

ADAS Cloud solution

BROCHURE

Connected World
Connected Experiences

Summary

ADAS and Autonomous vehicle Development is one of the topmost priorities for Automotive companies. Organizations are focusing on innovations in product feature development using edge analytics, machine learning and Artificial Intelligence.



The segment is predicted to get investment of **over \$100 Billion** in the next 10 years.



These technologies consume high compute, storage, network assets and **contributes 15% to 20% cost of the ADAS**

Total Cost of Ownership of this infrastructure is one of the consideration for the R&D heads and CIOs of the world.

Key Challenges that organizations are facing for accelerating ADAS development programs

Product development and differentiated features are the core focus for automotive companies to be relevant and competitive in the market. This needs their ADAS / AD development programs to be accelerated with evolving digital technologies with ready to built, out of box services that can be consumed on need basis on a cloud platform. However, organizations are facing challenges availability of Right mix of IT and Engineering capabilities to define, design and maintain the infrastructure requirements that includes data, compute, network, security aspects of the program.

Tech Mahindra provides services and solutions to optimize ADAS infrastructure per needs for business agility and flexibility for the automotive organizations

Tech Mahindra ADAS Service Offerings

Tech Mahindra provides consulting and professional services to bridge the gap with the right mix of engineering and digital IT capabilities on the following

- Architecture and Roadmap Development for ADAS/AD Infrastructure
- Tools chain and application stack selection and recommendation
- Data Collection from various sensors and edge points
- ADAS/AD Data Management & Strategy Consulting
- ADAS / AD Infrastructure and Cloud Managed Services

Tech Mahindra ADAS cloud Hosting Offerings

Tech Mahindra ADAS Cloud is a Leaner and “Fit for purpose” solution to provide compute and storage requirement for hosting and deploying ADAS & Autonomous feature development software, tool chains and testing applications for Automotive OEMs and Tier-1s.

Key features of the solution:

- Hybrid cloud model for optimal distribution of workloads across Private and Public Clouds.
- ADAS Data Collection & Storage (HOT & COLD) components.
- AI-enabled Automation of DC operations. (AIOps based TACTiX, ADOPT)
- Robust partner ecosystem

Benefits

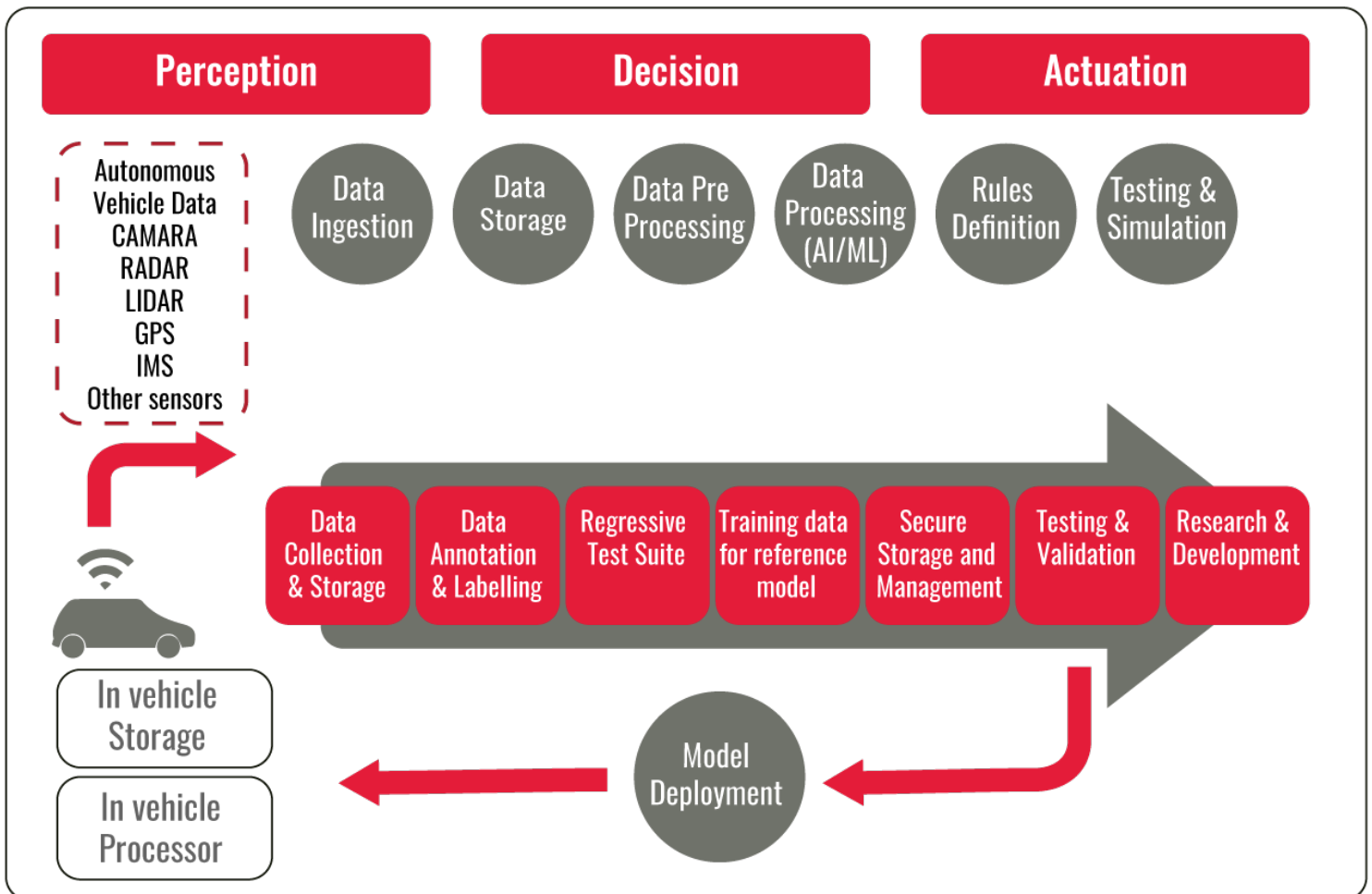
We have seen our customers realize multiple benefits out of Tech Mahindra's engagement in their ADAS program and some of the key benefits are listed as below:

- TCO reduction by 20%+
- 99.99% environment availability
- 2x faster Time to Market

Differentiation

- TechM's next generation integrated delivery model which is business aligned and leverages industry proven Automation and AI tools to deliver near Zero touch operations..
- Industry proven Framework built on standard solutions from technology with out of the box features like End user service portal, container runtime & orchestration, CI/CD, service catalogue
- Consumerization and outcome based services – Mapping of services to Business level SLAs & Application level availability and performance.
- Prebuilt tools with rapid integration of Machine Learning assets and retraining model
- Strong ecosystem partners like IBM , Dell, Pure Storage

Tech Mahindra's is your end-to-end ADAS development partner, below is journey map for the implementation



Case study

Customer ask: Customer was looking for a global partner for end to end ADAS car development

The key challenge is managing and processing the big volume of unstructured raw data collected in test vehicle run phase. data injection, infrastructure requirement & management, handling the data through its lifecycle and following regional data regulation are challenging.

Scope includes:

- Modification and conversion of 10 vehicles for data collection across China and Europe regions.
- Route planning for drive test, data collection, data cleansing to meet statutory compliance requirement as per local prevailing laws
- 1-million-kilometer field test and data collection across China, Europe and USA
- Data center setup in China, data management and cloud integration
- HIL – Test use case development, test automation and ALM
- On premise and Cloud implementation and rollout for AI/ML

Tech Mahindra solution and service offering

- End to End responsibility of roadmap consulting, field test, setting up data centers – cloud, testing, AI system training and development lifecycle support
- Reliable partner for Global ADAS / Self- driving development
- Local partnership for test fleet drive program in China, Europe and USA.
- Sizing, implementation and management of datacenter and hybrid cloud storage
- HIL testing, automation and AI system training
- Our understanding and domain expertise of AD/ADAS end to end cycle

Tech Mahindra



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