

KPMG's 21st consecutive

# Global Automotive Executive Survey 2020

Say goodbye to one global market – recognize increasing localization, accelerated by COVID-19.

Including



COVID-19 **EXEC SUMMARY MEGATRENDS PRODUCT CUSTOMER ECOSYSTEM** SO WHAT: COVID INTRO **OUR GLOBAL AUTOMOTIVE EXECUTIVE SURVEY JOURNEY** AN ADVENTURE SINCE 21 YEARS... 2020 SAY GOODBYE TO ONE GLOBAL MARKET – RECOGNIZE INCREASING LOCALIZATION, "OEMs need to think about how to reshape their business model from a genuinely product-driven ACCELERATED BY COVID-19. 2019 approach to a more service & customer-oriented model." "Seamless Vehide2Grid transition is a treasure of islands." "Mobile connectivity, the value of customer data and self-driving cars are the next big thing." "New non-asset 2018 based players "The auto business is part of an open, "The automotive industry will have to adapt will increase in dynamic, & self-organizing ecosystem to and shape the converging world of significance in consisting of physical assets, services and personalized mobility and the internet of the automotive content. Finding the right balance everything." "Say good bye to a complete autovalue chain until between where to compete, cooperate or digital fusion – say hello to the 2025." consolidate with industry peers and to 'next' dimension of cowisely co-integrate content from nonintegration." as set based digital challengers is key." "Get ready for the **post powertrain** 2012 ecosystem. Acceleration is not all that matters in self-driving cars." **OUR COVID-19 JOURNEY JUNE 5TH MID-JULY FEBRUARY MARCH APRIL INTEGRATING COVID-19 IMPACT ONLINE QUESTIONNAIRE BEGINNING OF** PLANNED LAUNCH: **OFFICIAL LAUNCH EXECUTIVE SUMMARY** COVID-19 **BEIJING AUTO SHOW** 

INTRO COVID-19 EXEC SUMMARY MEGATRENDS PRODUCT CUSTOMER ECOSYSTEM SO WHAT: COVID

# WHAT'S NEW IN THIS YEAR'S SURVEY

#### ★ DEMOGRAPHICS: MORE RESPONDENTS THAN EVER!

- Over 1.100 executives from 30 countries
- More than **2.000** consumer opinions from **30** countries
- NEW: Integration of truck manufacturers into the stakeholder portfolio of automotive & ICT companies
- More than 50% of the executives are CEOs & C-level



- The platform has a completely **new look** and is **easy to use**
- Explore your own analyses based on your specific interest
- Customize your own dashboards
- See the difference in opinion: Executives vs. Consumers



#### **MOBILE VERSION**

- A comprehensive mobile version for on the go was created for your mobile/tablet
- 90% of the dashboards can be interactively viewed on your mobile/tablet

# NEW FUNCTIONALITIES:

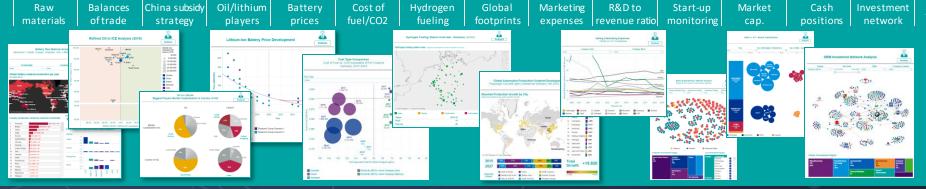
- Improved **search function** has been developed
- Chapter highlights have been created
- New share functionalities



# \*

#### HOW AUTOMOTIVE INSTITUTE ANALYSES COMPLEMENT THIS YEAR'S SURVEY LIKE NEVER BEFORE:

14
Automotive
Institute
analyses
revealing
deep industry
know-how





INTRO COVID-19 EXEC SUMMARY MEGATRENDS PRODUCT CUSTOMER ECOSYSTEM SO WHAT: COVID

# **COVID-19 HIGHLIGHT** | 8 KEY OPINIONS ABOUT THE IMPACT OF COVID-19

for direct access to COVID-19 chapter

- We believe that it is essential to acknowledge COVID-19 as a global wave movement, which must be assessed simultaneously from a global production and sales footprint perspective.
- Wave management models capturing the time delay within supply and demand chains are now required. This is a development that we have already seen with the SARS disease, but which began to decline after the initial wave.
- The COVID-19 crisis will lead to fundamental changes in demand, with the effect of a much deeper systematic recession. Sales teams should not be laid off. Instead, companies should focus intensely on managing customer relationships and digital demand and providing flexible, low up-front cost offerings to actively counteract increasing consumer uncertainty and TCO-driven purchases.
- KPMG's Automotive Institute believes that there will be long-term effects on public transport. People will move away from public transport and are willing to spend more money to feel safe China's panic-like fear of disease and fever has led to an increasing demand in the high-end and low-end sectors.
- Companies with strong liquidity can take advantage of the opportunities in new partnerships that lie ahead, including the detection of M&A targets in a market that expects widespread consolidation. The crisis also serves certain companies with the ability to redefine themselves in the market.
- Differentiating between cultures becomes essential: While China and the USA tend to have spending cultures, consumers in Japan and Germany are rather reluctant to spend. Increasing credit volumes could result in growth in demand.
- CO2 targets will be tested, and the widespread adoption of e-mobility will depend on high government subsidies. Without these, e-mobility will only be able to survive in certain application areas, such as in cities.
- There is only one way forward and that is to redefine competition towards industry-wide "co-ompetition". This means to collectively ensure supply chain stability, alongside a global readjustment to a reduced demand structure, channeled through digital demand management and service factories.



**INTRO** COVID-19 **MEGATRENDS CUSTOMER** SO WHAT: COVID **EXEC SUMMARY PRODUCT ECOSYSTEM** 

# **EXECUTIVE SUMMARY** | SAY GOODBYE TO ONE GLOBAL MARKET – RECOGNIZE INCREASING LOCALIZATION, ACCELERATED BY COVID-19

Almost all execs see sustainability as a key differentiator (98%), but 17% of consumers still do not recognize this at all - KPMG believes that the industry would benefit from a cradle to grave sustainability rating.

Community and group thinking on sustainability does not yet exist in the automotive industry, mainly because the criteria for classifying a product as sustainable are still not precise and transparent enough for customers.

**Competition is back:** In contrast to last year,

manufacturers and ICT companies has increased.

Nearly **three in four** executives agree that the

increase, with the debt levels of OEMs expected

importance of **financial service** entities will

More than 40% of all executives agree that

monetizing data is best done with safety-

oriented applications such as car-2-x

competition (50%) between automotive

**83%** of execs agreethat regulators and industry policies are driving technological agendas – subsidy strategies and tax breaks will be essential instruments.

**73%** of execs agreethat a country's mineral resources dictate the country's preferred powertrain technology.

76% of executives agree that by 2030 less than 5% of global car production will occur in Western Europe - a 9% increase in voter share since last year.

BEVs, connectivity & digitalization, FCEVs, and PHEVs have established themselves as the most important key trends in the industry since 2017.

We believe that it is essential to a cknowledge COVID-19 as a global wave movement, which must be assessed simultaneously from a global production and sales footprint perspective.

People will move away from public transport and may be willing to spend more money to feel safe. In China, for example, we have already seen an increase in demand in the high-end and low-end passenger vehicle segments due to the panic-like fear of disease.

**SUSTAINABILITY** 

**INDUSTRY POLITICS** 

**RAW MATERIALS** 

REGIONAL SHIFTS

**KEY TRENDS** 

**COMBUSTION ENGINE & VEHICLE** 

**ARCHITECTURE** 

**ELECTRIC & FUEL CELL READINESS** 

> **AUTONOMY READINESS**

COVID-19

For the first time in the history of our survey, execs think that by 2030 the largest share of vehicles will not be powered by an ICE: FCEVs,

BEVs, PHEVs, and ICEs will co-exist.

Providing a hassle-free and a seamless charging experience is essential for general BEV adoption -84% of consumers see the responsibility for charging infrastructure with OEMs.

77% of execs agree that mixed traffic between autonomous and non-autonomous vehicles will lead to severe safety issues and liability claims.

**CO-OMPETITION** 

TRANSFORMATION **READINESS** 

**DATA SUPREMACY** 

GAES 2020

**MEGATRENDS** 

**CUSTOMER** 

**RETAIL OF THE FUTURE** 

**SEAMLESS MULTIMODAL** MOBILITY

**CUSTOMER CENTRICITY** 

More than **60%** of execs believe that the number of physical retail outlets will decrease between 20-30% globally.

One of the biggest challenges for retail organizations will be the software-driven **development** in vehicles, for which consumers are favor a central support organization.

The increasing amount of software in vehicles will impact the **independent aftermarket**: The more software, the less successful the independent aftermarket will become.

COVID-19 will lead to much tighter budget mgmt. and TCO-orientation among consumers. Consumers will weigh up physical integrity risks against budgetary restrictions.

There is no "one and only" global mobility **concept:** Instead, we expect to see different mobility concepts for cities and rural areas. More than 80% of global executives agree.

KPMG's Automotive Institute believes that post-**COVID uncertainty** demands solutions for customers that allow for more **flexibility in** contractual commitments.

Customer mobility decisions will be driven by data privacy & security, TCO, and a seamless and hassle-free mobility experience.

**OEMs** can defend their lead in the battle for valuable customer relationships - nearly half of all execs and consumers agree that OEMs will also be closest to the customer in 5 years' time.

We are further from **online purchasing** than expected: 1 in 5 global consumers say that they will not buy a car online.



to rise.

communication.

## **MEGATRENDS**

# **AUTOMOTIVE KEY TRENDS**

One global answer to all strategic directions does not reflect reality - companies must develop **independent regional strategies** for customers and markets alike.

**76%** of executives agree that by 2030 less than **5%** of global car production will occur in **Western Europe** - a 9% increase since last

REGIONAL SHIFTS

# **SUSTAINABILITY**

Almost all execs see sustainability as a key differentiator (98%), but 17% of consumers still do not recognize that at all - KPMG believes that the industry would benefit from a cradle to grave sustainability

rating.

Community and group thinking on sustainability does not yet exist in the automotive industry, mainly because the **criteria for classifying a product as sustainable** are still not precise and transparent enough for customers to make reliable decisions.

COVID-19 may now shift the industry's focus from technological development to a more **survival** and operationally focused agenda.

BEV, connectivity & digitalization, FCEV, and PHEV have established themselves as the most important key trends in the industry since 2017.

year.

Instead of simply one global regional shift in the automotive industry, we will witness a variety of more

**localized shifts** for different technologies, markets, and applications, assisted by an as yet undetermined degree of deglobalization following COVID-19.

RAW MATERIALS **73%** of execs agree that a country's mineral resources dictate the country's preferred powertrain technology.

## **INDUSTRY POLITICS**

**83%** of execs agree that regulators and industry policies are driving technological agendas – subsidy strategies and tax breaks will be essential instruments.

Raw materials will play a crucial future role in driving regionally differentiated industry politics, technological agendas of OEMs, and EV battery prices. Through their impact on regionally differentiated industry politics,

raw materials will furthermore prevent the development of a single globally dominant powertrain in the long run. Efficiency savings through economies of scale will not outweigh increases in demand for batteries and battery raw materials—this will result in

increased battery
prices in the mid to long-term.

#### SUSTAINABILITY

COVID-19 shifts consumer priorities and strengthens TCO-driven thinking: widespread adoption of sustainability as a key differentiator may now become more difficult in the short-term.

#### **INDUSTRY POLITICS**

In response to a drastic change in external market conditions due to the COVID-19 crisis, the extension of subsidies for EVs in China this year demonstrates the remarkable flexibility of China's industry politics.

#### **RAW MATERIALS**

If government EV incentives fall away in the wake of a COVID-19, we believe that short-term purchase decisions will be dominated by TCO factors, significantly impacting the rate of transition to low carbon mobility.

#### **REGIONAL SHIFTS**

With the expectation that COVID-19 will have a greater impact on the automotive industry in Western Europe than in China, we will likely see a further reduction in the production share accounted for by Western Europe.

# AUTOMOTIVE KEY TRENDS

In light of negative growth in both global production and sales in 2019, one can expect cost cutting and rationalization, combined with increased M&A activity.



**COMBUSTION ENGINE &** 

VEHICLE ARCHITECTURE

KPMG's Automotive Institute
believes that COVID-19 will

powertrain mix forecasted.

especially if subsidy schemes

are to fundamentally change.

lead to a delayed development of the future

# **PRODUCT VALUE**

# COMBUSTION ENGINE & VEHICLE ARCHITECTURE

There will be no clear single investment strategy, as long as raw materials and industry politics have a country-specific or regional root.

For the first time in the history of our survey, executives think that by **2030** the largest share of vehicles will not be powered by an ICE drivetrain: FCEVs, BEVs, PHEVs, and ICEs will co-exist and complement each other.

77% of execs agree that mixed traffic between autonomous and non-autonomous vehicles will lead to severe safety issues and liability claims.

# **AUTONOMY READINESS**

intelligence.

Both executives and consumers believe that fully **autonomous vehicles** are further from being implemented than originally predicted. More than 1 in 5 execs don't believe in the adoption of autonomous vehicles before **2040**.

KPMG's Automotive Institute believes that autonomous vehicles will only be truly successful in isolated regions – "islands of autonomy" – where each vehicle follows the same set of rules, grounded in bionic swarm

Dmy" – where each ollows the same set of unded in bionic swarm

ELECTRIC & FUEL CELL READINESS

The recent drop in crude oil prices due to COVID-19 also

lowers the cost of fuel for ICE vehicles powered by diesel and gasoline, resulting in lower costs in USD/km compared to BEVs.

#### **AUTONOMY READINESS**

With the economic impact of COVID-19 reinforcing TCO-driven thinking, we believe the uncertainty surrounding the application of AVs is likely to only increase in the short to medium term, as the focus of consumers shifts to only necessary, as well as tried and tested, technologies.

For consumers, **price** is the most important aspect when considering buying an **EV.** 

seamless charging experience is essential for general BEV adoption - **84%** of consumers see the responsibility for charging infrastructure with OEMs.

Providing a hassle-free and a

Executives continue to see **BMW** as the top e-mobility leader, but its leading position is challenged by **Tesla**, which strengthened its second-place ranking this year.

**84%** of executives think that **FCEVs** will experience their breakthrough in industrial transportation - a **5%** increase compared to **2019**.



**ELECTRIC & FUEL C** 

INTRO COVID-19

**EXEC SUMMARY** 

We are further from online

will not buy a car online.

purchasing than expected: One in

**five** global consumers say that they

**MEGATRENDS** 

**PRODUCT** 

**CUSTOMER** 

**ECOSYSTEM** 

**SO WHAT: COVID** 

# **CUSTOMER VALUE**

Understanding your customer at individual touchpoints is key – customer mobility decisions will be driven by **data privacy & security, TCO,** and a **seamless and hassle-free** mobility experience.

With increasing complexity in

customer relationship management,

**expenses** to increase; this isn't

giants, meanwhile, are pursuing the

opposite strategy.

the case for automotive players. Tech

one might expect marketing

# **CUSTOMER CENTRICITY**

It is crystal clear: OEMs can defend their lead in the battle for valuable customer relationships -

# nearly half of all execs and consumers

**agree** that OEMs will also be closest to the customer in 5 years' time.

# **RETAIL OF THE FUTURE**

One of the **biggest challenges** for retail organizations will be the software-driven development in vehicles, for which consumers are most likely to favour a central support organization.

More than 60% of execs believe that the number of physical retail outlets will decrease between 20-30%

The increasing amount of software in vehicles will have an impact on the **independent aftermarket:** The more software components are built into cars, the less successful the independent aftermarket will become.

globally.

SEAMLESS MULTIMODAL

MOBILITY

KPMG's Automo

KPMG's Automotive Institute believes that post-COVID uncertainty demands solutions for customers that allow for more **flexibility** in contractual commitments.

Long-term cumulative total cost of usership (TCU) for mobility services is being neglected. TCO seems to not be a main driver in customer decision-making when choosing between these different services.

There is no "one and only" global mobility concept: Instead, we expect to see different mobility concepts for cities and rural areas. More than **80%** of global executives agree that cities will have completely different mobility concepts than rural areas.

## CUSTOMER CENTRICITY

53% of consumers make data and cyber security an absolute prerequisite for their purchase decision. This is followed by TCO, with 46% of all consumers in agreement and which is likely to further increase due to restricted spending behaviour as a result of COVID-19.

# SEAMLESS MULTIMODAL MOBILITY

A direct response to the more difficult post-COVID economic environment: Help customers by offering contract flexibility with subscription models.

COVID-19 will lead to a much tighter budget management and TCO orientation among consumers. Consumers will weigh up the risk of physical integrity against cost when considering mobility services.

#### **RETAIL OF THE FUTURE**

There will be a dramatic reduction or reshaping of 20%-30% of physical retail outlets. The post-COVID-19 crisis will enforce this result.



# **ECOSYSTEM VALUE**

More than **40%** of all executives agree that monetizing data is best done with **safety-oriented applications** such as car-2-x communication.

## **CO-OMPETITION**

capitalization of the
top 15 mobile
tech & web/digital
companies is
more than 5

that of the **top 50** traditional automotive OEMs & suppliers.

times as high as

Market

We see cultural similarities and geographical axes between **USA/China** and **Germany/Japan** – a finding also reflected in the responses of this year's survey.

Competition is back:In contrast to last year and according to this year's executives,

#### competition

between automotive manufacturers and ICT companies has increased.

READINESS

Executives have shown a stable opinion in the last three years: New values, such as

**miles driven**, measure market success, not units sold.

DATA SUPREMACY

China is the frontrunner in thinking in ecosystems: In comparison to traditional auto manufacturers,

ICT companies are the clear winners of the data race.

Executives and consumers are not aligned regarding who consumers would **trust** most with their data.

Nearly **three in four** executives agree that the importance of financial service entities will increase, with debt levels expected to rise.

**82%** of executives are confident that measuring vehicle usage or miles driven will become the new focus. However, most companies still do not implement ecosystemoriented measures.

Due to an increasing number of mobility service offerings, we expect **debt levels** and the **importance of financial services** to increase.

#### **CO-OMPETITION**

With the currently expected post COVID-19 economic recession, we believe that even more OEM and Tier One suppliers will be forced to start cooperating and consolidating within the industry, than we have ever seen before.

# TRANSFORMATION READINESS

In the future, profits will be determined by access to data and miles travelled, not by units sold, especially if car ownership in certain applications, such as cities, is fundamentally decreasing. One prerequisite, especially in COVID-19 times, will be making people feel safe in cars used by others, as in mobility solutions.

#### **DATA SUPREMACY**

Safety-oriented applications like car2x communication or even physical safety dominate the opinion of the executives surveyed worldwide (41%). With new realities after COVID-19, we even assume that this perspective will grow, as now physical integrity becomes much more important.



INTRO COVID-19 EXEC SUMMARY MEGATRENDS PRODUCT CUSTOMER ECOSYSTEM MATERIAL

# MATERIALS | THE MATERIALS WE HAVE AVAILABLE FOR YOU

# TODAY JUNE 5TH



INTERACTIVE ONLINE VERSION

**VISIT THE LINI** 



THIS PRESS DOCUMENT WITH KEY MESSAGES



**FLYER** 

MID-JULY 2020



#### **EXECUTIVE SUMMARY**

WITH TOPICS THAT CATCH THE MOST INTEREST AMONG OUR READERS



**INTRO** COVID-19 **EXEC SUMMARY MEGATRENDS PRODUCT CUSTOMER ECOSYSTEM MATERIAL** 

# YOUR KEY CONTACTS





Dieter Becker Global and EMA Head Automotive Practice

**KPMG** International Tel: +49 89 9282-6720 dieterbecker@kpmq.com

KPMG



Aline Dodd Global and EMA Executive for Automotive

**KPMG** International Tel: +49 89 9282-6259 alinedodd@kpmq.com

KPMG



Gary Silberg Successorfor: Global Head Automotive Practice as of July 1st 2020 **KPMG** International Tel: +1 312 665 1916 gsilberg@kpmg.com

© 2020 KPMG International Cooperative, a Swiss entity

KPMG



Angelika Huber-Straßer Automotive Leader Germany

**KPMG** in Germany Tel: +49 89 9282-1142 ahuberstrasser@kpmg.com

© 2020 KPMG AG Wirts chafts prüfungs gesellschaft

**KPMG** on social networks











www.kpmg.com/automotive

The information contained herein is of a general nature and is not intended to address the circumstances of any particular individual or entity. Although we endeavor to provide accurate and timely information, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should act on such information without appropriate professional advice after a thorough examination of the particular situation.

© 2020 KPMG AG Wirtschaftsprüfungsgesellschaft, a member firm of the KPMG network of independent member firms affiliated with KPMG International Cooperative ("KPMG International"), a Swiss entity. All rights reserved.