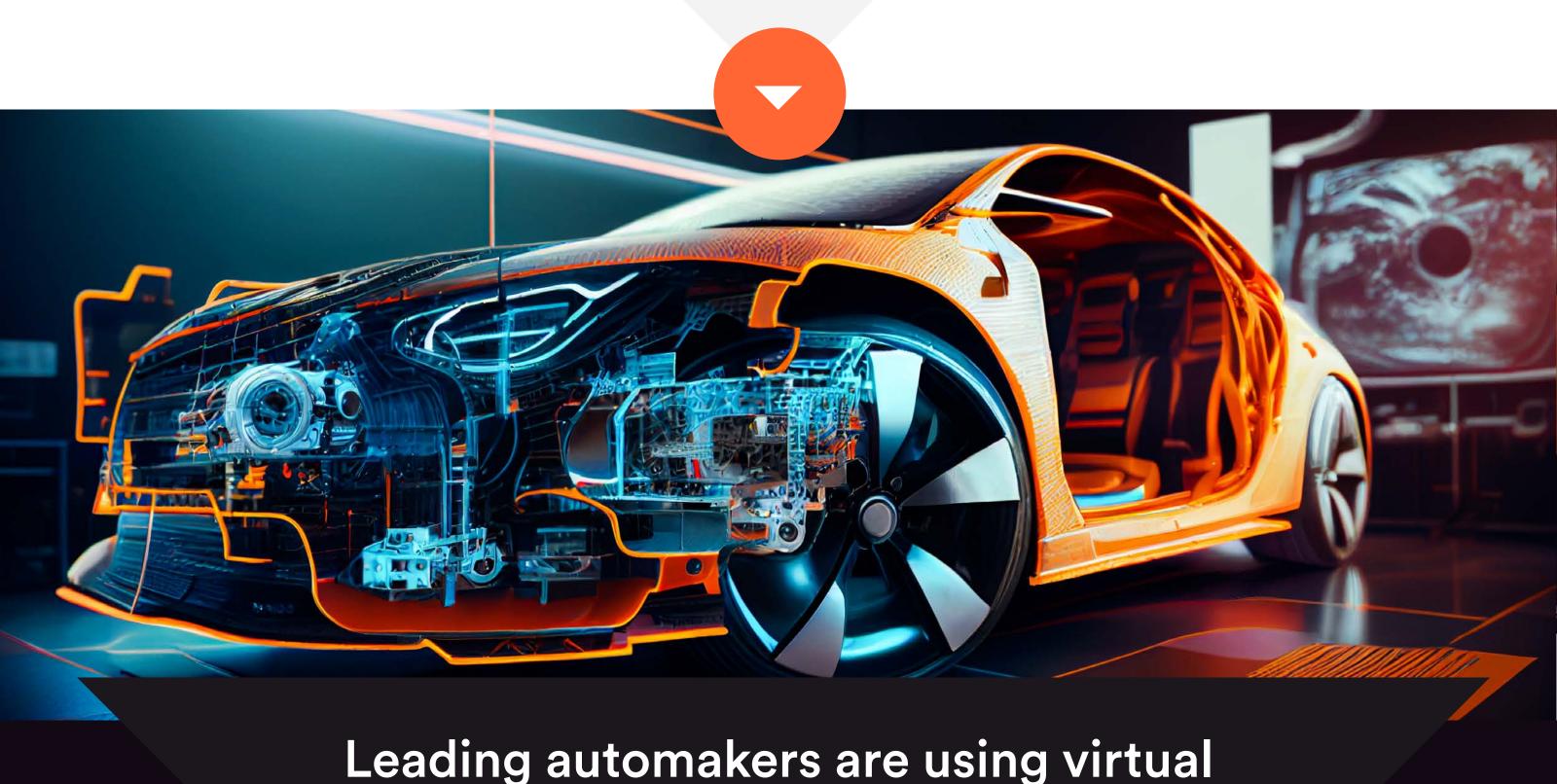


3 reasons why virtual prototyping technology is mission-critical for profitability and growth in the automotive sector



simulation tools to:



vehicle innovation

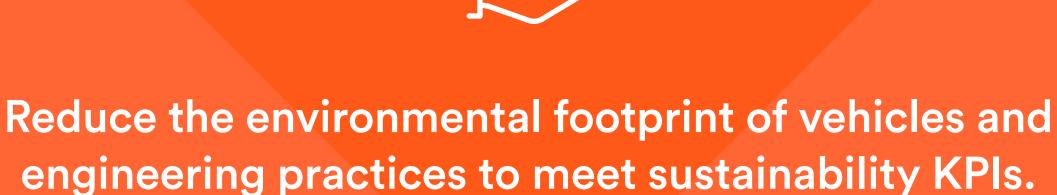


efficiency gains

Here's Why:







surely at the forefront, driven by increasing pressure from governments, cities, and consumers to meet zero-emission goals.

Industries are placing sustainability at the top of their agenda. Automakers are

60% 412%

have a clear Mission Zero sustainability strategy.1

of automotive companies already

of organizations however, have not got all the technology capabilities in place for sustainable product design.²



reducing scrap and carbon emissions. Download The Whitepaper

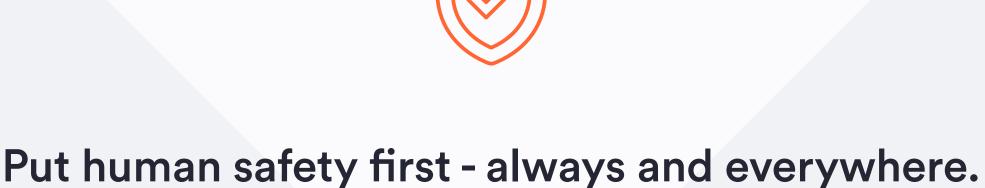
Accelerates Vehicle Development

Design, engineer, manufacture, assemble and test

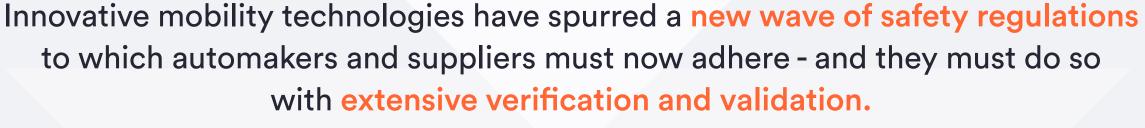
a new vehicle concept fully virtually – drastically

Exceeding 6000 pounds could impact safety

Virtual Prototyping



Safe



16 additional technical requirements The new generation of large, heavy EVs for electric power train vehicle exceeds 6000 pounds of weight and

traction batteries.3 might be a drag on safety.4



new requirements

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The World Of Immersive

Virtual testing is critical to some of the biggest

passengers, pedestrians, and workers' daily lives

fully digitally – without putting humans at risk.

are ever safer. They get vehicle certification done

brands on the planet to ensure drivers,

Virtual Reality



Industry 5.0 and PLM applications accelerate EV development and improve R&D profitability.

20% of companies are on track of OEMs have a real opportunity to achieve cost reductions whilst boosting R&D to become fully digital

As sales of battery electric vehicles increase, many executives in the

automotive industry are concerned about profitability.

in the next 3 years.5

Engineer And Manufacture Multi-

efficiency - by as much as 15-20%.6

Material Assemblies With Confidence Decision-makers can quickly make the right trade-offs between accuracy and time-to-

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market and accelerate product development.



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6. https://www.mckinsey.de/industries/automotive-and-assembly/our-insights/improving-battery-electric-vehicle-profitability-through-reduced-structural-costs

1,2. https://prod.ucwe.capgemini.com/gb-en/wp-content/uploads/sites/5/2022/09/Final-Infographic.pdf 3. https://www.autocarpro.in/feature/new-ev-battery-norms-deadline-worrying-auto-players-113398 4. https://www.iihs.org/news/detail/as-heavy-evs-proliferate-their-weight-may-be-a-drag-on-safety 5. Poll amongst attendees at ESI Live 2022

