



The Computerworld Honors Program

Honoring those who use Information Technology to benefit society

Final Copy of Case Study

Status:

Laureate

Year:

2013

Organization Name:

Computer Sciences Corporation

Organization URL:

<http://www.csc.com/>

Project Name:

CarIT

Please select the category in which you are submitting your entry:

Innovation

Please provide an overview of the nominated project. Describe the problem it was intended to solve, the technology or approach used, how it was innovative and any technical or other challenges that had to be overcome for successful implementation and adoption. (In 300 words or less.)

The automotive industry is entering an era of disruptive innovation as sweeping as the period in which it was born. New developments in vehicle technology such as electronics, power train technology, hybrid cars, green technology, connected vehicles, and emission technologies are permanently changing the automotive landscape for manufacturers and for consumers. Many of these advanced are founded on information and communication technologies that have arrived within just the past few years including Big Data, broadband mobility, and cloud-based systems. An accelerating pace of change in these areas that are foreign to most automakers is challenging them to adapt to new methods of design, manufacture and delivery to remain competitive. CSC brings a unique inside out point of view

we call "CarIT" to help auto manufacturers effectively harness these new technologies in all phases of auto manufacturing and operation. As automobiles make greater use of mobile communication technologies, CarIT is helping automakers improve security to prevent "carhacking," a form of theft that can reveal an owner's identity, location and other sensitive information. CarIT is helping automakers unlock the real value of information they collect through in-car sensors, dealer networks and consumers to make cars more reliable and safer. Harnessing the power of Big Data analytics, we are helping car makers find ways to design vehicle components and systems that are lighter, less expensive and just as reliable and safe as the components they replace. Functions once performed in vehicles by discrete components are being replaced by software. It's critically important that such system be rigorously vetted before they are deployed in vehicles. CSC is helping manufacturers develop these new components.

When was this project implemented or last updated? (Please specify month and year.) Has it incorporated new technologies and/or other innovations since its initial deployment? (In 300 words or less.)

Based in part on CSC's BizCloud architecture, the technical components of CarIT are updated on a continual basis. Process improvements are incorporated as we complete and debrief major client projects.

If this is a previously submitted project that has been significantly updated and/or expanded, please describe the nature of the update here. (In 300 words or less.)

N/A

Is implementation of the project complete? If no, please describe the project's phases and which phase the project is now in. (In 300 words or less.)

The CarIT framework continues to evolve, but we are using it now to complete projects with manufacturers.

Please provide at least one example of how the technology project has benefited a specific individual or organization. Feel free to include personal quotes from individuals who have directly benefited from the work. (In 300 words or less.)

Our CarIT program has resulted in cost savings for a number of major manufacturers including savings of \$60 million in the supply chain through improved global demand forecasting and capacity allocation, for a major OEM. A

A gold medal with a ribbon is visible in the top left corner. The medal features a classical architectural design and the word "HONORS" is partially visible. A large, stylized green leaf graphic is positioned on the right side of the page, extending from the top to the bottom.

12 percent reduction in parts inventory and operating costs through optimized spare parts management, for a major European OEM and a 40 percent reduction in overhead costs through reorganization and consolidation of IT systems and data, for a leading supplier. Process improvements provide another form of major benefits. Our CarIT program has helped one leading component supplier achieve a 50 percent reduction in Time-to-Market through improved product development process. A 40 percent reduction in Time-To-Market and 35 percent reduction in Time-to-Build through improvements in product design, factory operations, and supply chain, for a leading coach manufacturer. We've also helped an OEM achieve an order of magnitude reduction in fleet order time from days to minutes through rearchitecting of global order management and logistics processes. "I extend my sincere gratitude for the tremendous effort you put in to test, verify and approve the Application Level SOX controls and completed the activity on time. Awesome job each one of you! Thank you for this and all the magic you do each and every day!" Leading auto OEM IT Manager "We have seen good advances in the way that efficient applications management can support our business and contribute to its profitability. It will contribute in the future to real global transformation and provide the best platform for our business goals. CSC ... exceeded my expectations, and I congratulate all of your skills and efforts. This project is a perfect example of the great results that can be seen through true teamwork. Thanks to all for your success." Leading auto OEM

Would this project be considered an innovation, a best practice or other notable advancement that could be adopted by or tailored for other organizations and uses? If yes, please describe that here. (In 300 words or less.)

Specific components of CSC's CarIT are proprietary, but the practice of combining data analytics, mobility and smart devices is applicable to almost any product-oriented industry. The increasing connectedness and intelligence of consumer goods will offer manufacturers the opportunity to create use-driven feedback loops that will improve product quality, safety and efficiency while making them less expensive to produce.