

ERGONOMICS FOR VEHICLE DESIGN

TRANSPORTATION & MOBILITY



Use 3D virtual manikins to analyze and understand the ergonomics of your vehicle design concepts

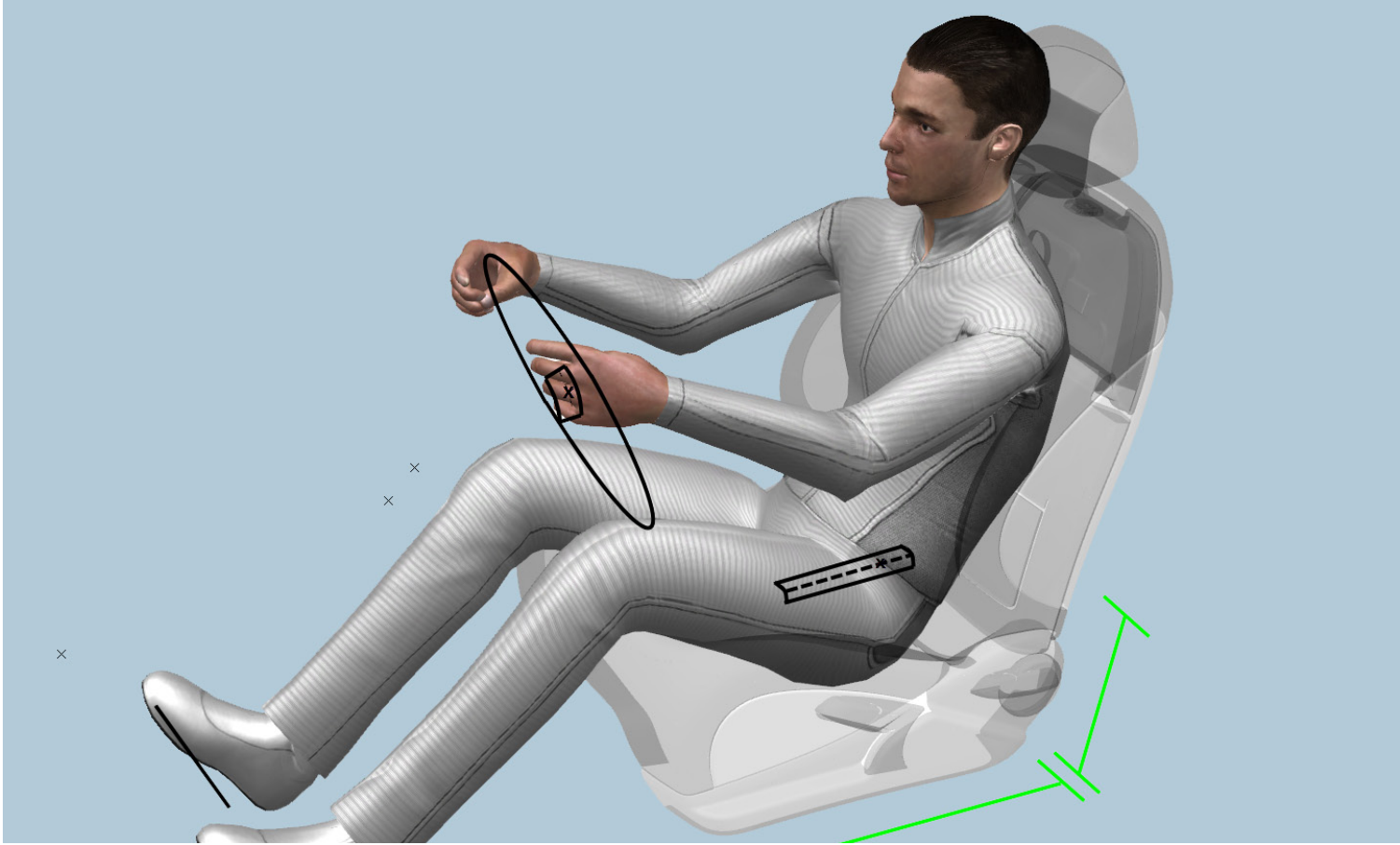
DELMIA's Ergonomics for Vehicle Design solution for the Transportation & Mobility Industry lets designers identify driver and passenger ergonomics issues early in the design process to avoid costly, time-consuming changes down the road.

DELMIA's Transportation & Mobility Ergonomics for Vehicle Design solution allows designers to measure effects on driver and passenger ergonomics. Reach, posture and vision prediction is based on precise anthropometry and results in automatic SAE standards compliance. Issues are revealed at the most cost-effective time – when the design process is just getting under way and live occupants cannot be used. Designers can simulate the way humans interact with seats, spaces, and controls in a vehicle under design. The experience makes it possible to predict posture and access to key vehicle functions for specific populations selected from a global database.



Discover ergonomic issues early in the design process.





Predict occupant posture with virtual 3D manikins.

INDUSTRY CHALLENGES

- How to achieve a high level of comfort and satisfaction for drivers and passengers?
- How to design a car in a global market?
- How to reduce physical mockups?
- How to measure the design change effect on driver's and passenger's ergonomics?

SOLUTION HIGHLIGHTS

- Precise automatic positioning of drivers and passengers using a proven posture prediction algorithm
- 3D manikins based on precise anthropometry
- Seat and steering wheel parameter adjustment capability
- Enterprise-accessible reporting
- Access to Virtual Ergonomics assessment without leaving the unique 3D environment

SOLUTION VALUES

- Design errors can be corrected while the cost of change is minimal
- Reduce the number of physical prototypes
- Reduce the number of design iterations
- Designers can collaborate throughout the design process using the manikins
- Immediate view of any design impact on posture position
- Market globalization with variable manikin sizes and shapes
- Improved driver and passenger satisfaction

USERS

- Industrial Designer
- Ergonomic Specialist



Delivering Best-in-Class Products



Virtual Products



Model and Simulate our Planet



3D Design



Information Intelligence



Realistic Simulation



Dashboard Intelligence



Digital Manufacturing and Production



Social Innovation



Collaborative Innovation



3D Communication

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