Digitalization of Automotive & Ground Transportation

Automotive and Ground Transportation customers are demanding efficient, reliable, safe, environmentally-friendly, connected, and increasingly autonomous vehicles. The industry must deliver all this with a faster time to market, at a lower cost while using fewer resources.

**Automotive**
- Electrical, connected, and increasingly autonomous

**Trucks and Off-Highway**
- Fuel efficient, low-emission and connected trucks and off-highway vehicles

**Other Ground Transportation**
- Safe and reliable trains, fast and elegant massmarket vehicles and autonomous on-demand and safe taxi vehicles

**Top 5 Engineering Challenges**

<table>
<thead>
<tr>
<th>Challenge</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited Resources</td>
<td>44%</td>
</tr>
<tr>
<td>Warranty &amp; Recall Costs</td>
<td>44%</td>
</tr>
<tr>
<td>Product Complexity</td>
<td>39%</td>
</tr>
<tr>
<td>Competitive Differentiation</td>
<td>32%</td>
</tr>
<tr>
<td>Environmental Compliant</td>
<td>17%</td>
</tr>
</tbody>
</table>

Pervasive Engineering Simulations from ANSYS help Automotive and Ground Transportation industry leaders overcome these challenges through digital exploration, digital prototyping, and digital twin.

**Solutions for Automotive and Ground Transportation, OEMs and Suppliers**

- Body & Chassis
- ANSYS R & Automation
- Inputs & Environmental
- Telematics
- Reliability & Resilience
- Electronics & Power Electronics
- Electric Motors

**ANSYS Pervasive Engineering Simulation Solutions Deliver**

- More likely to meet product launch dates: 24%
- More likely to use fewer engineering simulations: 50%
- More likely to use fewer CAE tools: 37%
- High cost of ownership (TCO) reduction to 1/2 months

Learn More

ansys.com/automotive