

Get over it

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**EV Charging Infrastructure and
Innovation: An Update for Councils**
Transport Technology Forum,
EV Working Group Event,
21 February 2024, Albert halls, Bolton

Charging, that is better than refueling

M • LE

1. Automated charging
2. Battery storage
3. Solar PV generation

The MOLE ACD-U

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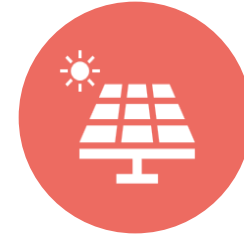


Parking bay topper with multiple power inputs

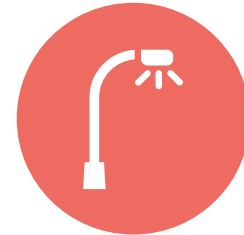
Single Unit.



Single Unit with integrated battery.



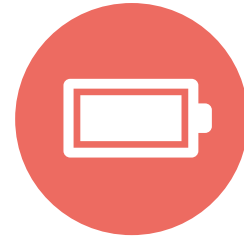
Solar PV Canopy



Streetlamp



Grid supply



Internal battery



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1. Universally deployable
2. Modular
3. Material re-use

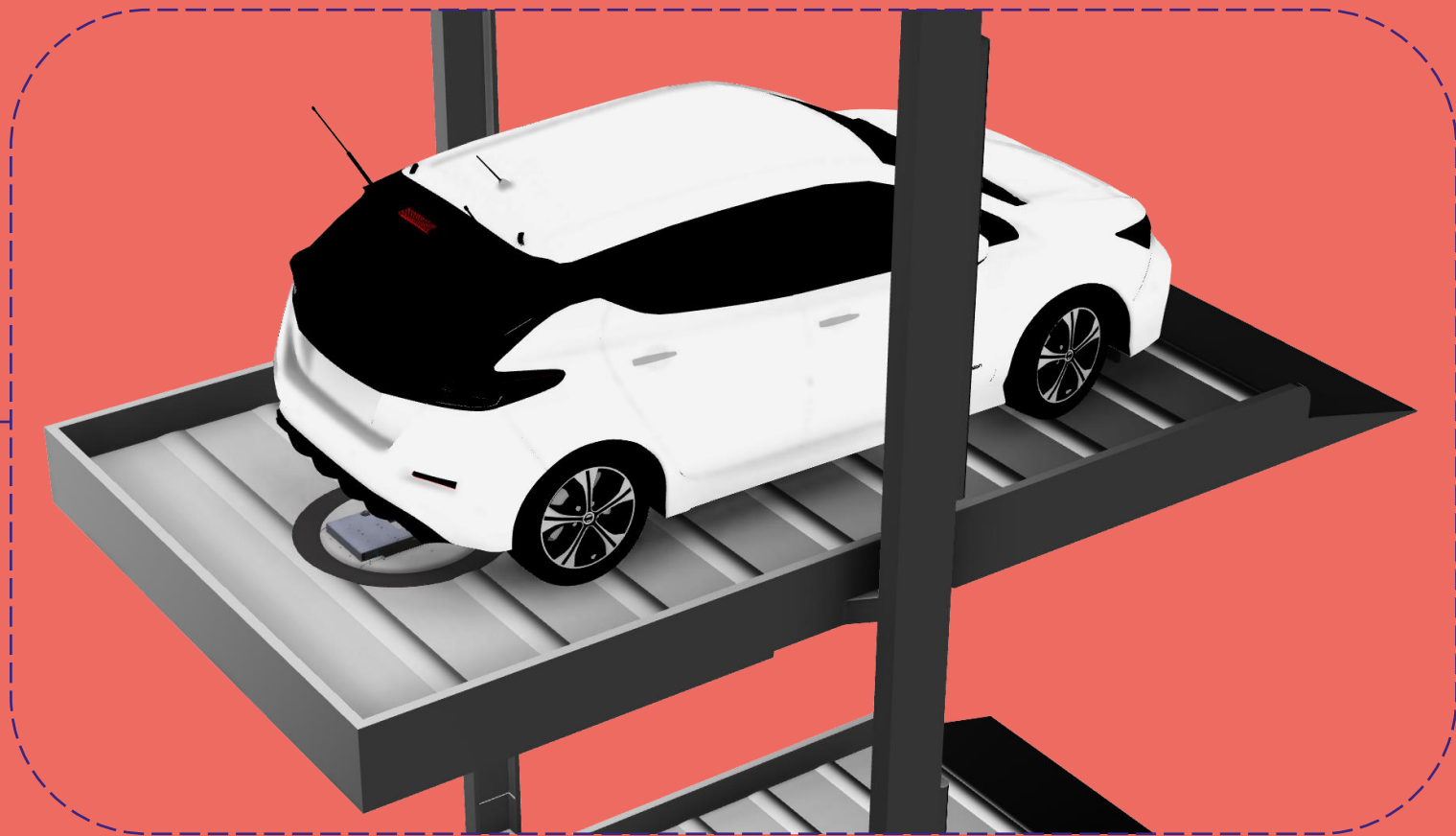
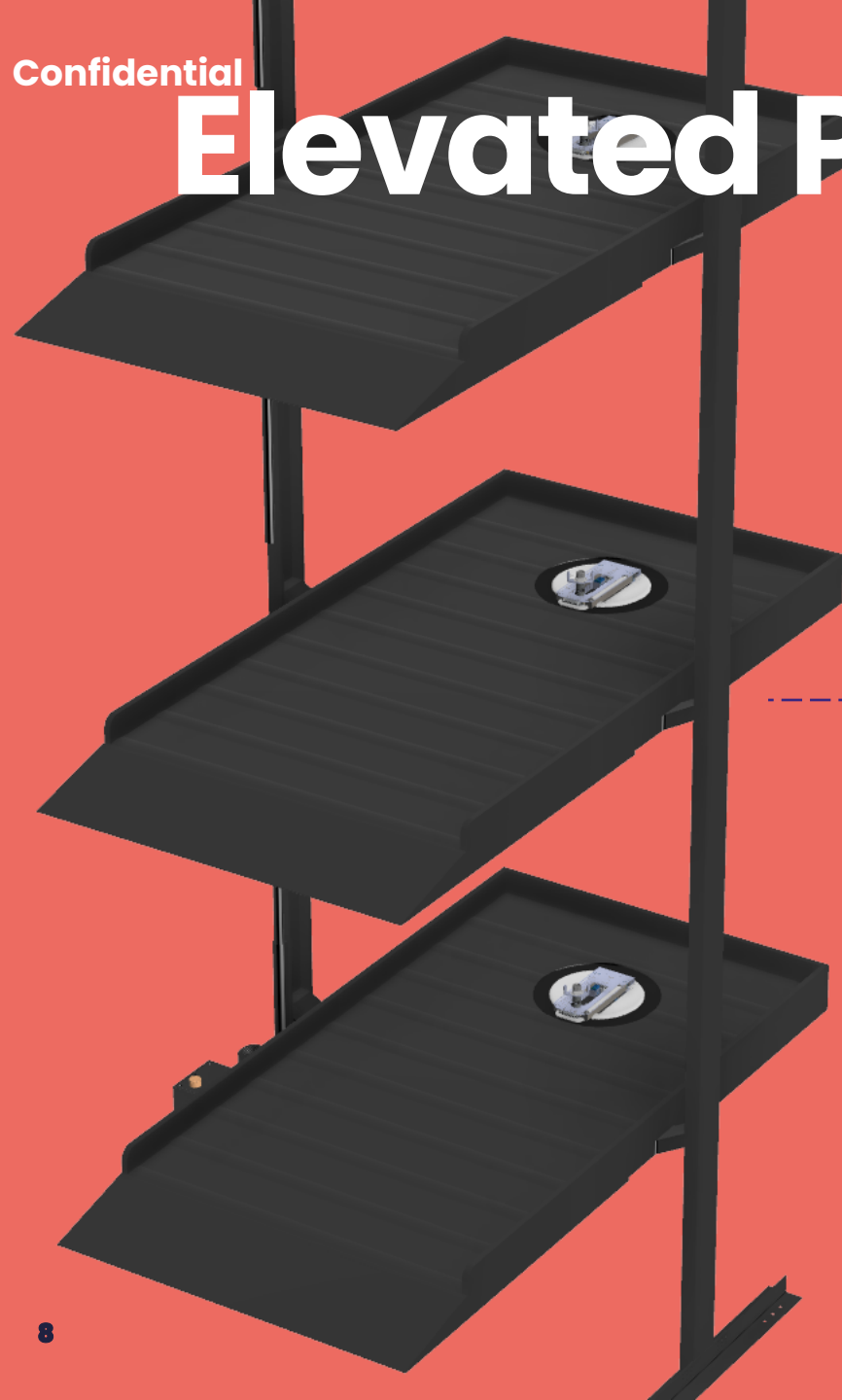


1. In garage
2. In a parking lot
3. In public spaces

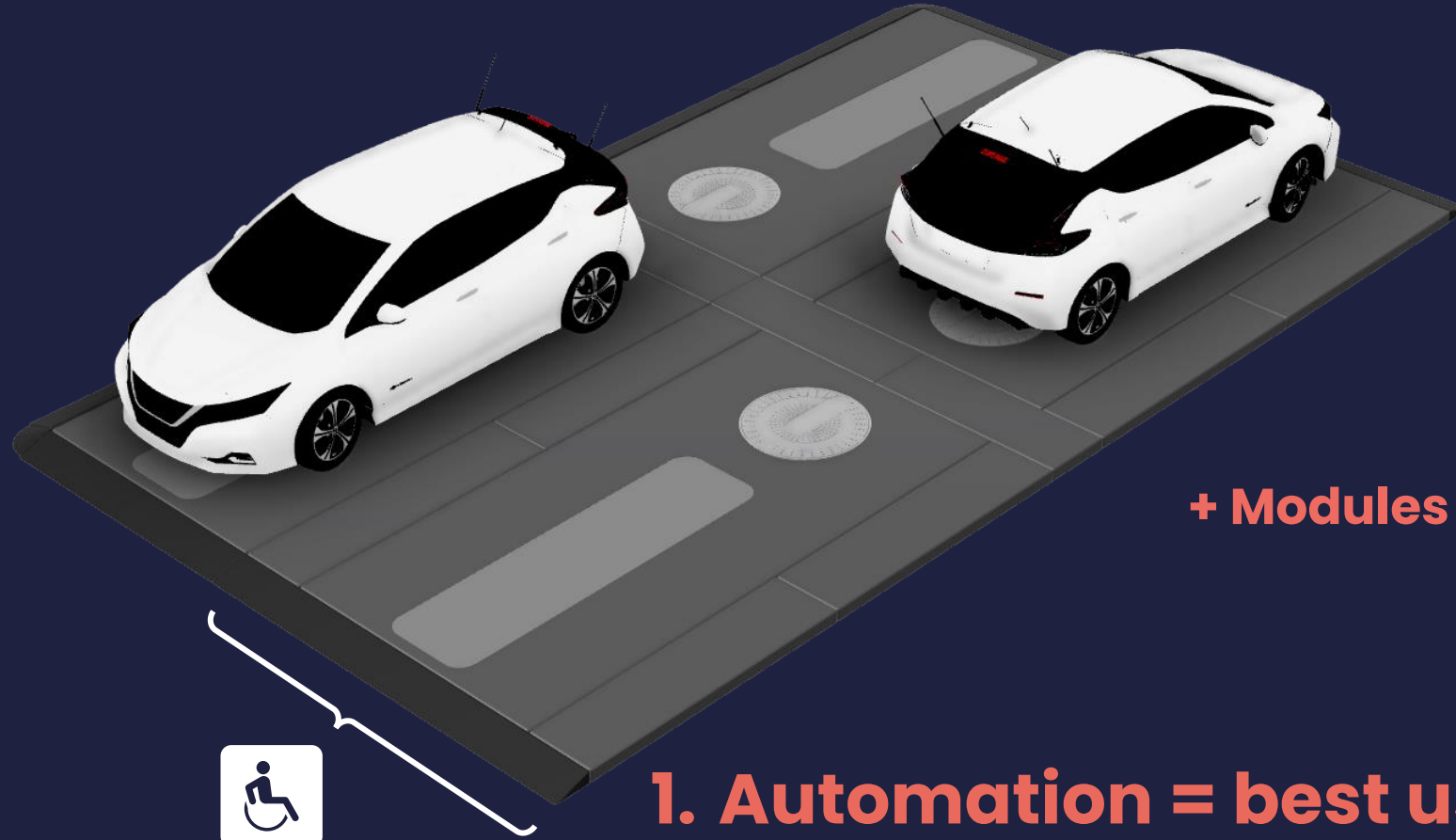


1. Easy to install
2. Easy to maintain
3. Easy to upgrade & scale

Elevated Parking



The MOLE end to end solution



+ Modules



1. Automation = best user experience
2. Batteries = best electricity price
3. Solar PV = green credentials

Just park, let MOLE charge

The MOLE is a robotic ground unit fixed inside a parking bay. Any vehicle with the MOLE underbody inlet can park over the ground unit and charge its battery via the underbody adapter.

MOLE is an early mover in automated charging systems. Our IP portfolio is growing and includes granted patents.

Emerging standards for automated charging (ACD-U) indicate a large market.

MOLE is a conductive system: more efficient, scalable and cost competitive than wireless/inductive systems.

MOLE is market ready for commercial vehicles, and consumer versions are under development.



BUILT FOR COMPATIBILITY



TYPE 1



TYPE 2



CHADEMO



CCS1



CCS2



NACS



MCS



ACDU



MOLE can be connected to any standard EVSE or supplied with an integrated AC EVSE and can interface with any charging back-end and front-end.



MOLE Ground Unit



Any vehicle fitted with the MOLE underbody inlet can charge with the MOLE Ground Unit.

MOLE Underbody Inlet



LCVs



HGVs



GSEs & AGVs



BUSES



AUTONOMOUS SHUTTLES



SPECIAL FLEETS



CARS

Simple vehicle Installation

Post registration modification through authorized dealers, garages or by customers' fleet ops/engineering teams (DIFM/DIY).

In the future factory or dealer fitted installation with OEM support is planned.

Light, inexpensive and fast to install on the vehicle (~2 hrs)

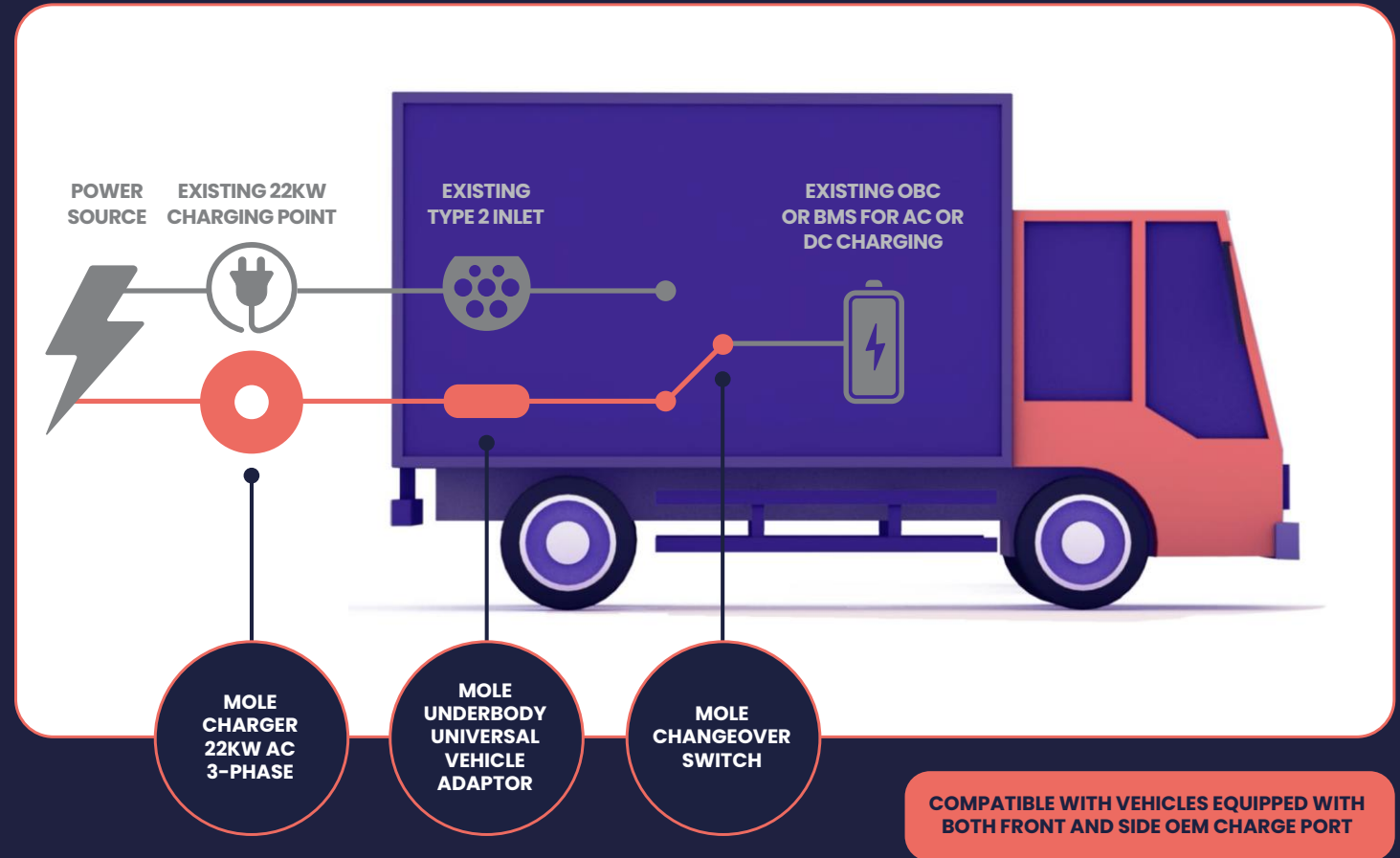
An underbody power input is added (with regulation) to existing OEM supplied circuit which is unaltered.

Existing side or front charging remains usable.

The MOLE installation is easily reversible and easy to remove.

Insurances unaffected and available.

Value added integration with full OEM involvement is planned to support additional services and user benefits.



Watch how MOLE is installed



TRANSFORM YOUR FLEET DEPOT WITH MOLE



SAVE

space and add
more charging bays



REDUCE

total cost of
ownership



EASY

to install, use, upgrade
and decommission



SIMPLIFY

operations for staff
and drivers



IMPROVE

workplace safety
and operator buy-in

BENEFITS FOR CHARGE POINT OPERATORS



ATTRACT

customers with the best user experience



PROVIDE

disabled users a fully hands-free service



EASY

to install, upgrade and decommission



SAVE

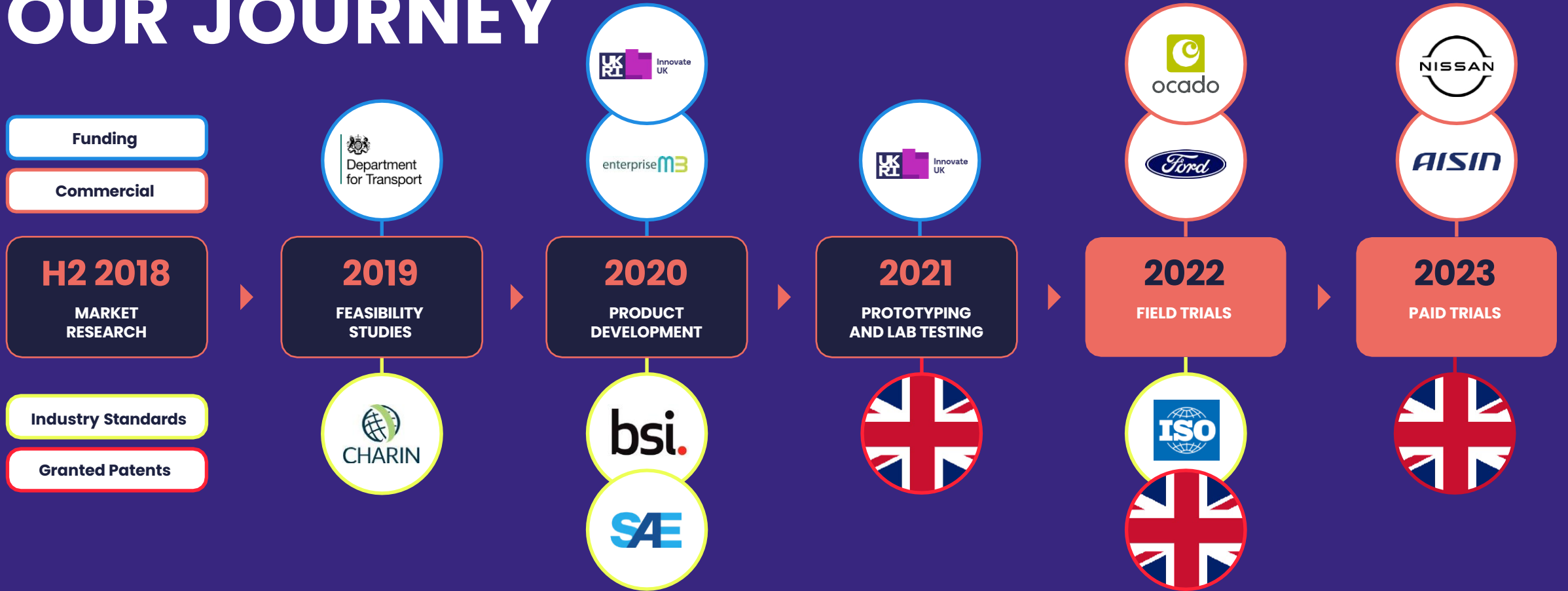
space and add more charging bays



LESS

costs, breakages, and vandalism

OUR JOURNEY



'A great product'

'Solves our problems and we would like to try MOLE'

'MOLE aligns with our priorities for our fleet'

'MOLE is ahead of the curve'

'Really interesting implementation and development plans'

'MOLE is years ahead of any ACD(U) we have seen on the market'



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**PLEASE GET IN TOUCH IF YOU WOULD LIKE TO KNOW
MORE OR WORK WITH US.**

THANK YOU!

UK

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