

Vauxhall Vivaro Hydrogen Fleet Trials

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Head of Product & Pricing - LCV

Stellantis UK

9th February 2023



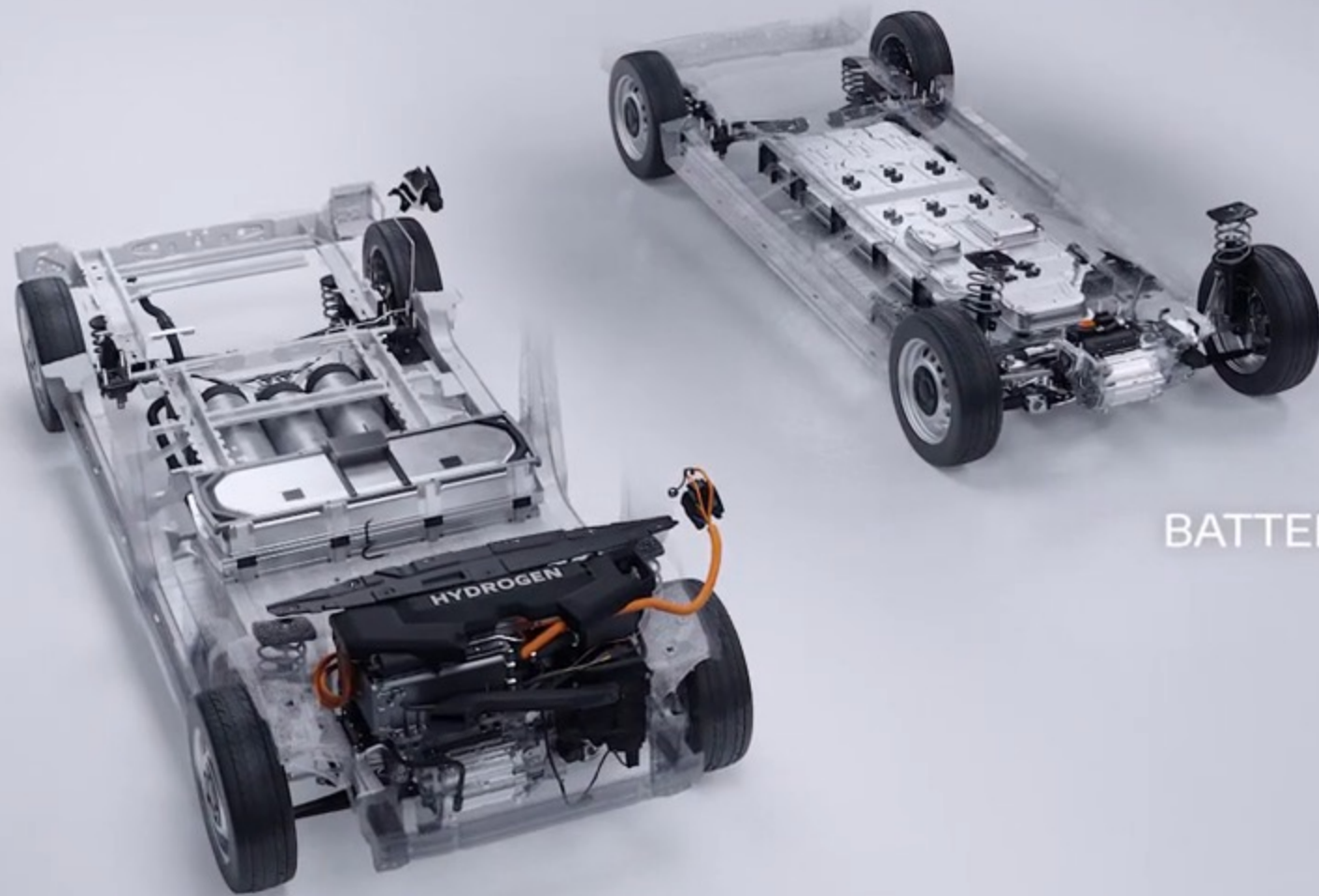


- Car OEM since 1903
- Commercial Vehicles since 1931
- #1 eLCV OEM in 2021 & 2022



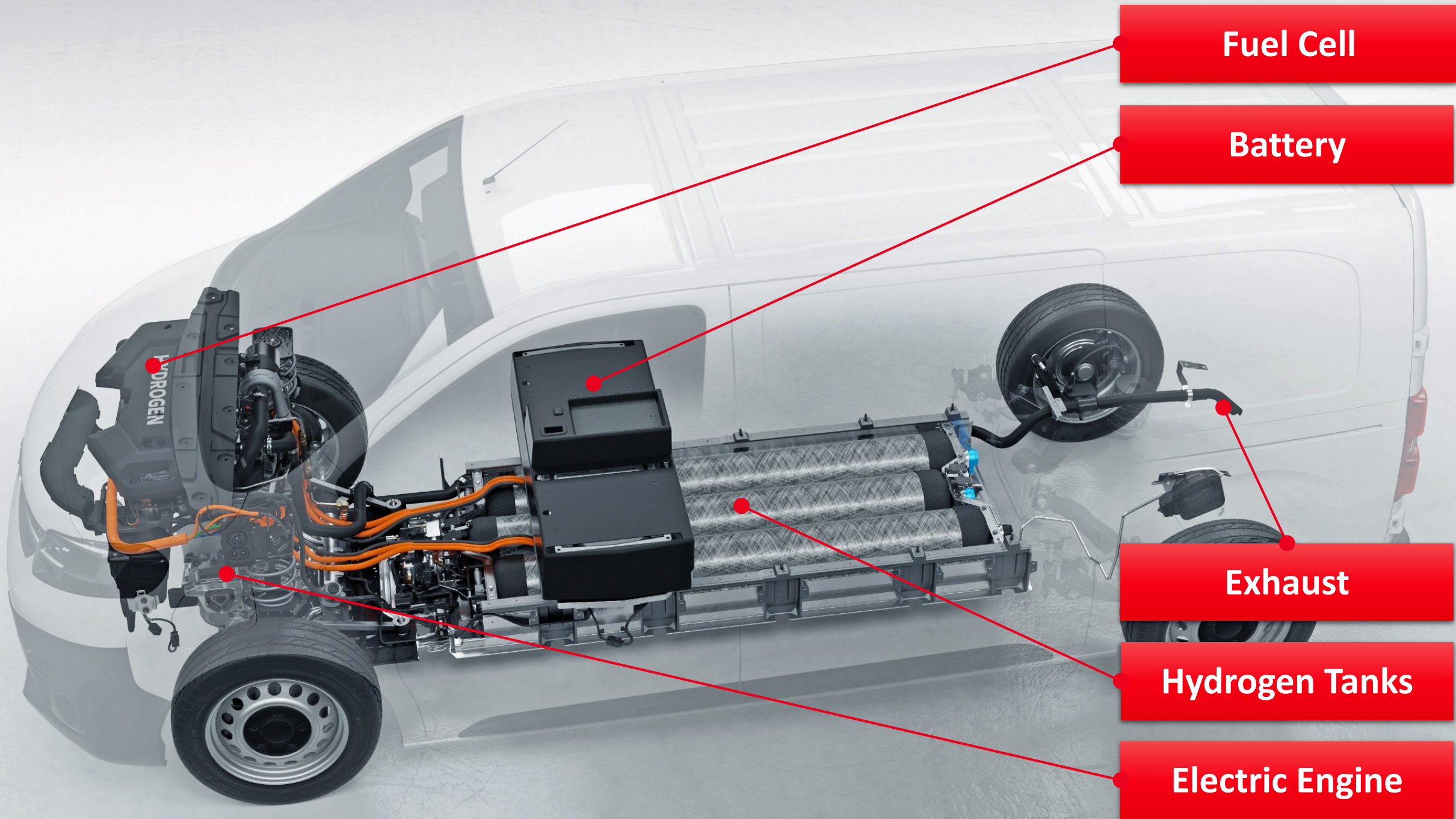
- Car OEM since 1898
- Commercial Vehicles since 1930
- 25th year of developing FCEV technology

ZERO-EMISSION TECHNOLOGIES



HYDROGEN FUEL CELL

BATTERY



Fuel Cell

Battery

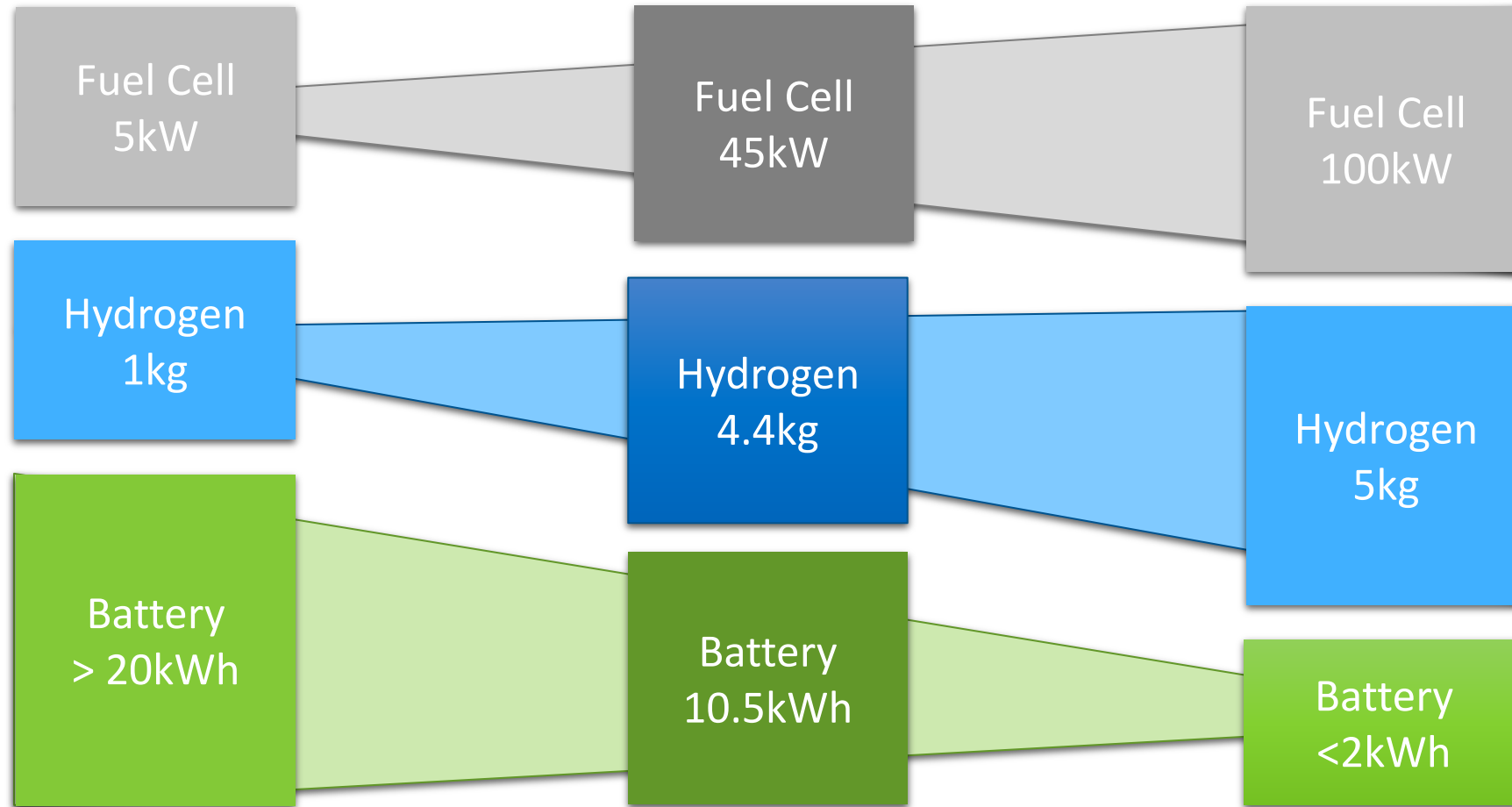
Exhaust

Hydrogen Tanks

Electric Engine



Architecture



Range-Extender

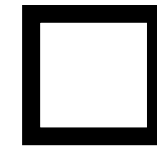
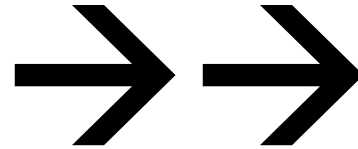
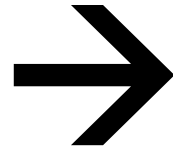
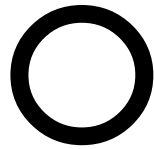
Mid-Power
Concept

Full Range

VAUXHALL



How it Works



BEV

BEV

FCEV

FCEV



The fuel cell recharges the battery to maintain it at a minimum level of 50%

Technical Summary



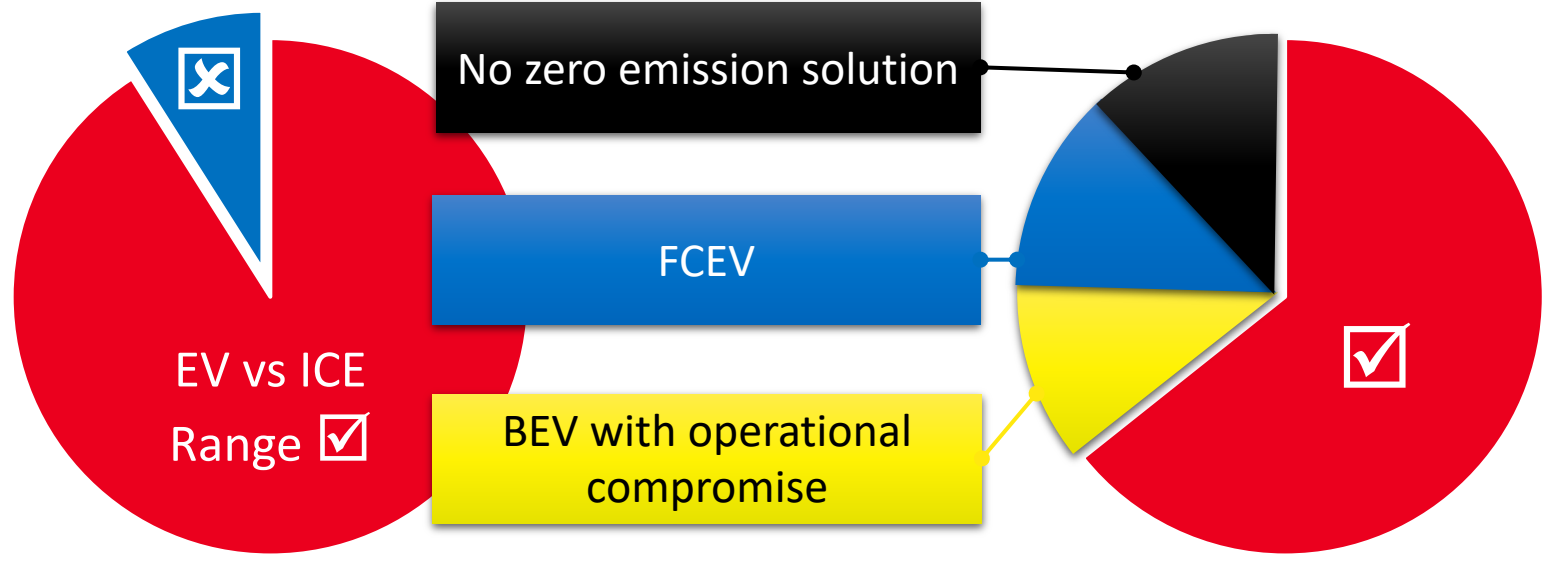
	Medium LCV	Large LCV
H ₂	3 Tanks – 4.4kg	↑
EV Range	30mi	30mi
H ₂ Range	220mi	↑
Combined Range	250mi	↑
Payload	1000kg	↑



Benefits to EV

- Greater zero emission range
- Less cold weather deterioration
- Better motorway mileage
- Infrastructure can be simpler for rural operations
- Common decarbonisation strategy to HGV/Buses
- Less difficulty for home-based charging*

*Once forecourts are more numerous and prominent



Medium

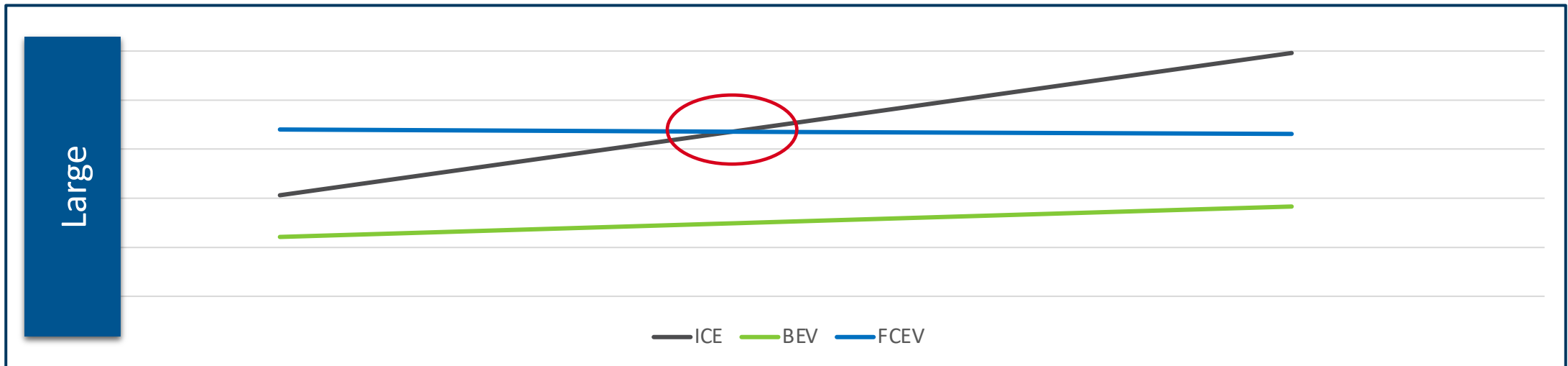
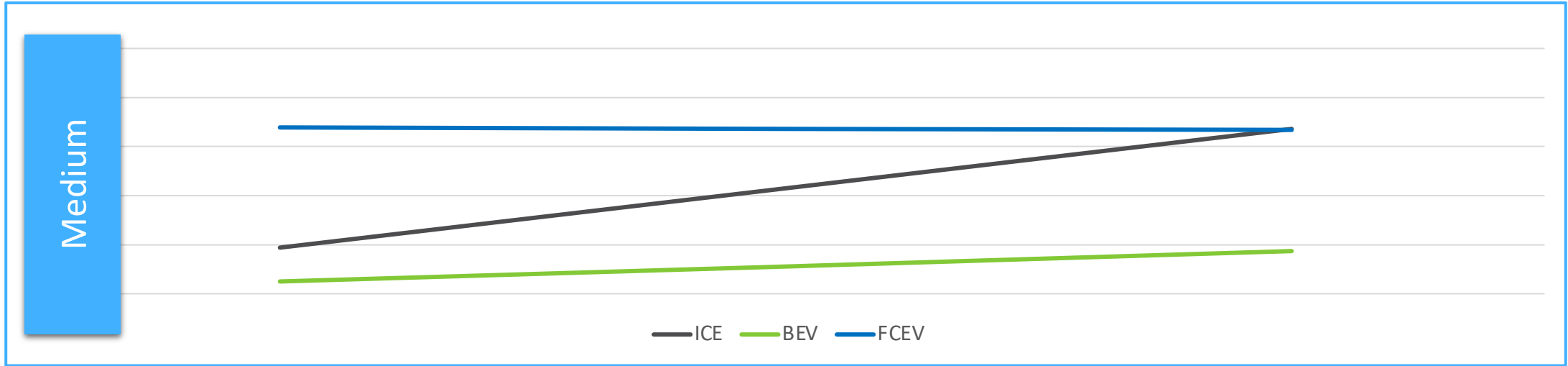
Depot- or Home-based
Needs forecourts

Large

Mainly Depot-based
Higher Mileage
Shape/GVW impact range



Total Cost of Ownership





Timing

2023

2024

2025+



Small Series Production HKO (LHD only) – 22

SOP HKO – Mid'24

SOP HX250 – Late'24

UK Activation



Fleet trials

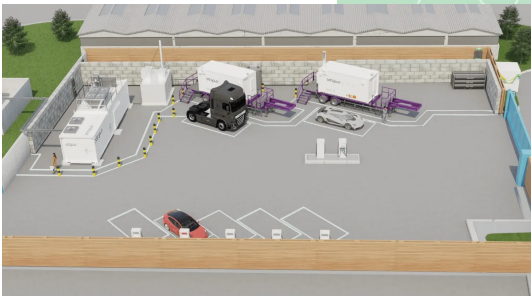


ELEMENT 2

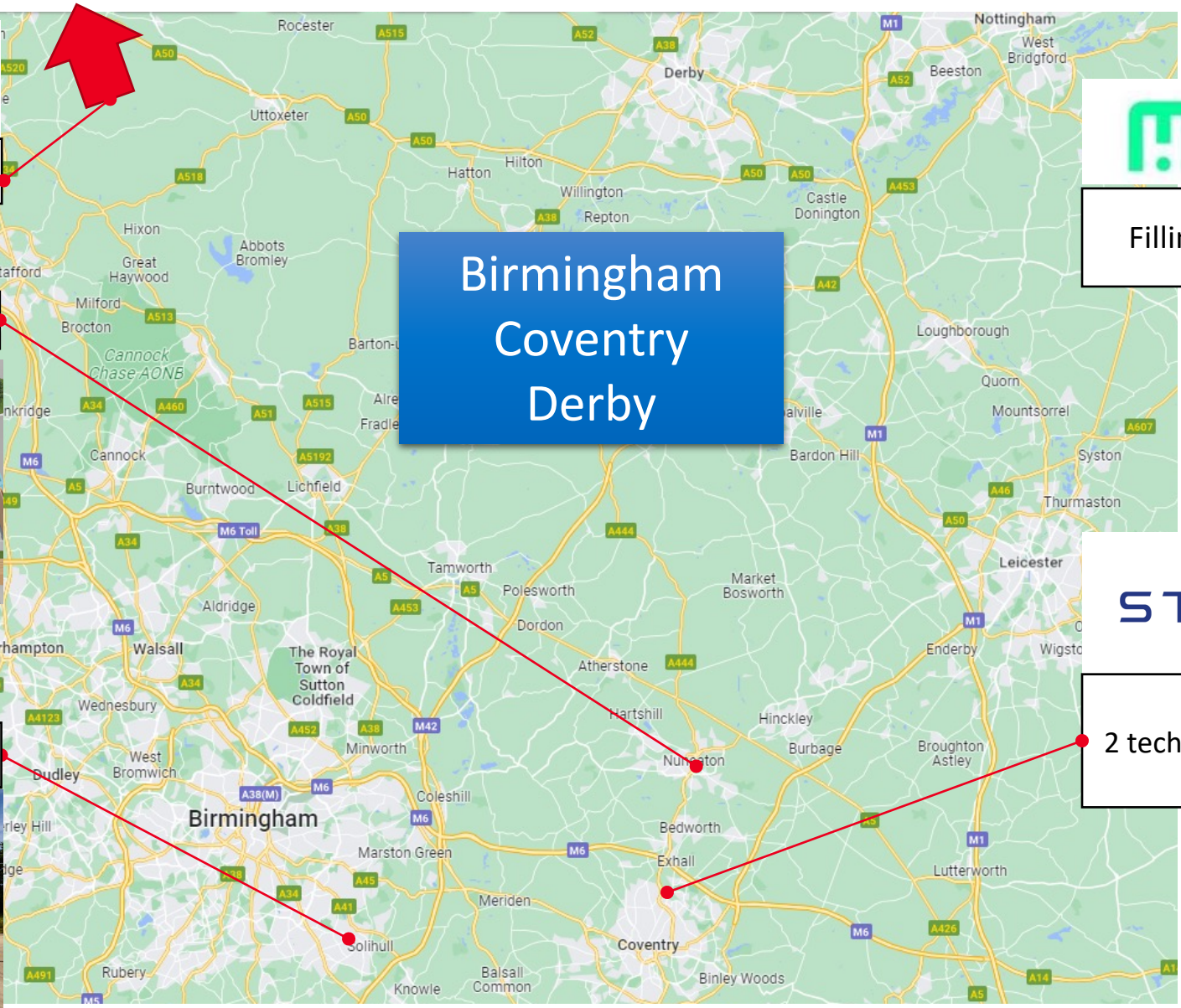
Liverpool ('23)



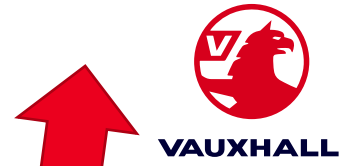
Filling Station ('23)



Filling Station



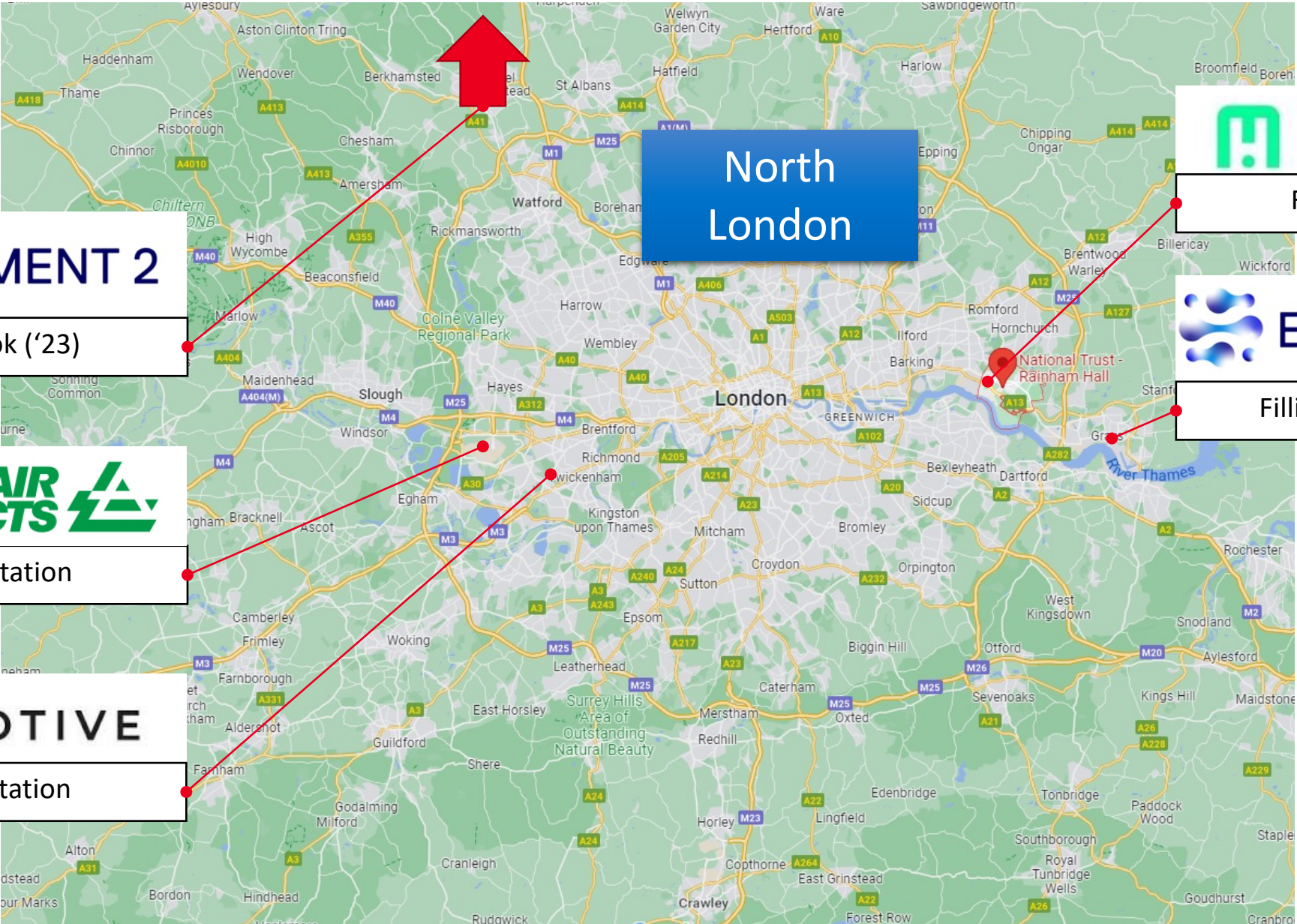
Birmingham
Coventry
Derby



Filling Station at Sheffield



Workshop.
2 technicians are being trained as
"Flying Doctors"



Millbrook ('23)



Filling Station



Filling Station

North London



National Trust - Rainham Hall

Please contact your key account manager to be involved in the fleet trials

