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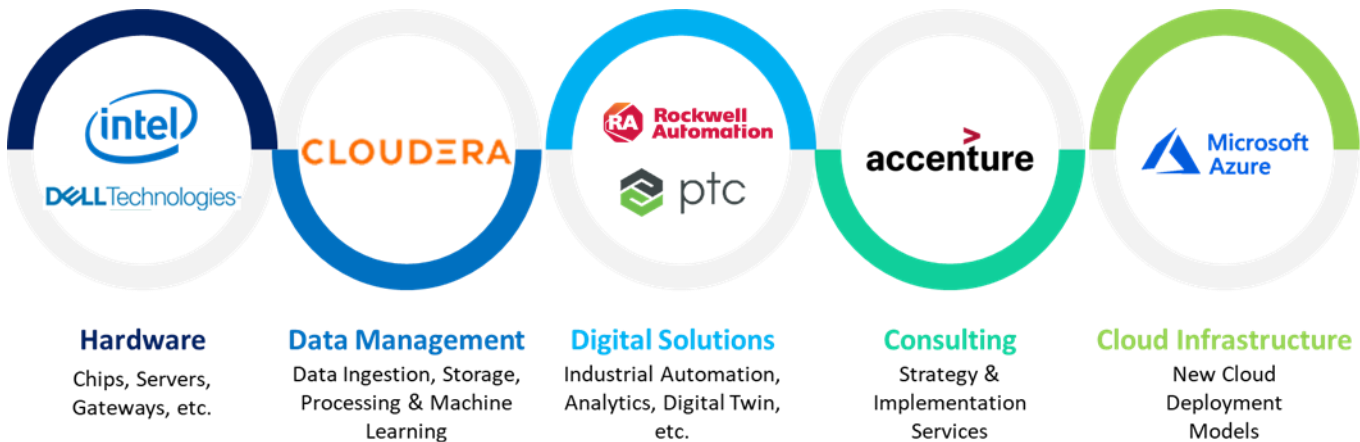
Center for Automotive Research

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Center for Automotive Research to Launch New Research Initiative Exploring the Current State of Industry 4.0 Within the Automotive Industry

Monday, May 18, 2020 - The Center for Automotive Research, a nonprofit research organization based in Ann Arbor, MI, has undertaken a new consortium-based research initiative, ***Auto 20/20: The State of Industry 4.0 in Automotive,*** to investigate the current state of Industry 4.0 within the automotive industry and propose recommendations for the industry's path towards successful Industry 4.0 implementation.

Auto 20/20: The State of Industry 4.0 in Automotive will chart a course for the 4th Industrial Revolution in the automotive industry by providing industry stakeholders a strategic understanding of the real-world challenges and opportunities in implementing Industry 4.0 initiatives. CAR has assembled a premier consortium of funding partners for this project, targeting partners representing critical aspects of the Industry 4.0 ecosystem, including hardware, data management, digital solutions, consulting, and cloud infrastructure. Accordingly, Accenture, Cloudera, Dell, Intel, Microsoft, PTC, and Rockwell Automation are founding partners of this consortium. Independently, each of these companies would provide critical insights into their slice of the Industry 4.0 puzzle. Working together, they will provide CAR researchers with broad-based, "ecosystem oriented" insights in investigating automotive Industry 4.0 challenges and opportunities holistically.

Research Consortium: An Industry 4.0 Ecosystem

Hardware	Data Management	Digital Solutions	Consulting	Cloud Infrastructure
Chips, Servers, Gateways, etc.	Data Ingestion, Storage, Processing & Machine Learning	Industrial Automation, Analytics, Digital Twin, etc.	Strategy & Implementation Services	New Cloud Deployment Models

The ***Auto 20/20: The State of Industry 4.0 in Automotive*** project has several goals. First, we will provide a comprehensive description of what is currently encompassed by the term *Industry 4.0*. Second, we will interview key Automotive OEMs and Tier-1 suppliers to understand their *current and planned Industry 4.0 experiences* and will drill down to challenges encountered in the areas of *people* (e.g., skills, capabilities, availability), *process* (e.g., digital and manufacturing transformation) and *technology* (e.g., IoT, automation, big data). Finally, we will provide a set of recommendations for developing an effective strategy to achieve competitive leadership in modern manufacturing. The project will also include an investigation into the financial investment and expectations for associated return on investment for companies implementing Industry 4.0 strategies.

Project results will be highlighted during the virtual CAR Management Briefing Seminars August 4 -5, 2020 and at Roundtable meetings throughout the third quarter of 2020.

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The Center for Automotive Research is a nonprofit organization; its mission is to conduct independent research and analysis to educate, inform and advise stakeholders, policymakers, and the general public on critical issues facing the automotive industry, and the industry's impact on the U.S. economy and society.

Learn more about the Center for Automotive Research at www.cargroup.org