

#HelloBPS

Tech
Mahindra



Leveraging IoT for driverless cars

CASE STUDY.

Customer Ask:

“I have a web mapping software and want it to come to life with the Internet of Everything (IOE). How can Tech Mahindra help?”

TechMighty:

“We understand. Let us tell you how we are helping a Global Leader in Digital Map Making realize their dream of leveraging IOE for driverless cars.”

1 We understand the problem...

Due to the ever changing dynamics in Geographic Information Systems, companies are increasingly looking to leverage and revolutionize with the Internet of Everything (IOE) in the future.

Our client of 13 years, a Global Leader in Digital Map Making, initially approached us to build maps by stitching together satellite imagery and videos captured by driven vehicles. Lately, with the focus changing to leveraging IOE to build Driverless Cars, our client was facing two challenges:

- (a) Speed to market – To achieve real-time analysis with the help of their tool that was implementable in driverless cars. E.g.- Predict the presence of potholes due to rains and suggest alternate routes
- (b) Digital transformation - To redefine the way data gets captured and make it agile so as to improve its quality as well as quantity

2 Our solutions save the day...

Earlier #TechMBPS helped them build maps by adding new places with expertise in lane-specific attribute coding. Lately, with new Automation and AI systems coming in, the efficiency barometer increased.

But there remained an increased number of exceptions that their automated systems generated while identifying unexplored or new places. This put a question mark on their long-term objective of being able to revolutionize with IOE within the quickest time-period.

To solve this problem, #TechMBPS came up with Kaizen – a Quality improvement activity where we could suggest:

- Reason for getting exceptions
- Handling Mechanism
- Continuous Improvement

We also implemented Belt projects for deriving streamlined process flows that improved the quantitative aspect of data.

Apart from this, we also improved our hiring approaches and implemented customized training for quicker turn around on new hires and reduced time spent on OJT.

3 ...the client was happy with the results...

In 2016 alone we saved

approx. **USD 537,000** by increasing the delivered metric.



Reduced TAT

for admin deliveries - directly contributing to the goal of 'Speed To Market'



Reduced OJT duration from 90 to **60 days**



4 and said...

TechM was the only service provider selected as a participant in "Exceptions" Kaizen session hosted by our Client.

"We were joined by the team from TechM during the pre-work & actual workshop. The team contributed significantly during end to end Kaizen activities such as gap identification, process improvement suggestions and ideas for exception prevention stages. It was great working with them and expecting to complete Kaizen actions and realizing benefits on time and in order to close this exercise successfully. Looking forward to working with them in journey of continual improvements"

- Senior VP

5 Key Takeaways...

The Geographic Information Systems Industry has only grown with time with increased data availability. The development of smart cities all over the world has boosted the demand.

There is an increasing need for technologies that help to turn data from Geographic Information Systems into products that can be utilized by humans for improving their day-to-day lives.

Automation and AI are essential to make them self-sufficient in building and maintaining efficiencies.

However with the indispensable human element that exists with introduction of new movable and non-movable objects on earth each day, this industry is expected to involve hybrid technologies where machines and humans co-exist and create robust systems for improving human lives.

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