



TRANSFORMING THE VEHICLE EXPERIENCE THROUGH TECHNOLOGY

Today, the gap between concept and reality is razor-thin. Aligning with the increasing consumer demand for new technology, in-depth customization and essentially “having the world at your fingertips,” the automotive industry has become focused on increasing comfort, safety, convenience and especially personalization in the vehicle.

What this means for interiors and seating is that the notion of sitting down and buckling up, as the be-all and end-all of vehicle seating purposes, is changing. Today’s seat is engineered and designed with technologies that allow passengers to individualize their internal vehicle space. Intelligent safety functions take passenger protection to the next level, and connected and electrified capabilities provide limitless options for the future of autonomy.



RESHAPING THE FUTURE OF MOBILITY

Our Intu™ system, jointly developed by our Seating and E-Systems engineers, is essentially a smart seating device that adapts to your personal specifications and connects you to the world. Intu™ is comprised of a full suite of intelligent technologies: BioBridge™, ProActive™ Comfort, Modular Heat & Cool, SoundZone™ and Dynamic Safety. These innovations demonstrate the steps we have taken to enhance passenger comfort, wellness, entertainment and safety.

We understand how important it is to create a driving experience that dynamically adapts to passengers as individuals. BioBridge™ is our smart, non-intrusive biosensing technology that utilizes Doppler and RF (radio frequency) sensing to read passenger heart and respiratory rates. It also detects stress and drowsiness and activates corresponding seating treatments, like heat and massage, to help prevent distractions and promote safer driving.

With preset modes like sport, comfort, wellness and more, our ProActive™ Comfort intelligent seat adjustment technology can be customized to changing preferences—all without fumbling around on the side of your seat to find switches. It is a simple, intuitive solution for optimizing passenger comfort.

Safety and comfort aren't the only areas available for personalization within vehicles: a tailored audio setup is also a paramount part of the passenger experience. Our Seating and E-Systems engineers have collaborated to create SoundZone™, a personal audio environment that provides each person in the vehicle with their own isolated, connected space to listen to music, watch a movie or take a phone call.

Advanced connectivity among vehicles, infrastructure and pedestrians helps make cities smarter and car rides safer. Our Dynamic Safety system anticipates a safety event before it happens. Utilizing our ConnexUs™ V2X communication technology, vehicles can sense an impending collision, which activates intelligent seat mechanisms to properly position the occupant to minimize injury.

With autonomous driving on the horizon, Lear's EXO Correction Service—a proprietary GNSS (Global Navigation Satellite System) solution—is designed to meet the demand of the future and drive change through increased accuracy and reliability in vehicle positioning.

Our electrification technologies pave the path for cleaner, more efficient mobility with our deep knowledge of high power electric distribution systems that extend to battery chargers, battery management systems and charge cord sets.

Our reconfigurable rail system solution, ConfigurE+, makes seating easily adjustable, removable and electrified. With numerous possibilities in seat arrangements, ConfigurE+ speaks to individual lifestyles and many different passenger purposes, including face-to-face work mode, cargo mode and entertainment mode—creating many opportunities for integration in shared mobility. This powered rail system enables electrified features such as heat/cool, power recline and charging for smart devices that provide passengers with maximized function in an untethered solution.

Autonomous driving and other mobility trends won't just change the way we move from A to B, but will completely redefine the in-cabin experience and what we're able to do in that space. As a global automotive technology company with the goal of turning concepts into solutions that improve the human experience, we're motivated by the mantra “Where Passion Drives Possibilities.” We're reshaping the way people think about transportation, applying a new frame of reference and pushing the boundaries for what's possible.

