

McKinsey Mobility Consumer Pulse

Media Presentation

June 2024

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McKinsey Mobility Consumer Pulse investigates global consumer perceptions around core future mobility trends

Regular MCFM consumer survey

segmentation

5+ years of historic data

200+



30,000+ respondents who regularly use mobility allowing for detailed consumer profiling and

Questions on the industry-shaping

mobility trends & disruptions

15 countries since 2021 across the globe, covering more than 80% of global sales volumes

Countries in 2024



The most comprehensive view on mobility consumer trends...



10 key numbers from the 2024 McKinsey Mobility Consumer Pulse

Global insights



Of respondents who do not have an EV yet, consider a BEV¹ or PHEV² as next car



Of electric vehicle owners consider to switch back to a traditional combustion engine car



21%

Of car buyers consider autonomous driving functionalities as key buying factor for their next car

Would like to replace their private vehicle completely with other forms of transport in

the next 10 years



Of European EV buyers open to considering a Chinese brand for next purchase

9%

Consider current electric vehicle charging infrastructure to be sufficient

59%

Of EV buyers want to use more digital connectivity services in the future

37%

Of electric vehicle buyers consider to get their next car online

1. BEV = Battery electric vehicle

2. PHEV = Plug-in hybrid electric vehicle

Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954



Over the past 12 months market cap of mobility companies has grown mostly with OEMs

Market capitalization \$ Billions



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Electrification intent and EV buying

EV charging

Connectivity

Autonomous driving technologies

General mobility patterns, urban and micromobility

Global purchase intent for electric vehicles continues to rise, however more slowly



Additional Insights

Top reasons given by peoplewho don't want to switch to EV:Too expensive45%

Charging concerns33%Driving range concerns29%

Interest in BEV from respondents who drive **premium/luxury segment** vehicles ~2x higher than from those who drive volume/entry level cars

Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954

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Data available for:

27% of European consumers say they are likely to consider a Chinese electric vehicle brand

Likelihood to consider purchasing an electric vehicle from a Chinese brand Share of European respondents who own an EV or consider to do so in the future stating (very) likely



? How likely are you to buy an electric vehicle from a Chinese car brand some time in the future?

Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954



EV buyers are younger, more urban and more tech-savvy

Buyers who **consider an electric vehicle** at next purchase...



Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954

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Data available for:



Highest barriers for electric vehicle adoption are low familiarity with the technology and high perceived cost



Reasons for consumers **not wanting to buy an electric vehicle**...



29% of EV owners globally likely to switch back to ICE, mostly because of difficulties with charging

Share of EV owners (very) likely to switch back to ICE

Likelihood of current EV owners to switch back to ICE

Reasons to switch back to ICE

Global respondents





Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954

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The current economic situation is heavily impacting car purchase behaviors – online buying is becoming more important

Expected adjustments to next car purchase given current economic situation

Share of respondents (very) likely

Data available for:



Preferred purchase channel for next electric vehicle Share of US respondents who consider to own an electric vehicle in the future



Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954, US N = 4,112

Electric vehicle buyers consider in-car technology more important than the average car buyer



Key decision factors for next car purchase

Relative importance of factor indexed to 100

Data available for:



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Satisfaction with charging availability has improved slightly, but still has a long way to go

Perception of charging infrastructure readiness Share of respondents globally



EV owners

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Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954

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Data available for:

Global insights

Trend since 2022

Battery range expectations have been increasing over time – up 30% over last 5 years



BEV battery range expectations historically and by segment

For respondents considering to get an electric vehicle, in miles



Additional Insights

Range expectations have been increasing over time (+ ~30% in the past 5 years) and are outpacing actual range improvements: Since 2022 consumers demand 5% more range, while actual range increased by only 2%

Consumers who want to buy an EV as a secondary vehicle have almost identical range expectations as those who are looking for a primary vehicle



of EV considerers say that current EV driving range prevents them from purchasing one

1. Real life range with assumed mix of city, country and highway driving

Data available for:

EV skepticism and age are strongest influencing factors for battery range expectations



Battery range requirements for customers to be willing to switch from ICE to EV

Battery range in miles, global average battery range requirement of 291 miles



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Data available for:

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Consumers looking to increase usage of digital services in their car significantly – yet only 20% are satisfied with today's offering

Global insights

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Future usage of in-car connectivity solutions

Share of respondents



only 20%

Data available for:

of consumers are satisfied with their current in-car connectivity offerings

Pain points of digital car solutions and connectivity offers Share of respondents



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Majority of car buyers anchors on smartphone integration systems as default connectivity experience

Global insights

1 out of 3 car buyers **would not buy a car without smartphone integration**, another 20-30% is open to pay for it



Would you buy a car that has no automatic smartphone integration interface as part of its base vehicle specification?

Data available for:

Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954

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Only **35% of customers** would **switch to using native system** if smartphone integration was cut – **14% at risk for switching brand**



What would you do, if smartphone integration was no longer available in your car to project your smartphone content?

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Driver assistance features as core purchase factor for 21% of global car buyers

Data available for:

Main purchase factor (1-7) Rounding-out purchase factor (8-14) Non-essential purchase factor (15-21)

Importance of driver assistance features for car purchase Share of respondents



3 groups of car buyers regarding driver assistance features

Fans

Mature driver assistance features are among main purchase factors

Considerers

Driver assistance features are rounding out purchase factors, car purchase decision is determined by other factors

Agnostics

Driver assistance features are **non-essential** purchase factors

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Overall readiness to adopt autonomous driving technology varies across markets, safety is the biggest concern

Agreement to government legalization of fully autonomous cars on the roads

Share of respondents



Main roadblocks to adopt autonomous driving technology Share of global respondents



Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954

Majority of urban mobility users is open to using shared autonomous shuttles

Consideration to use shared autonomous shuttles

Share of urban respondents

Data available for:



Yes No - privacy concern No - travel time concern

Would you share a Robo-shuttle service with 4-8 passengers if it would add not more than 10-15% to your travel time and saved you 50% of the cost?

Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954

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Mobility mode replaced by shared AV shuttles

Share of global urban respondents who consider using AV shuttles



Which transport mode are you currently using for the trips that you plan to use a robo-shuttle for in the future?

Consumers are open towards autonomous taxi services and most expect to pay less than for a traditional taxi

Global insights



Consideration to use autonomous taxis

Share of respondents



Provided the technology is safe and service operations are reliably established, how likely are you to use autonomous taxi services?

Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954

Data available for:

Price expectation for autonomous taxis vs. traditional taxi

Share of respondents who consider using

Consumers are open towards autonomous taxi services and most expect to pay less than for a traditional taxi



Provided the technology is safe and service operations are reliably established, how likely are you to use autonomous taxi services?

Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954

Data available for:

Consideration to use autonomous taxis

Global insights

(Very) likely Rather likely Not likely

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29% want to replace their car by other forms of transport in the future – driven by cost and sustainability concerns



"Within the next 10 years, I will **replace my private vehicle completely** with other forms of transport."

Share of respondents, who own a car

Data available for:



Main reasons to replace car entirely in the future

Share of respondents, who own a car



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Stop counting cars and start counting users – classical ownership shifts to an access and usership mindset



Consumer sentiment on flexible mobility ownership

Share of respondents

Data available for:

Source: MCFM Mobility Consumer Insights, Annual MCFM Mobility Consumer Survey 2024, dated February 2024, global N = 36,954

Global insights

The McKinsey Mobility Consumer Pulse listens to the consumer heartbeat across the main future mobility themes

On-demand mobility consumer insights

100,000+ consumer data points each year to gauge future mobility consumer sentiment Regular global mobility consumer pulse

Integrated MCFM consumer data lake Regular primary consumer research using online panels: thematic deep dives every two months, one big annual survey

Collecting more than 100,000 consumer data points each year – covering wide range of mobility topics across B2C/B2B ecosystem Working together with world-class consumer research agencies

One data lake with harmonized data structure and labeling across the best of our MCFM consumer knowledge

Central access to historic trajectories of more than 5 years on selected dimensions to capture consumer trends and speed of mobility evolution

Tableau-based analytics interfaces for rapid data access Tableau Workbench tools as flexible data exploration and analytics interface to rapidly work with mobility consumer data



McKinsey Mobility Insights Portal