



ASSURED Urban Freight Users Group Oslo, 24th of September 2018

Sabina Asanova - VUB

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 769850.





Scope

ASSURED is aimed at boosting the electrification of urban commercial vehicles and their integration with high power fast charging infrastructure.

Duration

Oct 2017 – Sept 2021 [48 Months]

Budget

€ 23.64 million supported by € 18.65 million EU funding

Coordinator

Vrije Universiteit Brussel (VUB)

Partners



What is it about?

1



INTEROPERABILITY

2



FAST-CHARGING

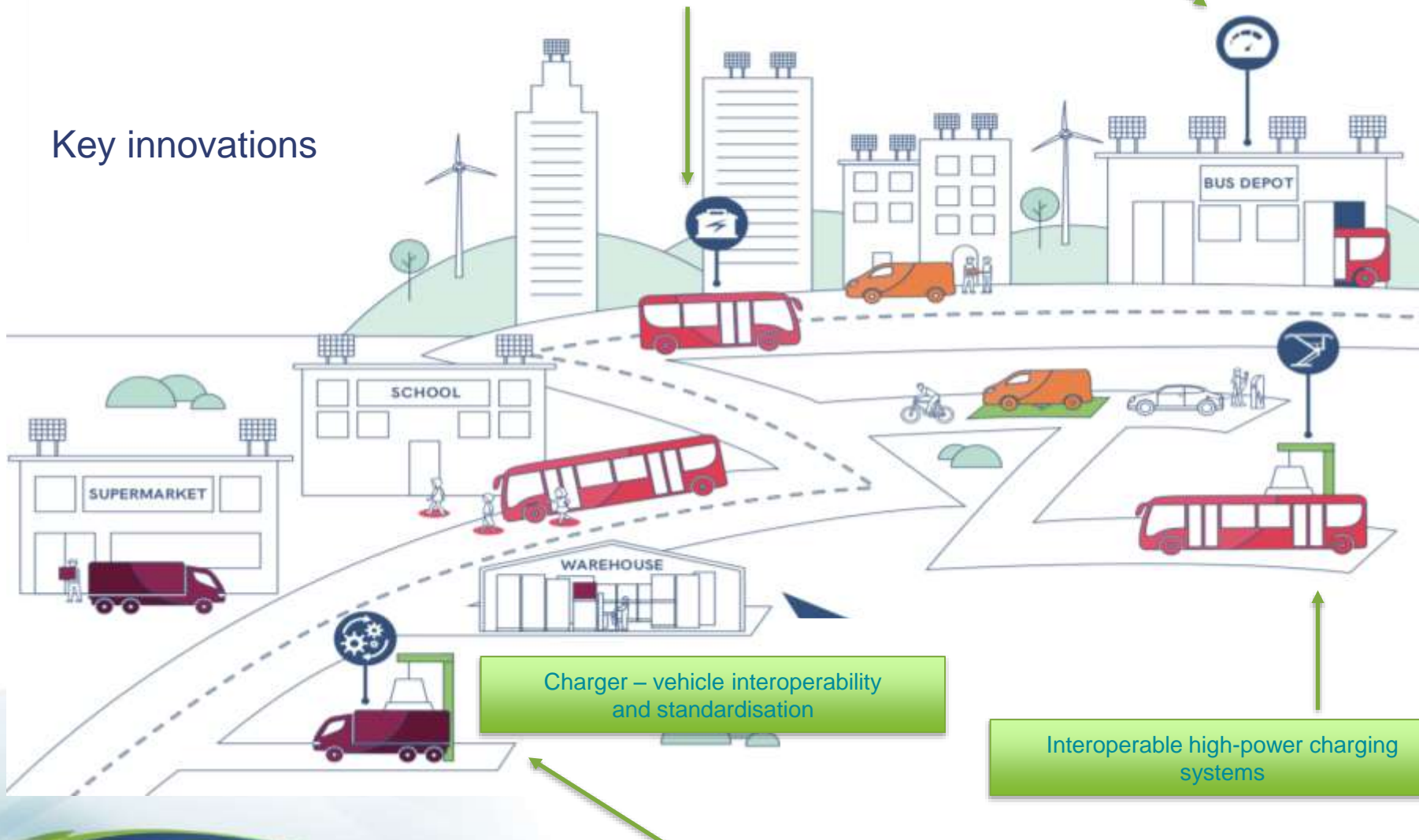
Project Objectives

- Development of
 - ✓ **interoperable** and **scalable** high-power charging solutions (*up to 600kW*)
 - ✓ **innovative charging management strategies**
 - ✓ **efficient wireless charging solutions**
 - ✓ standardised **conformance and interoperability test protocol**
- Evaluation and improvement of the cost, energy efficiency, impact of grid
- Demonstration of 8 Use Cases distributed in 3 Pillars (e-bus, e-truck, e-van)
- **Support to the standardisation bodies** (*i.e. CEN-CENELEC, ISO, IEC*)

Smart tools for fleet optimisation

Innovative energy storage systems and charging management strategies

Key innovations



Charger – vehicle interoperability and standardisation

Interoperable high-power charging systems

Demonstrators for User Acceptance

Barcelona
& Osnabruck

- Interoperability between buses and chargers of different brands, on vehicles in real operations

Goteborg

- Interoperability between bus and urban trucks

Eindhoven

- Smart charging for fleet upscale

Expected outcomes



Strengthening the European technical and technological leadership in the value chain of electrified urban heavy duty, medium-duty and light-duty vehicles



Further developing strong collaboration and interaction with Public Transport Organisations/ Public Transport Authorities



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