

ELECTRIFYING

AUTOS

Four of every five cars sold worldwide will be battery-electric vehicles by 2050, according to analysts Morgan Stanley, with the production of traditional combustion engines soon set to peak. So how is the industry changing, and what are governments and carmakers doing to prepare? This infographic explores eight key ways the auto manufacturing industry is being transformed by electric vehicles

Beijing

15-25%

of commercial buildings and all new residential buildings to be fitted with wire conduits

San Francisco

10%

of parking spaces in new builds must have level-2 chargers

Shanghai

28k

public charging points planned by 2020, taking the total of public and private points to 210,000

Oslo

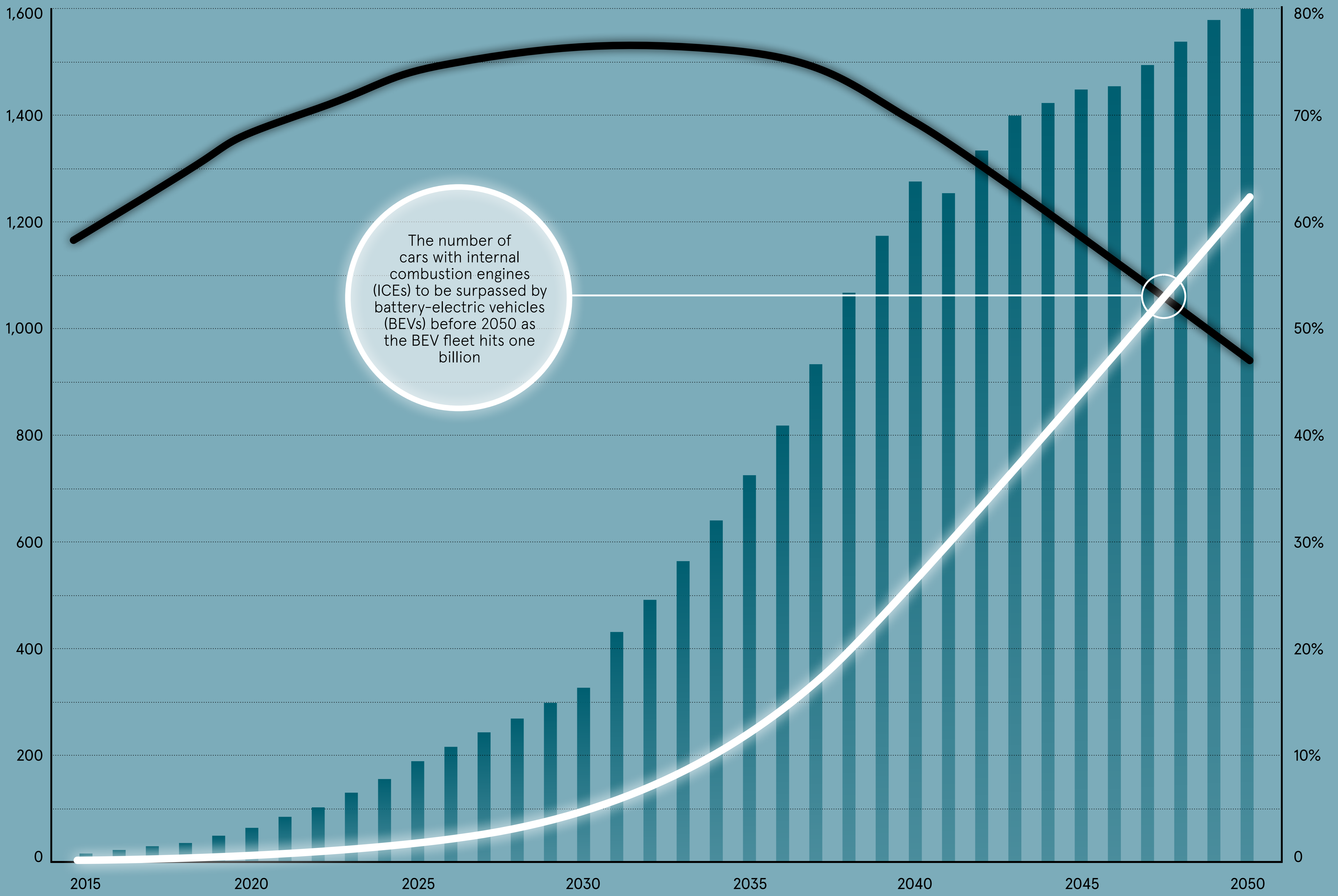
>60%

of charging point installation cost covered by grants

Race for battery-electric vehicle sales

Global passenger car fleet (millions)

BEV fleet
ICE fleet
Battery-electric vehicle sales penetration worldwide

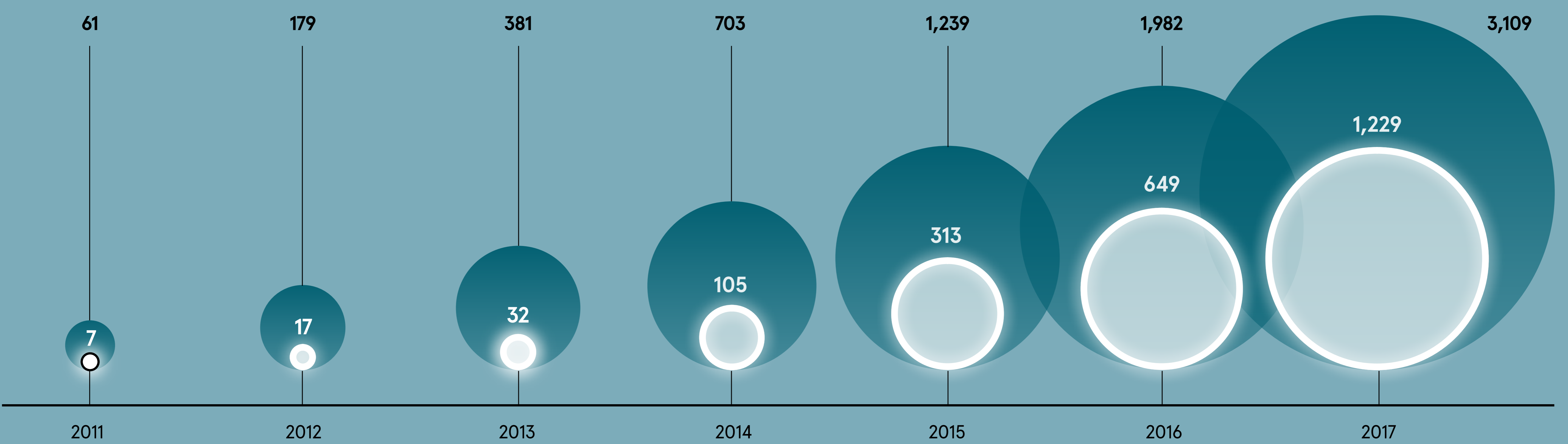


Morgan Stanley 2017

China accounts for 40% of global electric fleet

Number of both battery-electric and plug-in hybrid cars (thousands)

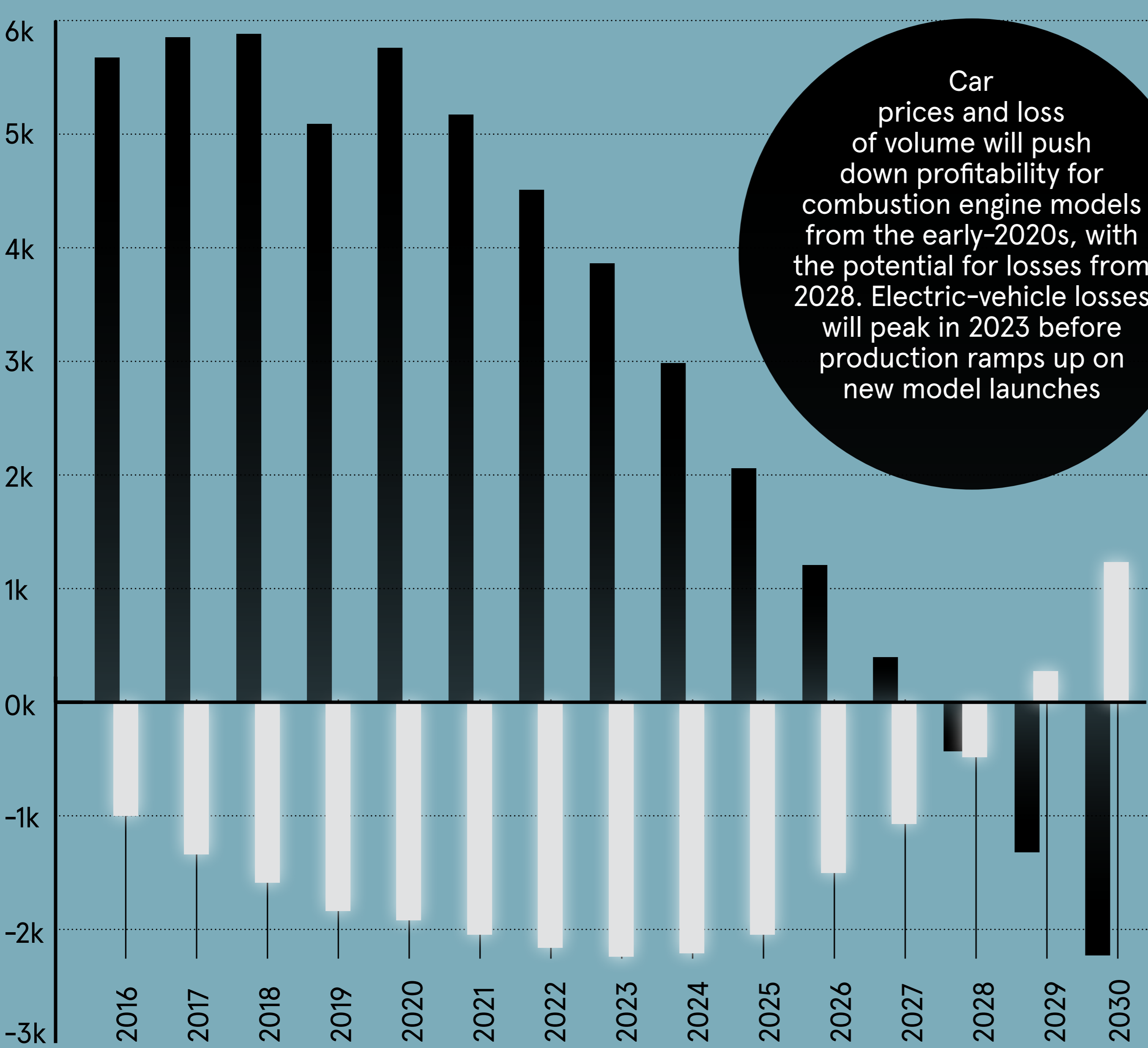
World
China



Transition to electric will be a gamechanger for traditional carmakers

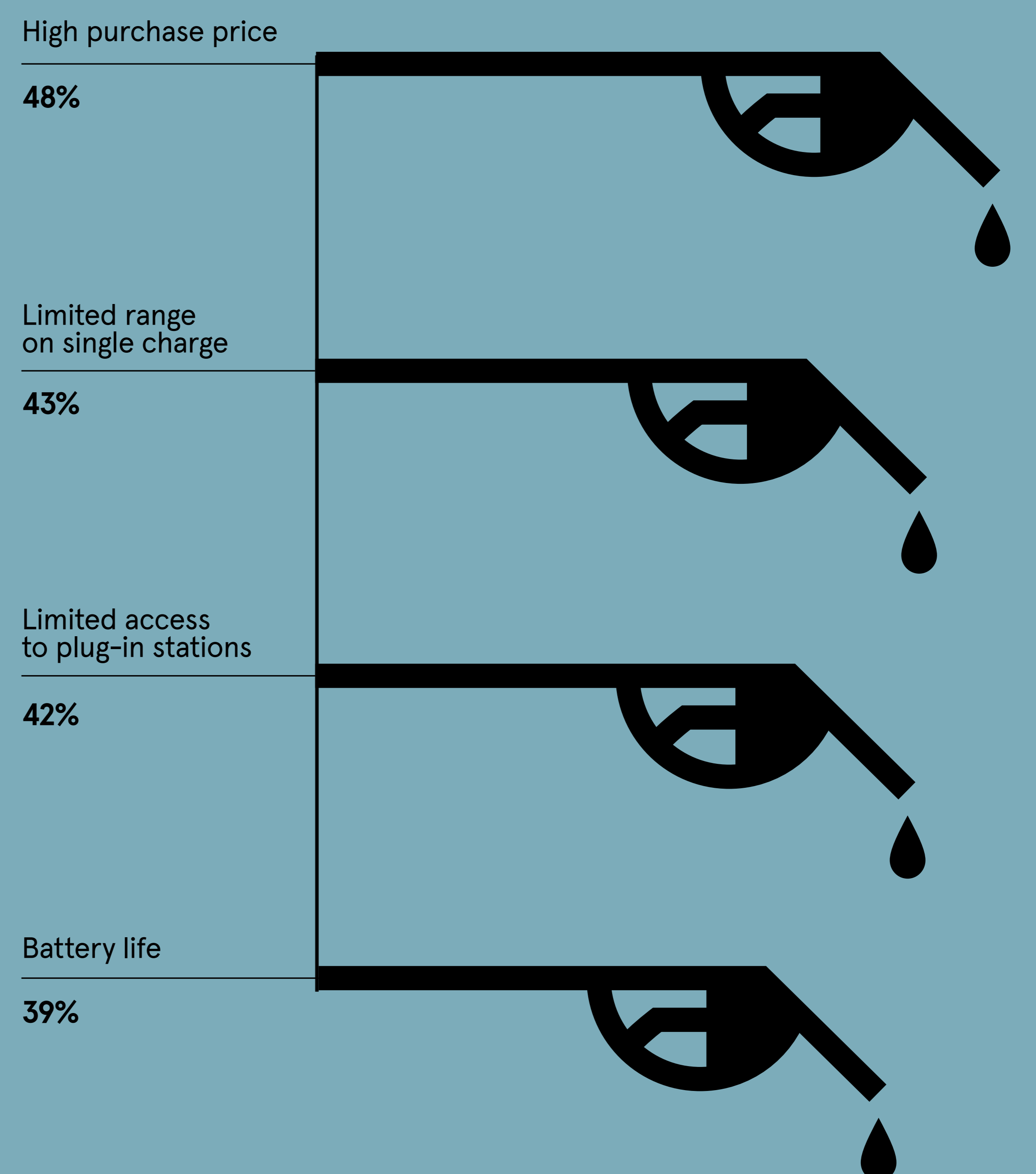
Morgan Stanley estimates of profit and loss of electric and traditional vehicles (€ millions)

ICE EBIT*
EV EBIT*



Factors holding back electric vehicle adoption

Top consumer concerns about battery-electric vehicles



Carmakers are curbing or halting production of diesel engines

Announced measures taken by major manufacturers

