Siemens Digital Industries Software

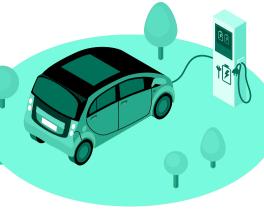
Vehicle Electrification and E/E System Development

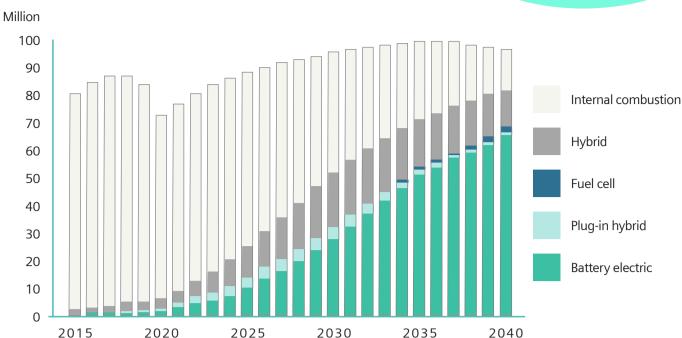
Market Growth

Global passenger vehicle sales outlook by drivetrain



Due to falling battery prices, EV sales will outpace traditional vehicle sales in the next decade.





Source: BNEF

New-EV sales to rise by 51% worldwide, accounting for around 9% of total new-car sales.

During the pandemic, EV sales grew by 42% while global automotive markets shrank.

Together, China and Europe account for approximately 80% of the EV market.

cars sold globally will be electric Source: EIU, UBS, EV volumes, Fortune Business Insights

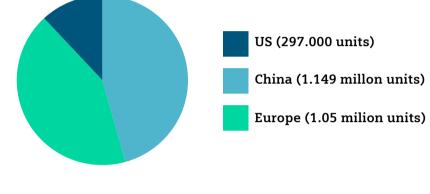
By the year 2025, 20% of all new

will be worth USD 1,318.22 billion in 2028 at a CAGR of 24.3%

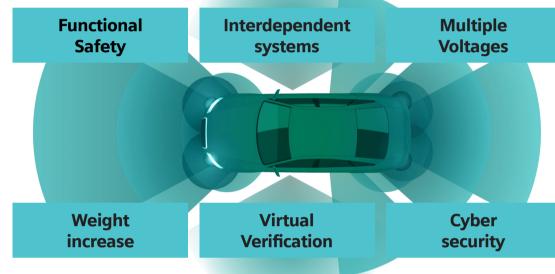
harnesses

The global electric vehicle market

New EV registrations by area for H1 2021:



Electrification drives clean sheet E/E architectures



Integration Safety assurance

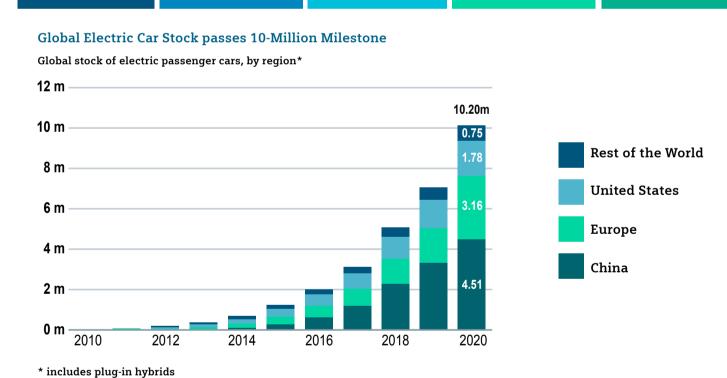
EV electrical system design integration, safety and verification



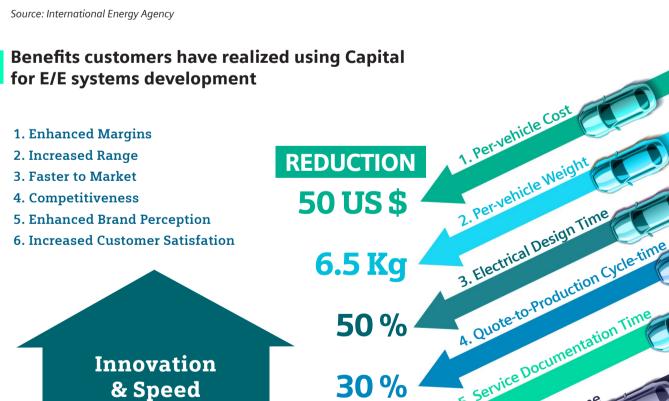
wires

individual of electrical connectors mass

harnesses



4. Competitiveness



Solution

Safety & Compliance

5. Service Documentation Time 6. Fault Diagnosis Time 80% 40%

Cost reduction

Collaborative approach with the digital twin

Engineering collaboration

Drive cross domain engineering integration with a secure digital backbone.

Reduce the number of physical prototypes with a digital twin of the product.

Cut changeover time and increase efficiency with a digital twin of manufacturing.

Manufacturing agility

Predictive maintenance

Leverage data insights and reduce unplanned downtime with closed loop feedback.

Quality control

Update and share specifications and regulations with the entire ecosystem.

Speed to market

Incorporate new technologies faster than the competition.

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