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HORIZON EUROPE PROGRAMME

This newsletter provides a selection of the latest calls and its requirements around the **Horizon Europe Programme**. The aim is to provide periodic updates and synthesize relevant information on the open calls regarding the fields addressed by this programme.

Horizon Europe Programme is the EU's research and innovation programme for 2021-2027 with a budget of €95,5 billion. The programme facilitates collaboration and strengthens the impact of research and innovation in developing, supporting and implementing EU policies while tackling global challenges. It supports creating and better dispersing of excellent knowledge and technologies.

Energy

WATER4ALL 2022 JOINT TRANSNATIONAL CALL "MANAGEMENT OF WATER RESOURCES: RESILIENCE, ADAPTATION AND MITIGATION TO HYDROCLIMATIC EXTREME EVENTS AND MANAGEMENT TOOLS"

Deadline: 20 March 2023 15:00:00 Brussels time.

Description: Water is necessary to all human activities and to life in general. Because of this, it was made central to all components of the EU Green Deal and to several United Nation Sustainable Development Goals (UN SDGs), starting with SDG6 on « clean water and sanitation ». The Water4All Partnership, cofunded by the European Union within the frame of the Horizon Europe programme, aims at enabling water security for all in the long term through boosting systemic transformations and changes across the entire research – water innovation pipeline, fostering the matchmaking between problem owners and solution providers.

Water4All brings together a wide and cohesive group of 79 partners from 31 countries in the European Union and beyond. This consortium gathers a variety of partners from the whole water Research, Development and Innovation (RDI) chain.

- Research and innovation funders,
- thematic authorities in charge of water issues and policy-makers,
- local authorities,
- associations and networks representing the economic sector in the field of water at the European, national or regional level,

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- research organisations

For further information, please refer to this [link](#).

Type of action and duration: Research and Innovation Actions (36 months)

Project budget: EUR 30 million.

Eligible criteria:

- Regarding admissibility conditions and related requirements, part A of the Horizon Europe Work Programme 2021-2022 General Annexes applies.

Specific requirements:

- Research & innovation proposals submitted under the Water4All 2022 Joint Transnational Call are required to **address at least one of the following topics**:
 - Resilience, adaptation and mitigation to hydroclimatic extreme events.
 - Tools for water management – in the context of hydroclimatic extreme events.
 - Improved water governance in the context of hydroclimatic extreme events and international contexts.

INNOVATIVE COMPONENTES AND/OR SUB-SYSTEMS FOR CSP PLANTS AND/OR CONCENTRATING SOLAR THERMAL INSTALLATIONS

Deadline: 10 January 2023 17:00:00 Brussels time.

Description: Concentrating solar thermal technologies supply renewable, dispatchable energy and can therefore be an important element of the evolving energy system. Project results are expected to contribute to some of the following expected outcomes:

- Higher shares of variable output renewables in the energy system.
- Higher efficiency of concentrated solar power (CSP) plants and/or concentrating solar thermal installations.
- Reduced operation and maintenance costs of CSP plants and/or concentrating solar thermal installations.
- Achievement of the targets of the SET Plan Initiative for Global Leadership in CSP.

For further information, please refer to this [link](#).

Type of action and duration: Research and Innovation Actions (*duration not indicated*).

Project budget: EUR 5,5 million.

Eligible criteria:

- Legal entities (public or private bodies). Natural persons, international organisations, entities without legal personality and EU bodies **are not eligible**.

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- Be established in one of the eligible countries (EU MS or EEA countries).

Specific requirements:

- The page limit of the application is 70 pages.
- For further information on the specific requirements, please refer to the [Horizon Europe Work Programme 2021-2022 General Annexes](#).

BEST INTERNATIONAL PRACTICE FOR SCALING UP SUSTAINABLE BIOFUELS

Deadline: 10 January 2023 17:00:00 Brussels time.

Description: Proposals will aim at fostering international cooperation to develop best practices and concepts along the entire value chain for accelerating the scale-up of sustainable biofuels worldwide. Scaling up sustainable biofuels is a global challenge in terms of environmental, social, and economic sustainability, which can benefit from international collaboration and knowledge exchange. Proposals should address systemic constraints and opportunities for scaling up complete value chains of sustainable biofuels and propose solutions. Any sustainable non-food/feed biomass feedstock and any innovative technology or combinations of them should be considered. Proposals should enhance overall cost-effectiveness and sustainability of large-scale production of sustainable biofuels based on Life Cycle Analysis addressing social, economic and environmental aspects. International cooperation with Mission Innovation countries is expected. For further information, please refer to this [link](#).

Type of action and duration: Research and Innovation Actions (*duration not indicated*).

Project budget: EUR 9 million.

Eligible criteria:

- Legal entities (public or private bodies). Natural persons, international organisations, entities without legal personality and EU bodies **are not eligible**.
- Be established in one of the eligible countries (EU MS or EEA countries).

Specific requirements:

- All projects will contribute to an increased capacity of the system to integrate renewable energy sources and less curtailment at transmission and distribution level.
- For further information on the specific requirements, please refer to the [Horizon Europe Work Programme 2021-2022 General Annexes](#).

DESIGNS, MATERIALS AND SOLUTIONS TO IMPROVE RESILIENCE, PREPAREDNESS & RESPONSIVENESS OF THE BUILT ENVIRONMENT FOR CLIMATE ADAPTATION (BUILT4PEOPLE)

Deadline: 24 January 2023 17:00:00 Brussels time.

Description: Project results are expected to contribute to all of the following expected outcomes:

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- Increased awareness of the built environment's protective role for people and climate adaptation in case of disruptive events.
- Mainstreamed resilience as a key feature of the built environment across its life cycle.
- Improved ability of the built environment to support the preparedness and responsiveness to disruptive events at larger scales.
- Improved ability of the built environment to contribute to the overall quality of living and working.
- Strengthened supply chains for materials and solutions for a resilient and climate proof-built environment, adapted to local risks.

For further information, please refer to this [link](#).

Type of action and duration: Innovation Action (*duration not indicated*).

Project budget: EUR 15.000.000

Eligible criteria:

- A number of non-EU/non-Associated Countries that are not automatically eligible for funding have made specific provisions for making funding available for their participants in Horizon Europe projects. See the information in the [Horizon Europe Programme Guide](#). See the information in the [Horizon Europe Programme Guide](#).
- Be established in one of the eligible countries (EU MS or EEA countries).

Specific requirements:

- Applicants must have stable and sufficient resources to successfully implement the projects.
- Page limit is 70.
- Specific topics to be assessed are described in the [Call document](#) (*page 289 onwards*).

EGNSS APPLICATIONS FOR SMART MOBILITY

Deadline: 2 March 2023 17:00:00 Brussels time.

Description: Projects are expected to contribute to the following outcomes:

- Development of EGNSS based accuracy, safety-and liability-critical applications in long lead time market segments such as aviation, maritime, rail, road transportation and multi modal domains.
- EGNSS response to the increasing mobility demands and emerging transport solutions, such as those enabled by autonomous or unmanned platforms, supporting new policies aimed to incentivise green and sustainable transportation of goods and people.

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- The action aims at fostering the EGNSS market uptake in transport. Applications should demonstrate the advantage of Galileo and EGNOS specific features and differentiators for their use in smart and green mobility, and should contribute to a resource efficient, safe, climate and environmentally friendly transport, that will be for the benefit of citizens, the economy and society.

For further information, please refer to this [link](#).

Type of action and duration: Innovation Actions (*duration not indicated*).

Project budget: EUR 9.500.000

Eligible criteria:

- A number of non-EU/non-Associated Countries that are not automatically eligible for funding have made specific provisions for making funding available for their participants in Horizon Europe projects. See the information in the [Horizon Europe Programme Guide](#).
- Legal entities (public or private bodies). Natural persons, international organisations, entities without legal personality and EU bodies **are not eligible**.
- If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries must make use of Copernicus and/or Galileo/EGNOS (other data and services may additionally be used).

Specific requirements:

- The Business Plan shall be submitted as a part of Part B of the proposal. It should be based on a template provided by the European Commission and available in the submission service.
- Applicants must have stable and sufficient resources to successfully implement the projects.
- Project results are expected to improve reliability of system components, advanced and automated functions for data analysis, diagnosis and fault detection, forecasting and model-predictive control frameworks, ancillary services for the stability of the network; maintenance planning and/or reporting.

DEVELOPMENT OF DIGITAL SOLUTIONS FOR EXISTING HYDROPOWER OPERATION AND MAINTENANCE

Deadline: 10 January 2023 17:00:00 Brussels time

Description: Development of novel sensor technologies and digital solutions for digitization of existing hydropower plants and improving their sustainable operation by addressing one or more of the following: weather and flow forecast, biodiversity monitoring, predictive modelling and artificial intelligence for the analysis of sensor data for decision-making in operation and maintenance. Acknowledging eventual confidentiality of operational data, to ensure wide uptake and reliability, actions should promote the highest standards of transparency and openness of the digital solutions, extending to aspects such as assumptions, architecture, code and data. For further information, please [refer to this link](#).

Type of action and duration: Research and Innovation Action (*duration not indicated*).

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Project budget: EUR 9.000.000

Eligible criteria:

- A number of non-EU/non-Associated Countries that are not automatically eligible for funding have made specific provisions for making funding available for their participants in Horizon Europe projects. See the information in the [Horizon Europe Programme Guide](#).
- Be established in one of the eligible countries, i.e.: - EU Member States (including overseas countries and territories (OCTs)).

Specific requirements:

- Applicants must have stable and sufficient resources to successfully implement the projects.

Transport

COPERNICUS DOWNSTREAM APPLICATIONS AND THE EUROPEAN DATA ECONOMY

Deadline: 2 March 2023 17:00:00 Brussels time.

Description: Projects are expected to contribute to the following outcomes:

- Europe needs to strengthen its position as provider of products and services based on data, enabling new market opportunities. The EU is promoting the use and uptake of Copernicus, a leading European data provider, as a driver of innovation for the European Data Economy.
- Actions under this Topic will contribute to increase the integration and uptake of Copernicus into the economy, and/or to solve societal challenges.
- The integration of Copernicus data assets with data contributed by other vertical domains into sizeable and scalable applications enabled by modern ICT technologies will greatly enhance Copernicus downstream market. Likewise, many vertical domains (such as, for example, agriculture, food security, health, energy, natural resources, environmental monitoring, insurances, tourism, security, among others) will benefit from the use of Copernicus.

For further information, please refer to this [link](#).

Type of action and duration: Innovation Action (duration not indicated).

Project budget: EUR 2 – 3 million.

Eligible criteria:

- Legal entities (public or private bodies). Natural persons, international organisations, entities without legal personality and EU bodies **are not eligible**.
- Be established in one of the eligible countries (EU MS or EEA countries).

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Specific requirements:

- Applicants are required to present initial qualifying items of their business plan in the proposal, which will then have to be fully developed as part of the project's exploitation plan.
- To achieve the objectives described above, the project are required to adopt state-of-the-art ICT technologies (such as, for example, Big Data and AI technologies in their wider declinations), and make use of existing European data infrastructures, such as Copernicus DIAS platforms, European open data portals, and industrial data platforms.

DESIGNING SPACE-BASED DOWNSTREAM APPLICATIONS WITH INTERNATIONAL PARTNERS

Deadline: 2 March 2023 17:00:00 Brussels time.

Description: Proposals can target one or more of the three expected outcomes. Proposal can also include the use of other space based or non-spaced based assets and services, with a preference given to those based in the EU and in the international cooperation partners countries applying to these topics. The actions should focus on technical developments of EU-space based applications/solutions, dissemination, awareness-raising, as well as provide opportunities for the creation of business-oriented partnerships of European industry with international partners. By doing so the action should be achieving a critical mass of space based-application success stories, demonstrating the advantages and differentiators of EU space-based solutions and services and making it an attractive option for public authorities, private industries and private investors in Europe and elsewhere.

For further information, please refer to this [link](#)

Type of action and duration: Research and Innovation Actions (*duration not indicated*).

Project budget: EUR 5,1 million.

Eligible criteria:

- Due to the scope of this topic, legal entities established in countries that have signed an administrative cooperation arrangement on Copernicus data access and Earth observation data exchange are exceptionally eligible for Union funding. Currently, these countries are: the United States, Australia, Ukraine, Chile, Colombia, Serbia, African Union, India and Brazil. Discussions towards similar cooperation have been started with other countries and regions (including United Nations Agencies and AsiaPacific countries).
- If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries must make use of Copernicus and/or Galileo/EGNOS (other data and services may additionally be used).
- Legal entities (public or private bodies). Natural persons, international organisations, entities without legal personality and EU bodies **are not eligible**.
- Be established in one of the eligible countries (EU MS or EEA countries).

Specific requirements:

- For further information on the specific requirements, please refer to the Horizon Europe Work Programme 2021-2022 General Annexes and HE Main Work Programme 2021–2022 – 7. Digital, Industry and Space.

Green

NOVEL THIN FILM (TF) TECHNOLOGIES TARGETING HIGH EFFICIENCIES**Deadline:** 10 January 2023 17:00:00 Brussels time.

Description: An alternative to c-Silicon PV is thin-film solar cells, which can be fabricated on various and flexible substrates (including glass, metal foils and polymers). A benefit of thin-film PV is the lower direct semiconductor materials cost. Realising lower costs in production requires high input material utilisation and low raw materials conversion costs. Largescale thin-film module production can be more cost efficient when utilising rapid processing technologies. With further advances in scientific understanding, 25% efficiency devices are within reach as are even higher efficiencies in tandem architectures. Translating those device and process advances to manufacturing technology will dramatically reduce LCOE once sufficiently scaled in both module size and production volume. This will require adapting deposition processes for higher rates and to larger-scale equipment while developing suitable robust techniques for inline process and quality control.

The proposal should address all of the following:

- Develop novel environmentally benign thin-film technology concepts that optimise PV cell and module architecture, increase durability, decrease losses (minimising also the cell-to-module efficiency gap) and target very high efficiencies (>25%) with flexibility for specific applications.
- Employ simple, scalable and low cost/low energy consumption and higher rate deposition processes.
- Ensure compliance with all relevant standards, including those related to the specific applications targeted.
- Perform device/module real-life (under actual outdoor operating conditions) characterisation for reliability and energy yield assessment.
- Perform a life cycle analysis to bring evidence of the lower environmental impact, better resource efficiency than current commercial PV technologies, and circularity potential.

For further information, please refer to this [link](#).**Type of action and duration:** Research and Innovation Action (*duration not indicated*).**Project budget:** EUR 5 million.**Eligible criteria:**

- Legal entities (public or private bodies). Natural persons, international organisations, entities without legal personality and EU bodies **are not eligible**.

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- Be established in one of the eligible countries (EU MS or EEA countries).

Specific requirements:

- For further information on the specific requirements, please refer to the [Horizon Europe Work Programme 2021-2022 General Annexes](#).
- The page limit of the application is 70 pages.

EFFICIENT AND LOW-EMISSION TECHNOLOGIES FOR INDUSTRIAL USE OF COMBUSTION AND GASIFICATION SYSTEMS FROM LOW-VALUE BIOGENIC RESIDUES AND WASTES

Deadline: 10 January 2023 17:00:00 Brussels time.

Description: Development of technologies for optimization of advanced biofuel flexible systems regarding upstream multi-feedstock, logistics, feeding, ash management, combustion or gasification processes and effluent emissions and their effective integration into industrial process energy environment through efficient and low-emission technologies for industrial use of combustion and gasification systems from low-economic value, but fully sustainable biogenic residues and wastes.

Project results are expected to contribute to some of the following expected outcomes:

- Advance the European scientific basis, technology base, leadership and global role in the area of bioenergy integration into industrial settings while creating evidence for policy making;
- Increased feedstock diversification and better technological performance leading to cost-reduction of bioenergy with positive effects on renewables' penetration, circularity and security of supply;
- Reduced emissions and increased environmental and socio-economic sustainability of biomass combustion and gasification and bioenergy value chains.

For further information, please refer to this [link](#).

Type of action and duration: Research and Innovation Action (*duration not indicated*).

Project budget: EUR 3-5 million.

Eligible criteria:

- Legal entities (public or private bodies). Natural persons, international organisations, entities without legal personality and EU bodies **are not eligible**.
- Be established in one of the eligible countries (EU MS or EEA countries).

Specific requirements:

- For further information on the specific requirements, please refer to the [Horizon Europe Work Programme 2021-2022 General Annexes](#).
- The page limit of the application is 70 pages.

EFFICIENT AND CIRCULAR ARTIFICIAL PHOTOSYNTHESIS

Deadline: 10 January 2023 17:00:00 Brussels time.

Description: This Destination includes activities targeting a sustainable, secure and competitive energy supply. In line with the scope of cluster 5, this includes activities in the areas of renewable energy; energy system, grids and storage; as well as Carbon Capture, Utilization and Storage (CCUS). The transition of the energy system will rely on reducing the overall energy demand and making the energy supply side climate neutral. R&I actions will help to make the energy supply side cleaner, more secure, and competitive by boosting cost performance and reliability of a broad portfolio of renewable energy solutions, in line with societal needs and preferences. Furthermore, R&I activities will underpin the modernisation of the energy networks to support energy system integration, including the progressive electrification of demand side sectors (buildings, mobility, industry) and integration of other climate neutral, renewable energy carriers, such as clean hydrogen. Innovative energy storage solutions (including chemical, mechanical, electrical and thermal storage) are a key element of such energy system and R&I actions will advance their technological readiness for industrial-scale and domestic applications. Carbon Capture, Utilisation and Storage (CCUS) is a CO₂ emission abatement option that holds great potential and R&I actions will accelerate the development of CCUS in electricity generation and industry applications. For further information, please refer to this [link](#).

Type of action and duration: Research and Innovation Actions (*duration not indicated*).

Project budget: EUR 3 - 5 million.

Eligible criteria:

- Legal entities (public or private bodies). Legal entities established in Russia, Belarus, or in non-government-controlled territories of Ukraine **are not eligible**.
- Be established in one of the eligible countries, i.e.: - EU Member States (including overseas countries and territories (OCTs)).

Specific requirements:

- For further information on the specific requirements, please refer to the [Horizon Europe Work Programme 2021-2022 General Annexes](#)

RECYCLING END OF LIFE PV MODULES

Deadline: 10 January 2023 17:00:00 Brussels time.

Description: Photovoltaic power generation is pivotal in the transition to a clean energy system and the achievement of the zero-emissions target. To that end, it is important to enhance its sustainability while creating wealth and additional employment opportunities in Europe. Consequently, project results are expected to contribute to all of the following outcomes:

- Demonstrate efficient, low-cost, emerging recycling technologies for PV modules/products.
- Increase recyclability and minimize the environmental impact of PV technology.
- Introduce new business models and open new markets in PV recycling.

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- Reduce dependency on primary raw materials through the circular use of resources, sustainable products, and innovation.
- Strengthen domestic sourcing of raw materials in the EU.

For further information, please refer to this [link](#).

Type of action and duration: Innovation Action (duration not indicated).

Project budget: EUR 15 million.

Eligible criteria:

- Legal entities (public or private bodies). Natural persons, international organisations, entities without legal personality and EU bodies **are not eligible**.
- Be established in one of the eligible countries (EU MS or EEA countries).

Specific requirements:

- For further information on the specific requirements, please refer to the [Horizon Europe Work Programme 2021-2022 General Annexes](#).
- The page limit of the application is 70 pages.

DEVELOPMENT OF ALGAL AND RENEWABLE FUELS OF NON-BIOLOGICAL ORIGIN

Deadline: 10 January 2023 17:00:00 Brussels time.

Description: Renewable fuels of the future will be also based on algae and non-biological feedstock for sectors that depend on and operate with dense fuels. Improving these technologies will contribute to advance the European scientific basis and global technological leadership in the area of renewable fuels, increase their technology competitiveness and role in transforming the energy system on a fossil-free basis by 2050, in particular for hard to electrify sectors like aviation, while supporting the EU goals for energy independence.

Project results are expected to contribute to some of the following expected outcomes:

- Increase feedstock and technology basis for renewable fuels.
- Facilitate development of advanced and high-quality biofuels from algae vegetable lipids.
- Foster development of technological pathways for algal and non-biological renewable fuel production.
- Increase robustness of conversion and process sustainability for algal and non-biological renewable fuels.
- Contribute to the priorities of the SET Plan Action 8.

- Deliver technology for longer-term needs for renewable fuels in energy and transport

For further information, please refer to this [link](#).

Type of action and duration: Research and Innovation Actions (duration not indicated).

Project budget: EUR 5 million.

Eligible criteria:

- Legal entities (public or private bodies). Legal entities established in Russia, Belarus, or in non-government-controlled territories of Ukraine **are not eligible**.
- Be established in one of the eligible countries, i.e.: - EU Member States (including overseas countries and territories (OCTs)).

Specific requirements:

- For further information on the specific requirements, please refer to the [Horizon Europe Work Programme 2021-2022 General Annexes](#).

SOLUTIONS FOR THE SUSTAINABLE, RESILIENT, INCLUSIVE AND ACCESSIBLE REGENERATION OF NEIGHBOURHOODS ENABLING LOW CARBON FOOTPRINT LIFESTYLES AND BUSINESSES (BUILT4PEOPLE)

Deadline: 24 January 2023 17:00:00 Brussels time.

Description: This Destination addresses activities targeting the energy demand side, notably a more efficient use of energy as regards buildings and industry.

Demand side solutions and improved energy efficiency are among the most cost-effective ways to support the transition to climate neutrality, reduce pollution and raw materials use, to create inclusive growth and employment in Europe, to bring down costs for consumers, to reduce our import dependency and redirect investments towards smart and sustainable infrastructure. The transition to a decentralised and climate neutral energy system will greatly benefit from the use of digital technologies which will enable buildings and industrial facilities to become inter-active elements in the energy system by optimising energy consumption, distributed generation and storage and vis-à-vis the energy system. They will also trigger new business opportunities and revenue streams for up-graded, innovative energy services which valorise energy savings and flexible consumption. For further information, please refer to this [link](#).

Type of action and duration: Innovation Action (duration not indicated).

Project budget: EUR 15 million.

Eligible criteria:

- Legal entities (public or private bodies). Natural persons, international organisations, entities without legal personality and EU bodies **are not eligible**.
- Be established in one of the eligible countries (EU MS or EEA countries).

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• TURKEY

Specific requirements:

- For further information on the specific requirements, please refer to the [Horizon Europe Work Programme 2021-2022 General Annexes](#).

Innovation

PUBLIC SECTOR AS GALILEO AND/OR COPERNICUS USER

Deadline: 2 March 2023 17:00:00 Brussels time.

Description: Projects are expected to contribute to the following outcomes:

- Stimulate the public sector in Europe to use space downstream products, involving SMEs and midcaps.
- Support to public stakeholders through specific funding tools, to develop, via pre-commercial procurement (PCP) innovative EGNSS and/or Copernicus based solutions
- Encourage the public sector to be the “first customer” for innovative space-based applications and contribute to speeding up the modernisation of the public sector.
- Enable public procurers to collectively implement PCPs to close the gap between supply and demand for innovative solutions that require e.g. precise location (from EGNOS/Galileo), spatial data and earth monitoring capabilities (from Copernicus).
- Bring radical improvements to the quality and efficiency of public services by encouraging the development, validation and certification (when applicable) of breakthrough space-based solutions
- Prepare Galileo and/or Copernicus-based solutions for an integrated approach to support national public authorities to concretely uptake Galileo and/or Copernicus products and use them within their mandate and regulatory tasks and specifically helping them integrating Galileo and/or Copernicus in their regulatory systems, operational procedures and decision-making.
- Decrease of the prices of EGNSS and Copernicus based products/services, a smart use of the procurement budget to remove supplier lock-in and obtain more open, standardized solutions, shorter time-to-market facilitating the access of SMEs and midcaps to the procurement market and increased exploitation of IPRs and R&D results.

For further information, please refer to this [link](#).

Type of action and duration: Pre-commercial Procurement (12 months)

Project budget: EUR 2.6 – 5.2 million

Eligible criteria:

- Legal entities (public or private bodies). Natural persons, international organisations, entities without legal personality and EU bodies **are not eligible**.

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- Be established in one of the eligible countries (EU MS or EEA countries).

Specific requirements:

- For further information on the specific requirements, please refer to the [Horizon Europe Work Programme 2021-2022 General Annexes](#).

FURTHER INFORMATION

Due to the large number of open calls for the Horizon programme, Grimaldi has selected the most important ones although remains at your disposal should you have any question or interest in other open calls. In the event you wish to consult the current open calls or the forthcoming ones, we invite you to check the [website on EU Funding and Tenders](#).

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