



Misiones Horizonte Europa: "Mission on Cities" Convocatorias 2021





Misiones en Horizonte Europa

Cartera de acciones t<u>ransdisciplinares</u>, de <u>plazo determinado</u>, con <u>meta audaz e</u> <u>inspiradora</u> y de <u>éxito cuantificable</u>, que tiene un <u>impacto en la sociedad y la</u> ciudadanía.

Programa orientado a soluciones – Acercar la I+D+i a los ciudadanos





100 Climate Neutral and Smart Cities by 2030



22 September 2020 – Interim Report from Mission Board

- Process formalised in a Climate City Contract
- **Co-design and co-implementation with citizens**, as users, producers, consumers and owners
- Removal of barriers to participatory governance
- Help for cities to design an investment strategy and access to funding
- Cross-sectoral and **systemic transformation**, encompassing transport, energy, built environment, digitalisation, etc

29.09.2021: Official launch of the EU Mission on Climate Neutral and Smart Cities and publication of the mission implementation plan Implementation Plan - master copy 19 05 (europa.eu)



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 will play a crucial role in reaching the targets of the Green Deal



Objectives of the Cities Mission

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

Ensure that these cities act as experimentation and innovation hubs to put all European cities in a position to become climate-neutral by 2050



How can a city participate in the Cites Mission?

Timeline of the Expression of Interest and selection process



377 cities have applied to the Call for Eol

The selected cities will move on to the next phase, which will consist in the development of the **Climate City Contract**



Benefits of becoming a Mission City:

The main benefits of being among the cities joining teh Mission are:

- ✓ **Tailor-made advice** and assistance from the Mission Platform
- ✓ Unlocking additional funding and financing opportunities through a Mission Label
- Research and 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
- ✓ High visibility



Main elements of the Cities Mission



Common framework for monitoring, reporting and verification



Mission Platform



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- Run by the NetZeroCities consortium who start work 1.10.2021. Develop a <u>one-stop shop platform</u> to help cities implement their climate action plans and related social innovation action plans providing the necessary technical, <u>regulatory, financial and socio-economic expertise and assistance</u>.
- ✓ Project "NetZeroCities" (funded under Horizon 2020) <u>will implement the first</u> <u>phase of the Mission Platform</u>. Stable long-term structure to be set-up under Horizon Europe in 2022
- ✓ 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 Contract

- Tailor-made help Climate City Mission Platform with funding and Contracts financing A Mission label to Innovative city unlock synergies governance mode **R&I** Actions with other and citizen programmes engagement Common framework for monitoring reporting and verification
- ✓ Non legally binding Memorandum of Understanding
- ✓ Tailor-made plans on how to reach climate neutrality, adapted to the individual needs of the city, <u>supported by the Mission Platform</u>
- ✓ Visible political commitment to the EC, national and regional authorities and to citizens
- ✓ 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





✓ A LABEL will be awarded to the selected cities that have signed a CCC

✓ It will facilitate access to EU funding programmes

A Mission LABEL

✓ It will offer an opportunity for regions and Member States to support highly visible activities on climate neutrality.



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

Horizon Europe will **invest around €350 million in research and innovation actions linked to the Cities Mission** (e.g. in mobility, energy, urban planning) **in the period 2021-23.**

A first <u>full work programme</u> was published on **15 December 2021**





HE - Work Programme for Cities Mission – Call 2021

Topics	Type of Action	Budget M.€	EU Contribution per topic M.€	No projects expected to be funded
Opening: 11 Jan 2022 Dead	lline(s): 26	Apr 2022		
HORIZON-MISS-2021-CIT-02-01: Urban planning and design for		ľ		
just, sustainable, resilient and climate-neutral cities by 2030	IA	35	11.00 to 12.00) 3
HORIZON-MISS-2021-CIT-02-02: Unleashing the innovation				
potential of public transport as backbone of urban mobility	IA	40	12.00 to 20.00) 3
HORIZON-MISS-2021-CIT-02-03: Framework Partnership				
Agreement (FPA) for the Climate-Neutral and Smart Cities Missior	า			
Platform	FPA	0		1
HORIZON-MISS-2021-CIT-02-04: Positive Clean Energy Districts	IA	40	15.00 to 20.00	2
HORIZON-MISS-2021-CIT-02-05: Global cooperation and				
exchange on urban climate neutrality	CSA	2	2.00) 1
Opening: 28 Apr 2022 Dead	lline(s): 06	Sep 2022		
HORIZON-MISS-2022-CIT-01-01: Designing inclusive, safe,				
affordable and sustainable urban mobility	IA	42	8.00 to 12.00) 4



HE - Work Programme for Cities Mission – Call 2021

- Significant contribution to the objetives of:
- European Green Deal <u>https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal_en</u>
- UN Agenda 2030 <u>https://sdgs.un.org/2030agenda</u>
- EU Zero-Pollution Action Plan <u>https://ec.europa.eu/environment/strategy/zero-pollution-action-plan_en</u>
- Fit for 55 strategy <u>https://ec.europa.eu/commission/presscorner/detail/en/ip_21_3541</u>
- **Biodiversity Strategy** <u>https://ec.europa.eu/environment/strategy/biodiversity-strategy-2030_en</u>
- EU Strategy on adaptation to climate changes <u>https://ec.europa.eu/clima/policies/adaptation/what_en</u>
- New European Bauhaus Initiative <u>https://europa.eu/new-european-bauhaus/index_en</u>



HORIZON-MISS-2021-CIT-02-01:

<u>Urban planning and design for just, sustainable,</u> resilient and climate-neutral cities by 2030



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

- Transparent and efficient decision-making processes; innovative collaborative methods; technological innovations; data-driven approaches and enhanced cross-sectoral integration
- Effective management of trade-offs and ownership; engagement and empowerment of stakeholders, citizens and inhabitants
- Innovative urban planning and design practices, behavioural and lifestyles changes and fostering co-created approaches, holistic responses to interlinked challenges within a city, and effective use of digital tools.
- ✓ Solutions that ensure a more equitable, just, synergetic and optimal use of urban spaces
- ✓ Contribution to Cities Mission, relevant policy framework and EU-Partnership -DUT



SCOPE:

support a diverse range of **urban areas** across Europe, 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 (by at least 55%)** across the most relevant sectors by 2030.

Proposals to:

- set up innovative and integrated urban planning and design practices involving new collaborative frameworks (living labs, co-creation ...), tools and methods 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 the deployment of biodiversity-friendly naturebased 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 other relevant like-minded projects under this topic, other relevant topics and mission project portfolio.



SCOPE:

- Pilot demonstrations in at least four cities (more than 50 000 inhabitants and committed to implement agreed solutions during the life of the project) together with <u>at least four</u> follower cities, situated each in different Member States or Associated Countries, to <u>demonstrate how planning can be deployed to develop and implement their climate</u> <u>action plans</u>.
- Follower cities: no need for more than 50 000 inhabitants, no commitment on implementation agreed solutions, by the end of the project urban plans for climate neutrality, urban sustainability and resilience no later than 2050.



Type of Action: IA; Indicative Budget: €35M; Expected EU contribution/project: 11-12 M€

Deadline: 26 April 2022

Eligibility Conditions:

- Each project must include pilot demonstrations in at least four 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 and/or related timing data and services.
- ✓ The JRC may participate as member of the consortium selected for funding.

Specific Conditions:

- ✓ Collaboration with the Mission Platform **formalized through a MoU**
- ✓ <u>Ineligible costs</u>: Funding for major infrastructure works (Infrastructure deployed to improve the long-term functionality, sustainability, resilience and liveability of the city with impact beyond the R&I needs of the project)

HORIZON-MISS-2021-CIT-02-02:

Unleashing the innovation potential of <u>public</u> <u>transport</u> as backbone of urban mobility



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
- using innovative co-creation methods involving a wide range of stakeholders, improve the overall public transport offer and its 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 in the modal distribution of motorized transportation by approximately 30%
- ✓ Increase user satisfaction with public transport by 25%
- ✓ Identify lessons and mutual learning facilitating replication, upscaling and up-taking of the tested blueprint



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

Scope:

- ✓ Urban public transport to *include the needs of pedestrians, cyclists, scooters* etc and need to be understood in a **broad sense** including peri-urban areas and commuter belt
- ✓ Public transport to increase the uptake of replicable public transport solutions in the living labs involved in the proposals
- ✓ enhance the public transport share in the modal distribution by 30% compared to the baseline defined for each experimentation site
- Min 4 cities from different Member States or Associated Countries together with at least 4 twinning cities, to test and implement packages of technological and non-technological innovations and policy-based measures to improve the public transport offer in line with citizens' needs
- ✓ The packages should combine "push measures" with "pull measures". Ensure an appropriate geographical balance
- ✓ Produce a comprehensive SUMP topic guide on public transport
- ✓ 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: Innovation Action

Indicative Budget: EUR 40 million

Deadline: 26 April 2022

Expected EU contribution/project: between EUR 12.00 to 20.00 million (3 projects expected)

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 escooters; rebalancing the attribution of public space to different modes of transport;
- Considering the circular economy principles, adaptation to climate change, crosssectoral 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 redesign needs.
- ✓ Provide clear guidance on how to systematically incorporate the vulnerable road users dimension into infrastructure planning, etc,...
- ✓ Lesson 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 Action

Indicative Budget: EUR 42 million

Expected EU contribution/project: between EUR 8.00 to 12.00 million (4 projects expected)

Deadlines: 06.09.2022

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:

<u>Framework Partnership Agreement (FPA)</u> 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

The Framework Partnership Agreement is expected to **create the framework conditions** and **engage the needed competencies** to contribute to all of the following <u>expected outcomes</u>:

- Operation Mission Platform: tailormade 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 and scale-up existing services developed by NetZeroCities project funded under the Horizon 2020 Green Deal call
- Consolidated science-based indicators and a common monitoring, reporting and verification framework
- Smart and customised access for cities to the best available research, expertise, tools and technologies
- \checkmark Establish and follow a **common CCC process** for the cities participating in the Mission
- ✓ Calls for proposals are launched to support large-scale pilots for the deployment of systemic solutions
- ✓ Web-based services and assistance to cities with targets beyond 2030
- 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 the 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, social innovation,... and funding and financing programmes Horizon 2020, 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 on which the FPA will operate, in particular:
 - Development, up-scaling of the concept of a Mission Platform
 - Co-creation of Climate City Contracts for the cities participating in the Mission;
 - Assistance and preparation of tailor-made investment plans, project preparation and finance for the cities
 - Launch and management of calls for large scale EU R&I



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

Only one FPA will be established, duration of 5 years, until end of Horizon Europe

Type of Action: Framework Partnership Agreement (FPA)

Deadline: 26 April 2022

Budget: N/A

Specific conditions: FPA will be <u>linked to projects funded</u> 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 the projects funded under the above mentioned topics is essential to <u>identify complementarities</u>, avoid potential overlaps and <u>ensure synergies among these projects</u>. The collaboration should be formalised through a **Memorandum of Understanding** to be concluded as soon as possible after the projects starting date. In the case of 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.

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Other Actions not subject to calls for proposals Grants to identified beneficiaries

1. Specific Grant Agreements (SGA) 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 is invited to submit a proposal for a Specific Grant Agreement (SGA) for the <u>first period of the partnership (2022-2024</u>) addressing all the FPA buildings 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 financial support to third parties under Activity 4. "Large scale EU R&I demonstrators accelerating city climate-neutrality solutions" (**the maximum amount to be granted to each third party is EUR 1.5 million**)

Indicative timetable: Third quarter of 2022

Indicative budget: EUR 81.00 million from the 2022 budget



HORIZON-MISS-2021-CIT-02-04:

Positive Clean Energy Districts



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

Expected Outcome: Projects are expected to contribute to **all the following outcomes**:

- ✓ <u>Large-scale demonstration</u> and implementation of Positive Clean Energy Districts
- Projects at <u>district scale with long-term strategies</u> 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
- ✓ <u>Collaborative structures</u> that bring together all important actors needed to realize Positive Clean Energy Districts
- ✓ <u>Build on experience</u>, e.g. Horizon 2020 Lighthouse projects cluster, the Smart Cities Marketplace
- ✓ Paradigm shift <u>from demonstration</u> project to mainstreamed <u>long-term city</u> <u>transformation</u>
- ✓ <u>City alliances</u> to enhance opportunities for accessing knowledge.



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

SCOPE:

The topic will thus contribute to the **twin green and digital transitions**

- ✓ Analyse the main aspects of successful conception and roll-out of Positive Clean Energy Districts
- Combinations of <u>demand measures and supply measures</u> at district scale to identify the best cost-effective mix
- ✓ <u>Synergies</u> between the built environment, energy communities, active and e-mobility, smart grids and energy storage.
- ✓ Key elements of <u>replicability</u> for scaling up Positive Clean Energy Districts (for example, open standards, open source tools, interoperability solutions..)
- ✓ <u>Business models and governance structures</u> that are best suited for PCED
- ✓ Test and adapt management platforms, co-creation and communication strategies
- ✓ Storage, grids, and cybersecurity solutions



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

Type of Action: IA;

Indicative Budget: EUR 40 million

Deadline: 26 April 2022

Expected EU contribution/project: EUR 15 to 20 million

Eligibility 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)

Specific Conditions:

✓ Collaboration with the Mission Platform **formalized through a MoU**



HORIZON-MISS-2021-CIT-02-05:

<u>Global cooperation</u> 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 <u>management and transfer of global knowledge</u> on the topic of climate action in cities, helping cities move closer to climate neutrality;
- Increase the <u>visibility of the EU and its cities</u> as frontrunners and collaborationminded partners in urban climate action;
- <u>Contribute to the implementation of EU policy</u> and international commitment (European Green Deal, Global Approach to Research and Innovation).



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

SCOPE:

- ✓ <u>Coordinate the international outreach activities</u> of the Cities Mission, thus expanding and <u>complementing</u> the activities of <u>the Mission Platform</u>
- ✓ <u>Support cooperation and knowledge exchange actions</u> for the global mission on "<u>Urban</u> <u>Transitions</u>" set up under Mission Innovation
- Set up a <u>Global Knowledge Exchange Centre (Global Platform)</u> on emissions reduction pathways for urban environments that cater to a wide spectrum of European and international stakeholders:
 - geographically and thematically structured <u>online repository</u> of evaluated best practices
 - moderated <u>learning community</u> to facilitate two-way exchanges
 - data base of <u>advising services and funding opportunities</u>
- ✓ Communicate experiences and milestones under the Cities Mission to International audiences



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

Type of Action: Coordination and support action

Indicative Budget: EUR 2 million

Deadline: 26 April 2022

Expected EU contribution/project: EUR 2 million

Eligibility Conditions:

Legal entities established in non-associated third countries may exceptionally participate in this Coordination and support action.



Contribution from HE

Strong contribution to the implementation of the Cities Mission is expected from relevant HE partnerships:

- Built4People Cluster 5- HE- Destination 4
- 2Zero Zero Emission Road Transport Cluster 5- Destination 5
- CCAM Connected, Cooperative and Automated Mobility Cluster 5- Destination 6
- DUT Driving Urban Transition Partnership co-fund

Contribution to the implementation of the Cities Mission is expected from the European Institute of Innovation and Technology (EIT) and its Knowledge and Innovation Communities (KICs):

- EIT Climate KIC,
- EIT InnoEnergy
- EIT Urban Mobility



More information

Webinars European Commission

- How to prepare a successful proposal in Horizon Europe (24 March 2021)
- <u>A successful proposal for Horizon Europe</u> (21 April 2021)
- <u>The Funding & tenders Portal for beginners</u> (27 May 2021)
- Dissemination, Communication and Exploitation (9 June 2021)
- Tips and Tricks while writing your Horizon Europe proposal (23 June 2021)
- <u>New features Funding & Tenders Portal (</u>28 September 2021)
- Avoiding errors in declaring personnel costs in Horizon 2020 grants (30 September 2021)
- Horizon Results Booster (5 October 2021)

Commission Infoday for EU MISSIONS (18-19 January 2022)

- EU Missions info days | European Commission (europa.eu)
- EU Missions info days 100 Climate-Neutral and Smart cities by 2030 Mission YouTube

Infoday Cluster 5 (12 May 2021)

<u>https://eventos.cdti.es/ES/JornadaHorizonteEuropaCluster5</u>

Cities Mission Web Page:

https://ec.europa.eu/info/horizon-europe/missions-horizoneurope/climate-neutral-and-smart-cities

NetZeroCities:

www.netzerocities.eu





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Mantente informado a través del Portal español de Horizonte Europa

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