood to identify when mixture exposure is posing a health threat. By involving regulatory and scientific stakeholders throughout the project, we support the implementation of existing mixture risk assessment and management approaches to reduce the most critical exposures and assist in optimizing regulatory approaches to yield evidence-based policies, contributing to EU's zero-pollution ambition for a toxic free environment.

Country	Applicant Legal Name	Type of organisation
DK	**DANMARKS TEKNISKE UNIVERSITET**	**HES**
BE	ALTERTOX	PRC
DE	BIOMAX INFORMATICS AG	PRC
DE	BUNDESINSTITUT FUER RISIKOBEWERTUNG	REC
DE	HELMHOLTZ-ZENTRUM FUR UMWELTFORSCHUNG GMBH - UFZ	REC
DK	REGION SYDDANMARK	PUB
DK	SYDDANSK UNIVERSITET	HES
FR	PrediTox	PRC
FR	ECOLE NATIONALE VETERINAIRE, AGROALIMENTAIRE ET DE L'ALIMENTATION NANTES ATLANTIQUE	HES
NL	STICHTING VU	HES
UK	BRUNEL UNIVERSITY LONDON	HES

LC-GD-8-2-2020 Fostering regulatory science to address chemical and pharmaceutical mixtures: from science to evidence-based policies

LIFESAVER

Total Cost: **6 136 512,5 €** Requested Grant: **6 136 512 €**

Title:
Living Impact on Fetal Evolution: Shelter-Analyze-Validate-Empower Regulations

Abstract:
In Europe about 75% of all neonatal deaths and 60% of all infant deaths occur in infants born preterm, and worldwide 450 neonatal deaths occur every hour. The number of preterm births is growing despite advances in medicine as more pregnancies are in the later age but also due to increasing environmental treats and lack of suitable treatments.
In the LIFESAVER vision, every pregnant woman must have a proper living environment with the minimal risks to the fetus, safeguarded with scientifically justified regulations in use and control of potentially risky chemical and medicinal products, leading to healthier quality lives of the babies, overarching for generations.
The LIFESAVER addresses the presently unmet societal and healthcare needs in creating and developing of a validated scientific knowledge base for the development and implementation of regulatory approaches relevant to maternal and fetal health. The objective is in creation of new, digitally cloned in vitro system for emulation of the pre-natal conditions in the vicinity of uterine/placental interface, capable of future high biofidelity prediction of safety and risk of substances towards unborn babies. LIFESAVER concept is based on an original idea of hybridization of several innovative technologies, integrating digital in silico/in vitro (biodigital twin) systems, enabling effective screening of chemicals and pharmaceuticals which might affect pregnant women health, reducing animal, preclinical and clinical testing, which is not presently possible with any other existing approaches to the same level of confidence.
The outcomes are in design, manufacturing and deployment of a platform having key components of in vitro placental tissue for sufficient emulation of typical prenatal conditions. This aims to provide a solid scientific rationale for new regulations for chemical and pharmaceutical use relevant for the Green Deal vision.

Country	Applicant Legal Name	Type of organisation
IT	**ENGINSOFT SPA**	**PRC**
AT	EVERCYTE GMBH	PRC
BE	IDEA STRATEGISCHE ECONOMISCHE CONSULTING	PRC
BE	PRO-ACTIVE	PRC
FI	Seqvera Ltd. Oy	PRC
FR	ELVESYS	PRC
IE	NATIONAL UNIVERSITY OF IRELAND GALWAY	HES
IE	The Planet Calls	REC
IT	ISTITUTO NAZIONALE DI RICERCA METROLOGICA	REC
IT	UNIVERSITA CATTOLICA DEL SACRO CUORE	HES
MT	Malta Life Sciences Centre Limited	PRC
PT	i3S - INSTITUTO DE INVESTIGACAO E INOVACAO EM SAUDE DA UNIVERSIDADE DO PORTO	REC
PT	LABORATORIO IBERICO INTERNACIONAL DE NANOTECNOLOGIA	REC
SE	CELLINK AB	PRC

LC-GD-8-2-2020 Fostering regulatory science to address chemical and pharmaceutical mixtures: from science to evidence-based policies

ALTERNATIVE

Total Cost: **5 499 757,5 €** Requested Grant: **5 499 757,25 €**

Title:
environmentAL Toxicity chEmical mixtuRes through aN innovative platform based on aged cardiac tissue model

Abstract:
ALTERNATIVE will develop an innovative platform able to detect the cardiotoxicity of chemicals and their bio-transformation products. The novel platform will enable regulators and industry to identify, quantify and prevent cardiotoxic co-exposures to industrial chemicals and pharmaceuticals in a cost-effective way. ALTERNATIVE will particularly focus on cardiotoxic effects on older people, which is of high relevance in view of the ageing EU population and the high spread of cardiovascular diseases.
The platform will consist of a three-dimensional tissue engineering in-vitro model mimicking the human cardiac tissue, coupled with a reliable, high-throughput monitoring system based on multi-omics analyses, and integrated into a Machine Learning (ML) risk assessment tool. In addition, ALTERNATIVE will modify the tissue model to reproduce the aged myocardial tissue and elucidate the adverse effects of chemicals on older people. ALTERNATIVE?s proof-of-concept validation will be performed on well-known mixtures of pollutants, affecting different environmental compartments, and selected via epidemiological, toxicological and modelling expertise.
ALTERNATIVE will also provide systematic reviews of high-quality epidemiological studies to support integrated in vitro and in silico data, giving a more robust basis for regulatory decisions.
The ALTERNATIVE platform will be an innovative tool for complying with the current regulation associated with the assessment of chemical compounds. It will be a new instrument to evaluate unpredictable toxicity due to synergistic effects of different chemicals, additionally worsened by the human ageing process.
By introducing an in vitro cardiac system and ML models, ALTERNATIVE will provide a platform able to refine, reduce and replace the need for animal testing, providing close-to-real scenario information on toxicity and achieving a significant reduction of the associated direct and indirect costs.

Country Code	Applicant Legal Name	Type of organisation
IT	**POLITECNICO DI TORINO**	**HES**
AT	MEDIZINISCHE UNIVERSITAT INNSBRUCK	HES
BE	SCIENSANO	REC
BG	CST LTD	PRC
DE	EURESCOM-EUROPEAN INSTITUTE FOR RESEARCH AND STRATEGIC STUDIES IN TELECOMMUNICATIONS GMBH	PRC
ES	FUNDACIO EURECAT	REC
FR	ELVESYS	PRC
IT	IVTECH SRL	PRC
IT	CONSIGLIO NAZIONALE DELLE RICERCHE	REC
IT	ISTITUTO DI RICERCHE FARMACOLOGICHE MARIO NEGRI	REC
NL	UNIVERSITEIT UTRECHT	HES

LC-GD-9-1-2020 European Research Infrastructures' capacities and services to address European Green Deal challenges

PAUL

Total Cost: **12 999 999 €** Requested Grant: **12 999 999 €**

Title:
Pilot Application in Urban Landscapes ? towards integrated city observatories for greenhouse gases

Abstract:
The ?Pilot Application in Urban Landscapes ? towards integrated city observatories for greenhouse gases? (PAUL) project supports the European Green Deal by creating capabilities to observe and verify greenhouse gas emissions from densely populated urban areas across Europe. Cities are recognized as important anthropogenic greenhouse gas emission hotspots and therefore play a significant role in any emission reduction efforts. The PAUL project aims to increase our understanding of specific needs of greenhouse gas emission assessment in urban environment; it compares available and novel observational approaches and implements an integrated concept for a city observatory, providing unique data sets that feed diverse modelling approaches, scientific studies and will be the base of services towards the city administrations. A specifically innovative approach is the co-design of services, models and observations between city administrators and scientists from multiple disciplines including social and governmental sciences.The PAUL co-design approach will exploring the needs of the cities and combining these with the scientific outcomes. This allows to introduce smart services to the cities, supporting evidence-based decisions on climate action and strategic investments. Overarching goals of PAUL are to:

1) implement elements of a pilot city observatory in a large (Paris), a medium (Munich) and a small (Zurich) European city,
2) collaborate with city stakeholders and engage citizens in co-designing services that are required for GHG monitoring in order to validate the implementation of Paris Agreement, and
3) increase our understanding of specific needs of GHG assessment in urban environment and create a service portfolio for setting up an urban greenhouse gas observatory.

Country	Applicant Legal Name	Type of organisation
FI	**INTEGRATED CARBON OBSERVATION SYSTEM EUROPEAN RESEARCH INFRASTRUCTURECONSORTIUM**	**REC**
BE	UNIVERSITEIT ANTWERPEN	HES
CH	ORGANISATION METEOROLOGIQUE MONDIALE	PUB
CH	EIDGENOSSISCHE MATERIALPRUFUNGS- UND FORSCHUNGSANSTALT	HES
CH	Umwelt- und Gesundheitsschutz Z?rich	PUB
CH	UNIVERSITAT BASEL	HES
CZ	USTAV VYZKUMU GLOBALNI ZMENY AV CR VVI	REC
DE	ALBERT-LUDWIGS-UNIVERSITAET FREIBURG	HES
DE	KARLSRUHER INSTITUT FUER TECHNOLOGIE	HES
DE	MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV	REC
DE	RUPRECHT-KARLS-UNIVERSITAET HEIDELBERG	HES
DE	TECHNISCHE UNIVERSITAET MUENCHEN	HES
DK	KOBENHAVNS UNIVERSITET	HES
GR	ETHNIKO ASTEROSKOPEIO ATHINON	REC
ES	UNIVERSIDAD AUTONOMA DE BARCELONA	HES
FI	AALTO KORKEAKOULUSAATIO SR	HES
FI	HELSINGIN YLIOPISTO	HES
FI	ILMATIETEEN LAITOS	REC
FR	AIRPARIF	PRC
FR	Origins SAS	PRC
FR	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	REC
FR	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	REC
FR	INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT	REC
IT	CONSIGLIO NAZIONALE DELLE RICERCHE	REC
IT	FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI	REC
NL	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	REC
PL	AKADEMIA GORNICZO-HUTNICZA IM. STANISLAWA STASZICA W KRAKOWIE	HES
PT	UNIVERSIDADE DE AVEIRO	HES
SE	LUNDS UNIVERSITET	HES
UK	EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS	REC

Country	Applicant Legal Name	Type of organisation
UK	EUROPEAN SOCIAL SURVEY EUROPEAN RESEARCH INFRASTRUCTURE CONSORTIUM	REC

LC-GD-9-1-2020 European Research Infrastructures' capacities and services to address European Green Deal challenges

StoRIES

Total Cost: **6 999 980 €** Requested Grant: **6 999 980 €**

Title:
Storage Research Infrastructure Eco-System

Abstract:
According to the European Green Deal goals, new energy storage technologies will supply more flexibility and balance in the grid, providing a back-up to intermittent renewable energy and contribute to seasonal energy storage challenges. Above all, the main challenge for energy storage development is economic. In order to achieve more performing, competitive and cost effective energy storage devices, the project fosters a European ecosystem of industry and research organisations on energy storage technologies aimed at developing novel concepts and technologies. StoRIES brings together a consortium of 32 beneficiaries from 17 countries: ESFRI facilities, technology institutes, universities and industrial partners to jointly improve the economic performance of storage technologies. Members of the European Energy Research Alliance and from the industry lead European Association for Storage of Energy are establishing the core of this world-class European ecosystem. The main objectives of StoRIES are linked to the energy storage development by providing access to world-class research infrastructures and services, with a focus on improving materials for devices and optimizing hybrid energy systems with a view to make energy technologies more competitive and reducing costs. In addition, StoRIES focuses on the analysis of socio-technical and environmental aspects of new developments and systems and provides training and education on these issues. By promoting complementary expertise, interdisciplinary cooperation and a broader exchange of knowledge and technologies throughout the academic world and with industry, StoRIES will significantly improve the technological basis for energy storage applications. Furthermore, StoRIES will establish an ecosystem with international peer partners from Research and Industry to foster open science and promote new energy technology standards.

Country Code	Applicant Legal Name	Type of organisation
DE	**KARLSRUHER INSTITUT FUER TECHNOLOGIE**	**HES**
AT	AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH	REC
BE	ALLIANCE EUROPEENNE DE RECHERCHE DANS LE DOMAINE DE L'ENERGIE	OTH
BE	EUROPEAN ASSOCIATION FOR STORAGE OF ENERGY	OTH
BE	I.C. BELGIUM SCRL	PRC
DE	FORSCHUNGSZENTRUM JULICH GMBH	REC
DK	DANMARKS TEKNISKE UNIVERSITET	HES
ES	AGENCIA ESTATAL CONSEJO SUPERIOR DEINVESTIGACIONES CIENTIFICAS	REC
ES	CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT	REC
FR	ELECTRICITE DE FRANCE	PRC
IT	ENI SPA	PRC
IT	AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE	REC
IT	CONSIGLIO NAZIONALE DELLE RICERCHE	REC
NO	ECCSEL EUROPEAN RESEARCH INFRASTRUCTURE CONSORTIUM	REC
NO	SINTEF AS	REC
NO	SINTEF ENERGI AS	REC

LC-GD-9-1-2020 European Research Infrastructures' capacities and services to address European Green Deal challenges

RI-URBANS

Total Cost: **8 000 000 €** Requested Grant: **8 000 000 €**

Title:
Research Infrastructures Services Reinforcing Air Quality Monitoring Capacities in European Urban & Industrial AreaS (RI-URBANS)

Abstract:
RI-URBANS aims to demonstrate how Service Tools (STs) from atmospheric Research Infrastructures (RIs) can be adapted and enhanced to better address the challenges and societal needs concerning air quality (AQ) in European cities and industrial hotspots. RI-URBANS responds to urgent needs to substantially reduce air pollution across EU by providing enhanced AQ observations in support of advanced AQ policy assessment. We develop and enhance synergies between AQ Monitoring Networks (AQMNs) and RIs in the atmospheric domain and combine advanced science knowledge and innovative technologies to develop pilot STs. These will enhance the AQMNs capacity to evaluate, predict and support policies for abating urban air pollution. RI-URBANS deploys tools and information systems in the hands of citizens and communities to support decision-making by AQ managers and regulators. The focus is on ambient nanoparticles and atmospheric particulate matter, their sizes, constituents, source contributions and gaseous precursors. RI-URBANS will evaluate novel AQ parameters, source contributions, and their associated health effects to demonstrate the European added value of implementing such STs. The project builds on existing initiatives for advanced research-driven AQ observations at supersites from European cities to provide the innovative AQ STs. Five implemented pilots in 9 cities will demonstrate the ability to integrate complementary STs in AQMNs and data management using FAIR (Findable, Accessible, Interoperable, Re-usable) principles. RI-URBANS will address all aspects of sustainability, including efficient curation, preservation and provision of access to data, training and capacity building, and how the use of tools will be secured in the future. Finally, upscaling and sustainability will be provided to the offered AQMNs-RIs interoperable services, using advanced instrumentation, modelling, source apportionment, integrated citizens observatories and mobile measurements.

Country	Applicant Legal Name	Type of organisation
ES	**AGENCIA ESTATAL CONSEJO SUPERIOR DEINVESTIGACIONES CIENTIFICAS**	**REC**
BE	VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.	REC
CH	EIDGENOSSISCHE MATERIALPRUFUNGS- UND FORSCHUNGSANSTALT	HES
CH	PAUL SCHERRER INSTITUT	REC
DE	FORSCHUNGSZENTRUM JULICH GMBH	REC
DE	LEIBNIZ INSTITUT FUER TROPOSPHAERENFORSCHUNG e.V.	REC
GR	ETHNIKO ASTEROSKOPEIO ATHINON	REC
GR	IDRYMA TECHNOLOGIAS KAI EREVNAS	REC
ES	BARCELONA SUPERCOMPUTING CENTER - CENTRO NACIONAL DE SUPERCOMPUTACION	REC
ES	FUNDACION PRIVADA INSTITUTO DE SALUD GLOBAL BARCELONA	REC
FI	HELSINGIN YLIOPISTO	HES
FI	ILMATIETEEN LAITOS	REC
FR	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	REC
FR	INSTITUT MINES-TELECOM	HES
FR	INSTITUT NATIONAL DE L ENVIRONNEMENT ET DES RISQUES INERIS	REC
IT	CONSIGLIO NAZIONALE DELLE RICERCHE	REC
NL	KONINKLIJK NEDERLANDS METEOROLOGISCH INSTITUUT-KNMI	REC
NL	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	REC
NL	UNIVERSITEIT UTRECHT	HES
NO	METEOROLOGISK INSTITUTT	REC
NO	NILU STIFTELSEN NORSK INSTITUTT FORLUFTFORSKNING	REC
PL	UNIWERSYTET WARSZAWSKI	HES
RO	INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU OPTOELECTRONICA INOE 2000	REC
RU	M.V. LOMONOSOV MOSCOW STATE UNIVERSITY	HES
RU	SAINT PETERSBURG SCIENTIFIC RESEARCH CENTRE FOR ECOLOGICAL SAFETY OF RUSSIAN ACADEMY OF SCIENCES	REC
RU	SAINT PETERSBURG STATE UNIVERSITY	HES

UK	IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE	HES
UK	THE UNIVERSITY OF BIRMINGHAM	HES

LC-GD-9-2-2020 Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation

LOCALISED

Total Cost: **5 083 700 €** Requested Grant: **5 083 700 €**

Title:
Localised decarbonisation pathways for citizens, local administrations and businesses to inform for mitigation and adaptation action

Abstract:
The objective of LOCALISED is to downscale national decarbonization trajectories consistent with Europe's net-zero target to the local levels and provide the results to local authorities, citizens and businesses, in a way that would speed up the uptake of mitigation and adaptation actions. To this end, the project will create effective and clearly understandable tools that transform localised data on possible decarbonisation pathways by 2030 and 2050 into knowledge for action, namely: (1) the Decarbonisation Profiler for municipalities, regions and their citizens, providing information in all 24 EU languages, and (2) the Net-Zero Business Consultant tool. The tools will allow local authorities and policy-makers as well as citizens and businesses: to identify viable combinations and best practices of (sectoral) mitigation and adaptation measures for every NUTS3 region on how to reach the goals of the downscaled pathways and to introduce an adapted-to-case service for implementation and monitoring of SECAPs.
This is closing a gap as the few currently available European platforms providing information on energy transition to net-zero in Europe have so far limited their scope and results to the national level (EUCalculator, INNOPATHS, CTI-2050), which is of little use at the level where the changes must be implemented. The project will additionally engage with EU citizen groups to inform how climate change and different EU net-zero scenarios positively and negatively affect their life and what share of mitigation can be enhanced via key behavioural change. Three local and five associated partners from local and regional administrations and business organisations will inform the development and test the tools. They will also be instrumental in supporting upscaling and replication through local and European dissemination and networking.

Country	Applicant Legal Name	Type of organisation
DE	**POTSDAM INSTITUT FUER KLIMAFOLGENFORSCHUNG**	**REC**
AT	STADT WIEN	PUB
AT	OSTERREICHISCHE GESELLSCHAFT FUR UMWELT UND TECHNIK	REC
DE	CMF CLIMATE MEDIA FACTORY UG (HAFTUNGSBESCHRANKT) GMBH	PRC
DE	FORSCHUNGSZENTRUM JULICH GMBH	REC
ES	AJUNTAMENT DE BARCELONA	PUB
ES	FUNDACIO INSTITUT DE RECERCA DE L'ENERGIA DE CATALUNYA	REC
IT	T6 ECOSYSTEMS SRL	PRC
IT	FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI	REC
NL	UNIVERSITEIT TWENTE	HES
PL	OBSZAR METROPOLITALNY GDANSK-GDYNIA-SOPOT	OTH
PL	INSTYTUT MASZYN PRZEPLYWOWYCH IM ROBERTA SZEWALSKIEGO POLSKIEJ AKADEMII NAUK - IMP PAN	REC

LC-GD-9-2-2020 Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation

CityCLIM

Total Cost: **4 997 790 €** Requested Grant: **4 997 790 €**

Title:
NEXT GENERATION CITY CLIMATE SERVICES USING ADVANCED WEATHER MODELS AND EMERGING DATA SOURCES

Abstract:
The strategic objective of CityCLIM is to significantly contribute to delivering the next-generation of City Climate Services based on advanced weather forecast models enhanced with data both from existing, but insufficiently used, sources and emerging data sources, such as satellite data (e.g., Copernicus data) or data generated by Citizens Science approaches for Urban Climate Monitoring etc. For City Climate Services, data products of interest related to land surface properties, atmospheric properties (e.g., aerosol optical thickness), geometry etc. For all of those, information of interest concerns e.g., Copernicus data products and services that are already existing (e.g., based on Sentinel-3/OLCI, PROBA-V, SPOT, Sentinel-1, MetopASCAT data), will exist in the near future (based on already flying satellites such as Sentinel-2), or will exist in the mid-term (based on satellites currently under development) and long-term (based on satellites soon starting concept phase) future. The project will establish; (i) an open platform allowing for efficient building of services based on access to diverse data; (ii) enhanced weather models based on data from diverse existing and emerging sources; (iii) a set of City Climate Services customizable to specific needs of users in cities; and (iv) a generic Framework for building next generation of Urban Climate Services. CityCLIM will be driven by 4 Pilots addressing diverse climate regions in Europe (Luxembourg, Thessaloniki, Valencia, Karlsruhe) which will define requirements upon the tools to be developed, support specification and testing of the services and serve as demonstrators of the selected approaches and the developed technologies. The consortium will elaborate business plan to assure sustainability of the platform and services.

Country	Applicant Legal Name	Type of organisation
DE	**OHB SYSTEM AG**	**PRC**
AT	OHB DIGITAL SOLUTIONS GMBH	PRC
CH	METEOLOGIX AG	PRC
DE	STADT KARLSRUHE	PUB
DE	HELMHOLTZ-ZENTRUM FUR UMWELTFORSCHUNG GMBH - UFZ	REC
DE	INSTITUT F?R ANGEWANDTE SYSTEMTECHNIK BREMEN GMBH	REC
GR	REGION OF CENTRAL MACEDONIA	PUB
ES	AYUNTAMIENTO DE VALENCIA	PUB
ES	UNIVERSITAT DE VALENCIA	HES
LU	CLT UFA	PRC

LC-GD-9-2-2020 Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation

I-CISK

Total Cost: **4 998 822,5 €** Requested Grant: **4 998 822,5 €**

Title:
Innovating Climate services through Integrating Scientific and local Knowledge

Abstract:
Climate Services (CS) are crucial in empowering citizens, stakeholders and decision-makers in defining resilient pathways to adapt to climate change and extreme events. Despite advances in scientific data and knowledge (e.g. Copernicus, GEOSS), current CS fail to achieve their full value-proposition to end-users. Challenges include incorporation of social and behavioural factors, local needs, knowledge and the customs of end-users. I-CISK will develop a next generation of end-user CS, which follow a social and behaviourally informed approach to co-producing services that meet climate information needs at a relevant spatial and temporal scale. I-CISK takes a trans-disciplinary approach to developing CS by working with stakeholders in 7 Living Labs established in climate hotspots in Europe, it's neighbours, and Africa, to address climate change and extremes (droughts, floods and heatwaves) faced by agriculture, forestry, tourism, energy, health, and the humanitarian sectors. With end-users, I-CISK will co-design, co-create, co-implement, and co-evaluate pre-operational CS that provide a step-change in integrating local knowledge, perceptions and preferences with scientific knowledge. This co-production framework is unique as it (i) links climate impact and adaptation at different temporal scales from (sub)-seasonal forecasts through to climate scale projections, and (ii) explicitly considers the human-climate feedbacks of adaptation and options in a multi-timescale, multi-sector, and multi-hazard setting. The novel CS will be built on a highly customisable cloud-based web platform that I-CISK develops; freely available, and easily replicable. The I-CISK co-production framework, supported by online open courses, guidelines, business stories and strategic dissemination, will catalyse the production and adoption of CS that integrate end-user local knowledge with scientific knowledge, contribute to improved decisions and policies, and a flourishing market for end-user CS

Country Code	Applicant Legal Name	Type of organisation
NL	**STICHTING IHE DELFT INSTITUTE FOR WATER EDUCATION**	**REC**
DE	52?North Initiative for Geospatial Open Source Software GmbH	OTH
GR	EMVIS SYMVOULOI MICHANIKOI ANONYMI ETAIREIA	PRC
ES	CENTRO DE INVESTIGACION ECOLOGICA Y APLICACIONES FORESTALES	REC
ES	UNIVERSIDAD COMPLUTENSE DE MADRID	HES
GE	CAUCASUS ENVIRONMENTAL NGO NETWORK ASSOCIATION	OTH
HU	IDEAS SCIENCE KFT	PRC
IT	GECOSISTEMA SRL	PRC
NL	HET NEDERLANDSE RODE KRUIS VERENIGING	OTH
NL	STICHTING VU	HES
SE	SVERIGES METEOROLOGISKA OCH HYDROLOGISKA INSTITUT	PUB
SE	UPPSALA UNIVERSITET	HES
UK	EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS	REC

LC-GD-9-2-2020 Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation

REACHOUT

Total Cost: **4 998 860 €** Requested Grant: **4 998 860 €**

Title:

RESILIENCE IN EUROPE THROUGH ACTIVATING CITY HUBS REACHING OUT TO USERS WITH TRIPLE-A CLIMATE ADAPTATION TOOLS

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.

EU wide upscaling is achieved through a City Hub approach and through connection to national and EU service platforms. C40 and R-Cities networks strengthen outreach and upscaling towards hundreds of cities world-wide. Our private sector partner APG is one of the world?s largest pension investors, responsible for the management of 560 billion euros in pension funds for 4.7 million participants. APG manages assets in five of the seven City Hubs. REACHOUT brings together a highly experienced transdisciplinary team with comprehensive knowledge on climate change adaptation and climate services, experience in working in cities. Our consortium will bridge the last mile and engage citizens and the private sector through active participation, building capacity and fostering collective action towards ambitions, addressing climate-related vulnerability.

Country Code	Applicant Legal Name	Type of organisation
NL	**STICHTING DELTARES**	**REC**
DE	ECOLOGIC INSTITUT gemeinn?tzige GmbH	REC
GR	DIMOS ATHINAION	PUB
ES	AYUNTAMIENTO DE LOGRONO	PUB
ES	FUNDACION TECNALIA RESEARCH & INNOVATION	REC
IE	CORK CITY COUNCIL	PUB
IE	UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK	HES
IT	COMUNE DI MILANO	PUB
IT	FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI	REC
NL	Climate Adaptation Services	OTH
NL	Stichting Global Resilient Cities Network	OTH
NL	SWECO NEDERLAND BV	PRC
NL	STICHTING VU	HES
NO	Municipality of Lillestr?m	PRC
NO	STIFTELSEN NORGES GEOTEKNISKE INSTITUTT	REC
PL	MIASTO GDYNIA	PUB
PL	FUNDACJA SENDZIMIRA	REC

LC-GD-9-2-2020 Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation

RethinkAction

Total Cost: **4 999 817,5 €** Requested Grant: **4 999 817,5 €**

Title:
CRoss-sEcToral planning decisIoN-maKing platform to foster climate Action

Abstract:
RethinkAction puts citizens and decision-makers at the core of the climate change action, by developing a cross-sectoral user-friendly decision-making platform tailored to the needs of different end-users for delivering clear and valuable information on climate change, increasing awareness and attractiveness of mitigation and adaptation solutions centred on land use as a key driver, even critical, to sustain life and to reach objectives in the context of climate change.
RethinkAction moves beyond just informing them about the desirable future and what needs to be changed, but guiding them in the decision-making process by showing how to do it through practical land-use based solutions, while at the same time building awareness and attractiveness of new lifestyles and behavioural change, and how barriers can be overcome. By co-creating of the solutions through participatory processes, RethinkAction will unquestionably promote climate change action and acceptability of the measures.
RethinkAction platform will allow users to assess land use-based adaptation and mitigation solutions, understand climate change impacts over time, linking local, EU and global scales based on 6 representative case studies, covering the main regional differences related to climate change.

Country Code	Applicant Legal Name	Type of organisation
ES	**FUNDACION CARTIF**	**REC**
DE	CMF CLIMATE MEDIA FACTORY UG (HAFTUNGSBESCHRANKT) GMBH	PRC
DE	ICLEI - LOCAL GOVERNMENTS FOR SUSTAINABILITY EV	OTH
GR	ETHNIKO ASTEROSKOPEIO ATHINON	REC
ES	GMV AEROSPACE AND DEFENCE SA	PRC
ES	UNIVERSIDAD DE VALLADOLID	HES
FR	INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT	REC
HU	GEONARDO ENVIRONMENTAL TECHNOLOGIESLTD	PRC
IT	RINA CONSULTING SPA	PRC
IT	FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI	REC
JP	UNITED NATIONS UNIVERSITY	HES
PT	FCIENCIAS.ID - ASSOCIACAO PARA A INVESTIGACAO E DESENVOLVIMENTO DE CIENCIAS	REC
SE	IVL SVENSKA MILJOEINSTITUTET AB	REC

LC-GD-9-3-2020 A transparent and accessible ocean: towards a digital twin of the ocean

ILIAD

Total Cost: **18 944 255 €** Requested Grant: **17 046 229,63 €**

Title:
INTEGRATED DigitaL Framework FOR Comprehensive MARITIME DATA AND INFORMATION SERVICES

Abstract:
ILIAD builds on the assets resulting from two decades of investments in policies and infrastructures for the blue economy and aims at establishing an interoperable, data-intensive, and cost-effective Digital Twin of the Ocean (DTO). It capitalizes on the explosion of new data provided by many different earth sources, advanced computing infrastructures (cloud computing, HPC, Internet of Things, Big Data, social networking, and more) in an inclusive, virtual/augmented, and engaging fashion to address all Earth Data challenges. It will contribute towards a sustainable ocean economy as defined by the Centre for the Fourth Industrial Revolution and the Ocean, a hub for global, multistakeholder co-operation.
The ILIAD DTO will fuse a large volume of diverse data, in a semantically rich and data agnostic approach to enable simultaneous communication with real world systems and models. Ontologies and a standard style-layered descriptor will facilitate semantic information and intuitive discovery of underlying information and knowledge to provide a seamless experience. The combination of geovisualisation, immersive visualization and virtual or augmented reality allows users to explore, synthesize, present, and analyze the underlying geospatial data in an interactive manner.
The enabling technology of the ILIAD DTO will contribute to the implementation of the EU?s Green Deal and Digital Strategy and to the achievement of the UN Ocean Decade's outcomes and Sustainable Development Goals. To realize its potential, ILIAD DTO will follow the System of Systems approach, integrating all existing EU Earth Observing and Modelling Digital Infrastructures and Facilities
To promote additional applications through ILIAD DTO, the partners will create the ILIAD Marketplace. Like an app store, providers will use the ILIAD Marketplace to distribute apps, plug-ins, interfaces, raw data, citizen science data, synthesized information, and value-adding services derived from the ILIAD DTO.

Country	Applicant Legal Name	Type of organisation
BE	**INTRASOFT INTERNATIONAL**	**PRC**
AM	AMERICAN UNIVERSITY OF ARMENIA FOUNDATION	HES
BE	OPEN GEOSPATIAL CONSORTIOM EUROPE	OTH
BE	EIGEN VERMOGEN VAN HET INSTITUUT VOOR LANDBOUW- EN VISSERIJONDERZOEK	REC
BG	DARZHAVNO PREDPRIYATIE PRISTANISHTNA INFRASTRUKTURA	OTH
BG	NATIONAL INSTITUTE OF METEOROLOGY AND HYDROLOGY	REC
BG	TECHNICAL UNIVERSITY OF VARNA	HES
DE	GENILLARD & CO GMBH	PRC
DE	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	REC
EE	TALLINNA TEHNIKA?LIKOOL	HES
GR	ARISTOTELIO PANEPISTIMIO THESSALONIKIS	HES
GR	DIMOKRITIO PANEPISTIMIO THRAKIS	HES
GR	IDRYMA TECHNOLOGIAS KAI EREVNAS	REC
ES	ALPHA UNMANNED SYSTEMS SL	PRC
ES	CONSORCIO PARA EL DISENO, CONSTRUCCION, EQUIPAMIENTO Y EXPLOTACION DE LA PLATAFORMA OCEANICA DE CANARIAS	PUB
ES	DEIMOS SPACE SOCIEDAD LIMITADA UNIPERSONAL	PRC
ES	ACONDICIONAMIENTO TARRASENSE ASSOCIACION	REC
ES	FUNDACION CENTRO TECNOLOGICO ACUICULTURA DE ANDALUCIA	REC
ES	FUNDACION DE LA COMUNIDAD VALENCIANA PARA LA INVESTIGACION, PROMOCION Y ESTUDIOS COMERCIALES DE VALENCIAPORT	REC
ES	UNIVERSIDAD AUTONOMA DE BARCELONA	HES
FR	ALSEAMAR	PRC
FR	ASSOCIATION EUROPEENNE EURISY	OTH
FR	IEEE FRANCE SECTION	OTH
FR	Technip France SA	PRC
FR	THALES	PRC

Country	Applicant Legal Name	Type of organisation
FR	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	REC
IE	UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK	HES
IL	AGORA P.S.V.D.	PRC
IL	Docktech ltd	PRC
IL	ECO WAVE POWER LTD	PRC
IL	TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY	HES
IL	UNIVERSITY OF HAIFA	HES
IT	METEOROLOGICAL AND ENVIRONMENTAL EARTH OBSERVATION SRL	PRC
IT	TERRADUE SRL	PRC
IT	ASSOCIAZIONE MEDITERRANEA ACQUACOLTORI	REC
IT	UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA	HES
MA	AGIR Association de Gestion Int?gr?e des Ressources	OTH
NL	RAMANI B.V.	PRC
NL	STICHTING DOTSPACE	OTH
NL	STICHTING BREDA UNIVERSITY OF APPLIED SCIENCES	HES
NO	BYE BENTE	PRC
NO	TECHNOLOGY FOR OCEAN FOUNDATION	PRC
NO	NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU	HES
NO	SINTEF AS	REC
NO	SINTEF OCEAN AS	REC
PL	INSTYTUT CHEMII BIOORGANICZNEJ POLSKIEJ AKADEMII NAUK	REC
PT	HIDROMOD MODELACAO EM ENGENHARIA LDA	PRC
PT	INESC TEC - INSTITUTO DE ENGENHARIADE SISTEMAS E COMPUTADORES, TECNOLOGIA E CIENCIA	REC
PT	WAVEC/OFFSHORE RENEWABLES - CENTRO DE ENERGIA OFFSHORE ASSOCIACAO	REC
RO	TERRASIGNA SRL	PRC
RO	INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE MARINA GRIGORE ANTIPA	REC
TN	REGIONAL ACTIVITY CENTRE FOR SPECIALLY PROTECTED AREAS	PUB
TN	Sea Gust (Slim Gana Suarl)	PRC
UK	BLUE LOBSTER IT LIMITED	PRC
UK	CONSERVATION EDUCATION AND RESEARCH TRUST	REC
UK	THE UNIVERSITY OF EDINBURGH	HES

LC-GD-10-1-2020 European capacities for citizen deliberation and participation for the Green Deal

REAL_DEAL

Total Cost: **6 795 550 €** Requested Grant: **6 795 550 €**

Title:
Reshaping European Advances towards green Leadership Through Deliberative Approaches and Learning

Abstract:
REAL_DEAL will stimulate a pan-European debate to reshape citizens? and stakeholders? active participation through deliberative processes around the European Green Deal. It brings together researchers and practitioners of deliberative democracy from a wide range of disciplines including environmental rights and the law of public participation, ethics and responsible innovation, gender studies and ecofeminism, psychology, geography, urban planning and sustainability studies. It includes the EU?s largest civil society networks advocating on the environment, climate, sustainable development, local democracy and the European movement. It teams up with youth climate, social justice and women?s organisations, SMEs, universities and research institutes, mobilising networks with thousands of CSOs, uniting millions of citizens and activating contacts to thousands of policymakers.
In a large co-creation exercise, REAL_DEAL will develop, test and validate innovative tools and formats to propel deliberative democracy to the next level. It will tests its innovations at citizens assemblies for the transition in at least 13 countries. We will scrutinise pan-European formats ranging from digital deliberation through our online platform www.CitizensGreenDeal.eu to in-person processes such as an Assembly for a Gender-Just Green Deal and a pan-European Youth Climate Assembly.
REAL_DEAL will co-create a comprehensive protocol for meaningful citizens? participation and deliberation to work towards the objectives of the EGD. It will validate recommendations on how to design such processes and how they can be applied by European institutions, Member States and civil society alike. Gender equality will be embedded into the project?s DNA. It pays specific attention to the leave-no-one-behind principle, fostering the engagement of disenfranchised groups that are disproportionally burdened by environmental damage. REAL_DEAL will develop a new model of environmental citizenship across Europe.

Country	Applicant Legal Name	Type of organisation
BE	**EUROPEAN ENVIRONMENTAL BUREAU**	**OTH**
BE	CLIMATE ACTION NETWORK EUROPE ASBL	OTH
BE	MOUVEMENT EUROPEEN	PRC
BE	SOLIDAR	OTH
CZ	YOUTH AND ENVIRONMENT EUROPE	OTH
DE	WOMEN ENGAGE FOR A COMMON FUTURE EV	OTH
DE	DIALOGIK GEMEINNUETZIGE GESELLSCHAFT FUER KOMMUNIKATIONS- UND KOOPERATIONSFORSCHUNG mbH	REC
DE	GCF - GLOBAL CLIMATE FORUM EV	REC
DE	INSTITUTE FOR ADVANCED SUSTAINABILITY STUDIES EV	REC
DE	TECHNISCHE UNIVERSITAT BERLIN	HES
DK	FORENINGEN NYT EUROPA	OTH
FR	ASSOCIATION DES AGENCES DE LA DEMOCRATIE LOCALE	OTH
HU	KOZEP-EUROPAI EGYETEM	HES
IE	TRILATERAL RESEARCH LIMITED	PRC
IT	Alleanza Italiana per lo Sviluppo Sostenibile	PRC
NL	STICHTING WAGENINGEN RESEARCH	REC

LC-GD-10-1-2020 European capacities for citizen deliberation and participation for the Green Deal

PHOENIX

Total Cost: **4 975 448,75 €** Requested Grant: **4 975 448,75 €**

Title:
The rise of the citizen voices for a Green Europe

Abstract:
The EGD transition pathway is a major challenge for Europe, whose targets were elevated following the pandemic outbreak. Its ambitions require joint efforts to harmonise diverse contexts and visions of humans/nature?s relation. Citizens? engagement, as envisioned in the EU Democracy Action Plan, is a pre-condition for institutional policies and projects? success, as behavioural changes and transformations in large populations? lifestyles and expectations are vital for the EGD?s implementation. PHOENIX, anchored to the pictographic idea of a collective resurrection (stronger and more resilient) from the ashes of a shared tragedy, connects a multidisciplinary group of 15 partners from the different macro-regions of Europe. It builds on a rich, consolidated tradition of participatory processes and refined deliberative methodologies successfully experimented in different policy-making domains, considering they are necessary tools, but not sufficient ones, when it comes to facing the ambitious goals related to ecological transition patterns. Elaborating on their lesson learned, PHOENIX designs an iterative process to increase the transformative potential of Democratic Innovations to address specific topics of the EGD. Through a portfolio of sound methodologies and tools, we will enrich them, augmenting their quality of deliberation and the capacity to foster the readiness to change and the commitment of different actors. PHOENIX tailors and tests Enriched Democratic Innovations (EDIs) in 11 pilots in 7 countries, monitoring and carefully assessing the systemic approach?s capacity elaborated to adapt to a diverse range of socio-cultural and environmental contexts, and different administrative levels. Finally, it supports the mainstreaming, scalability and adaptability of the methodologies tested and assessed in the pilots, leveraging an inter-pilot dialogue grounded on evidence-based results, and building collectively a series of Policy Recommendations

Country Code	Applicant Legal Name	Type of organisation
PT	**CENTRO DE ESTUDOS SOCIAIS**	**REC**
BE	THE GOOD LOBBY, ASSOCIATION FOR THE PROMOTION OF CIVIC PARTICIPATION THROUGH ACADEMIC RESEARCH, DISSEMINATION, TRAINING AND CAMPAIGNING FOR THE PUBLIC INTEREST	PRC
EE	E-RIIGI AKADEEMIA SIHTASUTUS	OTH
ES	AGENCIA ESTATAL CONSEJO SUPERIOR DEINVESTIGACIONES CIENTIFICAS	REC
FR	Res publica	PRC
FR	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	REC
HU	SZEGEDI TUDOMANYEGYETEM	HES
IS	HASKOLI ISLANDS	HES
IT	FONDAZIONE GIANGIACOMO FELTRINELLI	REC
IT	UNIVERSITA DEGLI STUDI DI FIRENZE	HES
NL	RIJKSUNIVERSITEIT GRONINGEN	HES
PT	Associa??o Oficina de Planeamento e Participa??o	OTH
PT	ONE SOURCE CONSULTORIA INFORMATICA LDA	PRC
PT	UNIVERSIDADE DE COIMBRA	HES
UK	UNIVERSITY OF SOUTHAMPTON	HES

LC-GD-10-2-2020 Behavioural, social and cultural change for the Green Deal

ACCTING

Total Cost: **4 997 086,25 €** Requested Grant: **4 997 086,25 €**

Title:
AdvanCing behavioural Change Through an INclusive Green deal

Abstract:
ACCTING mobilizes research experimentation and innovation to advance an inclusive and socially just European Green Deal, where nobody is left behind. It specifically focuses on inequalities produced and reproduced in the context of Green Deal policy and interventions. The overall objectives are to:

- Understand the impact of Green Deal policy initiatives on individual and collective behaviours with specific attention to vulnerable groups.
- Provide evidence and empower policymakers and other stakeholders to anticipate policy responses, the potential negative impacts on inequalities, and to mitigate such impacts in Green Deal decision-making;
- Co-creatively design and implement pilot actions to be deployed by policymakers and stakeholders in the policy domains of the Green Deal with the ambition to reduce or prevent inequalities and promote participation and social justice.

Building on previous research initiatives, ACCTING proposes an interdisciplinary conceptual and methodological framework, inspired by strategic policy design-thinking. It collects new data on Green Deal policy interventions at individual, community, organisational and societal levels.
Starting with an extensive mapping and comparative analysis of bottom-up environmental initiatives in 34 countries, including the collection of 410 narratives followed by 41 experimental studies from eight research lines, results are fed into Open Studios to co-create innovative solutions. Results are used for further experimentation, including through pilot actions with mass implementation and high impact potential.
ACCTING combines activities devoted to experimental research and innovation, action research, co-creation of sustainable impact, robust impact evaluation and wide disseminations. It relies on its consortium of 12 European partners with an experience of 50+ EU funded projects, multidisciplinary teams, involving experts from multi-sectoral networks and stakeholders.

Country Code	Applicant Legal Name	Type of organisation
FR	**FONDATION EUROPEENNE DE LA SCIENCE**	**OTH**
AT	ZENTRUM FUR SOZIALE INNOVATION GMBH	REC
BE	YELLOW WINDOW	PRC
DE	ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)	OTH
DE	VEREIN DER EUROPAEISCHEN BURGERWISSENSCHAFTEN - ECSA E.V.	REC
GR	KENTRO EREVNON NOTIOANATOLIKIS EVROPIS ASTIKI MI KERDOSKOPIKI ETAIREIA	REC
IT	CONOSCENZA E INNOVAZIONE SOCIETA ARESPONSABILITA LIMITATA SEMPLIFICATA	PRC
NO	NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU	HES
PT	INSTITUTO DE GEOGRAFIA E ORDENAMENTO DO TERRITORIO DA UNIVERSIDADE DELISBOA	HES
RO	UNIVERSITATEA ALEXANDRU IOAN CUZA DIN IASI	HES
SE	OREBRO UNIVERSITY	HES
TR	SABANCI UNIVERSITESI	HES

LC-GD-10-2-2020 Behavioural, social and cultural change for the Green Deal

SHARED
GREEN DEAL

Total Cost: **4 996 098,75 €** Requested Grant: **4 996 098,75 €**

Title:
SHARED GREEN DEAL: Social sciences & Humanities for Achieving a Responsible, Equitable and Desirable GREEN DEAL

Abstract:
The Social sciences & Humanities for Achieving a Responsible, Equitable and Desirable GREEN DEAL (SHARED GREEN DEAL) proposal brings together 22 leading organisations from across the EU including 9 universities, 2 research institutions, 8 network organisations and 2 SMEs.
Our network partners cover core elements on the European Green Deal cross cutting priorities such as civil society, democracy, gender, energy, environment, circular economy and innovation. Our objectives directly address the call challenge with an aim to share actions, understandings, evidence, insights, responsibilities and benefits across stakeholders including policymakers and civil society. Issues of inclusivity and diversity are at the heart of the project to particularly account for disadvantaged and vulnerable social groups.
SHARED GREEN DEAL will meet its objectives through a set of 10 workpackages. It is structured around lessons from a set of 6 ?social experiments? around 6 priority Green Deal topics. Each social experiment will be delivered across 4 member states. Importantly we take a transdisciplinary approach, covering 19 social-science and humanities disciplines, with multi-stakeholder, practice-based and policy-science expertise, including gender studies as a key component throughout.
The output includes the development of tools (e.g. an online Green Deal policy tracker), as well as translating project findings into stakeholder-specific policy briefs and roundtable events.
The partners are committed to continuing to host the transnational network set up post-project to ensure longevity and impact beyond the life of the project. SHARED GREEN DEAL is expected to deliver changes in societal practices and in the behaviour of individuals, communities, and public and private organisations. Through the development of effective new strategies, we will address behavioural change and long-term commitment, trust, social acceptance and buy-in from people, communities and organisations.

Country Code	Applicant Legal Name	Type of organisation
UK	**ANGLIA RUSKIN UNIVERSITY HIGHER EDUCATION CORPORATION**	**HES**
AT	Fachhochschule K?rnten - gemeinn?tzige Privatstiftung	HES
AT	TECHNISCHE UNIVERSITAET WIEN	HES
BE	INSTITUTE FOR EUROPEAN ENVIRONMENTAL POLICY AISBL	OTH
CY	CEA Economic Alternative Services	PRC
CZ	CEE BANKWATCH NETWORK	OTH
DE	ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)	OTH
DE	WOMEN ENGAGE FOR A COMMON FUTURE EV	OTH
DE	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	REC
DK	AALBORG UNIVERSITET	HES
GR	MEDITERRANEAN INFORMATION OFFICE FOR ENVIRONMENT, CULTURE AND SUSTAINABLE DEVELOPMENT ASSOCIATION	OTH
ES	ACENTOLINE COMUNICACION EDITORA SL	PRC
FR	ASSOCIATION DES AGENCES DE LA DEMOCRATIE LOCALE	OTH
FR	ENERGY CITIES/ENERGIE-CITES ASSOCIATION	OTH
FR	ECOLE NATIONALE DES PONTS ET CHAUSSEES	HES
HU	VAROSKUTATAS (METROPOLITAN RESEARCHINSTITUTE) KFT	PRC
IE	NATIONAL UNIVERSITY OF IRELAND GALWAY	HES
NL	DUTCH RESEARCH INSTITUTE FOR TRANSITIONS BV	PRC
NL	Stichting Slow Food Youth Network	OTH
PT	INSTITUTO DE CIENCIAS SOCIAIS	HES
SI	ZNANSTVENORAZISKOVALNI CENTER SLOVENSKE AKADEMIJE ZNANOSTI IN UMETNOSTI	REC
UK	International Institute for Environment and Development	REC

LC-GD-10-3-2020 Enabling citizens to act on climate change and environmental protection through education, citizen science, observation initiatives, and civic involvement

CompAir

Total Cost: **5 336 160 €** Requested Grant: **4 686 189 €**

Title:
Community Observation Measurement & Participation in AIR Science

Abstract:
The COMPAIR innovation project is designed to bolster citizens' capacity to monitor, understand, and change their environmental impact, both at a behavioural and policy level. It unlocks the power of the wider public, including people from lower-socio economic groups, to provide broad granular data around a central theme of air quality, complementing and improving the quality of official datasets and making new information useful for helping to meet environmental aims.
The project will achieve its aim by empowering people using a Citizen Science Lab - with a special focus on women, young people, and hard-to-reach groups ? to provide the skills to co-design and undertake environmental scientific experiments around needs and challenges in their locality. By providing innovative, self-assembly, low-cost sensors, dynamic dashboards, and augmented reality tools for collecting, visualising and extracting actionable intelligence from data, anyone regardless of their background, can understand their impact on the environment and explore immediate actions to improve it. Beyond helping to mitigate bad environmental habits at an individual and community level, CS (Citizen Science) data will also be used to mutually enrich other public and private data sources in official city decision making platforms. Thereby helping to increase civic engagement and influence more effective long-term environmental policy.
Piloted in the Region of Flanders and the major cities of Athens, Berlin and Sofia, communities, businesses, researchers and public administrations will, for the first time, adopt and benefit from a technology-enabled, collective approach to evidence gathering that fills gaps in existing data sources, and provides new routes to innovation. COMPAIR will raise awareness of, and provide a CS Lab Toolkit, to ensure CS is a trusted approach to tackling complex, systemic and environmental problems that require different perspectives.

Country	Applicant Legal Name	Type of organisation
BE	**VLAAMSE GEWEST**	**PUB**
BE	IS-PRACTICE BVBA	PRC
BE	Telraam	PRC
BE	VLAAMSE MILIEUMAATSCHAPPIJ	PUB
BG	ASSOTSIATSIA ZA RAZVITIE NA SOFIA	OTH
BG	ENERGY AGENCY OF PLOVDIV ASSOCIATION	REC
DE	inter 3 GmbH Institut f?r Ressourcenmanagement	PRC
DE	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	REC
DE	VEREIN DER EUROPAEISCHEN BURGERWISSENSCHAFTEN - ECSA E.V.	REC
GR	ATHENS TECHNOLOGY CENTER ANONYMI BIOMICHANIKI EMPORIKI KAI TECHNIKI ETAIREIA EFARMOGON YPSILIS TECHNOLOGIAS	PRC
GR	DIMOS ATHINAION EPICHEIRISI MICHANOGRAFISIS	PRC
GR	PANEPISTIMIO AIGAIOU	HES
NL	SODAQ HOLDING BV	PRC
NL	STICHTING IMEC NEDERLAND	REC
UK	21C CONSULTANCY LIMITED	PRC

LC-GD-10-3-2020 Enabling citizens to act on climate change and environmental protection through education, citizen science, observation initiatives, and civic involvement

AURORA

Total Cost: **4 786 456,25 €** Requested Grant: **4 628 631,13 €**

Title:
Achieving a new European Energy Awareness.

Abstract:
Proposal submitted to the call ID LC-GD-10-3-2020. Subtopic 2. AURORA aims at an innovative long-term citizen engagement with energy sustainable behaviours empowering civil society to adopt a leading role in the energy cycle and to be real actors of a sustainable change via the promotion of citizen science practices. AURORA Energy Awareness rationale will be implemented as a demonstrator in 5 European countries. AURORA rationale is based on the upgrade of social communities -4 university communities and 1 rural deprived area- to new civic consortia -established as local energy communities- to act as Citizen Science hubs. There, on the one hand, citizens will crowdfund a local solar photovoltaic facility in an inclusive system enabling low-cost shares from 20EUR, and on the other hand, participants will monitor their individual energy mix demand behaviours, which together with their energy production in the facility, will generate accurate know-how on the carbon footprint related to their energy mix behaviour, which will be managed through the AURORA app. AURORA proposes a novel labelling system to help citizens to better understand their energy-related impacts. Later on, interventions to modify their energy behaviour towards a more climate-neutral impact while fostering energy-savings will imply the involvement of citizens in individual and collective actions, covering from civic innovation workshops to home-made low-cost sensors or community infrastructures fabrication, to environmental observation for creating civic local roadmaps. The final objective is to generate the first generations of Near Zero-Emission Citizens acting as ambassadors for sustainable energy behaviours. As a consequence of the activities performed by citizens, data collected AURORA will also be able to improve energy transition scenarios including citizens' behaviours and learning periods and generate reliable data on the impact of climate on energy infrastructures.

Country Code	Applicant Legal Name	Type of organisation
ES	**UNIVERSIDAD POLITECNICA DE MADRID**	**HES**
DE	Institute for Science & Innovation Communication (INSCICO) gGmbH	REC
DK	AARHUS UNIVERSITET	HES
ES	QUALIFYING PHOTOVOLTICS, SL	PRC
PT	UNIVERSIDADE DE EVORA	HES
SI	UNIVERZA V LJUBLJANI	HES
UK	CENTRE FOR SUSTAINABLE ENERGY	OTH
UK	Forest of Dean District Council	PUB
UK	KempleyGreen Consultants	PRC

LC-GD-10-3-2020 Enabling citizens to act on climate change and environmental protection through education, citizen science, observation initiatives, and civic involvement

SOCIO-BEE

Total Cost: **5 480 148,75 €** Requested Grant: **4 999 859,25 €**

Title:
Wearables and droneS fOr CIty Socio-Environmental Observations and BEhavioral ChangE

Abstract:
SOCIO-BEE proposes that community engagement and social innovation combined with Citizen Science (CS) through emerging technologies and playful interaction can bridge the gap between the capacity of communities to adopt more sustainable behaviours aligned with environmental policy objectives and between the citizen intentions and the real behaviour to act in favour of the environment (in this project, to reduce air pollution). Furthermore, community engagement can raise other citizens' awareness of climate change and their own responses to it, through experimentation, better monitoring, and observation of the environment. This idea is emphasised in this project through the metaphor of bees' behaviour (with queens, working and drone bees as main CS actors), interested stakeholders that aim at learning from results of CS evidence-based research (honey bears) and the Citizen Science hives as incubators of CS ideas and projects that will be tested in three different pilot sites (Ancona, Marousi and Ancona) and with different population: elderly people, everyday commuters and young adults, respectively. The SOCIO-BEE project ambitions the scalable activation of changes in citizens' behaviour in support of pro-environment action groups, local sponsors, voluntary sector and policies in cities. This process will be carried out through low-cost technological innovations (CS enablers within the SOCIO BEE platform), together with the creation of proper instruments for institutions (Whitebook and toolkits with recommendations) that will contribute to the replication, upscaling, massive adoption and to the duration of the SOCIO-BEE project. The solution sustainability and maximum outreach will be ensured by proposing a set of public-private partnerships schemes and innovative targeted communication means to streamline exploitation and accessibility to the project impacts.

Country	Applicant Legal Name	Type of organisation
GR	**HYPERTECH (CHAIPERTEK) ANONYMOS VIOMICHANIKI EMPORIKI ETAIREIA PLIROFORIKIS KAI NEON TECHNOLOGION**	**PRC**
BE	CENTRE D'ACCOMPAGNEMENT DE PROJETS INNOVANTS ASBL	OTH
BE	VRIJE UNIVERSITEIT BRUSSEL	HES
DE	VEREIN DER EUROPAEISCHEN BURGERWISSENSCHAFTEN - ECSA E.V.	REC
GR	MUNICIPALITY OF AMAROUSSION	PUB
GR	ARISTOTELIO PANEPISTIMIO THESSALONIKIS	HES
GR	ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	REC
ES	AYUNTAMIENTO DE ZARAGOZA	PUB
ES	BETTAIR CITIES SL	PRC
ES	HOP UBIQUITOUS SL	PRC
ES	FUNDACION IBERCIVIS	REC
ES	FUNDACION ZARAGOZA CIUDAD DE CONOCIMIENTO	REC
ES	UNIVERSIDAD DE LA IGLESIA DE DEUSTO ENTIDAD RELIGIOSA	HES
IT	COMUNE DI ANCONA	PUB
IT	UNIVERSITA DEGLI STUDI DI PADOVA	HES
IT	UNIVERSITA POLITECNICA DELLE MARCHE	HES
NL	STICHTING HOGESCHOOL VOOR DE KUNSTEN UTRECHT	HES
NO	NILU STIFTELSEN NORSK INSTITUTT FORLUFTFORSKNING	REC

LC-GD-10-3-2020 Enabling citizens to act on climate change and environmental protection through education, citizen science, observation initiatives, and civic involvement

ECF4CLIM

Total Cost: **5 383 347,5 €** Requested Grant: **4 896 710 €**

Title:
A EUROPEAN COMPETENCE FRAMEWORK FOR A LOW CARBON ECONOMY AND SUSTAINABILITY THROUGH EDUCATION

Abstract:
Through a multidisciplinary, transdisciplinary and participatory process, ECF4CLIM develops, tests and validates a European Competence Framework (ECF) for transformational change, which will empower the educational community to take action against climate change and towards sustainable development.
Applying a novel hybrid participatory approach, rooted in participatory action research and citizen science, ECF4CLIM co-designs the ECF in selected schools and universities, by: 1) elaborating an initial ECF, supported by crowdsourcing of ideas and analysis of existing ECFs; 2) establishing the baseline of individual and collective competences, as well as environmental performance indicators; 3) implementing practical, replicable and context-adapted technical, behavioural, and organisational interventions that foster the acquisition of competences; 4) evaluating the ability of the interventions to strengthen sustainability competences and environmental performance; and 5) validating the ECF.
The proposed ECF is unique in that it encompasses the interacting STEM-related, digital and social competences, and systematically explores individual, organisational and institutional factors that enable or constrain the desired change. The novel hybrid participatory approach provides the broad educational community with: an ECF adaptable to a range of settings; new ways of collaboration between public, private and third-sector bodies; and innovative organisational models of engagement and action for sustainability (Sustainability Competence Teams and Committees).
To encourage learning-by-doing, several novel tools will be co-designed with and made available to citizens, including a digital platform for crowdsourcing, IoT solutions for real-time monitoring of selected parameters, and a digital learning space. Participation of various SMEs in the consortium maximises the broad adoption and applicability of the ECF for the required transformational change towards sustainability.

Country	Applicant Legal Name	Type of organisation
ES	**CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT**	**REC**
GR	QUE TECHNOLOGIES KEFALAIOUCHIKI ETAIREIA	PRC
ES	UNIVERSIDAD AUTONOMA DE BARCELONA	HES
ES	UNIVERSIDAD DE SEVILLA	HES
FI	JYVASKYLAN YLIOPISTO	HES
HU	TREBAG SZELLEMI TULAJDON- ES PROJEKTMENEDZSER KORLATOLT FELELOSSEGU TARSASAG	PRC
PT	SMARTWATT - ENERGY SERVICES SA	PRC
PT	INSTITUTO DE SOLDADURA E QUALIDADE	REC
PT	INSTITUTO SUPERIOR TECNICO	HES
RO	SC MedaResearch SRL	PRC

LC-GD-10-3-2020 Enabling citizens to act on climate change and environmental protection through education, citizen science, observation initiatives, and civic involvement

I-CHANGE

Total Cost: **5 234 117,5 €** Requested Grant: **4 949 998 €**

Title:
Individual Change of HAbits Needed for Green European transition

Abstract:
Climate change phenomena represent the most serious threats to human well-being and sustainable development. This affects several dimensions of human life from individual health issues to economic growth, passing through civil protection, with strong impacts on European territories and in several other world regions. The I-CHANGE (Individual Change of HAbits Needed for Green European transition) project faces the challenge of engaging and promoting the active participation of citizens for addressing climate change, sustainable development and environmental protection in the framework of the European Green Deal , the European Climate Pact and the European Biodiversity Strategy for 2030. The overall driving concept is that citizens and civil society have a central role in the definition of environmental protection and climate action and their direct involvement is essential to drive a true shift and promotion of changes of behaviors towards more sustainable patterns. I-CHANGE represents a change of paradigm achievable through a multi-disciplinary and participatory approach: improvement of data usability - citizen awareness raises through the observation of the environmental impacts of human activities; active participation of citizens - the active involvement of citizens through a set of Living Labs (LLs) located in different socio-economic contexts; climate change awareness - the development of clear understanding for citizens of the scientific processes underlying climate change and environmental protections.

Country	Applicant Legal Name	Type of organisation
IT	**Centro Internazionale in Monitoraggio Ambientale - Fondazione CIMA**	**REC**
BE	DEN INSTITUTE	OTH
BE	UNIVERSITEIT HASSELT	HES
DE	CMF CLIMATE MEDIA FACTORY UG (HAFTUNGSBESCHRANKT) GMBH	PRC
DK	FONDEN TEKNOLOGIRADET	REC
ES	UNIVERSITAT DE BARCELONA	HES
FI	LUONNONVARAKESKUS	REC
GH	WEST AFRICAN SCIENCE SERVICES CENTRE ON CLIMATE CHANGE AND ADAPTED LAND USE	OTH
IE	UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN	HES
IL	TEL AVIV UNIVERSITY	HES
IT	TECHNE CONSULTING SRL	PRC
IT	ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA	HES
IT	CONSIGLIO NAZIONALE DELLE RICERCHE	REC
NL	WAGENINGEN UNIVERSITY	HES
SK	KAJO SRO	PRC
UK	EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS	REC

LC-GD-10-3-2020 Enabling citizens to act on climate change and environmental protection through education, citizen science, observation initiatives, and civic involvement

SCENT
(GreenSCENT)

Total Cost: **6 503 245 €** Requested Grant: **5 549 492,5 €**

Title:
Smart Citizen Education for a greeN fuTure

Abstract:
SCENT aims at developing a competence framework embracing all the Green Deal focus areas through an iterative, participated, experience and learning-by-doing based design approach. SCENT will develop the GreenComp framework using both experts and researchers inputs and advise, citizen participation and stakeholder engagement initiatives; then it will test the framework on the field, in different European regions, different educational levels (from primary schools to higher education), at different engagement levels (from observation to data collection and processing, to contribution to scientific and policy agenda). Pilots will implement a range of pedagogies (collaborative learning, debate, research-based learning, inquiry-based learning) and demonstrators, digital, physical and hybrid educational technologies designed for or integrated into the project from existing initiatives. SCENT legacy will consist of the Competence Framework (GreenComp), its Methodolog, Use Cases, User Guides; Training kits codesigned for implementing the framework; SCENTbox, the set of digital, physical and hybrid demonstrators developed by the project; and ECCEL, a European "driving license" for Climate and Environmental competences and skills, that will be tested during the project. SCENT activities will involve more than 100 experts including the External Advisor Board members, already supporting the project and coming from all European Regions; about 45 schools and universities across EU will implement the pilot, while the Open Innovation Challenges designed and implemented by IDEO will cover the entire European Union and impact on tens of thousands of citizens. A special attention will be devoted to promote and foster the adoption of the framework, through the several tools developed, involving stakeholders (educational institutions, policy and decision makers, HR and industries) in the exploitation strategy of the project.

Country	Applicant Legal Name	Type of organisation
IT	**UNIVERSITA TELEMATICA INTERNAZIONALE-UNINETTUNO**	**HES**
AT	ECQA GMBH	PRC
DE	IDEO GmbH	PRC
DE	MANFRED MUDELSEE	PRC
DK	FONDEN TEKNOLOGIRADET	REC
ES	4sfera Innova SLU	PRC
ES	INSTITUT EL SUI	PRC
ES	BARCELONA SUPERCOMPUTING CENTER - CENTRO NACIONAL DE SUPERCOMPUTACION	REC
ES	UNIVERSIDAD AUTONOMA DE BARCELONA	HES
FI	Maunulan yhteiskoulu ja Helsingin matematiikkalukio	PRC
FI	TEKNOLOGIAN TUTKIMUSKESKUS VTT OY	REC
IT	ENGINEERING - INGEGNERIA INFORMATICA SPA	PRC
RO	Fundatia School for Europe	PRC
RS	Racunarska gimnazija SMART Novi Sad	PRC
RS	University of Novi Sad Faculty of Sciences	HES

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PSLifestyle

Total Cost: **5 316 802,5 €** Requested Grant: **4 999 871,25 €**

Title:
Co-Creating Positive and Sustainable Lifestyle Tool with and for European Citizens

Abstract:
Through our consumption behaviour we, individuals, are responsible for 72 per cent of the global greenhouse gas emissions. These are created by the way we live, travel, and eat and by what we buy. So far, the attempts to change people's habits by appealing to their rationale have not produced significant behaviour change.
Aiming to help close the action gap between climate awareness and individual action, and to increase citizen participation in sustainability topics, the project builds a data-driven momentum for sustainable behaviour change across eight European countries. It does this by engaging citizens through a digital application to co-research, co-develop and uptake everyday life solutions for climate change, providing tools for the collection, monitoring and analysis of their environmental and consumption data.
In the application, the citizens find out how their lifestyle and habits impact the environment. They will also see a list of smart everyday actions that are relevant to reduce their environmental impact. The application enables citizens to actively create data while monitoring their lifestyle induced climate impact and behaviour. The collected data will be used to improve the application itself, and, importantly to empower citizens to gain agency in research and policy-making.
The ambition is to engage a total of four million EU citizens. The figure is based on the previous national success with a web-based carbon emission calculator, which is innovated further with the use of citizen science, by co-research at living labs, co-creating personalized sustainability plans, as well as with the integration of behaviour science knowledge into the co-research and design process.
The overarching goal of PSLifeStyle is to co-create a web- and mobile-based sustainable lifestyle tool and open platform, that will enable, empower and encourage European citizens to take their personalized steps towards more sustainable lifestyle

Country	Applicant Legal Name	Type of organisation
FI	**Suomen itsen?isyyden juhlarahasto**	**PUB**
BE	EUROHEALTHNET ASBL	REC
DE	ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)	OTH
DE	COLLABORATING CENTRE ON SUSTAINABLE CONSUMPTION AND PRODUCTION GGMBH	REC
DE	HOT OR COOL INSTITUTE	REC
EE	Let's Do It Foundation	OTH
EE	Sihtasutus Rohetiiger	OTH
GR	ENOSI KATANALOTON POIOTITA TIS ZOIS	OTH
GR	ATHINA-EREVNITIKO KENTRO KAINOTOMIAS STIS TECHNOLOGIES TIS PLIROFORIAS, TON EPIKOINONION KAI TIS GNOSIS	REC
FI	SOLITA OY	PRC
IT	GREENAPES SRL	PRC
IT	Fondazione Per Lo Sviluppo Sostenibile	REC
PT	DECO -ASSOCIACAO PORTUGUESA PARA ADEFESA DO CONSUMIDOR	OTH
SI	CIRCULAR CHANGE, INSTITUT ZA KROZNO GOSPODARSTVO	OTH
SI	MUNICIPALITY OF LJUBLJANA	PUB
TR	Zeytince Ekolojik Yasami Destekleme Dernegi	OTH