

Automated driving

Jeroen van der Werf



Automated vehicles at VDL ETS

Topics

VDL Enabling Transport Solutions
Shuttle initiative
Digital infrastructure for future mobility



FACTS AND FIGURES 2022



Family business VDL Groep was founded in 1953



75% of our products are exported to **112** countries around the world



We consist of more than 100 companies



Employees in 19 different countries





Net Result

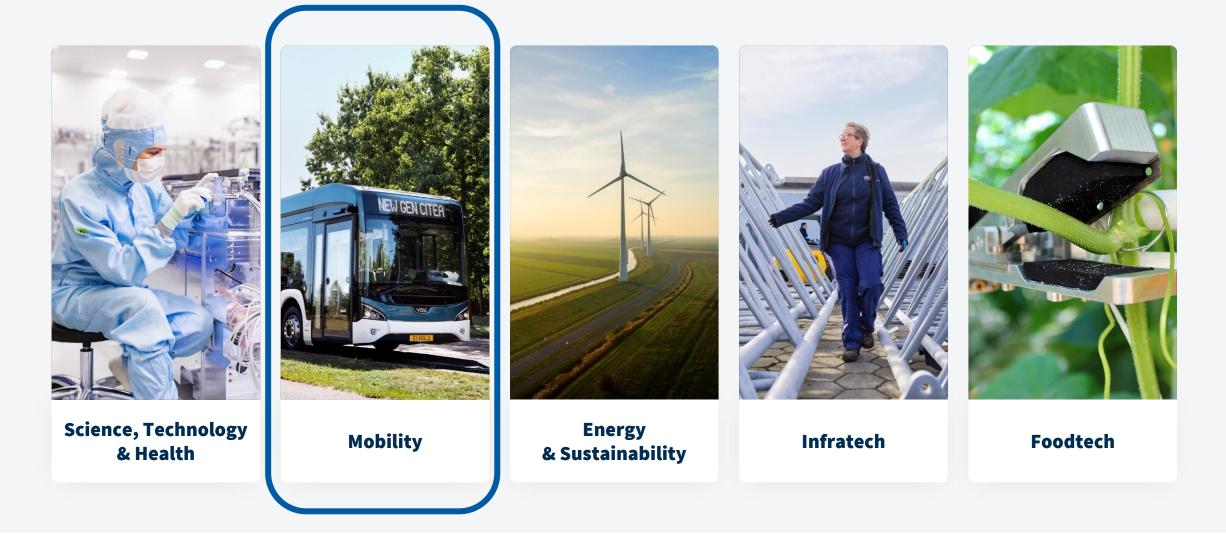




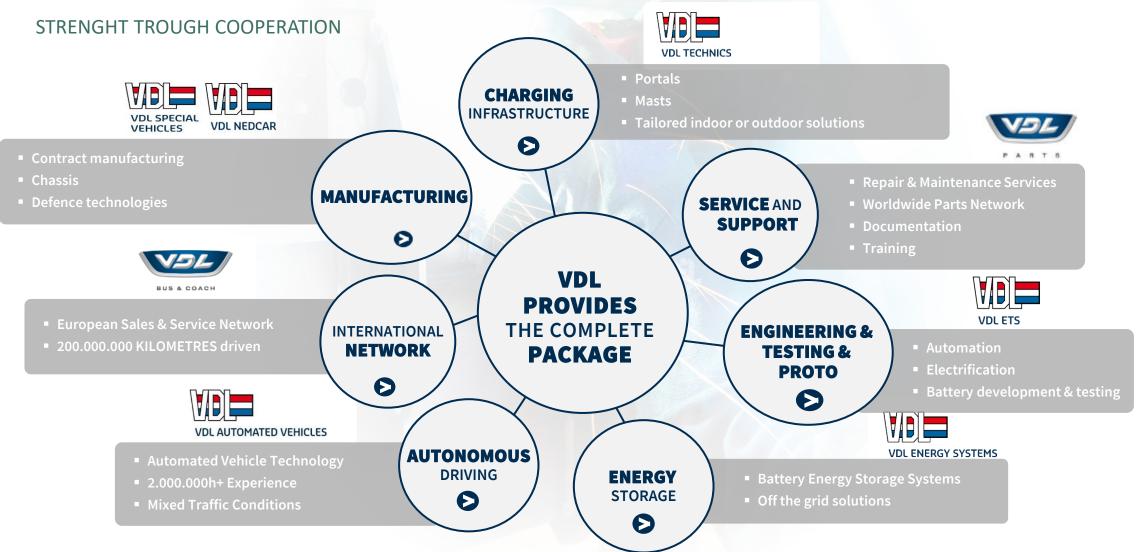
VDL Groep is in the top six on the Dutch reputation ranking

Source: RepTrak

THE WORLD OF VDL GROEP



VDL Group has a strong mobility cluster







SHUTTLE

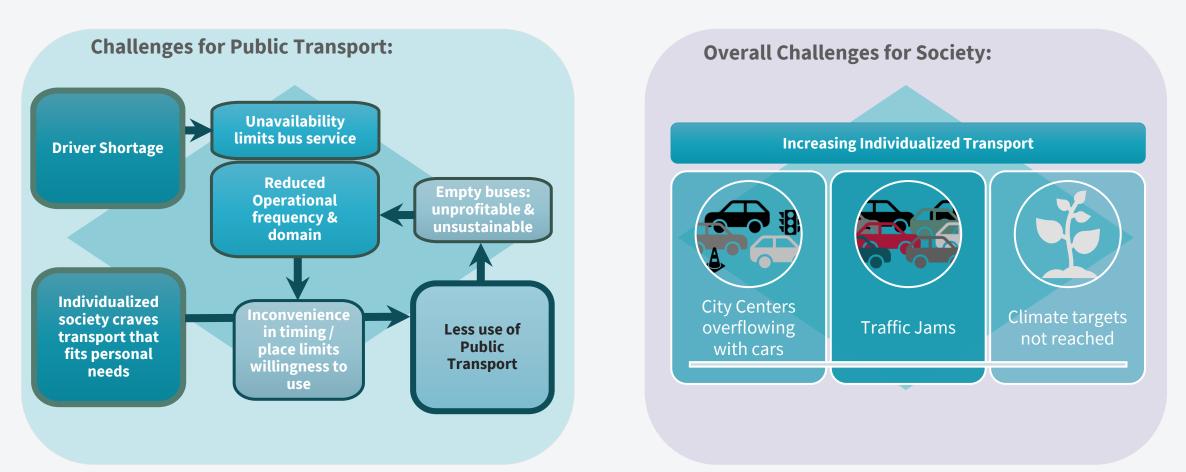
Initiative of Schaeffler and VDL







The challenges of today's mobility:



We believe:

Electrified shared mobility platforms can relief traffic sustainably.

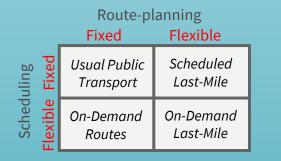
Implementing a more flexible, frequent and personalized shared service to reduce individual driven kilometers.

Introducing our solution: The People Mover

Our Autonomous Shuttle

Key advantages:

- No driver required
- Shared mobility with individual convenience providing flexible & personalized transport

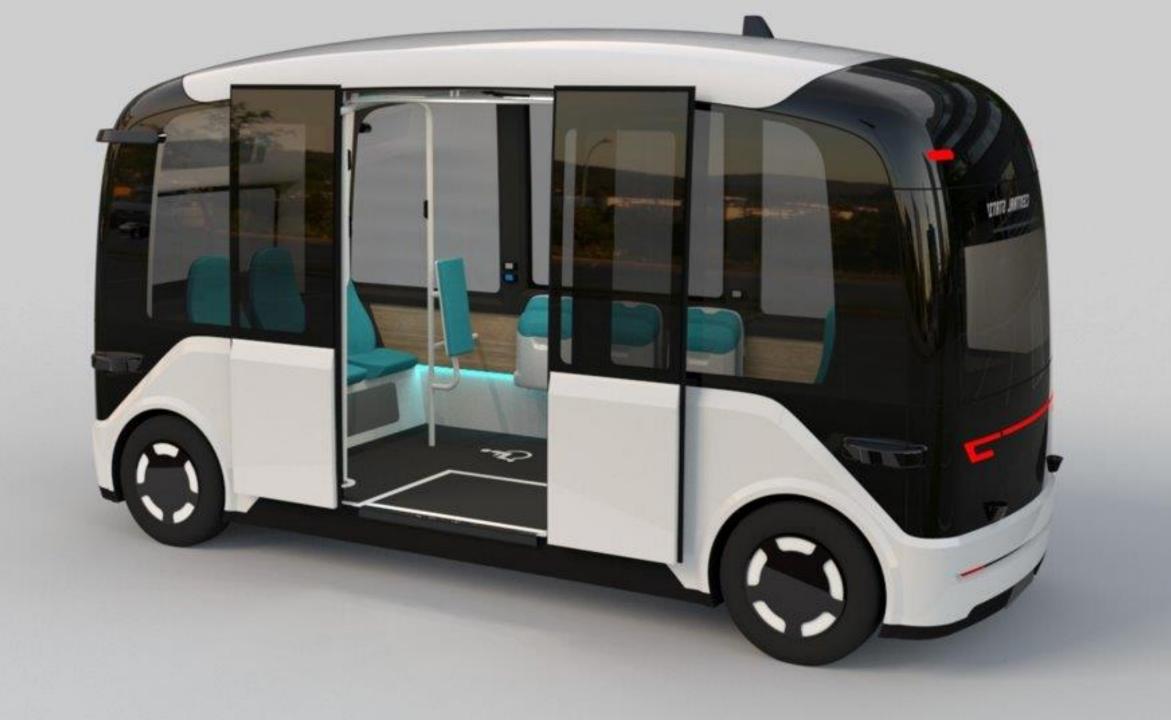


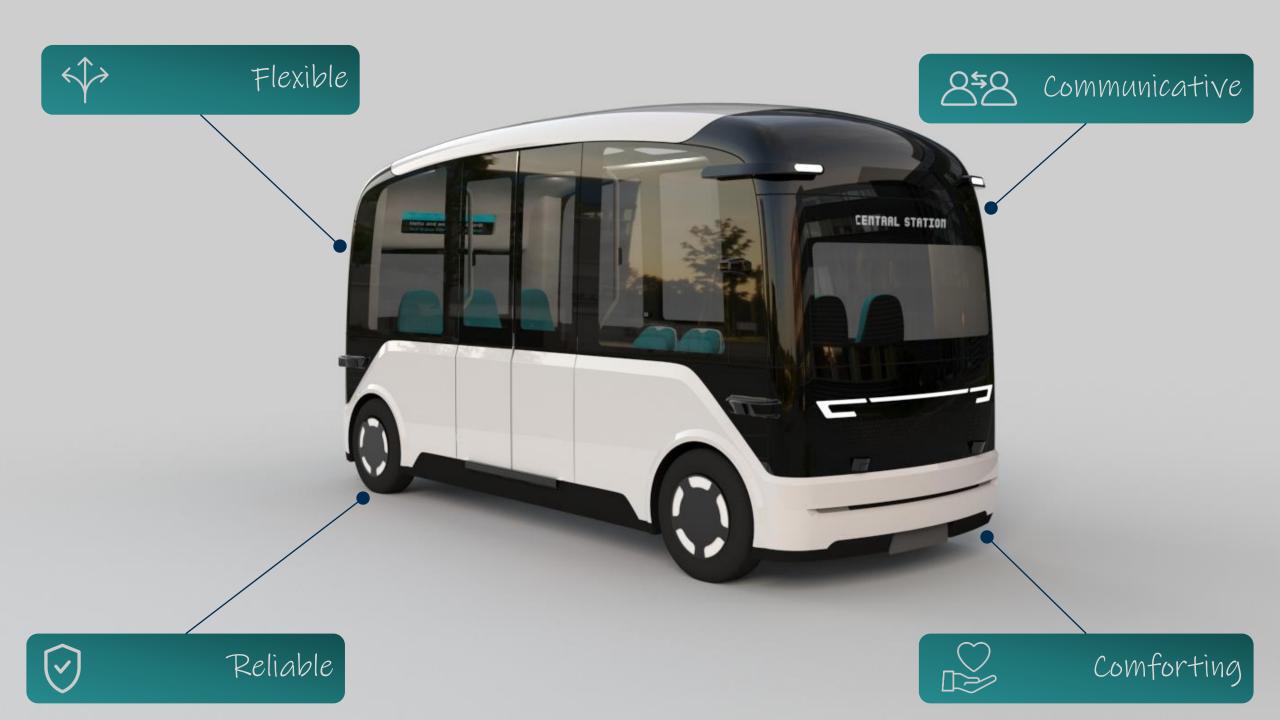
- Compact, suitable for frequent service
- Developed for Public Transport







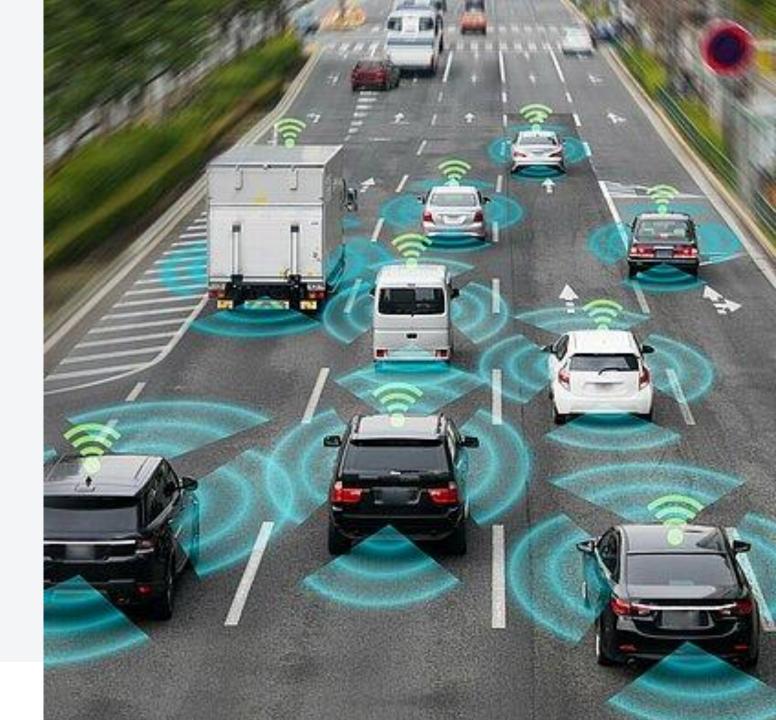




DITM

DIGITALE INFRASTRUCTUUR VOOR TOEKOMSTBESTENDIGE MOBILITEIT

Beyond Roads: how the DITM project is contributing towards a digital infrastructure for future-proof mobility!

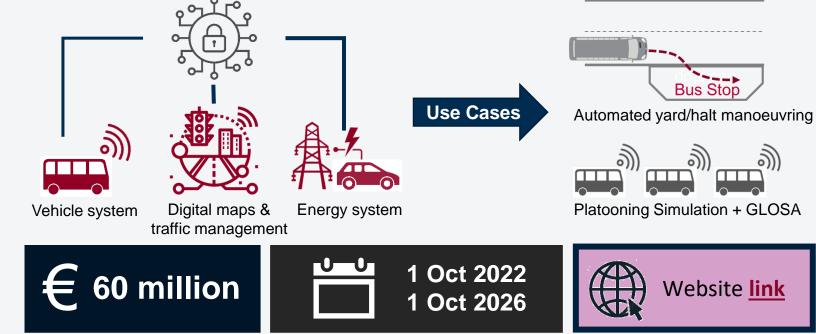


Goal: Enable higher levels of autonomous driving

Lead partner

Partners Companies

Digitale Infrastructuur voor Toekomstbestendige Mobiliteit



"On the way towards full autonomous vehicles, we develop the underlying technologies for advanced driver assistance systems (ADAS) which provide the safe and increasingly autonomous experiences that will reshape our relationship to transport.- Brian de Bart, NXP



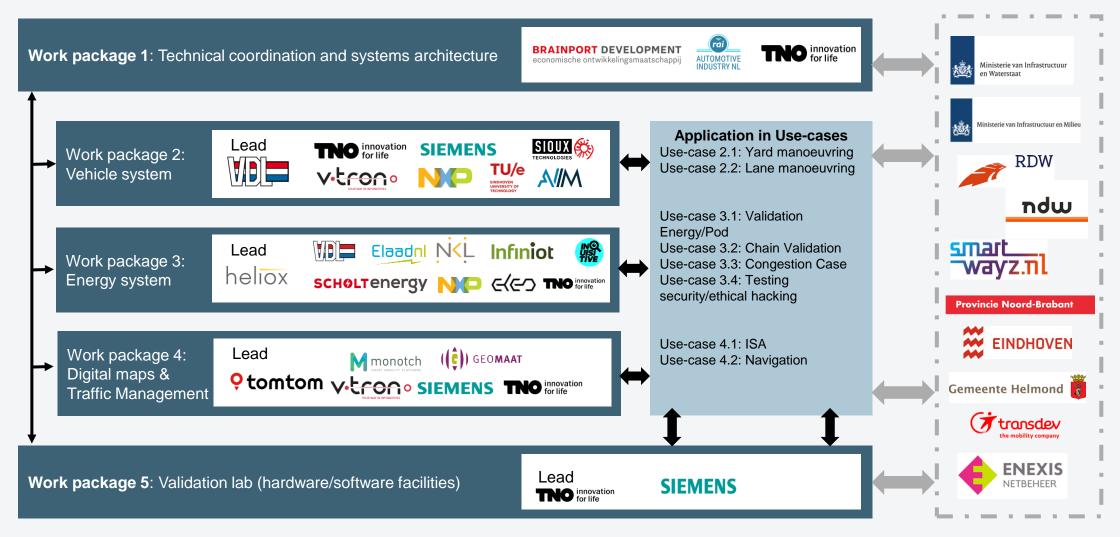
Supported by:

BRAINPORT DEVELOPMENT economische ontwikkelingsmaatschappij

AUTOMOTIVE INDUSTRY NL

The DITM project is made possible by the Ministry of Infrastructure and Water Management (I&W). DITM is funded by the European Union-NextGenerationEU and DITM partners.

WP Overview



Automated vehicle functions



UWB positioning



Tele operation



Automated driving bus



Radar positioning



Digital Infra



Digital twin

Research with VDL CITY BUS

Automated Yard Maneuvering

Teleoperation

Automated Halt Maneuvering

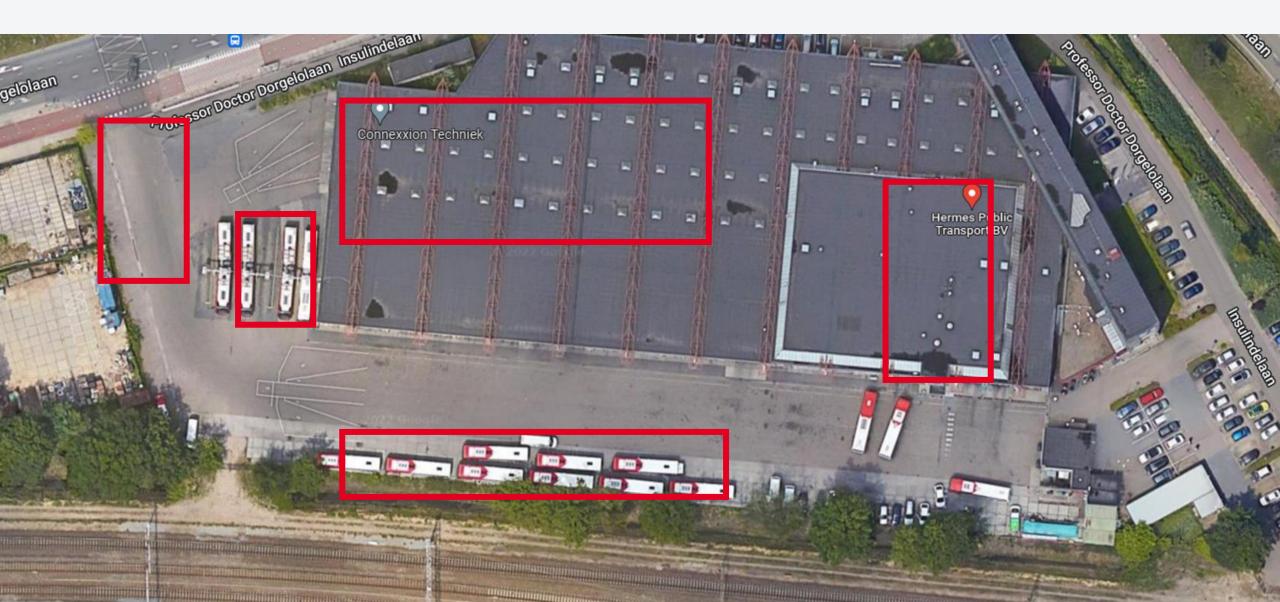


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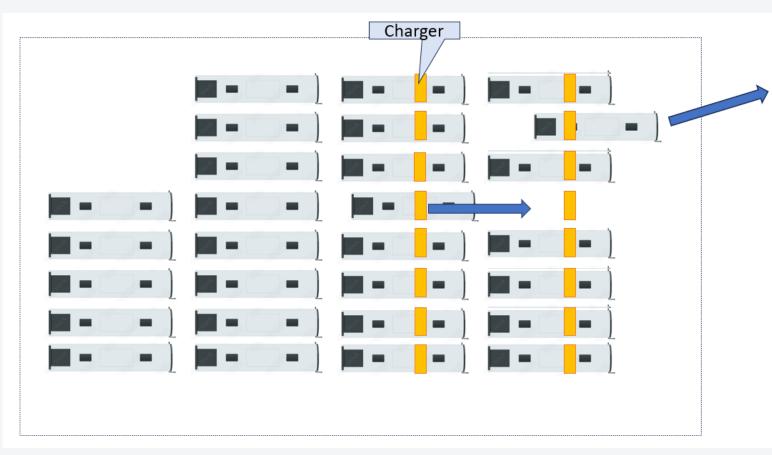
Connected platoon on intersection

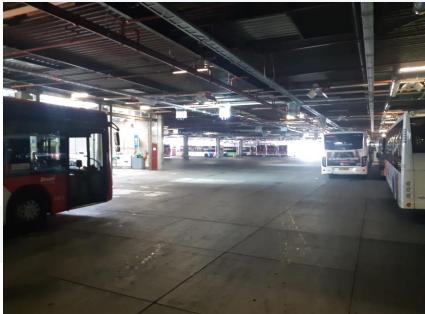
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Automated Yard Maneuvering



Parking with charger





Automated vehicles at VDL ETS

Summery

- > Part of mobility cluster
- Engineering automated shuttle
- > Engineering innovation
- Building prototype automated Citea





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STRENGTH THROUGH COOPERATION