



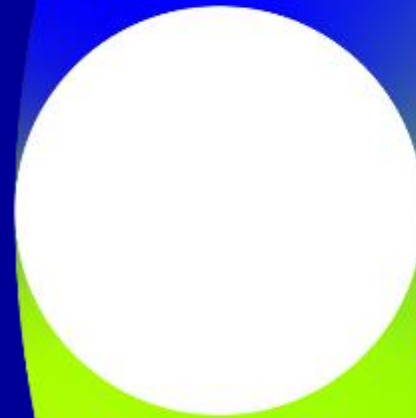
Electric vehicle charging

Vehicle Remarketing Association, 11 February 2021

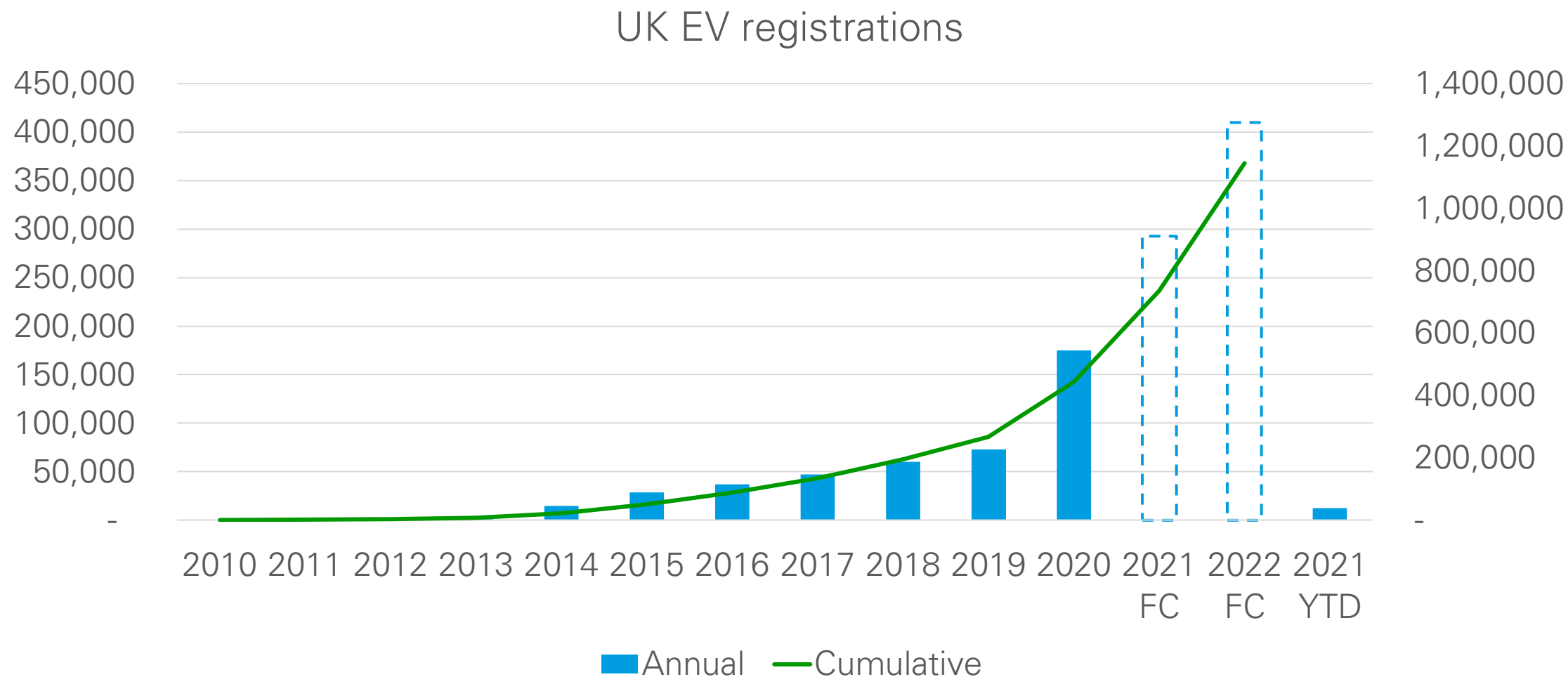




The EV market



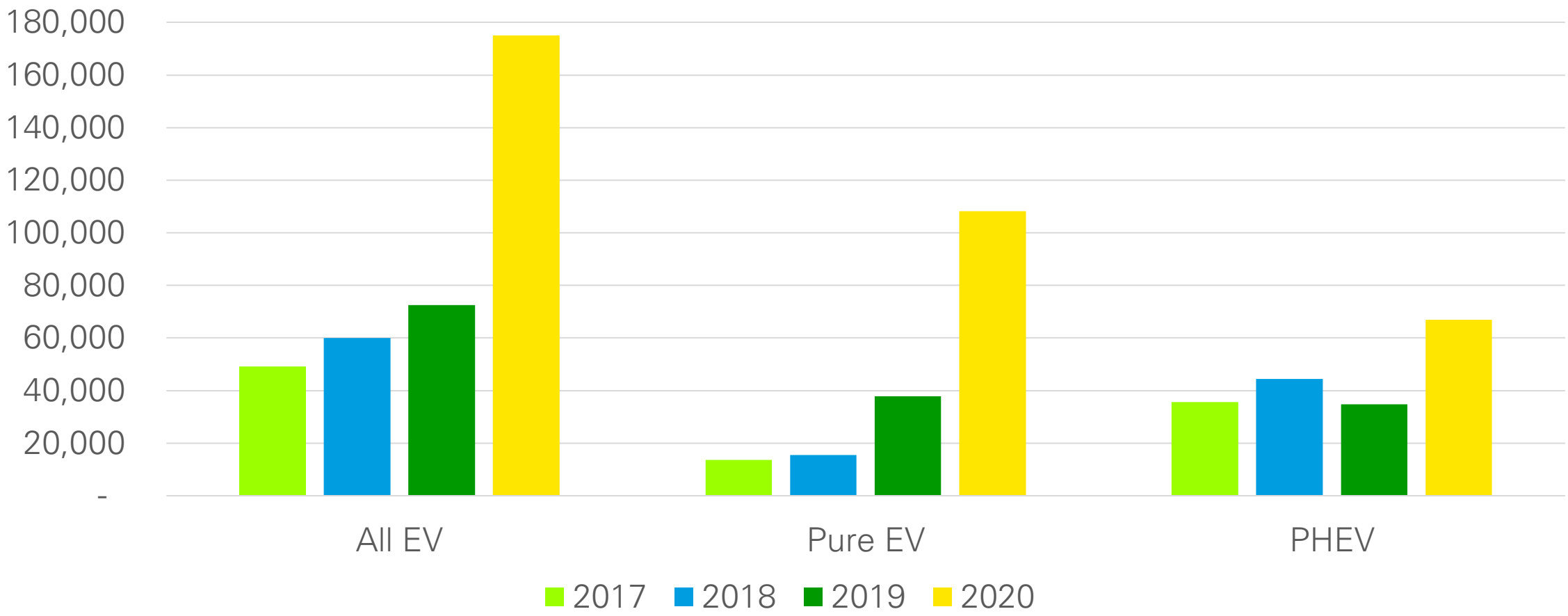
Accelerating growth in the UK EV market



Rapid transition towards pure electric



UK EV registrations





The EV ecosystem



EV charging happens in different places



Home



Most charging is completed at home

Workplace



Employers now recognise need to offer charging

Destination



Top up where you would stop anyway

Rapid / Ultra-fast



For range extending or urban forecourt/hub



Different speeds for different needs

Slow charger	3kW	(Up to 2 miles in 10 minutes)
'Fast' charger	7kW	(Up to 5 miles in 10 minutes)
Existing rapid charger	50kW	(Up to 33 miles in 10 minutes)
Ultra-fast forecourt charger	150kW	(Up to 100 miles in 10 minutes)

Public charging used to look like this...



...and this...



...but now, it look like this...



...and this...



...evolving from publicly-funded regional networks...



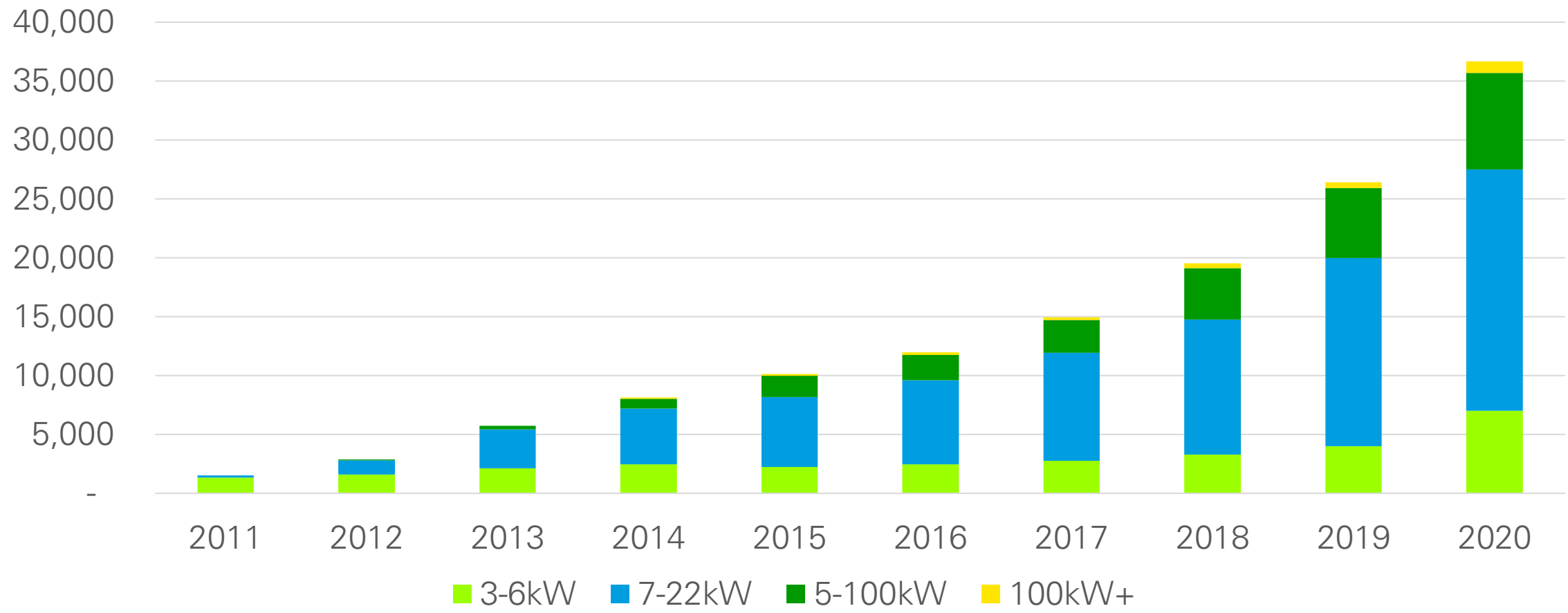
...to privately-funded, national networks.



Rapid transition towards pure electric



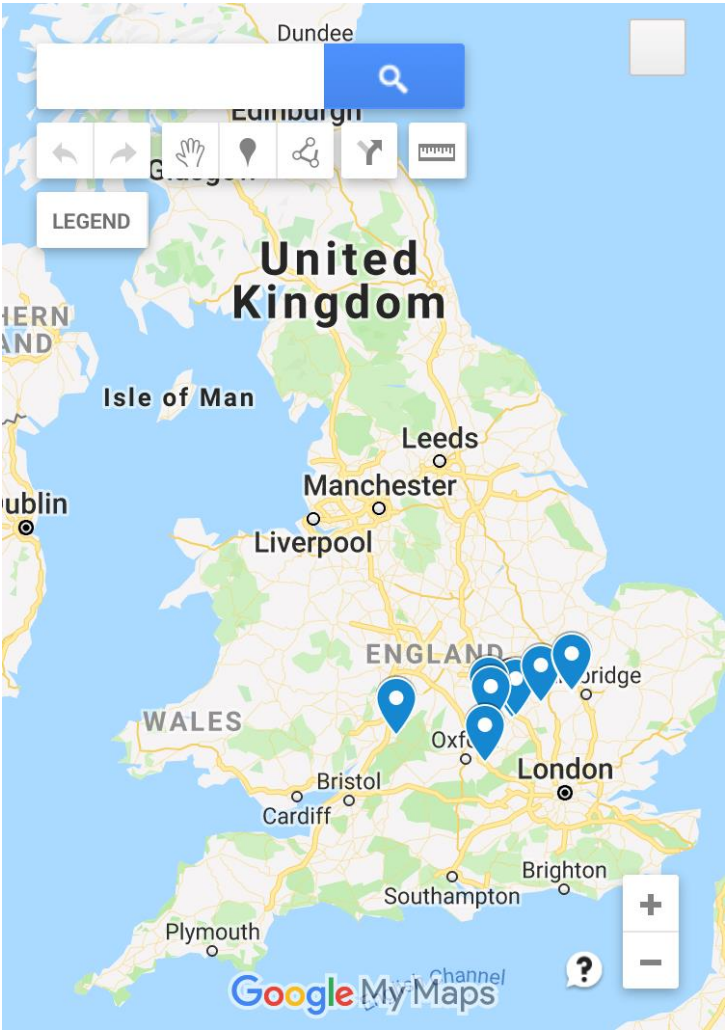
UK cumulative public charging points



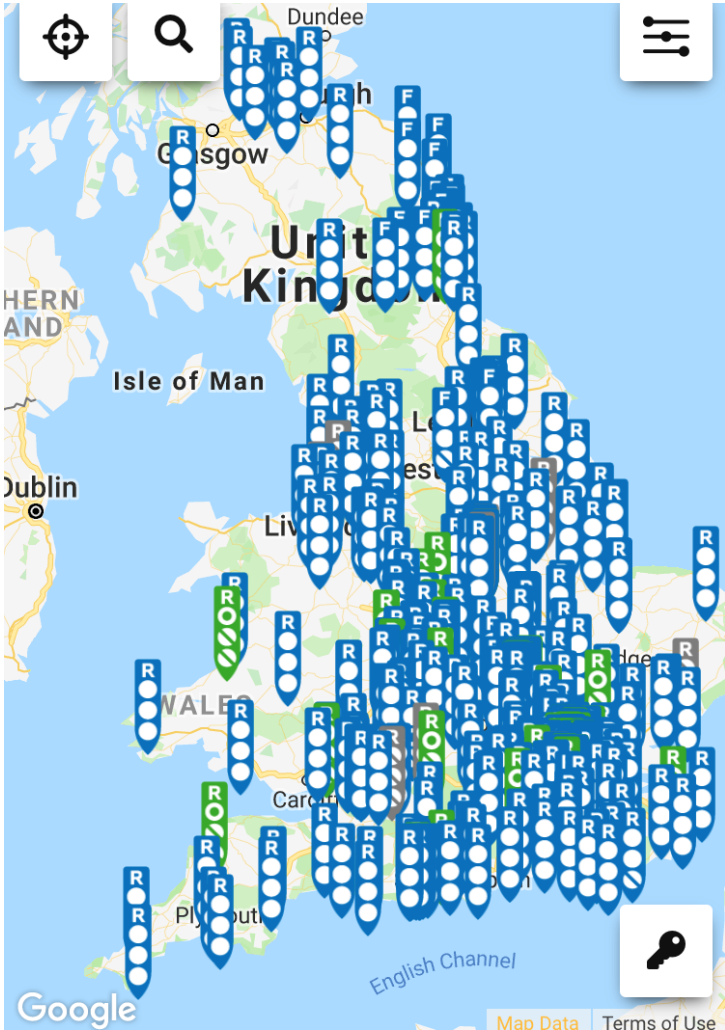
More infrastructure is coming



2014



2020



Combatting range anxiety



- KPMG Mobility 2030 analysis: 99.3% of UK car journeys are less than 100 miles
- Mostly experienced by those who don't drive, or are new to driving electric cars
- Spending more time driving electric cars is the best way to treat range anxiety



Combatting grid anxiety





Thank you

