

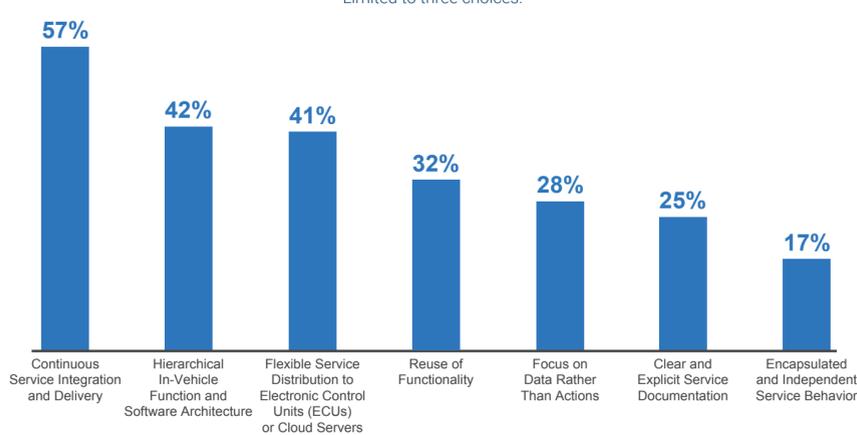
Where Automotive Systems Architectures Are Headed



New architectural approaches **inside and outside** of vehicles are transforming the automotive value chain, shifting business models and profit pools. The entire industry is moving its center of gravity from ownership and in-vehicle functionality to a broader and **hyper-connected mobility eco-system** which relies on software and data. In October 2020, WardsAuto and Dell surveyed over 300 automotive manufacturers and suppliers around the world regarding the future of automotive technologies.

What are the top drivers paving the way for the implementation of Service-oriented architectures (SOA) and micro service architectures (MSA)?

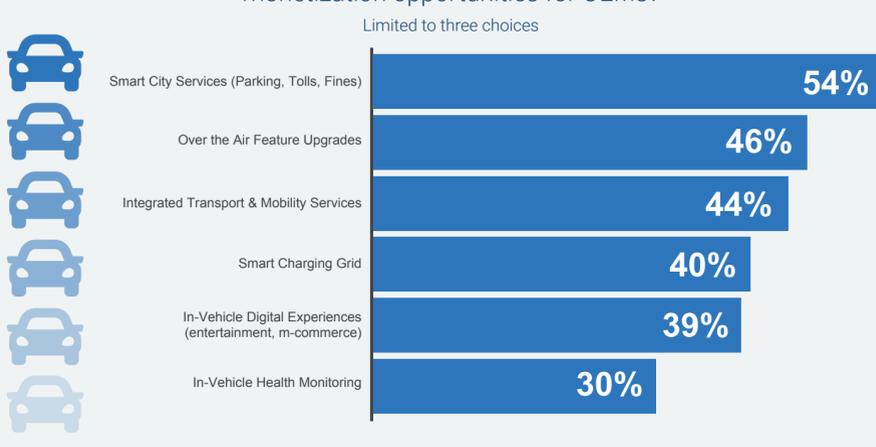
Limited to three choices.



Four domains are driving technology innovation and contributing to the business revolution: **Autonomy, Connectivity, Mobility Services** and **Electrification** – “ACME”. These domains offer diversified paths toward increasing profits along the value chain through added revenue and reduced costs.

Which of the following applications offers top data monetization opportunities for OEMs?

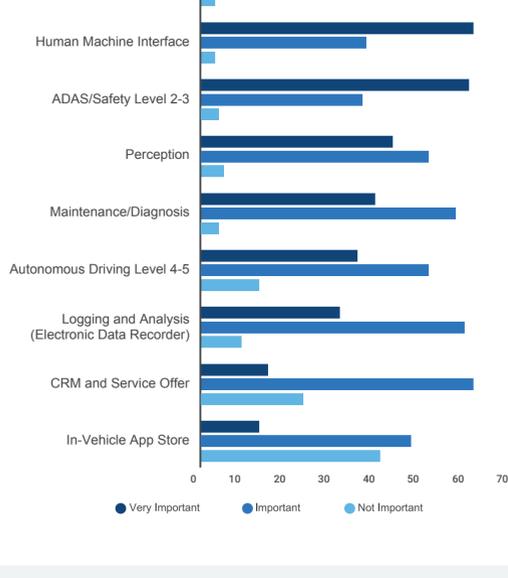
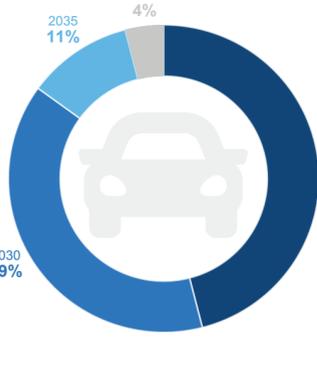
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We are witnessing a shift in paradigms derived from the IT industry: Software defined everything, driven by Data. **Service Oriented Architectures** and **Data Analytics** offer an infinite amount of new revenue streams, process optimization and cost reduction.

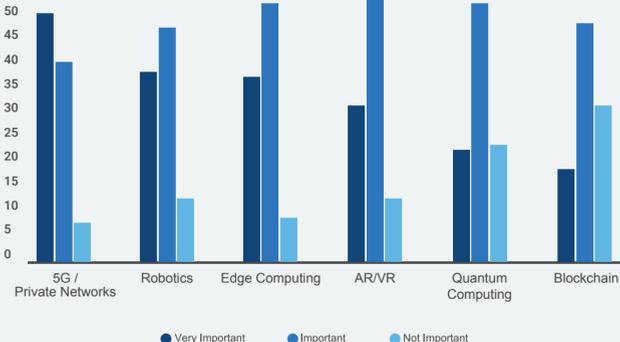
When will SOAs (Service Oriented Architectures) appear in vehicle software architectures?

What are the top software development areas for vehicles?



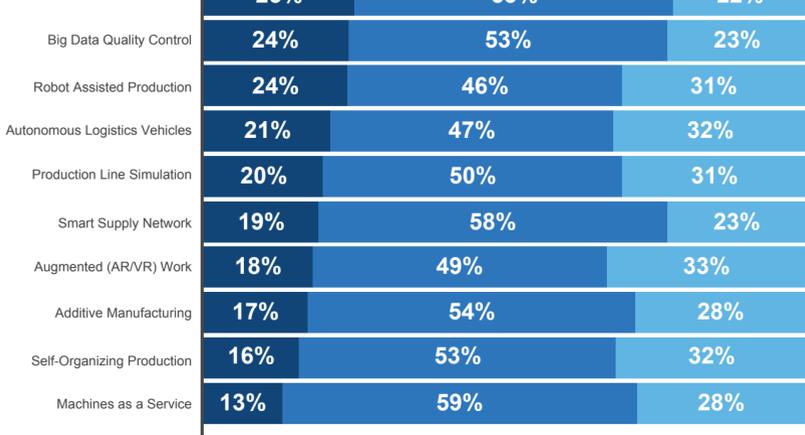
Transformative technologies are enabling progression toward future-proof platforms. **Connectivity** and **5G** are key to enabling low latency and high bandwidth data sharing. **AI** is essential to crunching data and creating value, **Cloud and Edge Data Centers** are critical tools for achieving scale in storage and analytics.

Rate the importance of the following technologies in automotive.

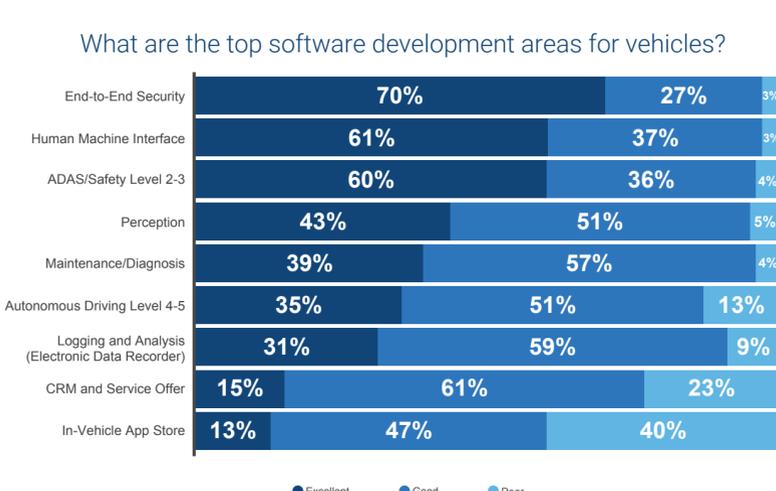


Digitalization and **connectivity** make an automaker's back-end operations more compatible with the external infrastructure. As a result, vehicle manufacturers will be able to control and secure — end to end — the entire value chain, from manufacturing, testing and validation to certification and maintenance throughout the vehicle's life.

Rate your progress on implementing Industry 4.0 / smart factory projects.



What are the top software development areas for vehicles?



The automotive industry appears to have a bright future ahead, but challenges remain, offering new players opportunities for disruption. There is a need for new competencies in software development and data science, as well as a necessity to contain development costs that are massively impacting OEMs' tactics and long-term strategies in an increasingly complex eco-system.

What are the major vehicle electrical and electronic system challenges for your company?

Limited to three choices



What are the top challenges to implementing AI in the vehicle and production process?

Limited to three choices

