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COOPERATION. INNOVATION. COMPETITIVENESS

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Mission: Climate neutral and smart cities

Anastasios (Tasos) Karakostas DRAXIS Environmental

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MINISTRY OF INDUSTRY
AND TECHNOLOGY



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TÜBİTAK

WHY A MISSION ON CLIMATE-NEUTRAL CITIES?

- 75% of EU citizens live in cities (projected to increase to about 85% in 2050)
- More than 65% of energy consumption and more than 70% of CO2 emissions worldwide
- Air and noise pollution; congestion; dangerous roads increasing problems in cities – not just GHG.
- The European Green Deal at local level – where policy meets people.
- Cities have the ambitions to go further – but few have declared readiness to be climate neutral by 2030. We have to help cities address the barriers they face.
- More than 150 EU cities already have ambitions to work towards climate neutrality, but only a handful with a 2030 timeline
- Barriers: Lack of administrative capacity, technical knowledge, regulatory barriers, funding and financing





EUROPEAN UNION

Mission Platform

- Run by the NetZeroCities consortium
- Co-creation of **Climate City Contracts** with citizens, stakeholders and authorities
- Tailor-made **investment plans**, project preparation and financial advice
- **R&I pilots and demonstrators:** launch calls for proposals for large scale pilots in lead cities that will twin with and mentor other cities



CLIMATE CITY CONTRACTS

- Tailor-made plans on how to reach climate neutrality, adapted to the individual needs of the city, supported by the Mission Platform
- Non legally binding – Memorandum of Understanding
- To be co-created with the involvement of national authorities, regions and local stakeholders, including citizens and local economic actors
- Focus on innovative (“holistic”) city governance, investment plan, and monitoring and reporting
- Signed by the Mayor (or equivalent), witnessed by the Commission and others



R&I CONTENT

- Portfolio of R&I activities targeting cities and communities will be launched in the Horizon Europe Work Programme for Missions
- Goals: develop capacity and showcase possibilities of scale-up and replicability
- Complementarity and synergy with ongoing and upcoming initiatives e.g. partnerships



Who can apply?

- Entities of more than 50 000 inhabitants.
- Participation of cities with at least 100 000 inhabitants is especially encouraged.
- For entities from Member States with five or less cities above 100 000 population, a lower threshold of 10 000 inhabitants will apply.
- By default, the applicant city commits the whole city to become climate-neutral. If duly justified, a city may propose to exclude one or more emission sources, but in this case needs to commit to a strategy of climate neutrality for these districts as soon as possible.



CAN SMALLER CITIES JOIN FORCES AND APPLY JOINTLY TO THE MISSION?

- Large cities are especially encouraged to apply because of their potential big impact on emission reduction.
- Groupings of cities of smaller size are generally not encouraged.
- To be nevertheless considered for participation, they would have to
 - be geographically contiguous
 - demonstrate that they can in fact act in a coordinated manner, with a single coordinating entity having authority to make decisions and commitments for the whole grouping



WHAT DOES CLIMATE NEUTRALITY MEAN FOR CITIES?

- Definition of Intergovernmental Panel on Climate Change (IPCC) to be applied to urban context
- Climate neutrality for a city by 2030 should be assessed based on:
 - (1) scope 1 GHG emissions, i.e. emissions within the geographic boundary from buildings, industry, transport, waste treatment, agriculture and forestry and from other activities, and
 - (2) scope 2 GHG emissions, i.e. indirect emissions due to consumption of grid-supplied electricity within the geographic boundary and indirect emissions due to consumption of grid-supplied heat or cold within the geographic boundary.
- Comprehensive information is contained in info kit for cities



WHAT ARE THE ASSESSMENT CRITERIA?

- the cities' level of ambition
- the cities' levels of preparedness
- the cities' existing and planned commitment to climate neutrality
- the cities' commitment to involving citizens and stakeholders
- Assessment by independent experts, validation by the European Commission



WHAT ARE THE BENEFITS OF BEING AMONG THE 100 CITIES?

- Tailor-made advice and support by the Mission Platform
- Help with access to funding and financing via a Mission label
- R&I demonstrators (NB: Horizon Europe open calls will not be restricted to Mission cities.)
- Support through a national coordination network
- High visibility – raised political profile, attractiveness for investment and skilled workers
- BUT this requires full commitment in Climate City Contract.



HOW WILL CITIES HAVE ACCESS TO FUNDING AND FINANCE?

- Climate City Contracts will include an investment plan, developed with the assistance of the Mission Platform.
- Mission Platform will help explore possibilities under existing funding schemes (Cohesion Funds, Connecting Europe Facility, national programmes etc).
- The Mission label will create further opportunities to access funding and financing.
- The Mission will cooperate closely with the European Investment Bank Group, including possibly setting up a “Blending Facility”.
- Mission Platform will also help with access to the wider finance community, including local sustainable investment, e.g. green bonds.



Mission: Climate neutral and smart cities

- The Work Programme



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Mission: Climate neutral and smart cities

- Actions envisaged by the topics of this Work Programme will provide a strong and direct support to cities that will commit to climate neutrality and enable them to roll out their climate action plans and achieve climate neutrality by 2030,
- In synergy with significant progress towards zero pollution.
- In turn, the cities benefitting from these actions will act as experimentation and innovation hubs for other cities to become climate-neutral by 2050.



Mission: Climate neutral and smart cities

- Climate neutrality for cities is associated with important co-benefits and urban qualities such as reduced air and noise pollution, improved health and well-being, reduced urban environmental footprints, enhanced urban greening and improved water management.
- It is also associated with policy coherence across sectors and with participatory and inclusive decision-making.
- Therefore, in addition to a significant contribution to the objective of the European Green Deal to make Europe climate-neutral by 2050, the actions funded will also contribute to the UN Agenda 2030, the EU Zero Pollution Action Plan, the Fit for 55 strategy, the Biodiversity Strategy for 2030, the EU Strategy on adaptation to climate change and the New European Bauhaus initiative.
- In the process, they will support cities in their twin green and digital transitions.



Mission: Climate neutral and smart cities

- Topics under the call “Supporting the transition towards climate neutrality within cities” aim to strengthen the operational capacity of the Mission Platform that provides its services to cities participating in the Cities Mission, to support the setup of national mission networks and to foster collaborative local governance models.
- Topics under the call “Research and Innovation actions to support the implementation of the Climate-Neutral and Smart Cities Mission” will provide support to innovative approaches to integrated urban planning and design, to large-scale demonstrations of Positive Clean Energy Districts, to activities that strengthen the innovation and inclusiveness potential of public transport and urban mobility, and to the setup of a platform to coordinate the international dimension of the Mission.
- Overall, the actions funded under the Work Programme will also foster the engagement of citizens and urban stakeholders as well as the mainstreaming of social innovation and of user- friendly and secure digital services.



Mission: Climate neutral and smart cities

- Proposals should demonstrate, as appropriate to their scope and size, how they internalise the principles of the Cities Mission, notably:
 - (1) the contribution of the action to an overarching strategy aiming at climate neutrality for cities,
 - (2) the place of the action within a holistic and cross-sectoral approach to climate neutrality, and
 - (3) diversity in terms of geographical location and size of cities.



Mission: Climate neutral and smart cities

- Applicants are encouraged to show how their proposals take into account and build upon existing programmes and/or the results of previous R&I projects.
- While addressing the particular challenge of a topic and ensuring the doing no harm principles, proposals should also contribute as relevant to the following cross-cutting priorities:
 - (1) zero pollution,
 - (2) sustainable digitisation and green ICT,
 - (3) interoperability and shared standards, and
 - (4) affordability, social inclusiveness and accessibility to leave no one behind.



Mission: Climate neutral and smart cities

- Proposals should emphasise systemic approaches by integrating, for instance,
 - energy and mobility systems,
 - carbon-free energy vectors and storage at district level,
 - sustainable and carbon-free/low-emission built environment,
 - diffusion of electrical, alternative fuels based,
 - carbon neutral and efficient mobility and of vehicle-to-grid technology.
- Strong contribution to the implementation of the Cities Mission is expected from relevant Horizon Europe partnerships such as the European Partnership for People-centric Sustainable Built Environment (Built4People), the European Partnership towards Zero-emission Road Transport (2Zero) as well as the European Partnerships on Connected, Cooperative and Automated Mobility (CCAM) and on Driving Urban Transitions to a sustainable future (DUT).
- The European Institute of Innovation and Technology (EIT) and its Knowledge and Innovation Communities (KICs), with their experience in delivering holistic, transformative,



Mission: Climate neutral and smart cities

- Proposals should set out a credible pathway to contributing to the main objectives of the Cities Mission, and more specifically to the following impacts:
- Capacity building among European cities, in particular the 100 cities under the Cities Mission, to design and roll out their Climate City Contracts and reach climate neutrality by 2030;
- Sector integration, cross-sectorial collaboration and synergies, supported by digital solutions, new value chains for increased energy and resource efficiency, better performing grids, resilience in cities and surroundings/ urban areas, communities and infrastructures, and enhanced competitiveness of the European industry;
- Deployment of inclusive, replicable deep renovation, renewable energy, demand response, heating & cooling as well as system integration solutions including for different building types; establishment of participatory system integration projects, renewable & citizens' energy communities and intensified city-business collaboration in related energy transition planning and implementation, prevention and reduction of energy poverty;
- Deployment and increased modal share of inclusive, clean, shared and alternative mobility modes and services in urban and peri-urban areas while internalizing the negative externalities of transport such as traffic congestion, air and noise pollution, road collisions and accidents, as well as contribution to avoid mobility-poverty;



Mission: Climate neutral and smart cities

- Establishment of innovative and inclusive local and/or regional governance models and institutional partnerships and frameworks to increase the innovation capacity of local/regional administrations and foster integrated cross-sectorial planning approaches and accelerate the take-up of innovative smart solutions in key areas such as energy, transport, spatial planning, environment, industry and SMEs, digitisation and (big) data handling;
- Development of new co-creation and co-management methods and approaches based on co-creation that ensure a better engagement of citizens and stakeholders, longer-term planning certainty and a better integration of their needs within the community's strategies and plans;
- Establishment/development of interoperable, scalable and replicable digital innovative solutions across the Mission's cities, using shared standards and data models, open Application Programming Interfaces (APIs), and open source software where relevant;
- Contribute to the availability of relevant data in the European common Data spaces for Mobility, Green Deal and Energy to enable further reuse of information to support the wider community;
- Increased synergies and complementarities with all the relevant EU policies, programmes and initiatives linked to cities, in particular the DIGITAL programme and the Covenant of Mayors for Climate and Energy.



Call	Budgets (EUR million)		Deadline(s)
	2021	2022	
HORIZON-MISS-2021-CIT-01	4.00		14 Sep 2021
HORIZON-MISS-2021-CIT-02	117.00		26 Apr 2022
HORIZON-MISS-2022-CIT-01		42.00	06 Sep 2022
Overall indicative budget	121.00	42.00	



Call - Research and Innovation actions to support the implementation of the Climate- Neutral and Smart Cities Mission

Topics	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million) ²⁶⁴	Number of projects expected to be funded
		2021		
Opening: 11 Jan 2022 Deadline(s): 26 Apr 2022				
HORIZON-MISS-2021-CIT-02-01	IA	35.00 ²⁶⁵	11.00 to 12.00	3
HORIZON-MISS-2021-CIT-02-02	IA	40.00 ²⁶⁶	12.00 to 20.00	3
HORIZON-MISS-2021-CIT-02-03	FPA			1
HORIZON-MISS-2021-CIT-02-04	IA	40.00 ²⁶⁷	15.00 to 20.00	2
HORIZON-MISS-2021-CIT-02-05	CSA	2.00 ²⁶⁸	Around 2.00	1
Overall indicative budget		117.00		



HORIZON-MISS-2021-CIT-02-01: Urban planning and design for just, sustainable, resilient and climate-neutral cities by 2030

- 11-12million 35total
- IA
- Each action must include pilot demonstrations in at least four cities situated each in different Member States or Associated Countries to demonstrate how urban planning and design can be optimally deployed to develop and implement their climate action plan to achieve climate neutrality and significantly reduce GHG emissions by 2030. In line with the principles of the Cities Mission, this topic targets cities with more than 50 000 inhabitants with enhanced replicability and up- scalability potential.



HORIZON-MISS-2021-CIT-02-01

- Expected Outcome: Project results are expected to contribute to all the following expected outcomes:
- Contribution to the implementation of the Climate-Neutral and Smart Cities Mission, the Zero Pollution Action Plan, the Biodiversity Strategy, Fit for 55 Strategy, Circular Economy Action Plan, the Urban Agenda for the EU, the New Leipzig Charter, the European partnership on Driving Urban Transitions for a sustainable future (DUT) and the New European Bauhaus Initiative, in line with the European Green Deal ambition and objectives;
- Transparent and efficient decision-making processes for people-centric urban planning and design for climate neutral cities achieved through innovative collaborative methods such as co-creation, living labs, crowdsourcing, crowdfunding, collective intelligence and collaborative economy in combination with technological innovations, data-driven approaches and enhanced cross-sectoral integration;



HORIZON-MISS-2021-CIT-02-01

- Effective management of trade-offs and ownership of transformative changes through the engagement and empowerment of stakeholders, citizens and inhabitants, paying special attention to vulnerable and at-risk for precarity social groups and communities, including people with disabilities, older people and youth;
- Innovative urban planning and design practices, harnessing, compiling and mainstreaming local knowledge, creativity, ingenuity and design quality, triggering behavioural and lifestyles changes and fostering co-created approaches, holistic responses to interlinked challenges within a city, and effective use of digital tools, such as Digital Twins, for solutions drawing on cross-domain data e.g. through data shared via data space for smart communities and sectoral data spaces;
- Solutions that ensure a more equitable, just, synergetic and optimal use of urban spaces integrating well-balanced built/green/blue/accessible infrastructures and biodiversity- friendly nature-based solutions for attractive, circular, healthy, resilient, secure and liveable cities with thriving citizens, communities, ecosystems and biodiversity and reduced urban environmental footprint.



HORIZON-MISS-2021-CIT-02-01

- The overall aim of this topic is to support a diverse range of urban areas across Europe (e.g. small and medium sized, port cities, cities with different geographical, climatic, socioeconomic conditions, levels of preparedness etc.), their urban authorities, stakeholders and citizens to identify, plan, design, fund, roll out and replicate solutions and measures in order to achieve climate neutrality, sustainability and resilience and significantly reduce emissions across the most relevant sectors by 2030.
- Long-term integrated, visionary, people-centric urban planning and design practices are needed to enable the transition toward just, sustainable, resilient and climate neutral cities. This requires the setup of new collaborative frameworks, novel inter-institutional settings and innovative services and tools harnessing local citizen knowledge, social innovation, new technologies and digitalisation to ensure cross-sectorial (e.g. infrastructures, transport, energy, water, built environment and natural environment) interventions, full engagement and informed participation of citizens and communities and trigger necessary behavioural and lifestyles changes.



HORIZON-MISS-2021-CIT-02-02: Unleashing the innovation potential of public transport as backbone of urban mobility

- 12-20
- 40 million total
- IA



HORIZON-MISS-2021-CIT-02-02

- Contribute to the objectives of the Climate-Neutral and Smart Cities Mission by accelerating the transition towards climate neutrality in cities
- Develop and implement a convincing approach to explore, test and evaluate the resilience and adaptability of urban public transport and promote its accrued use in line with the priorities of the European Green Deal, as part of the wider integrated urban and peri-urban mobility system;
- Using innovative co-creation methods involving a wide range of stakeholders (e.g. public transport employees, passengers, the city authority), improve the overall public transport offer and its attractiveness in line with users' needs and expectations, including affordability, inclusiveness and ensuring equal access for reduced mobility;
- Using simulation tools and data, understand and trigger behaviour change in favour of public transport;
- Understand dependencies between public transport and active travel modes including requirements towards multi-modal hubs and access-infrastructures;



HORIZON-MISS-2021-CIT-02-02

- Increase the share of public transport (modal split) in the modal distribution of motorized transportation by approximately 30% 285 in the cities involved in the projects 286 compared to their baseline at the start of the project and cover different market/customer segments, aiming at catering for specific needs of specific target groups, e.g. a better social inclusion and healthier lifestyles, envisioning a social optimum and the concept of Mobility as a Right;
- Increase user satisfaction with public transport by 25% compared to the baseline;
- Identify lessons and mutual learning at European level facilitating replication, upscaling and up-taking of the tested blueprints;
- Put in place or update a local policy framework for public transport, in line with the Sustainable Urban Mobility Plans (SUMP) guidelines and spatial planning, including clear commitments from the relevant authorities to implement it in the short and medium term.



HORIZON-MISS-2021-CIT-02-02

- The objective of this call is to increase the uptake of replicable public transport solutions in the living labs involved in the proposals while facilitating joint lesson-drawing and learning at European level. The funded actions will contribute to the objectives of the Cities Mission and to the priorities of the European Green Deal, which stresses that “transport should become drastically less polluting, especially in cities. A combination of measures should address emissions, urban congestion and improved public transport”.
- New approaches and financing models are emerging. A secure, efficient, clean, reliable, attractive and affordable public transport is essential to address the variety of mobility needs. At the same time, it can become a silver bullet for reducing transport’s negative externalities.



- HORIZON-MISS-2021-CIT-02-03: Framework Partnership Agreement (FPA) for the Climate-Neutral and Smart Cities Mission Platform
- Framework Partnership Agreement



HORIZON-MISS-2021-CIT-02-03

- Expected Outcome: This Framework Partnership Agreement aims at contributing to the implementation of the Climate-Neutral and Smart Cities Mission, hereafter referred to as the Cities Mission, and its objective of achieving 100 climate-neutral and smart cities by 2030.
- This partnership will build on the precursor action funded through the Horizon 2020 Green Deal call topic LC-GD-1-2-2020: Towards climate-neutral and socially innovative cities.
- The Framework Partnership Agreement will establish the necessary framework and collaboration for implementing and scaling up the one-stop-shop platform dedicated to the Climate-Neutral and Smart Cities Mission, hereafter referred to as the Mission Platform. The Mission Platform will cater for the needs of all the cities that commit to the objectives of the Cities Mission and start the transition towards climate neutrality in a systemic and smart way, as they engage in the co-creation and subsequent implementation of a Climate City Contract, hereafter referred to as CCC.



HORIZON-MISS-2021-CIT-02-03

- The Mission Platform will assist those cities that will be identified and selected as a result of the open Call for Expression of Interest which will be launched and managed by the European Commission during the last quarter of 2021.
- Cities that are not yet able to commit to the Mission's timeline but are willing to commit to accelerate their transition towards climate neutrality within the timeframe 2030 to 2035 following the Cities Mission basic principles, will also receive basic support from the Mission Platform.
- The Framework Partnership Agreement is expected to create the framework conditions and engage the needed competencies to contribute to all of the following expected outcomes:
- Operation of a fully functional Mission Platform that provides a wide range of tailor- made services to up to 150 cities participating in the Mission. Services cover technical, regulatory, financial and socio-economic expertise as well as assistance for developing and implementing the CCC and should complement and scale-up existing services developed by the project funded under the Horizon 2020 Green Deal call topic LC-GD- 1-2-2020: Towards climate-neutral and socially innovative cities.



HORIZON-MISS-2021-CIT-02-03

- Consolidated science-based indicators and a common monitoring, reporting and verification framework for the cities participating in the Mission. This should build upon existing methodologies, including those already developed in the action funded through the Horizon 2020 Green Deal call topic LC-GD-1-2-2020, while ensuring coherent use and reporting regularly on the progress of cities towards the CCC.
- Smart and customised access for cities to the best available research, expertise, tools and technologies that can enable them to quickly identify and implement portfolios of innovative, high-impact interventions on a deep decarbonisation pathway.
- Establish and follow a common CCC process for the cities participating in the Mission. Share experiences and good practices and engage in mutual learning, including through twinning opportunities open to a wide spectrum of cities such as those in disadvantaged and peripheral regions.



HORIZON-MISS-2021-CIT-02-03

- Calls for proposals are launched to support large-scale pilots for the deployment in participating Mission cities of systemic solutions working across functional silos and thematic areas (mobility, energy systems, built environment, industry, SMEs, material and resource flows, natural areas and nature-based solutions, cultural/social/financial/institutional systems, and accessible public spaces), in support of transforming systems.
- Web-based services and assistance to cities that are not yet in a position to commit to climate neutrality by 2030, but are ready to commit to accelerate their transition to climate neutrality in line with the Cities Mission principles. These cities will have the option to co-create a CCC with all stakeholders that will commit the city to undertake in a systemic way all actions needed for reaching climate neutrality in the period 2030- 2035.
- Close coordination with the European Commission to ensure that advice and support provided to cities remains aligned to the latest policies and initiatives and makes full use of available tools and services provided or supported by the Commission.



HORIZON-MISS-2021-CIT-02-03

- To launch large-scale pilots to act as demonstrators for the deployment of R&I and other off-the-shelf solutions with potential for scale-up, moving from singular, customised pilot programmes to city-wide initiatives, also replicated in other cities, thus accelerating their capacity to deliver on climate neutrality;
- To establish cooperation and regular exchange, formalised through a Memorandum of Understanding, with the R&I projects that will be funded under the Climate-neutral and smart cities Mission Work Programme in order to identify complementarities, avoid potential overlaps with the pilots supported by the Mission Platform and ensure synergies where relevant, to the benefit of the participating cities.
- To ensure a stable framework for the development of the Mission Platform, to avoid disruptions in its services and to deliver sustained support to the time-bound objective of the Cities Mission to achieve 100 climate-neutral cities by 2030, only one Framework Partnership Agreement will be established. The cooperation between the European Commission and selected partners will have a duration of five years. It will cover the period 2022-2027, until the conclusion of the Horizon Europe Framework Programme.



HORIZON-MISS-2021-CIT-02-04: Positive Clean Energy Districts

- 15-20millions
- 40millions total
- IA

- All applying cities must have a Sustainable Energy and Climate Action Plan²⁹¹ (SECAP) or similar, validated by European Commission's Joint Research centre (JRC) at least 1 month before call closure (a fast-track procedure can be requested if needed).



HORIZON-MISS-2021-CIT-02-04

- Expected Outcome: Projects are expected to contribute to all the following outcomes:
- Contribute to the objectives of the Climate-Neutral and Smart Cities Mission by accelerating the transition towards climate neutrality in cities;
- Large-scale demonstration and implementation of Positive Clean Energy Districts to prove their feasibility and cost-effectiveness in a real world environment, i.e. they will be fully integrated in the city context at all levels;
- Projects will be at district (project defined²⁹³) scale and will have long-term strategies that address the (at times conflicting) needs and requirements of inhabitants, energy, mobility (both passenger mobility and freight transport), ICT and environment at district scale in order to make cities more liveable, healthier, resource efficient and climate-neutral. Projects will include different social and economic areas at the district level;
- Collaborative structures that bring together all important actors needed to realize Positive Clean Energy Districts, i.e. cities/metropolitan areas, industry/SMEs, property developers/financial actors, R&I organisations, energy service providers, citizens associations, energy agencies, etc. They will closely collaborate among each other and with the Horizon 2020 Smart Cities and Communities Lighthouse projects cluster, the supporting SCALE service contract and the Smart Cities Marketplace;
- Widening and consolidating the Positive Clean Energy cluster of practitioners and strengthened links with financial actors enabling the mid-term Europe-wide uptake of tested solutions for Positive Clean Energy Districts;
- Paradigm shift from demonstration project to mainstreamed long-term city transformation;
- Evidence of decreased investment risk for - and acceleration of - the rollout of Positive Clean Energy Districts;



HORIZON-MISS-2021-CIT-02-04

- Well-proven and documented packaged solutions that lower the entry barrier, create trust and shape the market, ultimately leading to further large-scale investment;
- City alliances that include also small and very small cities as well as cities in less developed and peripheral regions - to enhance opportunities for accessing knowledge, technology and funding, and in turn provide a factual contribution toward meeting the climate targets.
- Scope: The topic addresses the objectives of the Climate-Neutral and Smart Cities Mission, hereafter referred to as the Cities Mission, to (1) support, promote and showcase 100 climate- neutral and smart European cities by 2030 and (2) make these cities act into experimentation and innovation hubs to put all European cities in a position to become climate-neutral by 2050. The topic will thus contribute to the twin green and digital transitions promoted by the European Green Deal and will lead by example on how to speed up the necessary transformation towards urban climate neutrality, including in a human-centred way.



HORIZON-MISS-2021-CIT-02-05: Global cooperation and exchange on urban climate neutrality

- 2million
- CSA



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HORIZON-MISS-2021-CIT-02-05

- Expected Outcome: Project results are expected to contribute to all of the following expected outcomes:
- Facilitate the management and transfer of global knowledge on the topic of climate action in cities, helping cities move closer to climate neutrality;
- Increase the visibility of the EU and its cities as frontrunners and collaboration-minded partners in urban climate action;
- Contribute to the implementation of EU policy and international commitment (European Green Deal, Global Approach to Research and Innovation).
- Scope: Climate neutrality is a global challenge that requires international dialogue and cooperation, including among cities. Cities account for more than 70% of CO2 emissions and over 65% of energy consumption worldwide. As such, they play a strategic role in climate change mitigation as hotspots of challenges and solutions. They are also uniquely positioned to reap multiple co-benefits from climate action such as reduced air and noise pollution as well as less congestion and more active lifestyles, leading to improved health and wellbeing for their inhabitants.



HORIZON-MISS-2022-CIT-01

Topics	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million) ³⁰⁹	Number of projects expected to be funded
		2022		
Opening: 28 Apr 2022 Deadline(s): 06 Sep 2022				
HORIZON-MISS-2022-CIT-01-01	IA	42.00 ³¹⁰	8.00 to 12.00	4
Overall indicative budget		42.00		



HORIZON-MISS-2022-CIT-01-01: Designing inclusive, safe, affordable and sustainable urban mobility

- 8-12 millions
- 42 millions total
- IA
- Applicant cities must have a Sustainable Urban Mobility Plan (SUMP)³¹¹, fully developed or in the preparatory phase, and project actions should link to it.
- Definition – A Sustainable Urban Mobility Plan is a strategic plan designed to satisfy the mobility needs of people and businesses in cities and their surroundings for a better quality of life. It builds on existing planning practices and takes due consideration of integration, participation, and evaluation principles.
- <https://www.eltis.org/glossary/sustainable-urban-mobility-plan>



HORIZON-MISS-2022-CIT-01-01

- Expected Outcome: Project results are expected to contribute to all of the following expected outcomes:
- Contribute to the objectives of the Climate Neutral and Smart Cities Mission by accelerating the transition towards climate neutrality in cities through the promotion of zero-emission, shared, active and human-centred mobility;
- Increase the extent and speed of the take-up and upscaling of innovative, best practice and replicable safe, affordable and sustainable urban mobility solutions in the living labs involved in the proposals (at least four cities/project and four follower cities, considering geographic diversity including in terms of regions' level of development) while facilitating the common lesson drawing and learning at European level, in order to contribute to the priority of the Zero Pollution Action Plan's objectives, the Sustainable and Smart Mobility Strategy and the EU road safety policy framework 2021-2030 for a 50% reduction target for deaths and also for serious injuries by 2030;



HORIZON-MISS-2022-CIT-01-01

- Solutions for at least ten unsafe areas/living labs in urban/peri-urban areas using innovative planning, design and implementation approaches, including but not limited to co-creation and/or citizen engagement, modelling and AI, digital and smart enforcement tools, dynamic space reallocation, with a view to reduce road safety risks, reducing exposure to air and noise pollution and the perceived feeling of unsafety for pedestrians and cyclists;
- Re-assess road and public space quality responding to needs of diverse groups (examples include but are not limited to: women, children, people with disabilities and older people); actions may include but are not limited to improving data collection for foot, bike and e-scooter traffic as well as the mechanisms for reporting pedestrian and cyclists, e-scooter injuries and deaths;



HORIZON-MISS-2022-CIT-01-01

- Address proactively potential risk raised by expected increases in cycling and e-scooters;
- Rebalancing the attribution of public space to different modes of transport so that it better reflects the actual or desired local modal split as well as support reaching Vision Zero313 and zero-emission objectives, thus increasing road safety and quality of life in cities;
- Public space redesign actions targeted by the awarded projects should consider the circular economy principles, adaptation to climate change (in particular heatwaves), cross-sectoral synergies and not come at the cost of removing or deterioration of parks, trees or green recreational areas.
- Scope: Projects should collect data on differences between patterns, behaviours and habits in relation to the mobility of various categories of vulnerable road users. Such data should where possible, be integrated with cross-domain data, to ensure interdependencies and co-benefits are identified. Projects should identify specific mobility needs and public space re-design needs, taking into account actual and perceived safety and security of women, children and accessibility for people with disabilities e.g. blind people in shared spaces, people in prams, wheelchairs and other supporting vehicles. Measures should be taken to implement necessary changes within the timeline of the project.





Q&A

Time to ask your
questions!

Thank you!



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