

Urban logistics /
Last mile

Asset design &
modularity



Modular Swappable Load Unit Concept



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European Union

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PAXSTER
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Project by : Horizon Europe

SHIFT2ZERO

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MODULAR SWAPPABLE LOAD UNIT CONCEPT

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Solution description

Modular swappable concept enabling seamless standardised transhipments

An innovative swappable cargo solution designed to streamline package movement across the logistics chain.

Using standardised, modular swap boxes, the system ensures seamless cargo transfers between different vehicle types - ranging from heavy-duty trucks to light electric vehicles and even two- and three-wheelers.



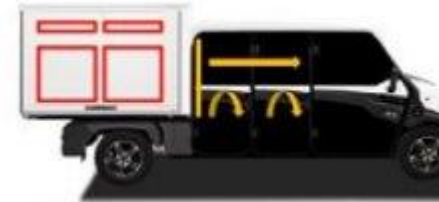
Benefits

- Supporting efficient transhipment at terminals, micro hubs, or vehicle-to-vehicle, aligning with dynamic urban logistics needs and regulations such as LEZs and ZEZs.
- Compatible with different OEMs, it enhances fleet adaptability and facilitates collaborative logistics models.

Main beneficiaries:

- Fleet managers
- Cold-chain operators
- Logistics operators

- Modularity & standardisation
- Seamless transhipment between HDV operations and eLCVs
- Synchromodality to reduce loading and unloading time



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

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Transshipment (Thessaloniki):
Testing dry and refrigerated goods to optimise fluctuating demands and types of deliveries.

Transshipment (Bologna):
Integrating this solution to transport wine and groceries from an urban transshipment hub.

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