

THE MEDITERRANEAN INITIATIVE I

in Horizon Europe work programme
2023-2024



The Mediterranean Initiative I in Horizon Europe Work Programme

European Commission
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in Horizon Europe work programme 2023-2024

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1. POLICY BACKGROUND




The Mediterranean Initiative, that started with **Horizon Europe work programme 2023-2024**, was launched following the first Union for the Mediterranean (UfM) Ministerial Declaration on R&I in June 2022. It embodies the European Union's commitment to fostering robust collaborative relationships with Southern Mediterranean countries. This initiative is grounded in principles of co-creation, co-ownership, and shared benefits, addressing mutual interests and challenges.

Horizon Europe opens its doors to researchers and innovators worldwide, encouraging partnerships with EU universities and research organisations. Within this context, the Mediterranean Initiative stands out as a focused effort to channel resources and expertise toward joint needs. Its strategic pillars are outlined in the R&I Roadmaps, defined at the UfM R&I Ministerial Meeting on 27 June 2022. These roadmaps focus on three core priorities: **Health, Climate Change, and Renewable Energy**.

With around 37 topics and a budget of approximately **€320 million dedicated to this initiative**, it provides a robust platform for advancing research and innovation in areas of mutual interest, such as developing innovative and integrated renewable energy technologies, minimising the climate impact on fisheries and aquaculture, improving the reliability of alternative water resources, and reducing plastic packaging pollution from the food system. Each of these topics is designed to encourage active participation from Mediterranean entities and to foster collaborative research efforts that lead to viable and impactful solutions.

As an outcome of the first edition of the Mediterranean Initiative 18 projects involve participation from at least one country from the Mediterranean region. The countries represented in these collaborative efforts include **Albania, Algeria, Bosnia and Herzegovina, Egypt, Israel, Jordan, Lebanon, Mauritania, Monaco, Montenegro, Morocco, Palestine, Tunisia, and Türkiye**.

The purpose of this booklet is to clearly and effectively communicate key information about the projects under the Mediterranean Initiative I.

Priority Area	Number of projects	EU contribution (€)
Health 	2	€ 156 892 877,99
Climate Change 	12	€ 62 663 887,31
Renewable Energy 	4	€ 25 089 677,00
Total EU Contribution to projects with at least one mediterranean country involved		€ 244 646 442,30

2. OVERVIEW OF INDIVIDUAL PROJECTS

2.1. HEALTH

2.1.1. European Partnership on Personalised Medicine (HORIZON-HLTH-2023-CARE-08-01)

2.1.1.1. *European Partnership for Personalised Medicine*

A. GENERAL PROJECT INFORMATION

TITLE		European Partnership for Personalised Medicine
ACRONYM		EP PerMed
GRANT AGREEMENT		101137129
DOI		https://doi.org/10.3030/101137129
EU CONTRIBUTION		€ 100 575 465,38
DURATION		120 months
START DATE		1 November 2023
END DATE		31 October 2033
STATUS		<i>On-going</i>
PROGRAMME		HORIZON EUROPE
TOPIC		HORIZON-HLTH-2023-CARE-08-01 - European Partnership on Personalised Medicine
CALL PROPOSAL	OF	HORIZON-HLTH-2023-CARE-08
KEYWORDS		Research Innovation Implementation Transnational Value chain

B. CONSORTIA

Project Coordinator:

DEUTSCHES ZENTRUM FÜR LUFT - UND RAUMFAHRT EV., Germany

Participants:

- AGENCE NATIONALE DE LA RECHERCHE, France
- VLAAMSE GEWEST, Belgium
- INSTITUTO ARAGONES DE CIENCIAS DE LA SALUD, Spain
- FONDAZIONE TOSCANA LIFE SCIENCES, Italy
- NORGES FORSKNINGSRAD, Norway
- MINISTERO DELLA SALUTE, Italy
- INSTITUTO DE SALUD CARLOS III, Spain
- TAIGHDE EIREANN RESEARCH IRELAND, Ireland

- SAECHSISCHES STAATSMINISTERIUM FÜR WISSENSCHAFT, KULTUR UND TOURISMUS, Germany
- FONDAZIONE TELETHON ETS, Italy
- FONDAZIONE REGIONALE PER LA RICERCA BIOMEDICA, Italy
- FONDS ZUR FÖRDERUNG DER WISSENSCHAFTLICHEN FORSCHUNG, Austria
- THE HEALTH RESEARCH BOARD, Ireland
- Lietuvos mokslo taryba, Lithuania
- **MINISTRY OF HEALTH, Israel**
- SIHTASUTUS EESTI TEADUSAGENTUUR, Estonia
- **TÜRKIYE BİLİMSEL VE TEKNOLOJİK ARASTIRMA KURUMU, Türkiye**
- EIT HEALTH EV, Germany
- EIT HEALTH SCANDINAVIAN CLC, Sweden
- VERENIGING EIT HEALTH BELGIE-NEDERLAND, Netherlands
- VERKET FOR INNOVATIONSSYSTEM, Sweden
- NARODOWE CENTRUM BADAN I ROZWOJU, Poland
- AICIB - AGENCIA DE INVESTIGACAO CLINICA E INOVACAO BIOMEDICA, Portugal
- FUNDACAO PARA A CIENCIA E A TECNOLOGIA, Portugal
- ZORGONDERZOEK NEDERLAND ZON, Netherlands
- FONDS NATIONAL DE LA RECHERCHE, Luxembourg
- REGIONE TOSCANA, Italy
- SERVICE PUBLIC DE WALLONIE, Belgium
- FONDS DE LA RECHERCHE SCIENTIFIQUE- FNRS, Belgium
- DEPARTAMENT DE SALUT - GENERALITAT DE CATALUNYA, Spain
- COMUNIDAD FORAL DE NAVARRA - GOBIERNO DE NAVARRA, Spain
- SOTSIAALMINISTEERIUM, Estonia
- FONDS VOOR WETENSCHAPPELIJK ONDERZOEK-VLAANDEREN, Belgium
- INNOVAATIO RAHOITUSKESKUS BUSINESS FINLAND, Finland
- VETENSKAPSRÅDET - SWEDISH RESEARCH COUNCIL, Sweden
- BUSINESS FINLAND OY, Finland
- SUOMEN AKATEMIA, Finland
- BIOBANKS AND BIOMOLECULAR RESOURCES RESEARCH INFRASTRUCTURE CONSORTIUM (BBMRI-ERIC), Austria
- INNOVATIONSFONDEN, Denmark
- NEMZETI KUTATASI FEJLESZTESI ES INNOVACIOS HIVATAL, Hungary
- LATVIJAS ZINATNES PADOME, Latvia
- VICE-PRESIDENCIA DO GOVERNO REGIONAL DOS AÇORES, Portugal
- COMISSAO DE COORDENACAO E DESENVOLVIMENTO REGIONAL DO CENTRO, Portugal
- RANNSOKNAMIDSTOD ISLANDS, Iceland
- MINISTERO DELL'UNIVERSITA E DELLA RICERCA, Italy
- DEPARTAMENTO DE SALUD GOBIERNO VASCO, Spain
- FUNDACION VASCA DE INNOVACION E INVESTIGACION SANITARIAS, Spain
- UNITATEA EXECUTIVA PENTRU FINANȚAREA ÎNVĂȚĂMÂNTULUI SUPERIOR A CERCETĂRII DEZVOLTĂRII ȘI ÎNNOVĂRII, Romania
- BUNDESMINISTERIUM FÜR GESUNDHEIT, Germany
- BUNDESMINISTERIUM FÜR FORSCHUNG, TECHNOLOGIE UND RAUMFAHRT, Germany
- BUNDESMINISTERIUM FÜR BILDUNG, Austria
- FONDS INNOVEREN EN ONDERNEMEN, Belgium
- GENIKI GRAMMATIA EREVNAS KAI KAINOTOMIAS, Greece

- AGENTURA PRO ZDRAVOTNICKY VYZKUM CESKE REPUBLIKY AZV CR, Czechia
- FUNDACION PUBLICA ANDALUZA PROGRESO Y SALUD M.P., Spain
- CONSEJERIA DE SALUD Y CONSUMO DE LA JUNTA DE ANDALUCIA, Spain
- MINISTERSTVO ZDRAVOTNICTVI CESKE REPUBLIKY, Czechia

Partners:

- SCHWEIZERISCHE AGENTUR FUR INNOVATIONSFORDERUNG, Switzerland

C. DESCRIPTION

Accelerating personalised medicine research, innovation and implementation

Within the evolving landscape of healthcare, an opportunity for citizens and society lies in the integration of personalised medicine (PM) approaches into sustainable health systems. However, several gaps still hinder the development and implementation of PM. In this context, the EU-funded EP PerMed project aims to advance PM-related research and innovation and expedite PM integration into healthcare systems. The initiative addresses the crucial need to foster collaboration and translate PM innovations into benefits for individuals and society alike. Emphasising patient involvement, collaboration along the 'value continuum' (integrating research, innovation and implementation) and international engagement, EP PerMed supports project portfolios, enabling the transformation of their achievements into successful healthcare innovations.

2.1.2. European Partnership on Rare Diseases (HORIZON-HLTH-2023-DISEASE-07-01)

2.1.2.1. *European Rare Diseases Research Alliance*

A. GENERAL PROJECT INFORMATION

TITLE		European Rare Diseases Research Alliance
ACRONYM		ERDERA
GRANT AGREEMENT		101156595
DOI		https://doi.org/10.3030/101156595
EU CONTRIBUTION		€ 56 317 412,61
DURATION		84 months
START DATE		1 September 2024
END DATE		31 August 2031
STATUS		<i>On-going</i>
PROGRAMME		HORIZON EUROPE
TOPIC		HORIZON-HLTH-2023-DISEASE-07-01 - European Partnership on Rare Diseases
CALL PROPOSAL	OF	HORIZON-HLTH-2023-DISEASE-07
KEYWORDS		translational research diagnostics therapy development ATMPs data education patients empowerment public-private collaboration federated analysis regulatory compliance clinical trials

B. CONSORTIA

Project Coordinator:

INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, France

Participants:

- Collecteur Analyseur de Données, France
- TEAMIT RESEARCH SL, Spain
- DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV, Germany
- AGENCE NATIONALE DE LA RECHERCHE, France
- FONDAZIONE TELETHON ETS, Italy
- Lietuvos mokslo taryba, Lithuania
- ZORGONDERZOEK NEDERLAND ZON, Netherlands
- EBERHARD KARLS UNIVERSITAET TUEBINGEN, Germany
- TARTU ULIKOOL, Estonia
- CONSORCIO PARA LA EXPLOTACION DEL CENTRO NACIONAL DE ANALISIS GENOMICO, Spain
- STICHTING RADBOUD UNIVERSITAIR MEDISCH CENTRUM, Netherlands

- TECHNISCHE UNIVERSITAET MUENCHEN, Germany
- UNIVERSITATSKLINIKUM HEIDELBERG, Germany
- CRITICAL PATH INSTITUTE STICHTING, Netherlands
- FUNDACIO HOSPITAL UNIVERSITARI VALL D'HEBRON - INSTITUT DE RECERCA, Spain
- ACADEMISCH ZIEKENHUIS LEIDEN, Netherlands
- UNIVERSITEIT TWENTE, Netherlands
- UNIVERSIDAD POLITECNICA DE MADRID, Spain
- ACADEMISCH ZIEKENHUIS GRONINGEN, Netherlands
- STICHTING AMSTERDAM UMC, Netherlands
- UNIVERSITEIT MAASTRICHT, Netherlands
- EATRIS ERIC, Netherlands
- FONDAZIONE PER LA RICERCA FARMACOLOGICA GIANNI BENZI ONLUS, Italy
- ASSISTANCE PUBLIQUE HOPITAUX DE PARIS, France
- UNIVERSITEIT HASSELT, Belgium
- EURORDIS - RARE DISEASES EUROPE, France
- VIESOJI ISTAIGA VILNIAUS UNIVERSITETO LIGONINE SANTAROS KLINIKOS, Lithuania
- UNIVERSIDADE DE COIMBRA, Portugal
- FONDATION MALADIES RARES, France
- ASS FRANCAISE CONTRE LES MYOPATHIES, France
- BERNU KLINISKA UNIVERSITATES SLIMNICA VALSTS SIA, Latvia
- AICIB - AGENCIA DE INVESTIGACAO CLINICA E INOVACAO BIOMEDICA, Portugal
- INSTITUT ZA MOLEKULARNU GENETIKU I GENETICKO INZENJERSTVO, Serbia
- RARE DISEASES INTERNATIONAL, France
- **ACIBADEM MEHMET ALI AYDINLAR UNIVERSITY, Türkiye**
- AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH, Austria
- UNIVERSITE D'AIX MARSEILLE, France
- AZIENDA OSPEDALIERA UNIVERSITARIA MEYER IRCCS, Italy
- AZIENDA SANITARIA UNIVERSITARIA FRIULI CENTRALE, Italy
- **BAR ILAN UNIVERSITY, Israel**
- BUNDESMINISTERIUM FÜR FORSCHUNG, TECHNOLOGIE UND RAUMFAHRT, Germany
- ST. ANNA KINDERKREBSFORSCHUNG GMBH, Austria
- CENTOGENE GMBH, Germany
- CHARITE - UNIVERSITAETSMEDIZIN BERLIN, Germany
- CHECKIMMUNE GMBH, Germany
- CENTRE HOSPITALIER REG UNIVERSITAIRE DIJON, France
- COPENHAGEN ECONOMICS AS, Denmark
- REGION Hovedstaden, Denmark
- **MINISTRY OF HEALTH, Israel**
- CONSORZIO PER VALUTAZIONI BIOLOGICHE E FARMACOLOGICHE, Italy
- STICHTING DUCHENNE DATA FOUNDATION, Netherlands
- ELSEVIER BV, Netherlands
- ERASMUS UNIVERSITAIR MEDISCH CENTRUM ROTTERDAM, Netherlands
- FONDS DE LA RECHERCHE SCIENTIFIQUE- FNRS, Belgium
- FRAUNHOFER GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG EV, Germany
- FONDAZIONE REGIONALE PER LA RICERCA BIOMEDICA, Italy
- ECRIN EUROPEAN CLINICAL RESEARCH INFRASTRUCTURE NETWORK, France

- FONDS ZUR FÖRDERUNG DER WISSENSCHAFTLICHEN FORSCHUNG, Austria
- INNOVATIONSFONDEN, Denmark
- FUNDACIO PRIVADA PER A LA RECERCA I LA DOCENCIA SANT JOAN DE DEU, Spain
- FUNDACAO PARA A CIENCIA E A TECNOLOGIA, Portugal
- MINISTERSTVO ZDRAVOTNICTVI CESKE REPUBLIKY, Czechia
- AGENTURA PRO ZDRAVOTNICKY VYZKUM CESKE REPUBLIKY AZV CR, Czechia
- ASSOCIATION GENETHON, France
- GEORGIAN FOUNDATION FOR GENETIC AND RARE DISEASES, Georgia
- REGION STOCKHOLM, Sweden
- JOHANN WOLFGANG GOETHE-UNIVERSITAET FRANKFURT AM MAIN, Germany
- THE HEALTH RESEARCH BOARD, Ireland
- **IZMIR BIYOTIP VE GENOM MERKEZI, Türkiye**
- RANNSOKNAMIDSTOD ISLANDS, Iceland
- IMAGINE INSTITUT DES MALADIES GENETIQUES NECKER ENFANTS MALADES FOUNDATION, France
- INSTYTUT GENETYKI CZLOWIEKA POLSKIEJ AKADEMII NAUK, Poland
- INSTITUTO DE SALUD CARLOS III, Spain
- INSTITUTO NACIONAL DE SAUDE DR. RICARDO JORGE, Portugal
- ISTITUTO ORTOPEDICO RIZZOLI, Italy
- ISTITUTO SUPERIORE DI SANITA, Italy
- MINISTERO DELLA SALUTE, Italy
- KATHOLIEKE UNIVERSITEIT LEUVEN, Belgium
- LATVIJAS ZINATNES PADOME, Latvia
- MAPI RESEARCH TRUST, France
- MEDICAL UNIVERSITY SOFIA, Bulgaria
- FAKULTNI NEMOCNICE V MOTOLE, Czechia
- MINISTERO DELL'UNIVERSITA E DELLA RICERCA, Italy
- NARODOWE CENTRUM BADAN I ROZWOJU, Poland
- ETHNIKO KAI KAPODISTIRIAKO PANEPISTIMIO ATHINON, Greece
- MINISTERSTVO ZDRAVOTNICTVA SLOVENSKEJ REPUBLIKY, Slovakia
- ENOSI SPANION ASTHENON ELLADOS, Greece
- REGION SYDDANMARK, Denmark
- OSPEDALE PEDIATRICO BAMBINO GESU, Italy
- OSPEDALE SAN RAFFAELE SRL, Italy
- INSTITUT JOZEF STEFAN, Slovenia
- NORGES FORSKNINGSRAD, Norway
- FONDS VOOR WETENSCHAPPELIJK ONDERZOEK-VLAANDEREN, Belgium
- RIGAS AUSTRUMU KLINISKA UNIVERSITATES SLIMNICA SIA, Latvia
- IDRYMA EREVNAS KAI KAINOTOMIAS, Cyprus
- ROYAL COLLEGE OF SURGEONS IN IRELAND, Ireland
- RIGAS STRADINA UNIVERSITATE, Latvia
- SCIENSANO, Belgium
- SERVICE PUBLIC DE WALLONIE, Belgium
- SIGMUND FREUD PRIVATUNIVERSITAT WIEN GMBH, Austria
- SIHTASUTUS EESTI TEADUSAGENTUUR, Estonia
- SLOVENSKA AKADEMIA VIED, Slovakia
- SONIO, France
- SOTSIAALMINISTEERIUM, Estonia
- VETENSKAPSRADET - SWEDISH RESEARCH COUNCIL, Sweden

- TEDDY - EUROPEAN NETWORK OF EXCELLENCE FOR PAEDIATRIC CLINICAL RESEARCH, Italy
- TEKKARE, France
- THALASSAEMIA INTERNATIONAL FEDERATION, Cyprus
- **TÜRKİYE BİLİMSEL VE TEKNOLOJİK ARASTIRMA KURUMU, Türkiye**
- REGIONE TOSCANA, Italy
- UNIVERSITAT AUTONOMA DE BARCELONA, Spain
- UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN, Ireland
- UNIVERSITA CATTOLICA DEL SACRO CUORE, Italy
- ITA-SUOMEN YLIOPISTO, Finland
- UNIVERSITAETSKLINIKUM AACHEN, Germany
- UNIVERSITAETSKLINIKUM FREIBURG, Germany
- UNIVERSITA DEGLI STUDI DELLA CAMPANIA LUIGI VANVITELLI, Italy
- PANEPISTIMIO KRITIS, Greece
- UNIVERSITEIT GENT, Belgium
- UNIVERZITETNI KLINICNI CENTER LJUBLJANA, Slovenia
- STICHTING WORLD DUCHENNE ORGANIZATION, Netherlands
- UPPSALA UNIVERSITET, Sweden
- CONECT4CHILDREN STICHTING, Netherlands
- **UNIVERSITE CADI AYYAD, Morocco**
- CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS, France
- CONSORCIO CENTRO DE INVESTIGACION BIOMEDICA EN RED M.P., Spain
- UNITATEA EXECUTIVA PENTRU FINANTAREA INVATAMANTULUI SUPERIOR A CERCETARII DEZVOLTARII SI INOVARII, Romania
- UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA, Italy
- UNIVERSITEIT ANTWERPEN, Belgium
- BULGARIAN NATIONAL SCIENCE FUND, Bulgaria
- REGION NORDJYLLAND (NORTH DENMARK REGION), Denmark
- REDKI BOLESTI BULGARIA, Bulgaria
- BIOBANKS AND BIOMOLECULAR RESOURCES RESEARCH INFRASTRUCTURE CONSORTIUM (BBMRI-ERIC), Austria
- AARHUS UNIVERSITETSHOSPITAL, Denmark
- ASSOCIATION INTERNATIONALE DE STANDARDISATION BIOLOGIQUE POUR L'EUROPE(IABS-EU), France
- HEALTH RESEARCH CHARITIES IRELAND COMPANY LIMITED BY GUARANTEE, Ireland
- LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN, Germany
- KLINIKUM DER LUDWIG-MAXIMILIANS-UNIVERSITAT MUNCHEN, Germany
- MYSCIENCEWORK, France
- FONDS NATIONAL DE LA RECHERCHE, Luxembourg
- NEMZETI KUTATASI FEJLESZTESI ES INNOVACIOS HIVATAL, Hungary
- BUNDESINSTITUT FÜR IMPFSTOFFE UND BIOMEDIZINISCHE ARZNEIMITTEL, Germany
- PARIS-LODRON-UNIVERSITAT SALZBURG, Austria
- SORBONNE UNIVERSITE, France
- UNIVERSITA DEGLI STUDI DI SIENA, Italy
- VERKET FOR INNOVATIONSSYSTEM, Sweden
- FUNDACIO CENTRE DE REGULACIO GENOMICA, Spain
- REGION SKANE, Sweden

- VIB VZW, Belgium
- INSTITUT DE PATHOLOGIE ET DE GENETIQUE ASBL, Belgium
- UNIVERSITY OF OTAGO, New Zealand
- HOSPITAL SANT JOAN DE DEU, Spain

Partners:

- ASTRAZENECA AB, Sweden
- CHILDREN'S HOSPITAL OF EASTERN ONTARIO RESEARCH INSTITUTE INC, Canada
- CANADIAN INSTITUTES OF HEALTH RESEARCH, Canada
- DEUTSCHE FORSCHUNGSGEMEINSCHAFT EV, Germany
- FUJIFILM DIOSYNTH BIOTECHNOLOGIES UK LIMITED, United Kingdom
- FONDS DE RECHERCHE DU QUEBEC – SANTE, Canada
- HIPRA HUMAN HEALTH SL, Spain
- LABORATORIOS HIPRA SA, Spain
- MICYRN, Canada
- MILTENYI BIOTEC BV & CO KG, Germany
- PFIZER INC, United States
- DEPARTMENT OF HEALTH GOVERNMENT OF WESTERN AUSTRALIA, Australia
- REITHERA SRL, Italy
- LABORATORIO REIG JOFRE SA, Spain
- F. HOFFMANN-LA ROCHE AG, Switzerland
- SCHWEIZERISCHER NATIONALFONDS ZUR FORDERUNG DER WISSENSCHAFTLICHEN FORSCHUNG, Switzerland
- UCB BIOPHARMA, Belgium
- FRAUNHOFER UK RESEARCH LIMITED, United Kingdom
- GENETIC ALLIANCE UK LTD, United Kingdom
- UNIVERSITY OF NEWCASTLE UPON TYNE, United Kingdom
- Cambridge University Hospitals NHS Foundation Trust, United Kingdom
- UNIVERSITY OF LEICESTER, United Kingdom
- THE QUEEN'S UNIVERSITY OF BELFAST, United Kingdom
- UNIVERSITY COLLEGE LONDON, United Kingdom
- THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE, United Kingdom

C. DESCRIPTION

Transforming rare disease research in Europe

Across Europe, 30 million people suffer from rare diseases, facing challenges in prevention, diagnosis, and treatment due to fragmented research efforts. To address this, the European Rare Diseases Research Alliance (ERDERA) seeks to make Europe a leader in rare disease research and innovation. ERDERA aims to create a robust ecosystem that prioritises patient needs by enhancing diagnostic methods, integrating digital transformations, and fostering public-private partnerships. This initiative includes a dedicated Clinical Research Network to expedite clinical trials and improve patient care. By aligning strategies across countries and harnessing comprehensive support services, ERDERA is set to accelerate the journey from research to impactful health solutions for rare disease patients throughout Europe.

2.2. CLIMATE CHANGE

2.2.1. Innovations to prevent and combat desertification (HORIZON-MISS-2023-SOIL-01-04)

2.2.1.1. *Terrestrial Resilience and Restoration Strategies for (semi) Arid and Fragile Ecosystems through a multi-actor approach*

A. GENERAL PROJECT INFORMATION

TITLE	Terrestrial Resilience and Restoration Strategies for (semi) Arid and Fragile Ecosystems through a multi-actor approach		
ACRONYM	TERRASAFE		
GRANT AGREEMENT	101157373		
DOI	https://doi.org/10.3030/101157373		
EU CONTRIBUTION	€ 6 132 886,65		
DURATION	60 months		
START DATE	1 June 2024		
END DATE	31 May 2029		
STATUS	On-going		
PROGRAMME	HORIZON EUROPE		
TOPIC	HORIZON-MISS-2023-SOIL-01-04 - Innovations to prevent and combat desertification		
CALL OF PROPOSAL	HORIZON-MISS-2023-SOIL-01		
KEYWORDS	multi-actor approach local communities desertification resilience depopulation dryland degradation innovations policies recommendations		

B. CONSORTIA

Project Coordinator:

UNIVERSIDADE DE AVEIRO, Portugal

Participants:

- WAGENINGEN UNIVERSITY, Netherlands
- NIBIO - NORSK INSTITUTT FOR BIOØKONOMI, Norway
- UNIVERSITA DEGLI STUDI DELLA BASILICATA, Italy
- THE CYPRUS INSTITUTE, Cyprus
- INSTITUTE FOR EUROPEAN ENVIRONMENTAL POLICY, Belgium
- AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS, Spain
- AKTI KENTRO MELETON KE EREVNAS, Cyprus

- **INSTITUT DES REGIONS ARIDES, Tunisia**
- INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE IN SILVICULTURA MARIN DRACEA, Romania
- FONDAZIONE MEDES, Italy
- ISOTECH LTD, Cyprus
- IO-DIT AB, Sweden
- AGROBIOGEL GMBH, Austria
- IBERO MASSA FLORESTAL, S.A., Portugal
- EDAFOTEC SOLUCIONES BASADAS EN LA NATURALEZA SL, Spain

Partners:

- UNIVERSITY OF YORK, United Kingdom
- UNIVERSITY OF GLOUCESTERSHIRE, United Kingdom

C. DESCRIPTION

Empowering local communities to combat desertification

Large areas in Southern, Central and Eastern Europe and Northern Africa are estimated to be facing (very) high risks of desertification, including due to accelerating climate change. Innovative nature-based, social and technological solutions will be crucial for local communities to be resilient to current and future risk levels. The EU-funded TERRASAFE project will develop an interdisciplinary approach that aims to empower desertification-prone communities to identify, evaluate and promote widespread adoption of such innovative solutions. This approach will be co-created with five 'desertification innovation partnerships', in which project partners will closely collaborate with local communities to tailor the approach to local social-ecological circumstances. The five communities were selected for representing the main desertification types across Europe and Northern Africa.

2.2.1.2. **MONitoring and Assessing prevention and restoration soLutions to combat deSertificAtion**

A. GENERAL PROJECT INFORMATION

TITLE	MONitoring and Assessing prevention and restoration soLutions to combat deSertificAtion
ACRONYM	MONALISA
GRANT AGREEMENT	101157867
DOI	https://doi.org/10.3030/101157867
EU CONTRIBUTION	€ 6 991 831,25
DURATION	48 months
START DATE	1 September 2024
END DATE	31 August 2028
STATUS	<i>On-going</i>
PROGRAMME	HORIZON EUROPE
TOPIC	HORIZON-MISS-2023-SOIL-01-04 - Innovations to prevent and combat desertification
CALL OF PROPOSAL	HORIZON-MISS-2023-SOIL-01
KEYWORDS	LDD risk methodological framework Med drylands tailored and multi-modular Decision Support System microbial-based solutions organic fertilization innovative grazing systems treated wastewater

B. CONSORTIA

Project Coordinator:

UNIVERSITA DEGLI STUDI DI SASSARI, Italy

Participants:

- UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA, Italy
- PANEPISTIMIO KRITIS, Greece
- CENTRO DE INVESTIGACION ECOLOGICA Y APLICACIONES FORESTALES, Spain
- HELLENIC SOCIETY FOR THE PROTECTION OF NATURE, Greece
- ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS, Greece
- ISTITUTO SUPERIORE PER LA PROTEZIONE E LA RICERCA AMBIENTALE, Italy
- CONSIGLIO NAZIONALE DELLE RICERCHE, Italy
- INSTITUT DES REGIONS ARIDES, Tunisia
- COMMISSARIAT REGIONAL AU DEVELOPPEMENT AGRICOLE DE MEDENINE, Tunisia
- CENTRE INTERNATIONAL DE HAUTES ETUDES AGRONOMIQUES MEDITERRANEENNES, France

- AGRICOLUS AGRITECH SPAIN SL, Spain
- FONDAZIONE MEDES, Italy
- WE WORLD-GVC ORGANIZZAZIONE NON LUCRATIVA DI UTILITA' SOCIALE, Italy
- AARHUS UNIVERSITET, Denmark
- ASOCIACION ADROCHES PARA EL DESARROLLO RURAL DE LA COMARCA DE LOS PEDROCHES, Spain
- UNIVERSITATEA DIN BUCURESTI, Romania
- INOSENS DOO NOVI SAD, Serbia
- COOPERATIVA PRODUTTORI ARBOREA - SOCIETA AGRICOLA, Italy
- ENTE PARCO NAZIONALE ALTA MURGIA, Italy
- RESEAU POUR LA RECHERCHE INTERNATIONALE SUR LA DESERTIFICATION, France

Partners:

- UNIVERSITAT BASEL, Switzerland
- UNIVERSITE DE GENEVE, Switzerland

C. DESCRIPTION

The main goal of MONALISA is to identify and promote the expansion of innovative and tailored solutions to prevent and reverse land degradation and desertification (LDD) while showcasing their socio-economic and environmental effectiveness. MONALISA will put in place a transdisciplinary approach to integrate scientific and local knowledge, emerging from newly and established social learning spaces with multi-sector stakeholders and multi-disciplinary and interdisciplinary researchers. Work will be carried out in six Mediterranean case studies (CS), encompassing different levels of aridity across five countries (European: Italy, Spain and Greece; and non-European: Tunisia and Palestine). In the CS, the following solutions to prevent and restore LDD will be assessed and scaled-out: (i) innovative grazing systems (e.g. adaptive multi-paddock grazing systems); (ii) microbial-based solutions (e.g. biofertilizers and symbiotic N-fixing rhizobia); (iii) conservation agriculture practices (e.g. cover crops and reduced tillage); (iv) ecological restoration practices (e.g. harvesting and seeding of residual plant materials in protected grasslands, green infrastructures); (v) water harvesting techniques; (vi) treated wastewater reuse in agriculture. One of the main outputs of MONALISA will be a multi-modular practice-oriented Decision Support System, composed of several web-based applications, that will leverage innovative data and technologies, including from remote sensing and Artificial Intelligence. MONALISA will focus on new business opportunities with (and not only for) stakeholders, taking into account cost-benefit and market analysis and the promotion of public and private investments. The main goal will be the promotion and adoption of sustainable and environmentally-friendly solutions for LDD while contributing to support the economic growth of European and Mediterranean drylands.

2.2.2. Mission Ocean and Waters and Mission A Soil Deal for Europe – Joint demonstration of approaches and solutions to address nutrient pollution in the landscape-river-sea system in the Mediterranean Sea basin (HORIZON-MISS-2023-OCEAN-SOIL-01-01)

2.2.2.1. Demonstrating innovative pathways addressing water and soil pollution in the Mediterranean Agro-Hydro-System

A. GENERAL PROJECT INFORMATION

TITLE	Demonstrating innovative pathways addressing water and soil pollution in the Mediterranean Agro-Hydro-System
ACRONYM	Path4Med
GRANT AGREEMENT	101156867
DOI	https://doi.org/10.3030/101156867
EU CONTRIBUTION	€ 8 059 322,75
DURATION	48 months
START DATE	1 July 2024
END DATE	30 June 2028
STATUS	<i>On-going</i>
PROGRAMME	HORIZON EUROPE
TOPIC	HORIZON-MISS-2023-OCEAN-SOIL-01-01 - Mission Ocean and Waters and Mission A Soil Deal for Europe – Joint demonstration of approaches and solutions to address nutrient pollution in the landscape-river-sea system in the Mediterranean sea basin
CALL PROPOSAL	OF HORIZON-MISS-2023-OCEAN-SOIL-01
KEYWORDS	soil and water pollution excess nutrients monitoring technologies Earth Observation Biobased indicators agricultural management technologies Common Agricultural Policy

B. CONSORTIA

Project Coordinator:

GEOPONIKO PANEPISTIMION ATHINON, Greece

Participants:

- NIBIO - NORSK INSTITUTT FOR BIOØKONOMI, Norway
- AARHUS UNIVERSITET, Denmark
- INSTYTUT RYBACTWA SRODLADOWEGO IM STANISTAWA SAKOWICZA, Poland
- EXTRA RED SRL, Italy
- INSTITUTO POLITECNICO DE VISEU, Portugal

- ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON, Greece
- EXEO LAB S.R.L., Italy
- UNIVERSITAT BAYREUTH, Germany
- INSTITUTO SUPERIOR DE AGRONOMIA, Portugal
- HELLENIC CENTRE FOR MARINE RESEARCH, Greece
- WAGENINGEN UNIVERSITY, Netherlands
- UNIVERSIDAD PUBLICA DE NAVARRA, Spain
- BIOEAST HUB CR, Z. U., Czechia
- NEUROPUBLIC AE PLIROFORIKIS & EPIKOINONION, Greece
- NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE, Ukraine
- UNIVERSIDADE DO ALGARVE, Portugal
- **UNIVERSITY OF CUKUROVA, Türkiye**
- AGROTECH INNOVATIONS LTD, Cyprus
- **PEOPLE IN FOCUS, Albania**
- YPOURGEIO GEORGAS, AGROTIKIS ANAPTYXIS KAI PERIVALLONTOS, Cyprus
- FUNDACION PARA LA INVESTIGACION DEL CLIMA, Spain
- REFRAME FOOD ASTIKI MI KerdoskopiKI Etairia, Greece
- CENTRE INTERNATIONAL DE HAUTES ETUDES AGRONOMIQUES MEDITERRANEENNES, France
- GAL PERCORSI SRL, Italy

Partners:

- AGRICIRCLE AG, Switzerland

C. DESCRIPTION

Sustainable agriculture solutions to tackle Mediterranean nutrient pollution

Water and soil nutrient pollution in the Mediterranean basin poses a grave threat to both ecosystems and human health. Intensive agricultural practices, coupled with inadequate waste management, have led to severe pollution of vital resources. This endangers biodiversity, disrupts food chains, and compromises the quality of drinking water. Addressing this crisis requires innovative and sustainable solutions. The EU-funded Path4Med project aims to tackle these issues by focusing on creating pathways to improve soil health and eliminate water and soil pollution through advanced agricultural management and new monitoring technologies. Path4Med will implement solutions at large-scale demonstration sites and use a digital platform for data exchange and public engagement. Ultimately, the project seeks to ensure a sustainable future for the Mediterranean Sea.

2.2.3. Bio-based solutions for humanitarian applications (HORIZON-CL6-2023-CircBio-01-6)

2.2.3.1. Identifying bio-based solutions for waste management applicable to humanitarian sector

A. GENERAL PROJECT INFORMATION

TITLE	Identifying bio-based solutions for waste management applicable to humanitarian sector
ACRONYM	Bio4HUMAN
GRANT AGREEMENT	101135144
DOI	https://doi.org/10.3030/101135144
EU CONTRIBUTION	€ 1 509 809,06
DURATION	48 months
START DATE	1 January 2024
END DATE	30 June 2026
STATUS	<i>On-going</i>
PROGRAMME	HORIZON EUROPE
TOPIC	HORIZON-CL6-2023-CircBio-01-6 - Bio-based solutions for humanitarian applications
CALL OF PROPOSAL	HORIZON-CL6-2023-CircBio-01
KEYWORDS	Bioproducts solid waste management circular economy

B. CONSORTIA

Project Coordinator:
ENSPIRE SCIENCE LTD, Israel

Participants:

- INSTITUTO TECNOLOGICO DEL EMBALAJE, TRANSPORTE Y LOGISTICA, Spain
- UNIVERSIDAD DE CANTABRIA, Spain
- FUNDACJA EDUKACJI I DIALOGU SPOLECZNEGO PRO CIVIS, PolandCLOVEK V TISNI OPS, Czechia
- WELOOP, France
- IRISH BIOECONOMY FOUNDATION, Ireland
- POLSKA AKCJA HUMANITARNA FUNDACJA, Poland
- AIMPLAS - ASOCIACION DE INVESTIGACION DE MATERIALES PLASTICOS Y CONEXAS, Spain
- BIOEAST HUB CR, Z. U., Czechia

C. DESCRIPTION

As the solid waste management crisis is growing in its urgency, humanitarian aid practitioners are faced with the question of how to manage environmental challenges linked with aid that is being shipped across various humanitarian settings. One of the sound solutions how to address this challenge is to open up a streamline of cooperation between humanitarian aid operators and the bio-based sector allowing them to explore the application potential of bio-based products, systems, and innovative technological solutions. Bio4HUMAN aims to contribute to the identification of bio-based solutions for solid waste management that have the potential to be applicable in various humanitarian settings. To achieve this goal, Bio4HUMAN will conduct a scoping exercise that will come up with a list of solutions but also identify existing supply chain gaps. Following that, it performs life cycle assessments of the proposed solutions and evaluates their applicability with regard to socio-economic and governance aspects. To explore if solutions fit the purpose of key solid waste management stakeholders and to explore the possibility of their acceptance by the community, local businesses, and local authorities, Bio4HUMAN conducts a feasibility evaluation process in 2 African locations. Simultaneously, the project will develop a replication roadmap that will contribute to the future replicability of the solutions identified. Altogether, all of the Bio4HUMANs actions will help to improve ways of addressing waste management challenges under humanitarian contexts and to the reduction of waste littered in the environment. In the long run, Bio4HUMAN is expected to contribute to the development of innovative and sustainable value chains that will benefit consumers and citizens in Europe and beyond.

2.2.4. Fostering resilient European food systems in a changing world (HORIZON-CL6-2023-FARM2FORK-01-15)

2.2.4.1. *An Integrated Approach to Enhance Food Systems Resilience, Advocating For Food Security And Uninterrupted Food Supply*

A. GENERAL PROJECT INFORMATION

TITLE	AN INTEGRATED APPROACH TO ENHANCE FOOD SYSTEMS RESILIENCE, ADVOCATING FOR FOOD SECURITY AND UNINTERRUPTED FOOD SUPPLY
ACRONYM	SecureFood
GRANT AGREEMENT	101136583
DOI	https://doi.org/10.3030/101136583
EU CONTRIBUTION	€ 7 999 093,75
DURATION	42 months
START DATE	1 January 2024
END DATE	30 June 2027
STATUS	<i>On-going</i>
PROGRAMME	HORIZON EUROPE
TOPIC	HORIZON-CL6-2023-FARM2FORK-01-15 - Fostering resilient European food systems in a changing world
CALL OF PROPOSAL	HORIZON-CL6-2023-FARM2FORK-01
KEYWORDS	- -

B. CONSORTIA

Project Coordinator:
EUROPEAN DYNAMICS LUXEMBOURG SA, Luxembourg

Participants:

- EUROPEAN DYNAMICS ADVANCED INFORMATION TECHNOLOGY AND TELECOMMUNICATION SYSTEMS SA, Greece
- ERGASTIRIA GALANAKIS E E, Greece
- FUNDACION ZARAGOZA LOGISTICS CENTER, Spain
- EMPRACTIS E.E. SYMVOULOI MICHANIKOI, Greece
- DNV BUSINESS ASSURANCE ITALY SRL, Italy
- IRIS TECHNOLOGY SOLUTIONS, SOCIEDAD LIMITADA, Spain
- LEIBNIZ-INSTITUT FUER AGRARENTWICKLUNG IN TRANSFORMATIONSOEKONOMIEN (IAMO), Germany

- EREVNITIKO PANEPISTIMIAKO INSTITOUTO SYSTIMATON EPIKOINONION KAI YPOLOGISTON, Greece
- LAUREA-AMMATTIKORKEAKOULU OY, Finland
- EXUS SOFTWARE MONOPROSOPHI ETAIRIA PERIORISMENIS EVTHINIS, Greece
- INNOV-ACTS LIMITED, Cyprus
- CARR COMMUNICATIONS LIMITED, Ireland
- COSMOSHIP MARITIME LIMITED, Cyprus
- NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE, Ukraine
- MINISTRY OF AGRARIAN POLICY AND FOOD OF UKRAINE, Ukraine
- ALL-UKRAINIAN PUBLIC ORGANISATION UKRAINIAN AGRARIAN CONFEDERATION, Ukraine
- ASSOCIATION UKRAINIAN AGRIBUSINESSCLUB, Ukraine
- ELLINIKOS GEORGIKOS ORGANISMOS – DIMITRA, Greece
- LUONNONVARAKESKUS, Finland
- ENOSI KATANALOTON POIOTITA TIS ZOIS, Greece
- ROUSSAS ANONYMI ETAIREIA, Greece
- SPREAD EUROPEAN SAFETY AND SUSTAINABILITY GEIE, Italy
- ASSOCIATION NATIONALE DES INDUSTRIES ALIMENTAIRES, France
- SYNDESMOS ELLINIKON VIOICHANION TROFIMON SOMATEIO, Greece
- LEBENSMITTELVERSUCHSANSTALT, Austria
- GOSPODARSKA ZBORNICA SLOVENIJE, Slovenia
- FEDERACAO DAS INDUSTRIAS PORTUGUESAS AGRO-ALIMENTARES, Portugal
- POTRAVINARSKA KOMORA CESKE REPUBLIKY, Czechia
- FEDERAZIONE ITALIANA DELL INDUSTRIAALIMENTARE ASSOCIAZIONE, Italy
- FEDERACION ESPANOLA DE INDUSTRIAS DE LA ALIMENTACION Y BEBIDAS, Spain
- **TURKIYE SUT ET GIDA SANAYICILERI VEURETICILERI BIRLIGI DERNEGI, Türkiye**
- BUILDING INTEGRATED GREENHOUSES, Belgium
- MC SHARED SERVICES SA, Portugal
- MODELO CONTINENTE HIPERMERCADOS S.A., Portugal
- ELAFINA ANONYMI ETAIREIA, Greece

C. DESCRIPTION

Taking a bite out of food insecurity

Rising global food insecurity is a significant threat, exacerbated by complex challenges in the intricate web of food systems. Climatic change, political landscape (like the current upheaval in Ukraine's grain value chain), the market economy, technical and technological opportunities, demographic trends (including migration) and consumer behaviour (including attitudes towards food waste) underscore the urgency of innovative solutions. In this context, the EU-funded SecureFood project proposes an integrated, systems-thinking approach, aiming to create a resilient ecosystem through scientific knowledge, collaborative processes and cutting-edge digital tools. The cornerstone is the Food Systems Resilience Management Framework, coupled with a collaborative Resilience Governance Framework. By creating a digital toolkit, SecureFood strives to offer evidence-based insights into safeguarding food security.

2.2.5. Support for the implementation of a sustainable platform for the EU-African Union cooperation under the Food and Nutrition Security and Sustainable Agriculture (FNSSA) partnership (HORIZON-CL6-2023-FARM2FORK-01-18)

2.2.5.1. Consortium Europe-Africa for Research and Innovation on Food Systems Transformation

A. GENERAL PROJECT INFORMATION

TITLE	Consortium Europe-Africa for Research and Innovation on Food Systems Transformation
ACRONYM	CEA-FIRST
GRANT AGREEMENT	101136771
DOI	https://doi.org/10.3030/101136771
EU CONTRIBUTION	€ 3 319 038,22
DURATION	48 months
START DATE	1 December 2023
END DATE	30 November 2027
STATUS	<i>On-going</i>
PROGRAMME	HORIZON EUROPE
TOPIC	HORIZON-CL6-2023-FARM2FORK-01-18 - Support for the implementation of a sustainable platform for the EU-African Union cooperation under the Food and Nutrition Security and Sustainable Agriculture (FNSSA) partnership
CALL PROPOSAL	OF HORIZON-CL6-2023-FARM2FORK-01
KEYWORDS	Choice mobile men implementation

B. CONSORTIA

Project Coordinator:

FORUM FOR AGRICULTURAL RESEARCH IN AFRICA, Ghana

Participants:

- CENTRE DE COOPERATION INTERNATIONALE EN RECHERCHE AGRONOMIQUE POUR LEDEVELOPPEMENT - C.I.R.A.D. EPIC, France
- EUROPEAN ALLIANCE ON AGRICULTURALKNOWLEDGE FOR DEVELOPMENT, Belgium
- STICHTING WAGENINGEN RESEARCH, Netherlands

- AGRICULTURAL RESEARCH COUNCIL INSTITUTE FOR SOIL CLIMATE AND WATER, South Africa
- SVERIGES LANTBRUKSUNIVERSITET, Sweden
- HELSINGIN YLIOPISTO, Finland
- FOOD AGRICULTURE AND NATURAL RESOURCES POLICY ANALYSIS NETWORK, South Africa
- REGIONAL UNIVERSITIES FORUM FOR CAPACITY BUILDING IN AGRICULTURE, Uganda
- THE REGISTERED TRUSTEES OF THE ASSOCIATION FOR STRENGTHENING AGRICULTURAL RESEARCH IN EASTERN AND CENTRAL AFRICA, Uganda
- COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Ghana
- NATIONAL RESEARCH FOUNDATION, South Africa
- FONDS NATIONAL DE LA RECHERCHE ET DE L'INNOVATION POUR LE DEVELOPPEMENT, Burkina Faso
- CONF. RESPONS. RECHER. AGRONOM.AFRIQ. DE L'OUEST & DU CENTRE, Senegal
- YOUNG PROFESSIONALS FOR AGRICULTURAL DEVELOPMENT (YPARD) EV, Germany
- COMITE DE LIAISON ENTREPRENEURIAT-AGRICULTURE-DEVELOPPEMENT, France
- AFRICAN FORUM FOR AGRICULTURAL ADVISORY SERVICES, Uganda
- CENTRO INTERNAZIONALE DI ALTISTUDI AGRONOMICI MEDITERRANEI, Italy
- **SCIENCE, TECHNOLOGY & INNOVATION FUNDING AUTHORITY, Egypt**
- AGRICORD, Belgium

Partners:

- ASSOCIATION OF COMMONWEALTH UNIVERSITIES, United Kingdom

C. DESCRIPTION

Addressing global food systems and food security challenges

Global food security faces unprecedented challenges. With fragmented research efforts hindering progress, the need for a cohesive strategy is paramount. In this context, the EU-funded CEA-FIRST project aims to bring together 21 partners from Africa and Europe in a Consortium Europe Africa on Research and Innovation for Food Systems Transformation alliance. It aims to operationalise the International Research Consortium (IRC). Aligned with the Food and Nutrition Security and Sustainable Agriculture (FNSSA) Roadmap of the AU-EU High-Level Policy Dialogue, the project focuses on reducing research fragmentation. It will provide public access to a large knowledge platform, analyse research and innovation activities and establish working groups in line with the long-term IRC strategy and operational plan and the updated FNSSA Roadmap (2027-2036).

2.2.6. Support to the markets and trade of agroecological food products under the Food and Nutrition Security and Sustainable Agriculture (FNSSA) partnership (HORIZON-CL6-2023-FARM2FORK-01-19)

2.2.6.1. *Eco-Innovative Technologies for Improved Nutrition, Sustainable Production and Marketing of Agroecological Food Products in Africa.*

A. GENERAL PROJECT INFORMATION

TITLE	ECO-INNOVATIVE TECHNOLOGIES FOR IMPROVED NUTRITION, SUSTAINABLE PRODUCTION AND MARKETING OF AGROECOLOGICAL FOOD PRODUCTS IN AFRICA
ACRONYM	INNOECOFOOD
GRANT AGREEMENT	101136739
DOI	https://doi.org/10.3030/101136739
EU CONTRIBUTION	€ 6 750 129,38
DURATION	36 months
START DATE	1 January 2024
END DATE	31 December 2026
STATUS	<i>On-going</i>
PROGRAMME	HORIZON EUROPE
TOPIC	HORIZON-CL6-2023-FARM2FORK-01-19 - Support to the markets and trade of agroecological food products under the Food and Nutrition Security and Sustainable Agriculture (FNSSA) partnership
CALL PROPOSAL OF	HORIZON-CL6-2023-FARM2FORK-01
KEYWORDS	Food security eco farms catfish tilapia spirulina Insects circular economy socio-economic agro sub-products artificial intelligence digital quality environmental certification living labs

B. CONSORTIA

Project Coordinator:

CENTRO INTERDISCIPLINAR DE INVESTIGACAO MARINHA E AMBIENTAL, Portugal

Participants:

- KENYA MARINE AND FISHERIES RESEARCH INSTITUTE, Kenya
- TANZANIA FISHERIES RESEARCH INSTITUTE, Tanzania
- MAKERERE UNIVERSITY, Uganda
- COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Ghana
- UNIVERSITY OF NAMIBIA, Namibia
- **THE AGRICULTURAL RESEARCH CENTER, Egypt**

- UNIVERSITY OF DAR ES SALAAM, Tanzania
- JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, Kenya
- **BURDUR MEHMET AKIF ERSOY UNIVERSITESI, Türkiye**
- **DENİZLİ VALİLİĞİ, Türkiye**
- THE INTERNATIONAL CENTRE OF INSECT PHYSIOLOGY AND ECOLOGY, Kenya
- B2E ASSOCIACAO PARA A BIOECONOMIA AZUL - LABORATORIO COLABORATIVO, Portugal
- SPARKY SOCIAL ENTERPRISE LIMITED, Uganda
- FOOD SECURITY FOR PEACE AND NUTRITION AFRICA, Kenya
- INNOTECH INGENIEURSGESELLSCHAFT MBH, Germany
- FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV, Germany
- FACULDADE DE MEDICINA VETERINARIA, Portugal
- MAYFAIR HOLDINGS LTD, Kenya

Partners:

- NK SUSTAINABLE BIOPRODUCTS LTD, United Kingdom
- JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION, Belgium

C. DESCRIPTION

Fostering sustainable aquaculture in Africa

Across Africa, traditional aquaculture struggles amidst climate challenges and resource limitations. Insufficient access to technology and training perpetuates inefficiencies, hindering growth and food security. In this context, the EU-funded INNOECOFOOD project aims to transform aquaculture in six African countries by establishing innovative ECOHUBs and Living Labs powered by AI and IoT technologies. Using renewable energy and innovative processes, the project fosters a farm-to-fork approach. With 21 partners spanning Europe and Africa, INNOECOFOOD promotes climate-smart practices and circular systems. Its goals include scoping aquaculture practices, optimising production and processing with technology, and validating quality and safety standards. By training thousands and fostering sustainable ecosystems, the project aims to reshape the future of African aquaculture.

2.2.7. EU-Africa Union – food safety (HORIZON-CL6-2023-FARM2FORK-01-20)

2.2.7.1. Food Safety for Africa

A. GENERAL PROJECT INFORMATION

TITLE	Food Safety for Africa
ACRONYM	FS4Africa
GRANT AGREEMENT	101136916
DOI	https://doi.org/10.3030/101136916
EU CONTRIBUTION	€ 4 984 995,00
DURATION	48 months
START DATE	1 January 2024
END DATE	31 December 2027
STATUS	<i>On-going</i>
PROGRAMME	HORIZON EUROPE
TOPIC	HORIZON-CL6-2023-FARM2FORK-01-20 - EU-Africa Union – food safety
CALL OF PROPOSAL	HORIZON-CL6-2023-FARM2FORK-01
KEYWORDS	Policy traceability authentication one health mycotoxin pesticide residues

B. CONSORTIA

Project Coordinator:

INTERNATIONAL INSTITUTE OF TROPICAL AGRICULTURE, Nigeria

Participants:

- STICHTING WAGENINGEN RESEARCH, Netherlands
- ITC - INOVACIJSKO TEHNOLOSKI GROZD MURSKA SOBOTA, Slovenia
- COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Ghana
- REFRAME FOOD ASTIKI MI KERGOSKOPIKI ETAIRIA, Greece
- UBUNTOO BV, Netherlands
- FOOD SYSTEMS TRANSFORMATION SOLUTIONS (PTY) LTD, South Africa
- UNIVERSITY OF PRETORIA, South Africa
- WAGENINGEN UNIVERSITY, Netherlands

- **KNOWLEDGE ECONOMY FOUNDATION FOR SOCIETY DEVELOPMENT, Egypt**
- **AFRICAN UNION DEVELOPMENT AGENCY - NEW PARTNERSHIP FOR AFRICA'S DEVELOPMENT, South Africa**
- **EGERTON UNIVERSITY, Kenya**
- **AGLOBE DEVELOPMENT CENTER, Nigeria**
- **UNIVERSITAET DER BUNDESWEHR MUENCHEN, Germany**
- **BAYER AKTIENGESELLSCHAFT, Germany**

Partners:

- **ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING MCGILL UNIVERSITY, Canada**

C. DESCRIPTION

Food safety for Africa

Across Africa, food safety challenges remain unsolved largely due to weak value chain organisation, inadequate traceability, and authentication mechanisms. For instance, mycotoxin contamination plagues various food crops. Also, pesticide residues and microbial contamination, notably *Escherichia coli*, pose significant health risks. Food adulteration further exacerbates these issues, threatening both public health and regional trade. In this context, the EU-funded FS4Africa project aims to revolutionise food safety systems, particularly in the informal sector, through policy development, capacity building, and innovative technology implementation. Led by a consortium of experts from Africa and Europe, the project utilises interdisciplinary approaches to safeguard human, animal, and environmental health while promoting sustainable development.

2.2.8. Strategies to prevent and reduce plastic packaging pollution from the food system (HORIZON-CL6-2023-ZEROPOLLUTION-01-7)

2.2.8.1. Conquering New Strategies to Prevent and Reduce Packaging Pollution

A. GENERAL PROJECT INFORMATION

TITLE		CONQUERING NEW STRATEGIES TO PREVENT AND REDUCE PACKAGING POLLUTION
ACRONYM		MAGNO
GRANT AGREEMENT		101135258
DOI		https://doi.org/10.3030/101135258
EU CONTRIBUTION		€ 3 999 963,75
DURATION		42 months
START DATE		1 January 2024
END DATE		30 June 2027
STATUS		<i>On-going</i>
PROGRAMME		HORIZON EUROPE
TOPIC		HORIZON-CL6-2023-ZEROPOLLUTION-01-7 - Strategies to prevent and reduce plastic packaging pollution from the food system
CALL PROPOSAL	OF	HORIZON-CL6-2023-ZEROPOLLUTION-01
KEYWORDS		Ecosystem Digital twin Consumer acceptance Waste management bio-plastics health Environment protection

B. CONSORTIA

Project Coordinator:

IDENER RESEARCH & DEVELOPMENT AGRUPACION DE INTERES ECONOMICO, Spain

Participants:

- HOLOSS - HOLISTIC AND ONTOLOGICALSOLUTIONS FOR SUSTAINABILITY, LDA., Portugal
- FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV, Germany
- ASOCIACION EMPRESARIAL DE INVESTIGACION CENTRO TECNOLÓGICO DEL CALZADOY DEL PLÁSTICO DE LA REGION DE MURCIA, Spain
- DNV BUSINESS ASSURANCE ITALY SRL, Italy
- SENIOR EUROPA SOCIEDAD LIMITADA, Spain

- EUROPEAN PLASTICS CONVERTERS EUPC AISBL, Belgium
- POLYMER COMPLY EUROPE, Belgium
- IRIS TECHNOLOGY SOLUTIONS, SOCIEDAD LIMITADA, Spain
- **UNIVERSITY OF BALAMAND, Lebanon**
- **Institut National des Sciences et Technologies de la Mer, Tunisia**
- **University of Sousse, Tunisia**

C. DESCRIPTION

Ecosystem digital twin software reducing food packaging pollution

Europe is moving steadily towards a circular economy, more respectful of consumers and ecosystems. The EU-funded MAGNO project aims to improve the sustainability and efficiency of food packaging, promote directions for new policies and increase social innovation. The project will examine plastic packaging value chains and create an ecosystem digital twin to provide innovative and circular business strategies drawing a map of different scenarios ahead. MAGNO will use a multi-actor approach by involving researchers, food business operators, packaging producers, developers, converters, recyclers, consumers and local authorities to prevent and reduce plastic packaging pollution in Europe and the Mediterranean Sea. The project will support decision-making around food packaging, contributing to the European Green Deal and EU 2030 Climate Target Plan objectives.

2.2.9. EU-African Union cooperation on agroforestry management for climate change adaptation and mitigation (HORIZON-CL6-2024-FARM2FORK-01-10)

2.2.9.1. *Novel WEFE Nexus-based approaches towards agroforestry management in the Greater North African Region*

A. GENERAL PROJECT INFORMATION

TITLE	Novel WEFE Nexus-based approaches towards agroforestry management in the Greater North African Region
ACRONYM	TRANS-SAHARA
GRANT AGREEMENT	101182176
DOI	https://doi.org/10.3030/101182176
EU CONTRIBUTION	€ 5 489 475,00
DURATION	36 months
START DATE	1 November 2024
END DATE	31 October 2027
STATUS	<i>On-going</i>
PROGRAMME	HORIZON EUROPE
TOPIC	HORIZON-CL6-2024-FARM2FORK-01-10 - EU-African Union cooperation on agroforestry management for climate change adaptation and mitigation
CALL PROPOSAL OF	HORIZON-CL6-2024-FARM2FORK-01
KEYWORDS	Water-Energy-Food-Ecosystems (WEFE) Nexus climate change mitigation and adaptation synergies climate resilience water security Africa socio-economic innovation participatory co-creation process

B. CONSORTIA

Project Coordinator:
TECHNISCHE UNIVERSITAET MUENCHEN, Germany

Participants:

- ZABALA BRUSSELS, Belgium
- ZABALA INNOVATION CONSULTING SA, Spain
- ACCADEMIA EUROPEA DI BOLZANO, Italy
- KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY KUMASI, Ghana

- WEST AFRICAN SCIENCE SERVICES CENTRE ON CLIMATE CHANGE AND ADAPTED LAND USE, Ghana
- **UNIVERSITE PANAFRICAINNE INSTITUT DES SCIENCES DE L'EAU ET DE L'ENERGIE, Algeria**
- UNIVERSITE CHEIKH ANTA DIOP, Senegal
- INSTITUT POLYTECHNIQUE RURAL DE FORMATION ET DE RECHERCHE APPLIQUEE, Mali
- INTERNATIONAL CENTRE FOR RESEARCH IN AGROFORESTRY (ICRAF), Kenya
- **INSTITUT NATIONAL DE RECHERCHES EN GENIE RURAL, EAUX ET FORETS, Tunisia**
- AGENCE SENEGALAISE DE LA REFORESTATION ET DE LA GRANDE MURAILLE VERTE, Senegal
- AGENCE NATIONAL DE LA GRANDE MURAILLE VERTE, Chad
- **UNIVERSITE DE TUNIS EL MANAR, Tunisia**
- ENVIRONMENT EUROPE FOUNDATION STICHTING, Netherlands
- MINISTERE DE L'ENVIRONNEMENT ET DU DEVELOPPEMENT DURABLE, Djibouti

Partners:

- National University Corporation Wakayama University, Japan
- NATIONAL UNIVERSITY CORPORATION TOTTORI UNIVERSITY, Japan
- Tokyo University of Agriculture, Japan
- UNITED NATIONS UNIVERSITY, Japan
- BAYERISCHES STAATSMINISTERIUM FÜR UMWELT UND VERBRAUCHERSCHUTZ, Germany
- SECRETARIAT OF THE UNITED NATIONS CONVENTION TO COMBAT DESERTIFICATION, Germany

C. DESCRIPTION

Building climate resilience through WEFE Nexus-based agroforestry systems in Africa

Climate change impacts are negatively affecting water, energy and food security in Africa. The EU-funded TRANS-SAHARA project will use agroforestry systems to build climate change resilience of vulnerable African communities. It will apply the Water-Energy-Food-Ecosystems (WEFE) Nexus approach to augment water security through community co-designed interventions. The project will introduce innovations including advanced measurement tools, assessments of environmental and socio-economic impacts, nature-based strategies for sustainable resource use and new business models to support livelihoods of local communities long-term. Large-scale pilot demonstrations in Ethiopia, Ghana and Tunisia will test these approaches. The outcomes are expected to improve agroforestry data availability, increase crop yields and farmers' incomes, create new carbon sinks through regenerated ecosystems and facilitate a policy dialogue on climate mitigation.

2.2.10. EU-African Union – towards climate-neutral, social just fair trade food systems (HORIZON-CL6-2024-FARM2FORK-01-11)

2.2.10.1. Sustainable Trade Regimes with Europe and Africa through Mapping Innovation, New-technology and Growth-mindset

A. GENERAL PROJECT INFORMATION

TITLE	Sustainable Trade Regimes with Europe and Africa through Mapping Innovation, New-technology and Growth-mindset				
ACRONYM	STREAMING				
GRANT AGREEMENT	101182256				
DOI	https://doi.org/10.3030/101182256				
EU CONTRIBUTION	€ 4 427 461,25				
DURATION	42 months				
START DATE	1 February 2025				
END DATE	31 July 2028				
STATUS	On-going				
PROGRAMME	HORIZON EUROPE				
TOPIC	HORIZON-CL6-2024-FARM2FORK-01-11 - EU-African Union – towards climate-neutral, social just fair trade food systems				
CALL PROPOSAL	OF	HORIZON-CL6-2024-FARM2FORK-01			
KEYWORDS	Innovation Innovation hubs Capacity building startups women empowerment				

B. CONSORTIA

Project Coordinator:

HOCHSCHULE WEIHENSTEPHAN-TRIESDORF, Germany

Participants:

- WAGENINGEN UNIVERSITY, Netherlands
- UNIWERSYTET ROLNICZY IM. HUGONA KOLLATAJA W KRAKOWIE, Poland
- **UNIVERSITE DE GABES, Tunisia**
- UNIVERSITE DU SINE SALOUM EL-HADJ IBRAHIMA NIASS (USSEIN), Senegal
- UNIVERSITE DE KARA, Togo
- JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY, Kenya
- ARSI UNIVERSITY, Ethiopia
- UNIVERSITY OF THE FREE STATE, South Africa

- VRIJE UNIVERSITEIT BRUSSEL, Belgium
- WESTERN BALKANS INSTITUTE, Serbia
- BAYERISCHE FORSCHUNGSSALLIANZ BAVARIAN RESEARCH ALLIANCE GMBH, Germany
- BUNDESVERBAND IT-MITTELSTAND EV, Germany
- RWANDA ICT CHAMBER, Rwanda
- GS1 GERMANY GMBH, Germany

C. DESCRIPTION

Empowering Africa's youth through sustainable food systems

With Africa's population booming, youth unemployment remains a critical challenge, driven by a lack of opportunities in the formal sector. Most young people slip into the informal economy, which often provides precarious, low-quality jobs. Addressing this issue, the EU-funded STREAMING project seeks to develop fair, healthy and sustainable food systems across the continent. By connecting research with practical application, STREAMING promotes innovation and entrepreneurship among diverse groups, including women, researchers and farmers. Through networking platforms, hubs and training programmes, the project aims to bridge academia and industry, fostering sustainable practices in African food trade. Additionally, STREAMING focuses on policy recommendations to enhance resilience against climate change and improve trade relations between Africa and Europe.

2.3. RENEWABLE ENERGIES

2.3.1. Technologies for sustainable, cost-efficient and low carbon footprint downstream processing & production of battery-grade materials (Batt4EU Partnership) (HORIZON-CL5-2023-D2-01-01)

2.3.1.1. Sustainable Technologies for Reducing Europe's bAttery raw MaterialS dependance

A. GENERAL PROJECT INFORMATION

TITLE		Sustainable Technologies for Reducing Europe's bAttery raw MaterialS dependance		
ACRONYM		STREAMS		
GRANT AGREEMENT		101137771		
DOI		https://doi.org/10.3030/101137771		
EU CONTRIBUTION		€ 6 094 993,25		
DURATION		36 months		
START DATE		1 January 2024		
END DATE		31 December 2026		
STATUS		On-going		
PROGRAMME		HORIZON EUROPE		
TOPIC		HORIZON-CL5-2023-D2-01-01 - Technologies for sustainable, cost-efficient and low carbon footprint downstream processing & production of battery-grade materials (Batt4EU Partnership)		
CALL PROPOSAL	OF	HORIZON-CL5-2023-D2-01		
KEYWORDS		Battery-grade intermediates recovery recycling reconditioning sustainable processing purification processes raw materials primary and secondary sources black mass		

B. CONSORTIA

Project Coordinator:

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH, Austria

Participants:

- ETI BAKIR ANONIM SIRKETI/MAZIDAGI SUBESI, Türkiye
- GLOCK TECHNOLOGY GMBH, Austria
- SIPOW AS, Norway

- INSTYTUT SORBTSIYI TA PROBLEM ENDOEKOLOHIYI NATSIONALNOYI AKADEMIYI NAUK UKRAYINY, Ukraine
- OULUN YLIOPISTO, Finland
- ACONDICIONAMIENTO TARRASENSE ASSOCIACION, Spain
- TREIBACHER INDUSTRIE AG, Austria
- UNIVERSITE DE LIEGE, Belgium
- NANOPOW AS, Norway
- **TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU, Türkiye**
- SIEC BADAWCZA LUKASIEWICZ - INSTYTUT METALI NIEZELAZNYCH, Poland
- ENVIVA IDIOTIKI KEFAIOUCHIKI ETAIREIA/ENVIVA IKE, Greece
- F6S NETWORK IRELAND LIMITED, Ireland
- UKRAINIAN RESEARCH AND DESIGN INSTITUTE OF ELECTROTHERMAL EQUIPMENT, Ukraine

Partners:

- Evolution Energy Minerals Limited, Australia
- American Energy Technologies Company United, States
- IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE, United Kingdom
- UNIVERSITY OF WARWICK, United Kingdom

C. DESCRIPTION

New technologies for sustainable battery production

Battery technology plays a crucial role in electrical machinery, vehicles, and various components, serving as a cornerstone for developing, integrating, and advancing novel renewable energy solutions and energy storage technologies. However, the value chain of most batteries heavily relies on harmful critical raw materials and often involves highly polluting manufacturing processes, posing significant environmental risks. The EU-funded STREAMS project aims to showcase, develop, and validate 12 scalable and adaptable technologies focused on the sustainable production of battery-grade precursors and corresponding anode and cathode active materials. It will demonstrate these solutions using primary, secondary, and recycled materials, with the outcomes poised to substantially enhance European competitiveness.

2.3.2. Solar Systems for Industrial Process Heat and Power (HORIZON-CL5-2023-D3-01-04)

2.3.2.1. SOLar-driven INDustrial power and heat upgRaded with high-temperature heaT pumps for enhanced integrated process efficiencY

A. GENERAL PROJECT INFORMATION

TITLE	SOLar-driven INDustrial power And heat upgRaded with high-temperature heaT pumps for enhanced integrated process efficiencY
ACRONYM	SOLINDARITY
GRANT AGREEMENT	101136148
DOI	https://doi.org/10.3030/101136148
EU CONTRIBUTION	€ 6 998 055,00
DURATION	48 months
START DATE	1 January 2024
END DATE	31 December 2027
STATUS	On-going
PROGRAMME	HORIZON EUROPE
TOPIC	HORIZON-CL5-2023-D3-01-04 - Solar Systems for Industrial Process Heat and Power
CALL OF PROPOSAL	HORIZON-CL5-2023-D3-01
KEYWORDS	Solar-thermal photovoltaic high-temperature heat pumps thermal energy storage waste heat recovery digital twin

B. CONSORTIA

Project Coordinator:

ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS, Greece

Participants:

- FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS, Spain
- UNIVERSITA DEGLI STUDI DI GENOVA, Italy
- RINA CONSULTING SPA, Italy
- UAB SOLI TEK R&D, Lithuania
- L'UREDERRA, FUNDACION PARA EL DESARROLLO TECNOLOGICO Y SOCIAL, Spain
- DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV, Germany
- BOGE KOMPRESSOREN OTTO BOGE GMBH & CO KG, Germany
- ARTIGO S.P.A., Italy
- CHARTOPOIIA KOMOTINIS ANONYMI VIOMICHANIKI EMPORIKI ETAIREIA, Greece

- SOLAR HEAT EUROPE/EUROPEAN SOLAR THERMAL INDUSTRY FEDERATION, Belgium
- **NATIONAL AGRICULTURAL RESEARCH CENTER, MINISTRY OF AGRICULTURE, Jordan**
- **MOROCCAN AGENCY FOR SUSTAINABLE ENERGY SA, Morocco**
- ASCORI GMBH & CO. KG, Germany
- HTT ENERGY GMBH, Germany
- THE LORENZ BAHLSEN SNACK-WORLD GMBH & CO KG GERMANY, Germany

Partners:

- TVP SOLAR SA, Switzerland
- OST - OSTSCHWEIZER FACHHOCHSCHULE, Switzerland

C. DESCRIPTION

Solar-driven industrial heat upgrade for the European industries of the future

Carbon emissions contribute significantly to environmental degradation. In the pursuit of sustainable industry practices, the EU-funded SOLINDARITY project aims to transform the industrial landscape by pioneering a heat upgrade system based on solar energy. Addressing industrial processes with temperatures up to 280 °C, SOLINDARITY integrates a complimentary set of innovative and highly efficient components, including solar thermal panels, thermal energy storage, photovoltaics and high-temperature heat pumps. The orchestration of these components is achieved through the use of AI, digital twinning and a user-friendly dashboard. With a pilot system showcasing efficacy across diverse industries and climates in Germany, Greece and Italy, the project's consortium of 18 partners spans 6 EU countries and extends to Jordan, Morocco and Switzerland.

2.3.3. DC and AC/DC hybrid transmission and distribution systems (HORIZON-CL5-2024-D3-01-13)

2.3.3.1. Pan-European Interoperable Ac-Dc Hybrid Electricity Networks

A. GENERAL PROJECT INFORMATION

TITLE		PAN-EUROPEAN INTEROPERABLE AC-DC HYBRID ELECTRICITY NETWORKS
ACRONYM		HYNET
GRANT AGREEMENT		101172757
DOI		https://doi.org/10.3030/101172757
EU CONTRIBUTION		€ 5 997 687,50
DURATION		36 months
START DATE		1 October 2024
END DATE		30 September 2027
STATUS		<i>On-going</i>
PROGRAMME		HORIZON EUROPE
TOPIC		HORIZON-CL5-2024-D3-01-13 - DC and AC/DC hybrid transmission and distribution systems
CALL PROPOSAL	OF	HORIZON-CL5-2024-D3-01
KEYWORDS		Hybrid AC DC grids grid forming resilience reliability multi-energy planning HVDC interoperability converters MVDC

B. CONSORTIA

Project Coordinator:

UBITECH ENERGY, Belgium

Participants:

- SUPERGRID INSTITUTE, France
- FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS, Spain
- INESC TEC - INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES, TECNOLOGIA E CIENCIA, Portugal
- UNIVERSITY OF CYPRUS, Cyprus
- ETHNIKO KAI KAPODISTIRIAKO PANEPISTIMIO ATHINON, Greece
- BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM, Hungary
- ARTELYS, France
- SIDROCO HOLDINGS LIMITED, Cyprus
- SMART SUSTAINABLE SOCIAL INNOVATIONS MONOPROSOPHI IKE, Greece
- FUTURE ENERGY INNOVATIVE TECHNOLOGIES I.K.E., Greece

- ELECTRICITE DE FRANCE, France
- STATNETT SF, Norway
- **CRNOGORSKI ELEKTROPRENOSNI SISTEM AD PODGORICA, Montenegro**
- DIACHEIRISTIS SYSTIMATOS METAFORAS, Cyprus
- GE ENERGY POWER CONVERSION FRANCE, France

C. DESCRIPTION

New technologies for AC/DC hybrid power systems

The renewed interest in direct current (DC) power transmission and distribution (T&D) systems is driven by the increasing use of power electronic-based loads and distributed energy resources (DERs) operating in DC. In response to events in Ukraine, the European Commission introduced the REPowerEU Plan, aiming to reduce Europe's dependence on Russian energy imports. The EU-funded HYPNET project aims to develop innovative technologies for the transnational design and planning of AC/DC hybrid power systems. It aims to establish standardised methodologies for multi-terminal, multi-vendor MVDC and LVDC systems and to design, implement, and demonstrate innovative solutions for adopting and deploying DC power systems across all voltage levels. The project will showcase HYPNET innovations in four European countries.

2.3.3.2. *Transmission and distribution Hybrid nEtworks with enhanced resilience and robUstnesS*

A. GENERAL PROJECT INFORMATION

TITLE	Transmission and distribution Hybrid nEtworks with enhanced resilience and robUstnesS	
ACRONYM	THEUS	
GRANT AGREEMENT	101172877	
DOI	https://doi.org/10.3030/101172877	
EU CONTRIBUTION	€ 5 998 941,25	
DURATION	36 months	
START DATE	1 September 2024	
END DATE	31 August 2027	
STATUS	<i>On-going</i>	
PROGRAMME	HORIZON EUROPE	
TOPIC	HORIZON-CL5-2024-D3-01-13 - DC and AC/DC hybrid transmission and distribution systems	
CALL PROPOSAL	OF	HORIZON-CL5-2024-D3-01
KEYWORDS	Hybrid grids planning and management grid forming protection systems smart substations transmission grids distribution grids DC distribution and microgrids	

B. CONSORTIA

Project Coordinator:
FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS, Spain

- Participants:**
- RICERCA SUL SISTEMA ENERGETICO - RSE SPA, Italy
 - CENTRO DE INVESTIGACIONES ENERGETICAS MEDIOAMBIENTALES Y TECNOLOGICAS, Spain
 - EREVNITIKO PANEPISTIMIAKO INSTITOUTO SYSTIMATON EPIKOINONION KAI YPOLOGISTON, Greece
 - RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN, Germany
 - UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA, Italy
 - **SIVAS CUMHURİYET UNIVERSİTESİ, Türkiye**
 - ABB AB, Sweden
 - ABB SPA, Italy

- MOTOR OIL RENEWABLE ENERGY MONOPROSOPI AE, Greece
- INDEPENDENT POWER TRANSMISSION OPERATOR SA, Greece
- ASM TERNI SPA, Italy
- **GDZ ELEKTRİK DAĞITIM ANONİM ŞİRKETİ, Türkiye**
- NTU INTERNATIONAL AS, Denmark
- EUREC EESV, Belgium

C. DESCRIPTION

Hybrid grids for the future

Achieving climate neutrality by 2050 requires a more interconnected, resilient energy system in Europe. Hybrid AC/DC grids offer a promising solution to support this goal by combining the strengths of both systems, offering enhanced flexibility and efficiency. In this context, the EU-funded THEUS project is advancing tools, models and technologies to implement hybrid grids at high, medium, and low voltage levels. THEUS will validate six planning and operational solutions across five real-world case studies, including transnational interconnectors and hybrid distribution grids in Italy, Greece, Spain and Turkey. The project aims to reduce energy losses by up to 30 % and cut operation and maintenance costs by about 20 %. With partners from eight countries, THEUS is set to boost Europe's future energy architecture, ensuring reliable grid operations with increased renewable energy integration.

2.4. OTHERS

2.4.1. Protest politics and cultures of opposition in democracy (HORIZON-CL2-2024-DEMOCRACY-01-01)

2.4.1.1. Contentious Politics and Democratic Renewal in Sustainability Transitions

A. GENERAL PROJECT INFORMATION

TITLE	Contentious Politics and Democratic Renewal in Sustainability Transitions		
ACRONYM	Trans4Demo		
GRANT AGREEMENT	101178267		
DOI	https://doi.org/10.3030/101178267		
EU CONTRIBUTION	€ 2 999 881,25		
DURATION	36 months		
START DATE	1 January 2025		
END DATE	31 December 2027		
STATUS	On-going		
PROGRAMME	HORIZON EUROPE		
TOPIC	HORIZON-CL2-2024-DEMOCRACY-01-01 - Protest politics and cultures of opposition in democracy		
CALL OF PROPOSAL	HORIZON-CL2-2024-DEMOCRACY-01		
KEYWORDS	democracy renewal bottom-up mobilizations contentious politics sustainable transitions		

B. CONSORTIA

Project Coordinator:

UNIVERSYTET IM. ADAMA MICKIEWICZA WPOZNANIU, Poland

Participants:

- NORDISK INSTITUTT FOR STUDIER AV INNOVASJON, FORSKNING OG UTDANNING, Norway
- LINKOPINGS UNIVERSITET, Sweden
- INSTITUT FUR OKOLOGISCHE WIRTSCHAFTSFORSCHUNG GMBH, Germany
- SCUOLA NORMALE SUPERIORE, Italy
- RIJKSUNIVERSITEIT GRONINGEN, Netherlands
- ROSKILDE UNIVERSITET, Denmark
- **THE HEBREW UNIVERSITY OF JERUSALEM, Israel**

- THE LISBON COUNCIL FOR ECONOMIC COMPETITIVENESS ASBL, Belgium
- MILJOAGENTENE, Norway
- RADET FOR GRØN OMSTILLING, Denmark
- FUNDACJA NOWEJ WSPÓLNOTY, Poland
- **The Israel Energy Forum (R.A.), Israel**

C. DESCRIPTION

Trans4Demo is an evidence-based and impact-driven set of actions to address contentious politics arising from climate change and sustainable transitions. These conflicts are seen as a critical challenge for democratic systems, and their importance is expected to grow in the future. Authoritarian tendencies and right-wing populism have weakened social cohesion, making large parts of EU populations less willing to change their practices and hindering responses to climate challenges.

The main objective of the project is to investigate the role and evolution of diverse forms of opposition and contentious politics of sustainability transitions, and their impact on democracy. We aim at delivering the temporality-sensitive conceptual framework, practical understandings, and policy recommendations to assist in democracy reinvigoration. By exploring these intersections, we identify specific scientific, consensus-based, and politically normative goals that political communities in diverse European contexts could pursue. Empirically, throughout the project, we will (1) focus on practical understandings of the role of various bottom-up mobilizations against the populist backdrop, (2) identify novel sites of constructive democratic engagement, and (3) address the role of trust in the democratic process, including the validity of electoral processes. Building on this, (4) we will provide sound, research-based policy recommendations that balance bottom-up and top-down perspectives for democratic renewal.

To achieve these targets, we will employ triangulated and participatory methodologies, including case studies and future-oriented methods, developed in collaboration with societal actors involved in the project—from the initial design of the research agenda to fieldwork and dissemination activities.

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The portal data.europa.eu provides access to open datasets from the EU institutions, bodies and agencies. These can be downloaded and reused for free, for both commercial and non-commercial purposes. The portal also provides access to a wealth of datasets from European countries.

The *Mediterranean Initiative* was launched following the first Union for the Mediterranean (UfM) Ministerial Declaration on Research and Innovation in June 2022. It embodies the European Union's commitment to fostering strong collaborative relationships with Southern Mediterranean countries. Designed under the Horizon Europe Work Programme 2023–2024, the initiative comprises around 37 topics and a budget of approximately €320 million, providing a solid platform for advancing research and innovation in areas of mutual interest.

Project information



Publications Office
of the European Union