



Top 20 Automotive Trailblazers: The Value Chain Disruptors

Engineering Services Market Report – October 2017: Complimentary Abstract / Table of Contents

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Corporate Headquarters Office: +1-214-451-3000 info@everestgrp.com



European Headquarters Office: +44-207-129-1318 unitedkingdom@everestgrp.com



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Background of the research

Background of the research

- In 2016, automotive industry investments in innovation areas were about US\$19.6 billion. Growing digitalization and technology
 advancements are expected to increase the investments to US\$82.1 billion by 2020. The automotive industry is poised to change more in
 the next 5 to 10 years than it did in the last 50 years. Vehicles are set to become increasingly intelligent, inter-connected, and
 instrumented
- The rapid pace of digitalization is transforming the hardware-driven automotive sector to a software and solutions-focused industry, augmented by consumers' evolving expectations of digital lifestyle and demands for new and innovative services. Automobiles will soon be able to communicate and collaborate with other things such as traffic lights, other vehicles, parking bays, etc. thus becoming a part of a global system of systems
- The digital disruption is not a one-time event, it is rather a journey in which auto manufacturers, service providers, technology majors, and parts suppliers are gearing up for the rising market demand and making large scale investments in resources, partners, solutions, and products. However, this disruption results in ecosystem complexities leading to gaps in the envisaged value and realized returns
- Over the past few years, multiple startups have thrived, filling these innovation gaps. They are addressing key adoption challenges such as data integration & security, vehicle efficiency, process automation, preventive maintenance, analysis of data collected, and so on
- In this research, Everest Group presents an assessment of how digitalization along with Internet of Things (IoT), technology partnerships, software capabilities, and customized solutions will be the way forward for the global automotive industry. We also take a deep dive into the next-generation digital automotive startups across the product design, production, marketing, and after-sales functions. Each startup profile provides a comprehensive picture of its technology capabilities, achieved market growth, and the perceived investors' confidence
- The assessment is based on Everest Group's rich expertise and database knowledge of the automotive industry and secondary research & analysis

Scope of this report

- Services: Automotive Engineering Services
- Geography: Global
- Companies: Digital Automotive startups



Research Methodology

Everest Group analyzed 120 startups functioning across the automotive ecosystem on five key dimensions to shortlist the "top 20 automotive trailblazers"





After detailed assessment, following 20 startups emerged as the "hot" startups addressing key growth issues and bring digital disruption in the automotive industry





Summary of key messages

Industry stakeholders recognize that startups are quickly disrupting the "Value Chain" and therefore, must be leveraged to drive value



Startups – on a high growth trajectory

- Year 2016 witnessed an uptick in funding and investments (Total investment of >US\$19 billion with ~35% in the past four years)
- With the increasing market significance, they are poised to be competitors to larger established automotive engineering providers



- Offering innovative solutions that enable value realization from IoT investments, startups are solving the gaps in digital adoption
- Primary adoption challenges targeted by startups are:
 - Autonomous driving technology enablement
 - Connectivity enabling
 - Electrification provision
 - Big data analysis



Establishing their significance across the ecosystem

- Funding for digital automotive startups is flowing in not only from VC, but automakers, technology players, solution providers, and system integrators
- Access to innovative technology is the primary motivation apart from quick time-to-market and talent pool



Investment is not the only way to access innovation by startups

- Automotive players across the value chain are engaging with startups by means of acquisition, partnership, funding, and/or mentoring and one cannot afford to ignore them anymore
- Majority of the automotive players are leveraging startups primarily to expand their capabilities across the digital disruptive stack

Source: Everest Group (2017)



This study offers detailed assessment and profiles of 20 automotive startups; below are four charts to illustrate the depth of the report



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Startups in Software Product Engineering – The DevOps enablers	Q4 2017
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Innovation Beyond Borders – Global Talent Hotspots for Engineering Services and Research	

& Development (ER&D)	August 2016
In Pursuit of Product Excellence: Quality Management in the Engineering Services Industry	May 2017
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Service Provider Landscape	May 2017
Designing Products in the age of Human-Machine Nexus for the Global Connected Ecosystem	June 2017
Talent Landscape in the GIC Automotive Engineering Market in India	July 2017

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Additional research references

The following documents are recommended for additional insight into the topic covered in this report. The recommended documents either provide additional details on the topic or complementary content that may be of interest

1. Designing Products in the age of Human-Machine Nexus for the Global Connected Ecosystem

(<u>EGR-2017-15-R-2231</u>); 2017. This report explores the ecosystem-centered design thinking approach, and delves into its constituents, the underlying principles, and the impact on businesses. It also covers some of the current and prospective examples for ecosystem-based design thinking, and discusses the challenges that enterprises need to overcome for successfully implementing this approach.

- 2. In Pursuit of Product Excellence: Quality Management in the Engineering Services Industry (<u>EGR-2017-0-R-2181</u>); 2017. This report provides a detailed analysis of quality management activities in the engineering services industry. It covers market landscape of quality management services and focuses on the central idea of how digital technology themes are reshaping the way enterprises look at their product quality management efforts in the engineering services industry.
- 3. The Evolving Demand Paradigm in the Engineering and Research and Development (ER&D) Services Industry (EGR-2016-0-R-1977); 2016. This report provides an overview of the ER&D services industry. It covers demand trends in the ER&D services industry across different industry verticals and global sourcing trends across major ER&D segments

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H Karthik, Partner: Chirajeet Sengupta, Partner: Ronak Doshi, Practice Director: Abhishek Gupta, Senior Analyst: Mayank Maria, Senior Analyst: h.karthik@everestgrp.com chirajeet.sengupta@everestgrp.com ronak.doshi@everestgrp.com abhishek.gupta@everestgrp.com mayank.maria@everestgrp.com

Website: www.everestgrp.com | Phone: +1-214-451-3000 | Email: info@everestgrp.com







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Dallas (Headquarters) info@everestgrp.com +1-214-451-3000

Bangalore india@everestgrp.com +91-804-276-4533

Delhi india@everestgrp.com +91-124-496-1000

London unitedkingdom@everestgrp.com +44-207-129-1318

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