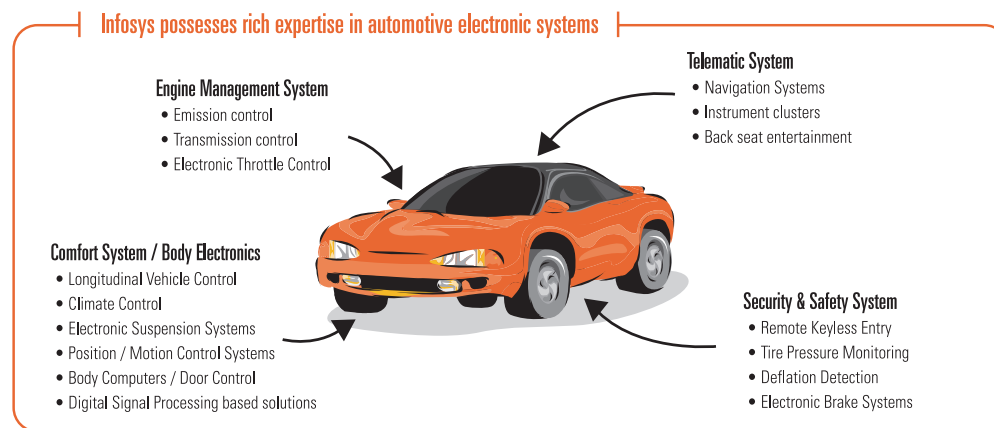


## Automotive Embedded Systems Services

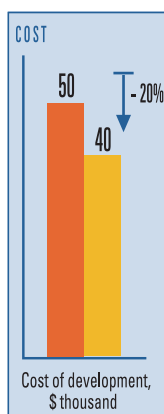
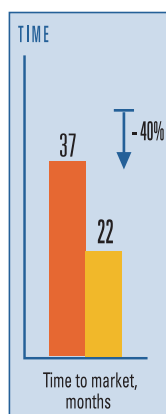
Advances in digital technology, wireless communication, digital processing technologies, and software have widened the dimensions of product development in the automotive industry. With 90% of all future innovation predicted to be based on electronics development, and 80% of that to be in software development, electronics content in vehicles is expected to increase substantially.

The challenge lies in managing the drastically increasing complexity of the vehicle electronics system. Infosys, with its extensive domain expertise in the auto industry and leadership in the outsourcing space, can bring in significant predictability to clients' business by offering end-to-end solutions in Embedded System development.

### Areas of Expertise



### Embedded Service Benefits



- Seamless virtual team spanning the globe for optimal skill sourcing and 24 hr productivity
- Multi-disciplinary teams for optimal design iterations and rapid turnaround
- Offshore Engineering Development Center (OEDC) creation for cost effective product development: Infosys has setup dedicated OEDCs for leading Tier 1 Automotive and Aero suppliers

Outsourcing engineering can save you millions and help achieve market leadership. By sharing the design and prototyping parts of the product development process, you can cut down the time and money spend on these activities. While the money could be ploughed back into the product development process to enhance the product, you could use the saved time in product planning.

#### One-Stop Integrated Solution:

Infosys has demonstrable expertise in managing complex embedded software and hardware development projects, and can deliver complete embedded system services while ensuring customer focus on overall program objectives.

#### Reduce engineering cost:

Infosys delivers high quality embedded system design services leveraging our Global Delivery Model to reduce development costs as well as compress development schedules. Infosys also assists clients in development of software reuse plans and in reducing the cost of reinvention from program to program.

#### Integration of embedded product lifecycle with overall product lifecycle management processes:

Infosys, with its vast experience in product design, engineering, and Product Lifecycle Management solutions enables better integration of embedded product development with overall product lifecycle management processes.

## Service Offerings

Infosys' embedded systems associates possess extensive industry experience and have expertise in hardware and software, including methodologies, tools, operating systems, compilers and standards. The team has over 3000 man-years of experience delivering advanced embedded work for our clients. This experience lets us offer end-to-end range of hardware and software services with options ranging from partial to full product development lifecycle coverage.

Embedded Services	<b>Hardware Design and Engineering</b>	<b>Verification &amp; Validation Services</b>
	<ul style="list-style-type: none"> <li>• Board &amp; System Design: Concept to total product development</li> <li>• DSP / FPGA Based Design, PCB designs, Single board computers</li> <li>• Diagnostics, BSP, driver development</li> <li>• Design, Prototyping, Circuit Simulation, Analysis</li> <li>• Re-engineering</li> <li>• Verification and Validation</li> <li>• Fabrication and Support through Vendors</li> <li>• Standards compliance</li> <li>• Design Analysis - Failure Mode Effect Analysis (FMEA)</li> </ul>	<ul style="list-style-type: none"> <li>• Code reviews</li> <li>• Inspection of software development and test documents</li> <li>• Functional and structural coverage testing</li> <li>• Integration testing (software-software integration and software-hardware integration)</li> <li>• System validation testing</li> </ul>
	<b>Embedded Software design, development &amp; sustenance</b>	<b>Testing Services</b>
	<ul style="list-style-type: none"> <li>• Complete Software Life cycle support</li> <li>• Software requirements specifications</li> <li>• Modeling and Simulation</li> <li>• High level and detailed design</li> <li>• Implementation</li> <li>• Host Interface development</li> <li>• Platform development</li> <li>• Re-platforming</li> </ul>	<ul style="list-style-type: none"> <li>• Software test plan for software and HSI (Hardware / Software Integration) testing</li> <li>• Test processes for software and HSI testing</li> <li>• Functional and Structural testing</li> <li>• Test reports for software and HSI testing</li> <li>• Test cases, execution and test reports for System Integration Tests (SIT) and system level V&amp;V</li> </ul>
		<b>Certification support</b>
		<ul style="list-style-type: none"> <li>• Support for certification activities</li> <li>• Documentation services required for tool qualification during development</li> </ul>

## Solution Offerings

Infosys provides solutions from Concept to Implementation based on its vast experience in the automotive domain. These industry-tested solutions are customizable, and provide cost advantage.

- AUTOSAR Basic software solutions
- Automated End of Line test solutions for RKE's
- Diagnostic data recorder

## Client Success

- For a Tier-1 Supplier based in Europe with annual revenue of over 12 Billion Euros, Infosys developed an Electrical failure simulation system for real time failure simulation. Infosys designed and delivered the system in a relatively short time span to the satisfaction of the Client. The Client benefits included 60% cost reduction apart from the defined goals of the project.



Infosys was the first Indian company to join AUTOSAR as a Premium member and is closely working with OEM's and Tier-1 suppliers to establish an open standard for automotive E/E architectures

## Allied services

### Technology Consulting

We work with you to develop implementable architecture solutions that help you leverage technology to enable business strategy. Our solutions help you achieve a balance between IT Effectiveness and business innovation.

### PLM Services

We offer PLM consulting, product evaluation, implementation, customization and maintenance services. Our services ensure that you get maximum value from your PLM investments while avoiding unnecessary spending.

### Application Development

Helps you develop turnkey solutions with a faster time to market and a lower Total Cost of Ownership. The service ranges from building a business case to assessing portfolio to designing solutions to building and implementing the solution.

### Product Development Services

Helps you reduce TCO, increase time-to-market and enhance innovation. Infosys service offerings address all phases of the Product Development process.

## Global Presence

### North America

Atlanta, Bellevue, Bridgewater, Charlotte, Detroit, Fremont, Houston, Lake Forest, Lisle, New York, Phoenix, Plano, Quincy, Reston, Toronto

### Europe

Brussels, Copenhagen, Frankfurt, Geneva, Helsinki, London, Milano, Oslo, Paris, Stockholm, Stuttgart, Utrecht, Zurich

### Asia Pacific

Beijing, Hong Kong, Mauritius, Melbourne, Shanghai, Sharjah, Sydney, Tokyo

### India

Bangalore, Bhubaneswar, Chandigarh, Chennai, Hyderabad, Mangalore, Mumbai, Mysore, New Delhi, Pune, Thiruvananthapuram

For more information, contact [ples@infosys.com](mailto:ples@infosys.com)

## About Infosys

Infosys Technologies Ltd (NASDAQ: INFY) defines, designs and delivers IT-enabled business solutions that help Global 2000 companies win in a flat world. These solutions focus on providing strategic differentiation and operational superiority to clients. Infosys creates these solutions for its clients by leveraging its domain and business expertise along with a complete range of services.

With Infosys, clients are assured of a transparent business partner, world-class processes, speed of execution and the power to stretch their IT budget by leveraging the Global Delivery Model that Infosys pioneered.



POWERED BY INTELLECT  
DRIVEN BY VALUES