

The Future of Mobility: Electrified & Shared

Innovation for Cool Earth Forum
6th Annual Meeting

Ali Izadi

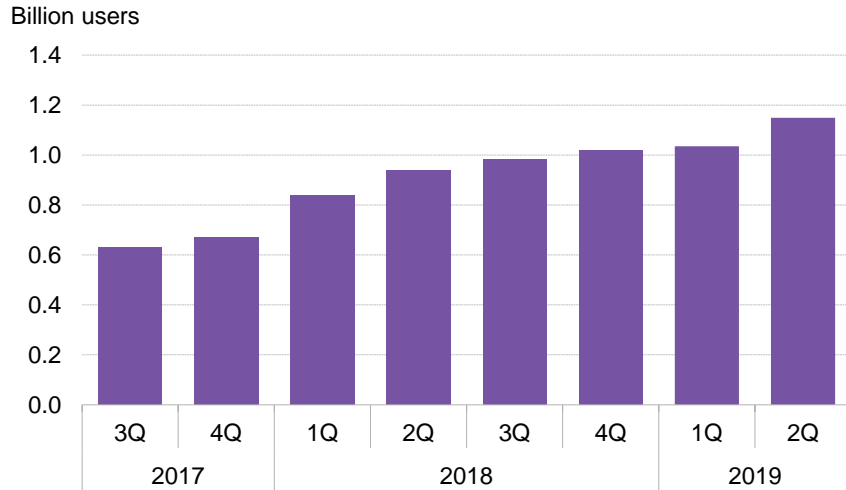
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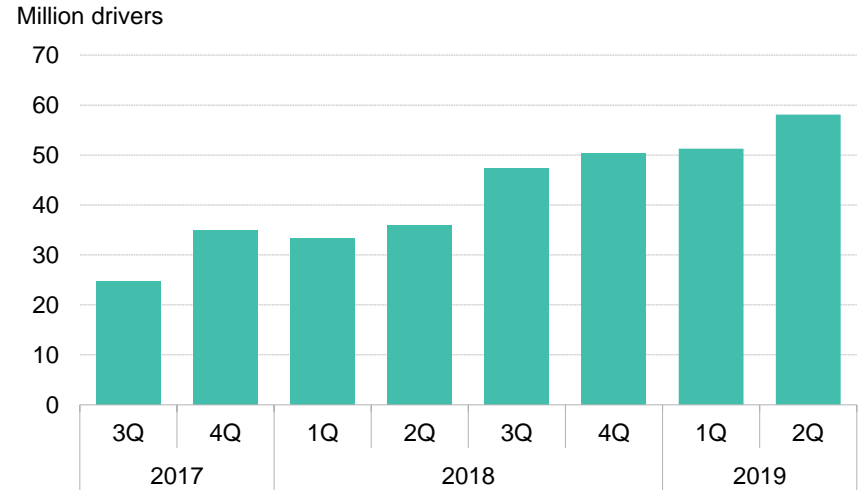
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Global digital-Hailing stats as of 1H 2019

Number of active users of digital hailing services

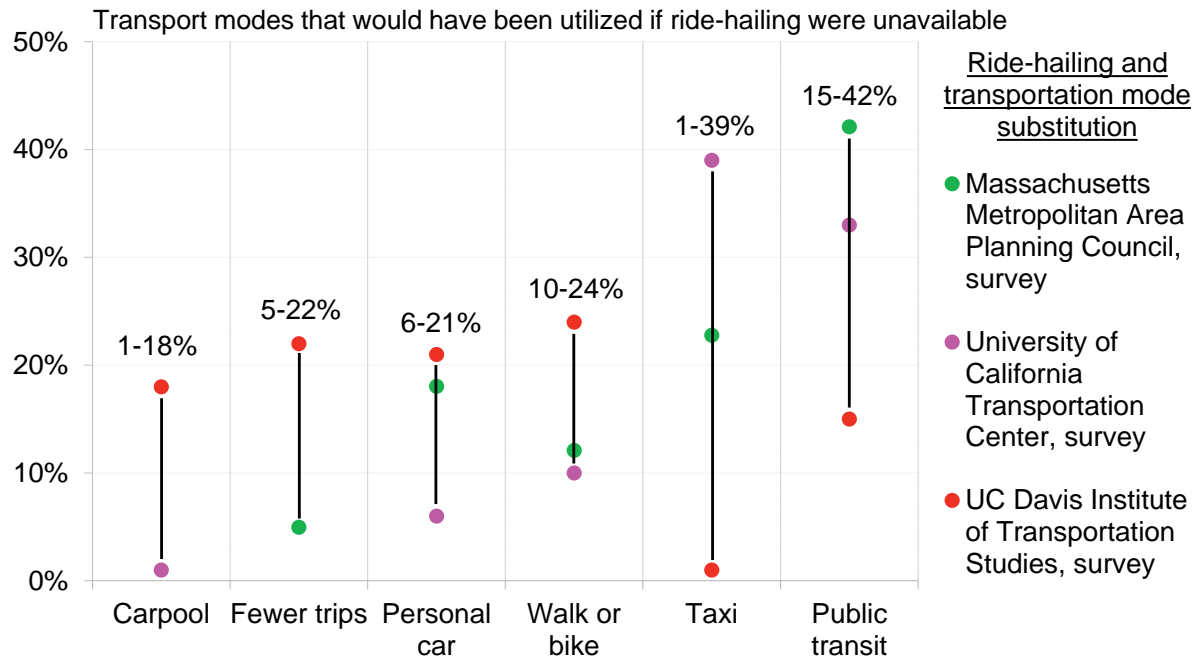
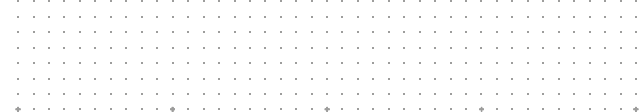


Number of drivers in digital hailing services



Source: BloombergNEF

Digital-hailing challenges: increased congestion



Source: BloombergNEF based on referenced studies

Electrification of digital-hailing



- 600,000 EVs currently on network
- Targeting one million EVs on its network by 2020 and 10 million EVs by 2028.



- >200 electric vehicles on Ola's platform in Nagpur.
- 10,000 e-rickshaws by 2020, one million battery powered vehicles by 2021.



- Completed five million “electric rides” between July 2018 and July 2019.
- Targeting EV-only fleets in London by 2025.

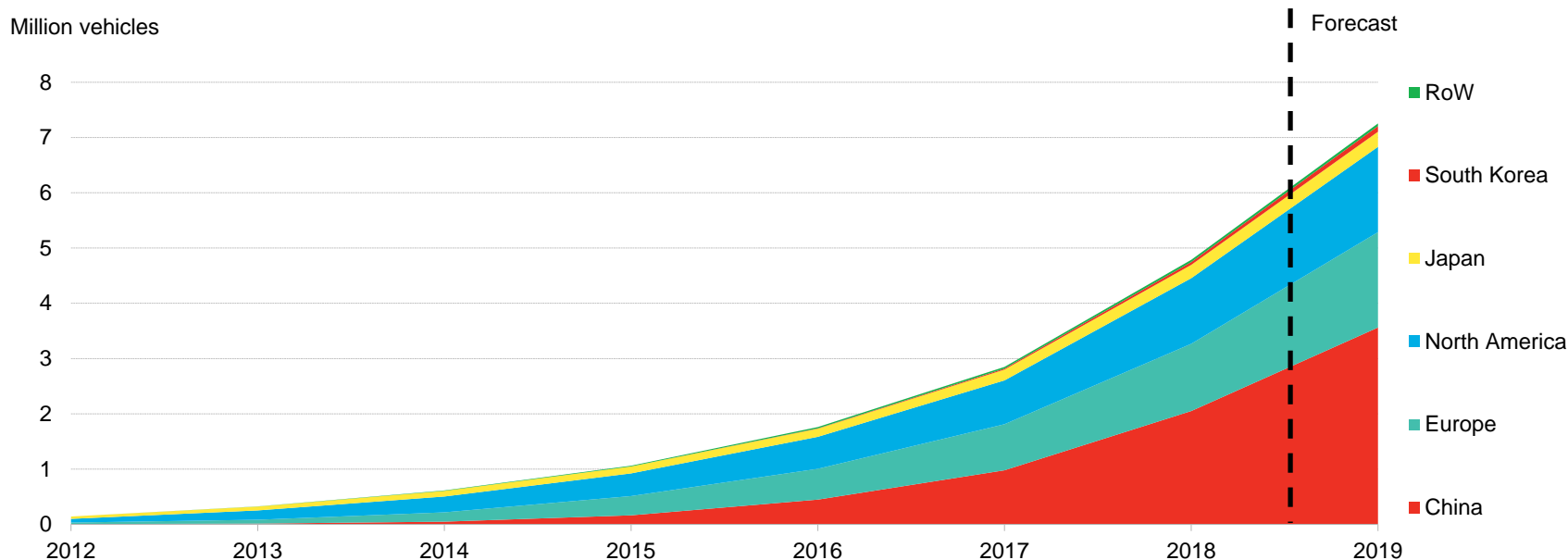


- Carbon neutral taxi rides in the U.K. for 20p premium.
- Electric black cab drivers are charged no fees by Gett for their first 6 months.

lyft, **cabify** & **Bolt** plan to go carbon neutral using EVs as well as by buying carbon offsets

Source: BloombergNEF, company websites, news reports.

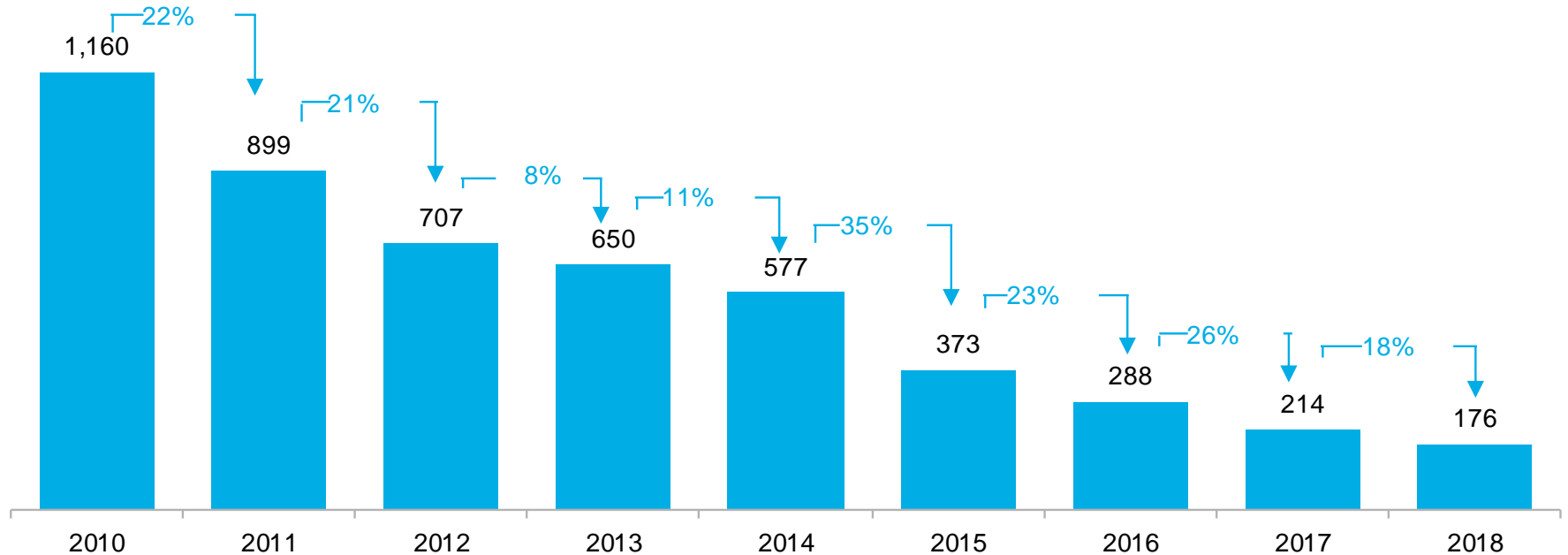
There are now more than 6 million passenger electric vehicles on the road



Source: BloombergNEF. Note: includes battery electric vehicles and plugin hybrid electric vehicles.

Lithium-ion battery prices keep falling

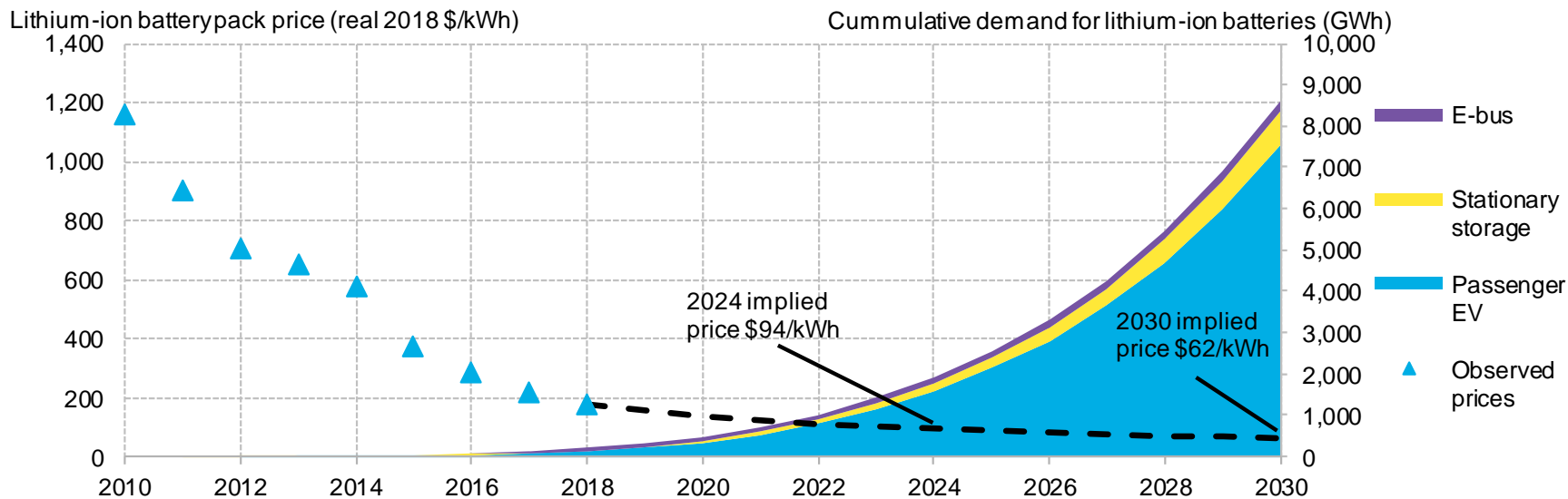
Battery pack price (real 2018 \$/kWh)



Source: BloombergNEF

And cheaper batteries will ultimately make EVs affordable

























Volume-weighted battery pack prices have fallen by 85% between 2010 to 2018



Source: BloombergNEF. Note: Prices are real 2018 dollars

EVs reach upfront price parity starting in the mid 2020s

Timeline for purchase price parity of EVs with ICE vehicles

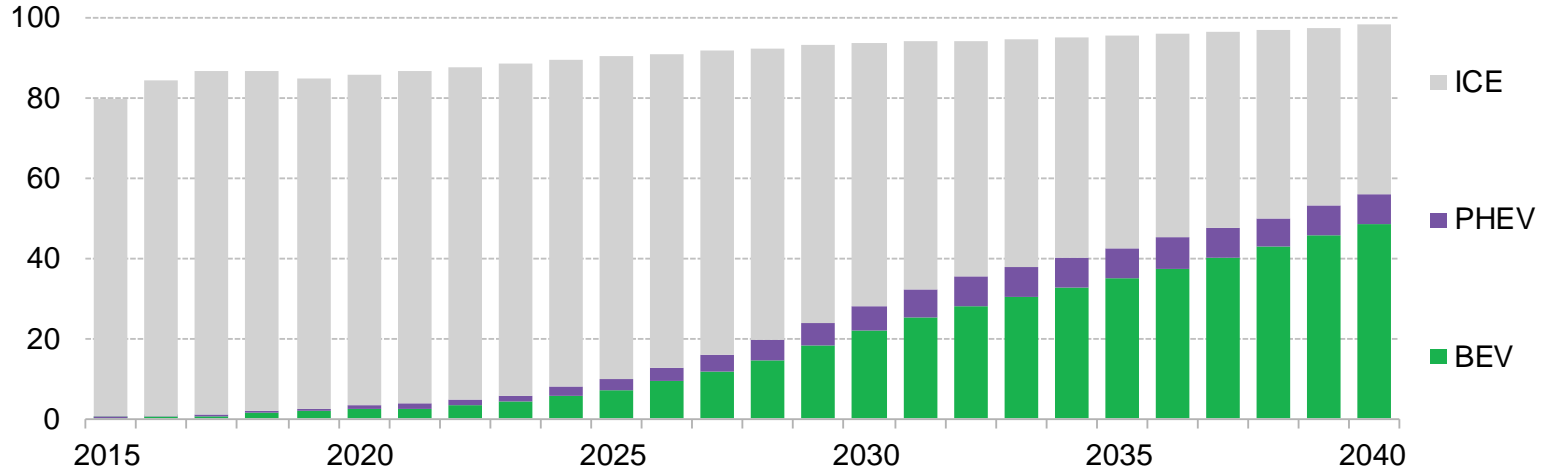
Category	2022-2023	2024-2025	2026-2030	After 2030
Small			  	 
Medium	 	 		 
Large	 		 	 
SUV		 		 

Source: BloombergNEF, Encyclopedia Britannica for flags Note: We assumed the same real world driving range for EVs globally. Small= 200 miles, Medium= 250 miles, Large, SUVs= 300 miles.

Passenger EVs hit 57% of new vehicle sales in 2040

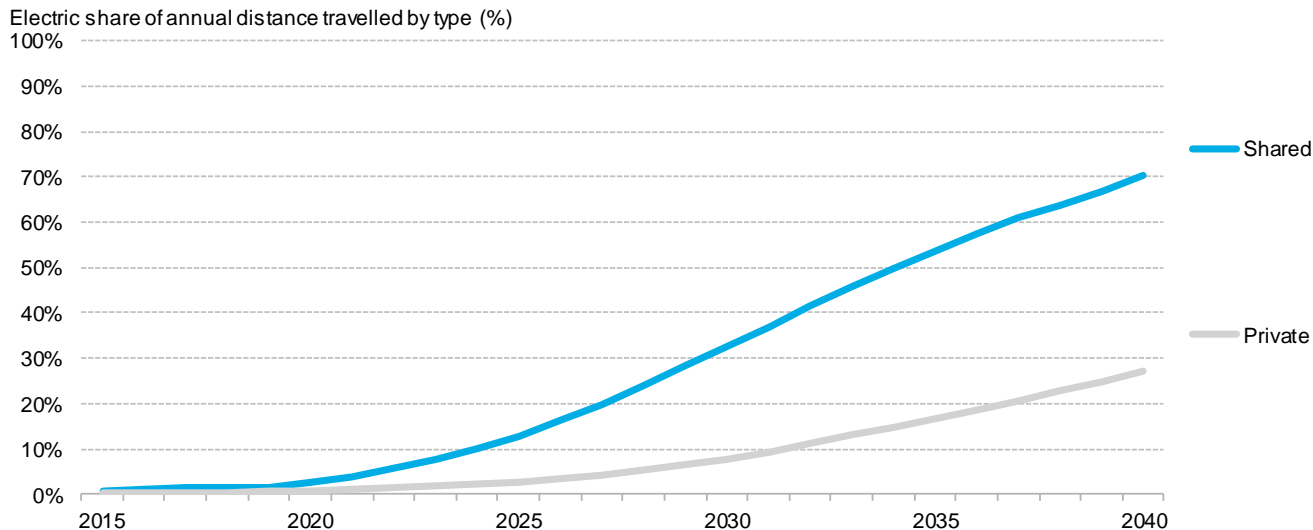
Global long-term passenger vehicle sales by drivetrain

Million vehicles



Source: BloombergNEF

Shared mobility electrifies faster than personal cars due to fuel cost savings



Source: BloombergNEF. Shared includes taxis, ride-hailing and fleet-based car-sharing. Private refers to all other passenger vehicles.

Electrified and shared mobility is not just about cars

Autonomous shuttles



Photographer: Qilai Shen/Bloomberg

Shared electric scooters



Photographer: Anthony Lanzilote/Bloomberg

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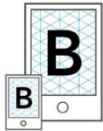
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