CLUSTER 5

CLIMATE

ENERGY

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HORIZON EUROPE INFO DAYS 2021

MULTIMODAL AND SUSTAINABLE TRANSPORT SYSTEMS FOR PASSENGERS AND GOODS

HORIZON-CL5-2021-D6-01-07 and HORIZON-CL5-2021-D6-01-08

Paola CHIARINI

DG MOVE policy officer

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HORIZON-CL5-2021-D6-01-07

More efficient and effective multimodal freight transport nodes to increase flexibility, service visibility and reduce the average cost of freight transport

Scope

Proposals should research and demonstrate all of the following points:

- Demonstrate and quantify the benefits of using different intermodal transport units (ITUs) and innovative automated loading systems to support multimodal logistics operations. International cooperation on standardisation of ITUs is encouraged.

- Deploy and demonstrate advanced cooperative logistics IT solutions in actual operational environment (minimum at TRL 7) focusing on better integration of the nodes in overall supply chains and the accessibility and usability of node services in an automated/digital manner, with a user perspective approach.

- Demonstrate the effectiveness of new business models and collaborative approaches to support cooperative logistics operations with focus on the provision of open logistics nodal services.
Expected outcomes

- More **efficient, effective and sustainable** management of goods and freight flows in (air)ports and inland terminals, taking into account **all costs** (economic, social and environmental).

- **Expanded throughput** of the nodes thanks to increased **operational efficiency** and **optimised use of assets and infrastructures**, without expanding the physical facilities.

- Improved **access to transhipment** services at reduced costs.

- More **visible and standardised services** to boost shifting cargo to more efficient and sustainable transport modes.

- Increased **automation, digitalisation, standardisation and interoperability** of processes, technologies and equipment, particularly **intermodal transport units (ITUs)** and cargo transport/transhipment procedures.

- **Better integration** of the various freight transport nodes into overall logistic chains.
HORIZON-CL5-2021-D6-01-07

More efficient and effective multimodal freight transport nodes to increase flexibility, service visibility and reduce the average cost of freight transport

**Type of action:** Innovation Actions

**EU contribution:** between EUR 7.00 and 8.00 million

**Deadline:** 19 October 2021 17:00:00 Brussels time
HORIZON-CL5-2021-D6-01-08

New delivery methods and business/operating models to green the last mile and optimise road transport

Scope

- Address both methodological and technical/vehicle aspects of cargo bikes to help optimising last mile deliveries, where the benefits and how it can be replicated across several cities.
- Consider demonstrating cleaner modes for last mile transport vehicles (e.g. electric assisted 2/3/4-wheel cycles) while testing innovative tools e.g. dynamic e-routing, load policies, multi/single-brand parcel lockers, etc. to measure their effects on reducing empty miles and congestion.
- Pilot cooperation with private logistics operators, local businesses and establish new models for addressing governance and management of logistics operations in urban and peri-urban areas, to achieve cost-efficient and scale up potential and deployment of innovative and sustainable solutions.
HORIZON-CL5-2021-D6-01-08

New delivery methods and business/operating models to green the last mile and optimise road transport

**Scope**

- Evaluate (qualitative and quantitative) **effectiveness of implemented local measures** and the possible **barriers** to their broad take up and deployment, while proposing solutions. Propose mechanisms to **draw lessons common** to other topic-funded projects and the CIVITAS Initiative

- Proposals may include **preparatory, take up and replication** actions, **research** activities, as well as **tools** to support local planning and policy making

- Demonstrate **contribution to implementing the cities’ Sustainable Urban Mobility Plans**. If not already in place, the city can develop a **Sustainable Urban Logistics Plan** or similar tool

- Collaboration with **CIVITAS** and contribution of **SSH** expertise is expected

- **Social innovations** should be considered
New delivery methods and business/operating models to green the last mile and optimise road transport

Expected outcomes

- Take up and upscale innovative, best practice and replicable safe and sustainable last mile solutions in living labs (at least 3 demonstrator cities and 3 follower cities - at least 1 of the living labs and follower cities to be located in areas experiencing rapid economic and social change)

- Develop logistics hubs and micro consolidation centres, cooperating with local authorities to select the location

- Test and deploy new delivery methods (e.g. e-cargo bikes) in at least 3 cities/project

- Optimise urban space, loads and reduce empty miles through dynamic routing, load policies, multi/single-brand parcel lockers and boxes

- Demonstrate cost-efficient, zero-emission modes of last mile transport for urban and peri-urban deliveries in the living labs

- Improve knowledge of user needs, habits and preferences in terms of deliveries by collecting and sharing information amongst public authorities and private companies
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Thank you!

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