Automotive market challenges

VEHICLE DEVELOPMENT EFFICIENCY
By 2020, the partial digitization of the R&D and manufacturing value chain could increase OEMs’ profitability by more than 10%.

AUTONOMOUS DRIVING REVOLUTION
In 2030, 15% of all new cars sold will be fully autonomous with self-learning AI, leading to more cyber vulnerabilities and a growing complexity for electronic architecture.

GREEN MOBILITY ACCELERATION
Electric vehicles will account for 48% of vehicles sold in 2030, compared to 2% in 2017, with increasingly strict CO₂ emissions regulations driving sales.

MOBILITY AS A SERVICE
The value of shared mobility will reach $1,500bn in 2030, versus $90bn in 2017, growing at a CAGR of 24%.

FACTORY OF THE FUTURE
Automotive Industrial IoT spending is expected to increase from $12.3bn in 2015 to $36.7bn in 2025, growing at a CAGR of 11.5%.

GLOBAL PARTNER SERVING LEADING CAR PLAYERS WITH MORE THAN 7,800 AUTOMOTIVE SPECIALISTS
Technological expertise and deep understanding of Product engineering and Manufacturing processes for OEMs and Tiers1

POSITIONING IN 3 STRATEGIC DOMAINS
- Autonomous driving/Connectivity
- Electrification
- Complete vehicle development

LEVERAGING HORIZONTAL CAPABILITIES FOR AUTOMOTIVE USE CASES
Capabilities from Semiconductors & Electronics, Software & Internet and Communications for Automotive use cases

END-TO-END HIGH VALUE OFFERING AROUND NEXT GEN CARS
Unique complete offering from Autonomous Driving / ADAS, Artificial Intelligence, Connectivity, HMI, Digital services, and Electric/Electronic systems/architectures

TRANSFORMATIONAL APPROACH FOR ENGINEERING EFFICIENCY
Ability to generate significant efficiency in vehicle development including managed service outsourcing, to optimize legacy activities, notably from Body In White engineering to complete vehicle development.

Snapshot of Altran in Automotive

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Altran positioning in Automotive

Global partner enabling the technology transition to the next generation of cars while optimizing efficiency

Did you know?

frog creates design and user experience strategy for the next era of mobility – from new ownership models to digital interfaces

Altran plays a key role in 3D printed cars innovative production process, thanks to its partner, Divergent

Altran has a facility dedicated to leading-edge automotive style and design

Altran is the world leader for airbag testing systems, with virtual and physical simulation

AUTONOMOUS DRIVING & CONNECTIVITY

- Co-Innovation and Integration of Autonomous Driving & Connectivity features

- HMI Concept & Design (UX/UI)
- Digital Services / Apps
- Autonomous Driving / ADAS
- AI / Machine Learning
- Connectivity V2X / 5G
- Electric/Electronic systems and architectures (Design, Testing, Integration & Prototyping)
- Cybersecurity & Functional Safety

ELECTRIFICATION

- E-mobility solutions

- Vehicle mission profile analysis
- Electric & Hybrid Architectures
- Concept & Design
- System integration / Prototyping
- Testing / Simulation
- Performance Improvement / Calibration
- Homologation

COMPLETE VEHICLE DEVELOPMENT

- From Style & Car Design to Manufacturing set-up

- Class A Surfacing
- Body, Interiors & Trims
- Lighting
- Powertrain
- Digital Mock Up / Prototyping
- Testing
- Passive Safety
- Manufacturing 4.0
Altran ranks as the undisputed global leader in Engineering and R&D services (ER&D), following its acquisition of Aricent. The company offers clients an unmatched value proposition to address their transformation and innovation needs. Altran works alongside its clients, from initial concept through industrialization, to invent the products and services of tomorrow. For over 30 years, the company has provided expertise in aerospace, automotive, defense, energy, finance, life sciences, railway and telecommunications. The Aricent acquisition extends this leadership to semiconductors, digital experience and design innovation. Combined, Altran and Aricent generated revenues of €2.9 billion in 2017, with some 45,000 employees in more than 30 countries.