EU Missions Info Days, 19.01.2022

#EUmissions #HorizonEU #MissionCities
Programme of the session

**Moderator:**

Philippe Froissard, Head of Unit DG R&I, Future Urban & Mobility Systems, European Commission

- **100 Climate-neutral and smart cities by 2030 – overview on the Cities Mission**, Matthew Baldwin, Mission Manager, Deputy Director-General DG MOVE, European Commission
- **Horizon Europe Missions 2021-2022 Work Programme** – calls under the Climate-neutral and smart cities Mission
  - Christos Fragakis, Policy Officer DG R&I, Future Urban and Mobility Systems
  - Isabelle Vandoorne, Deputy Head of Unit, DG MOVE, Innovation & Research
  - Keji Alex Adunmo, Policy Officer DG R&I, Future Urban and Mobility Systems
  - Jens Bartholmes, Policy Officer, DG ENER, Innovation, Research, Digitalisation, Competitiveness
  - Laura Hetel, Policy Officer DG R&I, Future Urban and Mobility Systems
- **Questions & Answers**
  - all speakers + Octavia Stepan, Head of Sector, CINEA, Integrated transport and urban mobility
Go to: https://www.sli.do/

Enter code #MISSIONSINFODAY

Choose room: 100 Climate-neutral and smart cities by 2030 Mission
100 Climate-neutral and smart cities by 2030 – overview on the Cities Mission

Matthew Baldwin, Mission Manager, Deputy Director-General DG MOVE, European Commission
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
• Co-benefits – lower air/noise pollution, congestion and road deaths. Lower energy bills and better energy security. Loveable and liveable cities!
• The European Green Deal is set at EU / national level, but will be implemented at local level – particularly in cities and regions: where policy meets people
• Cities have the ambition to go further – but few have declared readiness to be fully climate neutral by 2030. We want to help cities address the barriers they face
OBJECTIVES OF THE MISSION

1. Deliver at least 100 climate-neutral and smart European cities by 2030;

2. Ensure that these cities act as experimentation and innovation hubs to put all European cities in a position to become climate-neutral by 2050.
MAIN ELEMENTS OF THE MISSION

- Climate City Contracts: A Mission label to unlock synergies with other programmes
- Mission Platform: R&I action under Horizon Europe
- Tailor-made help with funding and financing
- Innovative city governance models and citizen engagement
- Common framework for monitoring, reporting and verification
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 in spirit of multi-level governance**, 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
BENEFITS

• Tailor-made advice and assistance from the Mission Platform
• Unlocking additional funding and financing opportunities through a Mission label
• Research & innovation: funding opportunities for cities to be part of large innovation actions, pilot projects and demonstrators
• Support through a national coordination network
• Networking opportunities, learning and exchange of experiences among cities
• Support with involving citizens in decision-making
• High visibility – raising political profile and attractiveness for investment and skilled workers
FUNDING AND FINANCING

• Support expected from different EU funding programmes

• Cooperation with the European Investment Bank Group and national Promotional Institutions (e.g. financial advisory, possibly Blending Facility)

• Private investors (individuals, private companies, commercial banks)

• EU sustainable finance agenda offers new opportunities to encourage investors to invest locally
R&I CONTENT

• Portfolio of R&I activities targeting cities and communities 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
Work Programme – Mission Climate-neutral and smart cities

• Dedicated to the implementation of the Climate-Neutral and Smart Cities Mission

• Topics 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. Cities benefitting from these actions will act as experimentation and innovation hubs for other cities to become climate-neutral by 2050.

• Contributes to the objective of the European Green Deal to make Europe climate-neutral by 2050, 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
Overview of the calls:

**HORIZON-MISS-2021-CIT-02 - Research and Innovation actions to support the implementation of the Climate-Neutral and Smart Cities Mission**

- [status: OPEN; deadline 26.04.2022]
  - HORIZON-MISS-2021-CIT-02-01: Urban planning and design for just, sustainable, resilient and climate-neutral cities by 2030
  - HORIZON-MISS-2021-CIT-02-02: Unleashing the innovation potential of public transport as backbone of urban mobility
  - HORIZON-MISS-2021-CIT-02-03: Framework Partnership Agreement (FPA) for the Climate-Neutral and Smart Cities Mission Platform
  - HORIZON-MISS-2021-CIT-02-04: Positive Clean Energy Districts
  - HORIZON-MISS-2021-CIT-02-05: Global cooperation and exchange on urban climate neutrality

**HORIZON-MISS-2022-CIT-01 - Research and Innovation actions for support the implementation of the Climate-neutral and Smart Cities Mission**

- [opening: 28.04.2022; deadline 06.09.2022]
  - HORIZON-MISS-2022-CIT-01-01: Designing inclusive, safe, affordable and sustainable urban mobility
SYNERGIES WITH OTHER PROGRAMMES FOR CITIES

• The Mission will not replace involvement in other programmes, such as the Covenant of Mayors or Climate Pact, but build synergies with them

• A Mission label will help create funding opportunities in EU and other programmes

• National networks to ensure synergies with national and regional programmes
QUALIFYING CRITERIA

• Population threshold – 50,000 (with some flexibility to bring in cities from all Member States*)
• Stated ambition to achieve climate neutrality by 2030

PRINCIPLES – Inclusiveness, diversity, geographical balance

ASSESSMENT CRITERIA INCLUDE

• cities’ level of ambition and preparedness (but not just “usual suspects”)
• true geographic diversity – from south and east of Europe, not just north and west
• cities’ commitment to involving citizens and stakeholders

Based on an assessment by independent experts, the Commission services will choose the 100 cities

* Cities from countries with less than five cities of more than 100,000 inhabitants (Croatia, Cyprus, Estonia, Ireland, Latvia, Lithuania, Luxembourg, Malta, Slovenia, Slovakia) may express their interest if they have more than 10,000 inhabitants
HOW WILL THE APPLICATION PROCESS WORK?
CALL FOR EXPRESSION OF INTEREST


• Online questionnaire to be filled in by city authorities
• Constitutes city’s explicit request to join the Mission
• More than 300 cities registered to receive information about the Call
WEBINARS ON HOW TO FILL IN THE QUESTIONNAIRE FOR THE EXPRESSION OF INTEREST

Upcoming: 21 January 2022 14:00 Webinar Q&A w/ Mission Manager & team (no registration needed)

Webinar recordings:

Eligibility, climate neutrality targets, ambition, current level of emissions
https://www.youtube.com/watch?v=-_GP5ZH2ylA

Existing plans, initiatives
https://www.youtube.com/watch?v=z8MEg3cT2Ws

Finance, governance, partnerships, capacity, barriers, risk and assistance needs
https://www.youtube.com/watch?v=1swKUw_1weg

INFO-KIT FOR CITIES
LINKS AND CONTACT

Register and respond to the Call for Expression of Interest:
https://ec.europa.eu/eusurvey/runner/CNC-Pre-Registration

Register to the Cities Mission newsletter:
https://ec.europa.eu/newsroom/rtd/user-subscriptions/2551/create

Email for questions on the Cities Mission:
RTD-HORIZON-EUROPE-MISSION-CITIES@EC.EUROPA.EU

Email for questions on the Call for Expression of Interest questionnaire:
EC-CITIES-MISSION@ec.europa.eu

Frequently Asked Questions:

Web page:
Go to: https://www.sli.do/

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Choose room: 100 Climate-neutral and smart cities by 2030 Mission
Horizon Europe Missions 2021-2022 Work Programme

Calls under the Climate-neutral and smart cities Mission
Work Programme – Mission Climate-neutral and smart cities

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HORIZON-MISS-2021-CIT-02-01

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

Projects expected to contribute to all **expected outcomes**:

- **Innovative** urban planning and design **practices**, fostering **co-created and holistic systemic interventions**, mainstreaming **local “knowledge”**, making effective use of **digitisation** and capable of triggering **behavioural and lifestyles changes**;

- Transparent and efficient **decision-making processes**, innovative **collaborative methods**, **technological innovations**, **data-driven approaches** and enhanced **cross-sectoral integration**;

- Effective **management of trade-offs**, **ownership**, **engagement** and **empowerment** of authorities, stakeholders and citizens;

- More **equitable, just and optimal use of urban spaces** integrating well-balanced built/green/blue/accessible infrastructures and NBS;

- Contribution to **Cities Mission, relevant policy frameworks** and **EU partnership (DUT)**;
HORIZON-MISS-2021-CIT-02-01: Urban planning and design for just, sustainable, resilient and climate-neutral cities by 2030

Scope:

To support diverse range of urban areas across Europe to identify, plan, design, fund, roll out and replicate solutions and measures for climate neutrality, sustainability and resilience and significantly reduce (by at least 55%) GHG emissions across the most relevant sectors by 2030.

• Proposals to:
  • set up innovative and integrated urban planning and design practices involving new collaborative frameworks (co-creation, living labs etc.), tools for visualising, modelling, predicting, stimulating and analysing scenarios, fostering full engagement of citizens and triggering behavioural and lifestyles changes
  • prioritize to the greatest extent possible nature-based solutions and ecosystem-based approaches
  • engage in ambitious outreach, communication, dissemination and training activities
  • Explore, plan, undertake and report on activities for synergies, collaboration, clustering and twinning activities with like-minded projects under this topic, other relevant topics and mission project portfolio
HORIZON-MISS-2021-CIT-02-01: Urban planning and design for just, sustainable, resilient and climate-neutral cities by 2030

Scope:
• Pilot in at least four lead cities (more than 50,000 inhabitants and committed to implement agreed solutions during the life of the project) together with at least four replication/follower cities, each situated in different Member States or Associated Countries to demonstrate how planning can be optimally deployed to develop and implement their climate action plans.

• Replication/follower cities: no need for 50,000 inhabitants; no commitment for implementation of agreed solutions; by the end of the project urban plans for climate neutrality, urban sustainability and resilience no later than 2050.
HORIZON-MISS-2021-CIT-02-01: Urban planning and design for just, sustainable, resilient and climate-neutral cities by 2030

Type of action: IA; Indicative budget: 35 M€; Expected EU contribution/project: 11–12 M€

Eligibility:

• Pilot in at least four lead cities situated each in different Member States or Associated Countries

• Copernicus and/or Galileo/EGNOS must be used for satellite-based earth observation, positioning, navigation

Specific conditions:

• Collaboration with the Mission Platform formalised through a MoU;

• Ineligible costs: funding for major infrastructure works (Infrastructures deployed to improve the long-term functionality, sustainability, resilience and liveability of the city with impact well beyond R&I needs of the project)
HORIZON-MISS-2021-CIT-02-02

Unleashing the innovation potential of public transport as backbone of urban mobility
Expected outcome

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

• a convincing approach to explore, test and evaluate the resilience and adaptability of urban public transport;

• improve the offer and attractiveness;

• 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;

• Increase the share of public transport (modal split) by 30% in the cities involved in the projects; Increase user satisfaction with public transport by 25% compared to the baseline;

• Identify lessons and mutual learning facilitating replication, upscaling and up-taking of the tested blueprints;
HORIZON-MISS-2021-CIT-02-02 – Unleashing the innovation potential of public transport as backbone of urban mobility

**Scope:**

- PT to include the needs of pedestrians, cyclists, scooters etc.; PT to be understood in a broad sense including peri-urban areas and commuter belt.
- Min 4 cities from different Countries together with min 4 twinning cities to test and implement packages of innovations and measures to improve the PT offer in line with citizens’ needs. The packages should combine “push measures” with “pull measures”. Appropriate geographical balance
- To produce a comprehensive SUMP topic guide on public transport.
- Evaluation; common lesson learning, outreach, communication, dissemination and training activities
- Collaboration between projects through CIVITAS and with the Mission, but also with other EU initiatives
HORIZON-MISS-2021-CIT-02-02 – Unleashing the innovation potential of public transport as backbone of urban mobility

**Type of action:** Innovative Actions

**Indicative budget:** EUR 40.00 million

**Expected EU contribution per project:** btw 12.00 to 20.00 (3 projects expected)

**Deadline:** 26.04.2022

**Specific conditions:** Applicant cities must have a Sustainable Urban Mobility Plan (SUMP), fully developed or in the preparatory phase, and project actions should link to it.
HORIZON-MISS-2022-CIT-01-01

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

Expected outcome

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

- Promotion of zero-emission, shared, active and human-centred mobility;
- Increase of the take-up and upscaling of solutions in the living labs involved in the proposals (min 4 cities/project and 4 follower cities);
- Solutions for at least 10 (unsafe) areas/living labs using innovative planning, design and implementation approaches, modelling and AI, digital and smart enforcement tools, dynamic space reallocation;
- Re-assessment of road and public space quality responding to needs of diverse groups; addressing proactively potential risk raised by expected increases in cycling and e-scooters; rebalancing the attribution of public space to different modes of transport;
- Considering the circular economy principles, adaptation to climate change, cross-sectoral synergies.
HORIZON-MISS-2022-CIT-01-01 – Designing inclusive, safe, affordable and sustainable urban mobility

Scope:

• collect data on differences between patterns, behaviours and habits.
• identify specific mobility needs (e.g. women, children, pers w disab) and public space re-design needs.
• provide clear guidance on how to systematically incorporate the vulnerable road users dimension into infrastructure planning, etc.
• lessons learnt during Covid -> propose suitable solutions for resilience, safety and accessibility of public infrastructure.
• A thorough evaluation on the results of the local solutions implemented + mechanisms for common lesson drawing and learning incl. through the CIVITAS Initiative.
• SUMI, SUMP coordination platform, ELTIS, thematic SUMP topic guides.
• Collaboration between projects through CIVITAS and with the Mission, but also with other EU initiatives
HORIZON-MISS-2022-CIT-01-01 – Designing inclusive, safe, affordable and sustainable urban mobility

**Type of action:** Innovation Actions

**Indicative budget:** EUR 42.00 million

**Expected EU contribution per project:** between EUR 8.00 and 12.00 million (4 projects expected)

**Deadline:** 6.09.2022

**Specific conditions:**
Applicant cities must have a Sustainable Urban Mobility Plan (SUMP), fully developed or in the preparatory phase, and project actions should link to it.
HORIZON-MISS-2021-CIT-02-03

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

Expected outcome (1/2)

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 the **Mission Platform**: tailor-made services to up to 150 cities participating in the Mission (technical, regulatory, financial and socio-economic expertise as well as assistance for developing and implementing the CCC). Complement & scale-up existing services developed by the NetZeroCities project funded under the Horizon 2020 Green Deal call.

• **Consolidated science-based indicators and a common monitoring**, reporting and verification framework for the cities participating in the Mission.

• Smart and customised **access** for cities to the best available research, expertise, tools and technologies
HORIZON-MISS-2021-CIT-02-03: Framework Partnership Agreement (FPA) for the Climate-Neutral and Smart Cities Mission Platform

Expected outcome (2/2)

- Establish and follow a **common CCC process for Mission cities**. Share experiences and good practices and engage in **mutual learning**, including **twinning** opportunities.
- Calls for proposals launched to support **large-scale pilots** for the deployment in participating Mission cities of systemic solutions.
- **Web-based services** and **assistance** to cities with target beyond 2030 but ready to commit to accelerate their transition to climate neutrality in line with the Cities Mission principles.
- Close **coordination** with the European Commission to ensure alignment to the latest policies and initiatives.
HORIZON-MISS-2021-CIT-02-03: Framework Partnership Agreement (FPA) for the Climate-Neutral and Smart Cities Mission Platform

Scope:

- FPA to establish the necessary framework and collaboration for scaling up and implementing concept and activities of a Mission Platform and to fully integrate this platform into the Cities Mission.

- Partners should possess good knowledge and expertise in European urban programmes and initiatives, urban planning, technological innovation for climate neutrality, social innovation and stakeholder engagement, knowledge valorisation and transfer, and funding and financing programmes such as Horizon Europe, EU structural funds, EIB, EBRD etc. Build on the experience developed by European and international umbrella organisations and networks such as the EIT-KICs, C40, Eurocities, CIVITAS, POLIS, ENoLL, Covenant of Mayors Europe/ Global Covenant of Mayors, European Digital Innovation Hubs, ICLEI etc.

- Partners should develop a draft action plan to broadly address the main building blocks of the FPA:
  - 1) Development, up-scaling of the concept of a Mission Platform and plan for the implementation of its associated services;
  - 2) Co-creation of Climate City Contracts for the cities participating in the Mission;
  - 3) Assistance and preparation of tailor-made investment plans, project preparation and finance for the cities participating in the Mission;
  - 4) Launch and management of calls for large scale EU R&I demonstrators accelerating city climate-neutrality solutions.

- Only one FPA will be established, duration of five years, until end of Horizon Europe
HORIZON-MISS-2021-CIT-02-03: Framework Partnership Agreement (FPA) for the Climate-Neutral and Smart Cities Mission Platform

Type of action: Framework Partnership Agreement

Indicative budget: N/A

Deadline: 26.04.2022

Specific conditions: FPA will be linked to projects funded in the calls (HORIZON-MISS-2021-CIT-02-01; HORIZON-MISS-2021-CIT-02-02; HORIZON-MISS-2021-CIT-02-04; HORIZON-MISS-2022-CIT-01-01)

- collaboration between the Mission Platform and these projects is essential to identify complementarities, avoid potential overlaps and ensure synergies among these projects. The collaboration should be formalised through a Memorandum of Understanding to be concluded as soon as possible after the projects starting date. For projects funded under topics HORIZON-MISS-2021-CIT-02-02 and HORIZON-MISS-2022-CIT-01-01, the MoU should be established through the CIVITAS initiative.
Other Actions not subject to calls for proposals

**Specific Grant Agreements to the Framework Partnership Agreement (FPA) for the Climate-Neutral and Smart Cities Mission Platform**

The consortium of the selected Framework Partnership Agreement (FPA) for the Climate-Neutral and Smart Cities Mission Platform will be invited to submit a proposal for a Specific Grant Agreement (SGA) for the first period of the partnership (2022-2024) addressing all the FPA building blocks:

1. Develop and scale-up the concept of a Mission Platform and its associated services
2. Co-creation of Climate City Contracts
3. Tailor-made investment plans, project preparation and finance
4. Large scale EU R&I demonstrators accelerating city climate-neutrality solutions

**Specific conditions:**

- Provision of financial support to third parties under Activity 4 "Large scale EU R&I demonstrators accelerating city climate-neutrality solutions" [max amount to be granted to each third party is EUR 1.5 million]

**Type of Action:** SGA/RIA

**Indicative timetable:** Third quarter of 2022

**Indicative budget:** EUR 81.00 million
HORIZON-MISS-2021-CIT-02-04

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

Expected outcome

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

- Large-scale demonstration and implementation of Positive Clean Energy Districts (PED)
- Projects at district scale and with long-term strategies in order to make cities more livable, healthier, resource efficient and climate-neutral
- Build on experience, e.g. H2020 Lighthouse projects cluster, and the Smart Cities Marketplace
- Collaborative structures that bring together all important actors needed to realize PEDs
- Paradigm shift from demonstration project to mainstreamed long-term city transformation
- City alliances to enhance opportunities for accessing knowledge
HORIZON-MISS-2021-CIT-02-04: Positive Clean Energy Districts

Scope:
Contribute to the twin green and digital transitions promoted by the European Green Deal

• Analyse main aspects of successful conception and roll-out of PEDs
• Combinations of demand measures and supply measures at district scale to identify the best cost-effective mix
• Synergies between the built environment, energy communities, active and e-mobility, smart grids and energy storage.
• Key elements of replicability for scaling up Positive Clean Energy Districts
• Business models and governance structures that are best suited for PED
• Management, platforms, co-creation and communication strategies
• Storage, grid and cybersecurity solutions
HORIZON-MISS-2021-CIT-02-04: Positive Clean Energy Districts

**Type of action:** Innovation Action

**Indicative budget:** EUR 40 million

**Expected EU contribution per project:** EUR 15 to 20 million

**Deadline:** 26 Apr 2022

**Specific conditions:** All applying cities must have a Sustainable Energy and Climate Action Plan (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).
Global cooperation and exchange on urban climate neutrality
HORIZON-MISS-2021-CIT-02-05 – Global cooperation and exchange on urban climate neutrality

**Expected outcome**

Project results are expected to contribute to all 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 R&I).
HORIZON-MISS-2021-CIT-02-05 – Global cooperation and exchange on urban climate neutrality

Scope

• Coordinate the international outreach of the Cities Mission thus complementing the activities of the Mission Platform being set up by NetZeroCities

• Support cooperation and knowledge exchange actions for the global mission on Urban Transitions under Mission Innovation

• Set up a Global Knowledge Exchange Centre on emissions reduction pathways for urban environments that caters to a wide spectrum of European and international stakeholders
  • geographically and thematically structured repository of evaluated best practices
  • moderated learning community to facilitate two-way knowledge exchanges
  • database of advising services and funding opportunities

• Communicate milestones under the Cities Mission to international audiences
Type of action: Coordination and support action

Indicative budget: EUR 2 million

Expected EU contribution per project: EUR 2 million

Deadline: 26 April 2022

Specific conditions: The following exceptions apply: Legal entities established in non-associated third countries may exceptionally participate in this Coordination and support action.
Other Actions not subject to calls for proposals

Grants to identified beneficiaries

• Specific Grant Agreements to the Framework Partnership Agreement (FPA) for the Climate-Neutral and Smart Cities Mission Platform

• Global Mission on Urban Transitions under Mission Innovation

Scientific and technical services by the Joint Research Centre

• Scientific and technical services to the Climate-Neutral and Smart Cities Mission
<table>
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<tr>
<th>Project Description</th>
<th>Funding scheme</th>
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**Funding & Tender portal**

- More info on [Horizon Europe](#)
- Check the open and forthcoming calls on the [Portal](#)
- Check the [FAQ](#)
- Contact the [Research Enquiry Service (RES)](#)
- Contact the [National Contact Points (NCPs)](#)
Go to: https://www.sli.do/

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Choose room: 100 Climate-neutral and smart cities by 2030 Mission