



Urban logistics /
Last mile

Asset design,
sharing &
modularity

Multi-Temperature Cargo Body & Optimised Thermal Comfort



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European Union

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Project by : Horizon Europe

SHIFT2ZERO

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MULTI-TEMPERATURE CARGO BODY & OPTIMISED THERMAL COMFORT

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Solution description

Multi-temperature controlled, optimised and energy-efficient cargo body

Integration of movable panels systems and a multi-temperature modular cargo body enabling a solution that can dynamically optimise temperature distribution in the inner compartments using smart sensors integrated with the vehicle's thermal system ensure precise monitoring and control.

Optimised thermal comfort and safe ergonomics in N1 vehicles' cabin

Introduction of an IR Heating Panel, offering a lightweight, energy-efficient solution that quickly heats the cabin to maximise the comfort for drivers and passengers.



Benefits

- Enabling the transport of goods at multiple temperatures in a single trip, increasing delivery efficiency and reducing operational costs.
- Ensuring product integrity, especially for sensitive goods.
- The modular and scalable design allows easy integration into different vehicle types, while energy-efficient technologies support sustainability and lower environmental impact.
- Delivering rapid, even heat distribution for superior passenger comfort with minimal energy use.

Main beneficiaries:

Fleet managers, warehouse owners, cold-chain operators, logistics operators

- Transport dry, refrigerated goods, wines, fresh products;
- Combination of fresh products with parcels through multi-temperature cargo-body;
- Maximise comfort.

Technology readiness level : **TRL 7 / TRL 8**
Implementation stage : **Pilot**

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SMART MULTI-TEMPERATURE CARGO AND CABIN COMFORT SOLUTION

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Use cases

Synchromodality (Wroclaw): Enhancing fleet efficiency by combining parcel and fresh products deliveries with the multi-temperature cargo body, reducing trips and improving resource utilisation.

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