



Urban logistics /  
Last mile

Asset design,  
sharing &  
modularity

# Dynamically optimised vehicle space - Dual transport & Cargo Hitching



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Developed by :

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Project by : Horizon Europe

  
**SHIFT2ZERO**

Operational fields

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# DYNAMICALLY OPTIMISED VEHICLE SPACE: DUAL TRANSPORT & CARGO HITCHING

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## Solution description

### Dynamically optimised space in modular 4-6-seater vehicles for dual transport of goods and people

Introducing an innovative dual-use solution for Alkè's 6-seater vehicle, enabling the transport of up to 6 passengers and goods simultaneously.

With foldable seats and a movable protective partition, the vehicle easily transitions between people and cargo transport - maintaining safety, comfort, and efficiency.

Advanced IoT systems ensure secure rental and operation.



## Benefits

- Offering unmatched versatility by combining people and goods transport in a single vehicle.
- Operators can switch functions in real-time, optimizing vehicle use throughout the day.
- By reducing the need for separate vehicles, the solution cuts costs, emissions, and time, supporting more sustainable and agile transport services.

Main beneficiaries:  
Fleet managers, OEMs,  
logistics operators, car sharing  
operators

- Logistics as a service
- Dual transport (freight and people)
- Innovation business model

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

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