Connected Vehicles Technology

Internet of Things, Internet of Everything, smart cities, smart homes, smart factories, smart grids, smart everything! All these terms have created a lot of buzz in the industry over the last year and the current evolution in technology is making it all possible. Today, information and communication technology has led to machines to connect, communicate and collaborate with each other without human interventions. Telematics enables vehicles to connect with the owners/drivers, original equipment manufacturers (OEMs), dealers/service providers, other cars, roadside infrastructure, points of interests and other stakeholders who can leverage the vehicle data as a service.

Connected vehicles technology creates the possibility for several new business models and an ecosystem of partnerships between providers of hardware, in-car software, connectivity, delivery infrastructure, content & services and OEMs and end users. The ecosystem is complex and rapidly evolving across the value chain of providers, adjacent domains and, of course, technologies as illustrated in figure 1.

Business Use Cases and Benefits

As the connected vehicles ecosystem evolves, the related use cases also evolve across the stakeholders. As illustrated in figure 2, the use cases are primarily for infotainment & end user convenience, navigation & mobility, safety of the end user & integration with emergency services, vehicle relationship management and to leverage vehicle and end user data as a service towards creating new business models with adjacent domains.

Currently, the focus has been on using the connected vehicles technology as a means of driving loyalty and buying decisions with emphasis on infotainment & convenience. As infrastructure and interoperability between built-in and brought-in devices have become unified and seamless, with the OEM as the orchestrator of all these services, the industry will soon shift towards utilizing connected vehicles technology as a source of commerce and revenue generation.
Infosys Offerings

As illustrated in figure 3, our offerings include a unique integrated set - right from in-car app store and content management to connectivity with the car for data extraction, storage and processing of the data for meaningful insights and actions both in real-time and for proactive planning and integration with back-end enterprise systems. We also provide a complete package of services right from business model and strategy formulation, roadmap and architecture consulting to implementation and support services including managing the infrastructure and operations. We leverage our extensive investments in research, platforms, applications/solutions, algorithms and frameworks to provide measurable business benefits to clients while reducing the time to market and risks.

Success Stories

About Infosys

Infosys is a global leader in consulting, technology and outsourcing solutions. We enable clients, in more than 30 countries, to stay a step ahead of emerging business trends and outperform the competition. We help them transform and thrive in a changing world by co-creating breakthrough solutions that combine strategic insights and execution excellence.

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