

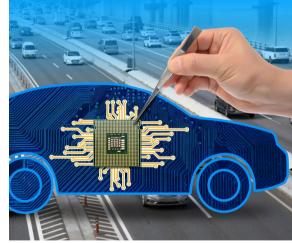
Environmental analysis of the Autotech industry

(credits to McKinsey & Company and Roland Berger)











Why capital markets love mobility



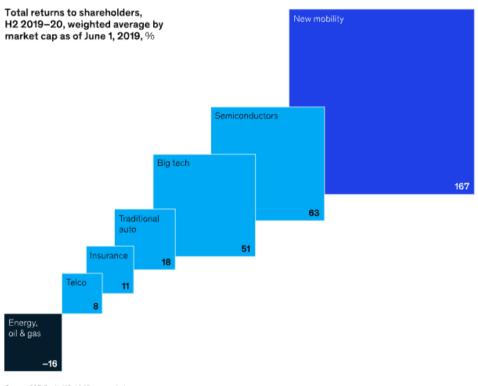


Why capital markets love mobility

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 Autonomous driving, connected vehicles, the electrification of the powertrain, and shared mobility
 (also called the ACES trends)

Capital market performance varies by industry cluster.



Source: S&P Capital IO; McKinsey analysis



Connected consumer is the future



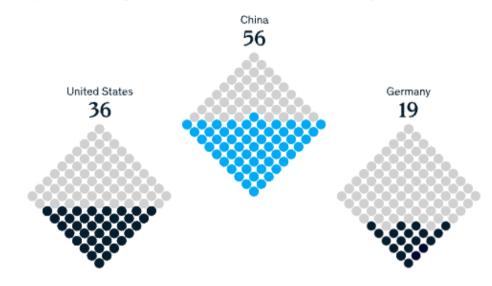
Connected consumer is the future

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- Providing data and connected services directly to consumers,
 OEMs and other actors has enormous potential for the entire ecosystem of actors.
- Challenges include hesitation and lack of understanding
 - · Consumer needs
 - the cost of data transfer
 - ancient software architectures
 - and difficulties in handling complex OEMs origination

Connected cars have the power to woo consumers-especially in China.

Share of respondents willing to switch auto brand for better connectivity, %

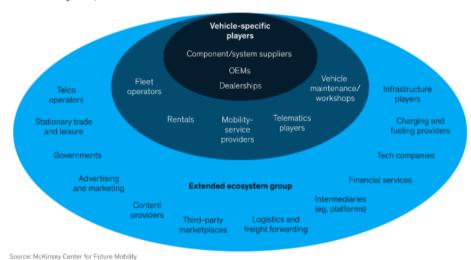




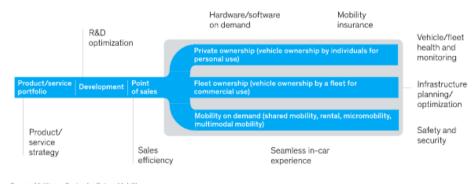
Connected consumer is the future

With new companies entering the mobility value chain, collaboration between vehicle-specific players and the extended ecosystem is critical.

Vehicle ecosystem, nonexhaustive

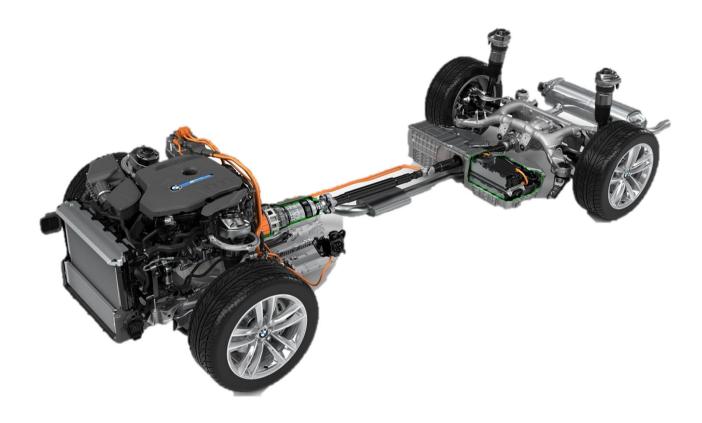


Use cases fall into nine clusters that deliver value across B2B and B2C applications.



Source: McKinsey Center for Future Mobility

Can electric vehicles put the brakes on climate change?



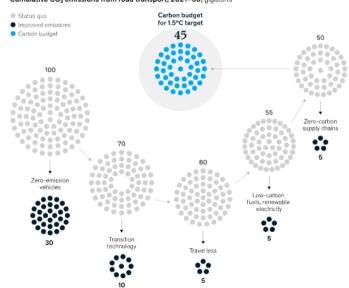


Can electric vehicles put the brakes on climate change?

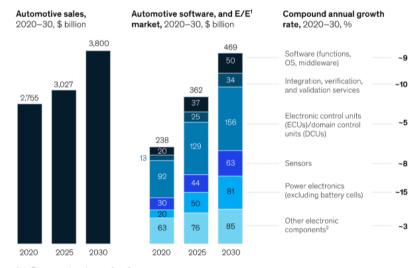
Can electric vehicles put the brakes on climate change?

Mobility players' efforts can cut carbon emissions and help keep the global temperature increase under 1.5°C.

Cumulative CO₂ emissions from road transport, 2021-50, gigatons



The automotive electronic and software market will see a strong growth through 2030, driven by power electronics, software, ECUs, and DCUs.



Note: Figures may not sum, because of rounding. 'Electrical and electronic components. 'For example, harnesses, controls, switches, displays. Source: IHS; McKinsey analysis



Can electric vehicles put the brakes on climate change?

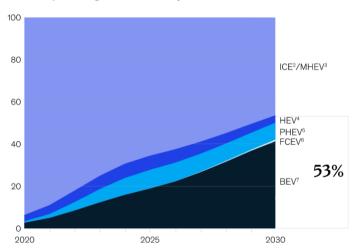
Car owners will likely not need to spend as much on parts for electric vehicles.



Base-case scenario for parc of 4- to 7-year old vehicles across China, France, Germany, Italy, UK, and US. *Includes routine replacement parts such as batteries, accessories, and collision costs. *Internal combastion engine. *Hybrid electric vehicles. *Plug-in hybrid electric vehicles. *Battery-electric vehicles. *Source: McKinsey Global Aftermarket Model team

If electric-vehicle adoption continues to accelerate, EVs are likely to account for more than half of all US passenger car sales by 2030.

US new lightvehicle sales,¹ % of total sales





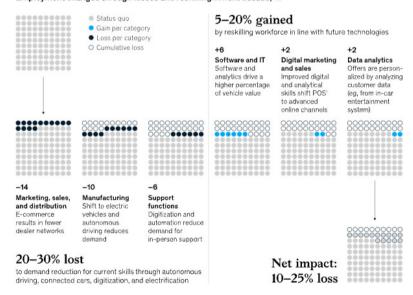


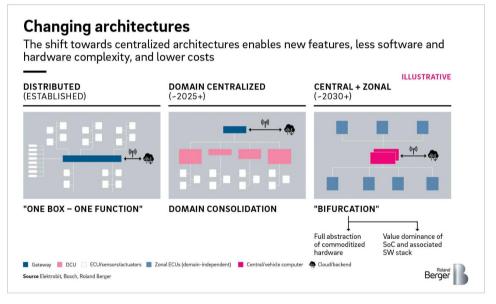


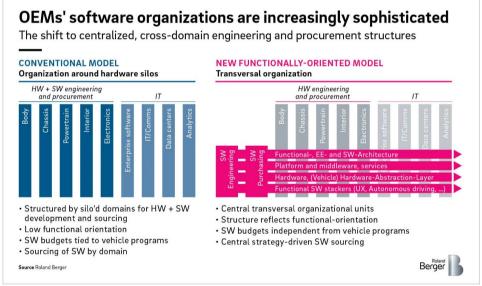
New mobility, new skills

Today's automotive workforce will need to reskill to prepare for the future of connected, electric mobility.

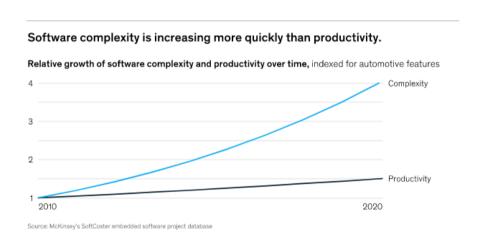
Employment changes through losses and reskilling in next decade, %



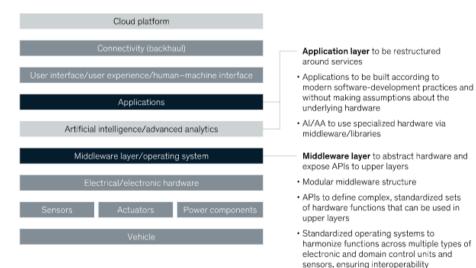


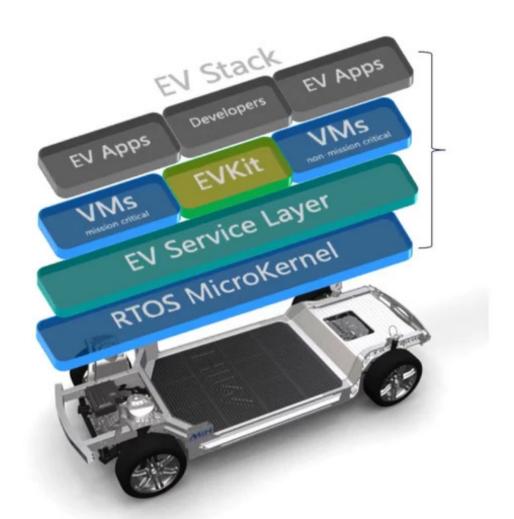






Companies should strive for a target architecture that supports decoupling of hardware and software and features a strong middleware layer.





Foxconn pitches MIH open platform as "the Android of electric vehicles"

Diadrom Holding



William Wei CTO, Foxconn / MIH

'What': Product architecture and make or buy

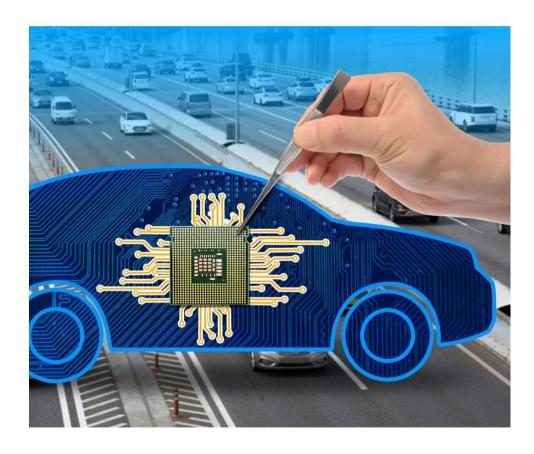
The aim is to set up a target software
 architecture with both specific internal
 control points and a partnership
 ecosystem, allowing for efficient and
 competitive software delivery across
 platforms.

'How': Productivity boosts and software-development methodology

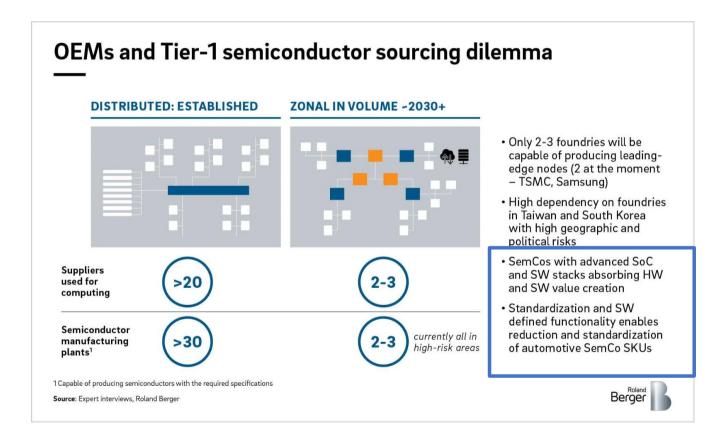
 The focus is on improving software R&D productivity by using a combination of key efficiency levers for software development, including agile R&D, continuous integration, and automated testing



... and what about Semiconductors



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