Cloud & **Internet of** Things

Success Story

Robust Oil/Gas Supply Chain Solution Delivered

Facilitated live tracking and management of fuel trucks/trailers, thereby boosting overall operational efficiency

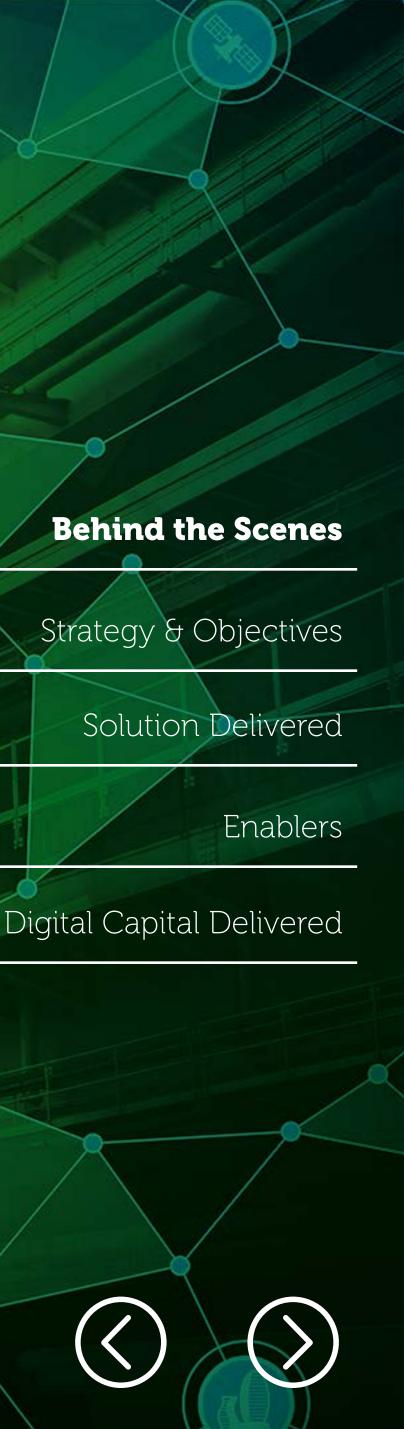
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Behind the Scenes

Can Cloud & IoT be game-changers?

There has been massive growth in the number of sectors and industries that are implementing Cloud technology and the Internet of Things (IoT). By adopting these technologies, businesses can optimize operations/resources, reduce costs and generate a better return on investments. The client had a device, which was installed in the truck/trailer, but it did not have connectivity. The data could be pulled offline, and therefore, did not facilitate live tracking, assessment, and management. A robust and secure monitoring system was the need of the hour. The solution designed by Happiest Minds combined cloud and IoT technologies to develop a platform and application, which could manage and live track end-to-services.





Strategy & Objectives Enable Live Tracking

The client wanted us to create a robust asset management system to enable real-time monitoring and tracking of site efficiency, trailer efficiency, and driver

The project deliverable focused on the following areas:

cloud enablement, and integrations assets in real-time Monitor the real-time status of all assets Take decisions in real-time Keep the operational cost minimal

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Selection of the IoT platform that can provide scale,

Explore devices/technologies to track and manage

Deliver complete supply chain solution for boosting overall operational efficiency, for inventory visibility, for control/material handling, and to remotely manage site efficiency, trailer efficiency, and driver efficiency

End-to-end IoT security to enable risk-free operations.

Enabling rapid scaling up of business by onboarding new fleets, new drivers, new customers by using online and connected system

Enhancing the customer experience of fleet operators by giving them real-time insights and reports

Behind the Scenes

Strategy & Objectives

Solution Delivered

Digital Capital Delivered







Solution Delivered

Faster response to alerts, quick decision-making

The ability to visualize in real-time the trailer's location, and do live tracking of the number of compartments in a trailer, what kind of fuel is there in each compartment, and the status of each compartment, are crucial to ensure that the client has more control over the services being delivered, which, in turn, will reduce operations costs. The solution was designed keeping these crucial aspects in mind. The cloud platform development of the cloud platform development of the four key areas, which is tracking of trailers and customized management response to critical alexander maintenance alerts.

We connected the offwhich collects all the c and sends it to the clou

The data generated is to cloud, where it is track online in real-time. The with back-end services actionable insights to t

Details such as the driv and email id are mention the client to give real-to the driver on critical all accelerating response

eveloped impacts includes live d contents, nent of alerts, faster erts, and preventive	We identified the best-suited gateway pertaining to the project and wrote the edge software for the gateway.	
-the-shelf gateway, data from the truck oud.	Each truck can have one or more trailers. Each truck is equipped with sensors, which are connected to the cloud platform. This enables live-monitoring and alerts are issued if there is a breakdown, a GPS fault or any other mechanical failure.	Behind the Strategy & Obj
transmitted to the ked and analyzed he data is integrated es to provide the management.	The web application designed by Happiest Minds provides administration, live tracking, dashboard, and reports. Each section enables users to effortlessly visualize in real-time the trailers' location and details such as driver name, truck position, and product types.	Digital Capital De
iver's phone number tioned, which enable time information to lerts, thereby time.	This is a multi-tenant application which supports multiple trailer companies. The data of one trailer company is not visible to other companies.	



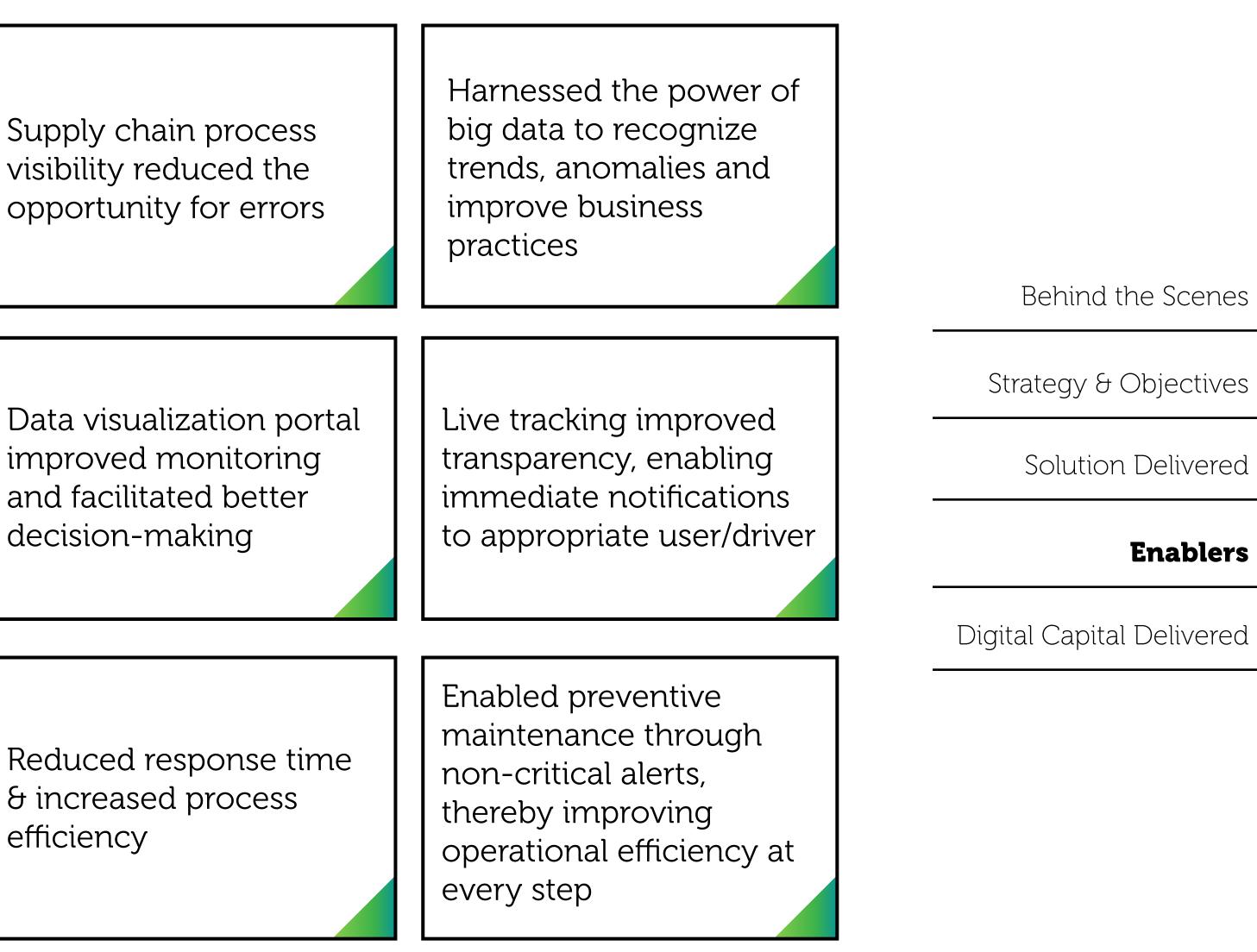
Enablers

Preventive maintenances a big takeaway

Integration and management of end-to-end services resulted in reduced time, effort and cost.efficiency.

efficiency

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Digital Capital Delivered Reduced downtime, higher return on

investment

The Happiest Minds took complete ownership of the project, from development to deployment, to provide a platform that was powered by IoT. The online management system facilitated 'connected experience' and gave users minute-by-minute clarity on where the truck is, if the driver is active or idle, if the fuel has been loaded, if the truck has left the loading station, which are the stations where loading is getting frequently delayed, and which routes are better, among others. By using the real-time monitoring and status report capabilities, the client can make quick and smarter decisions.

The other important feature this solution provides is preventive maintenance alerts, which allows the trailer companies to undertake many operational issues on time like truck and trailer

expiry, pressure retest inspection, leakage test, preventive maintenance inspection, and internal visual inspection, among others. The cloud application provides a central view of all alerts and incidents, facilitating their follow-up and management, including the ability to escalate cases. When a trailer company admin logs in, the system displays in real-time the number of trailers that have a critical alert/warning/non-critical alert. Therefore, the right information is now available at the right time to the client for making informed decisions. In the long-run, these real-time decisions facilitated by alerts will increase the lifetime of vehicles, boost the productivity of trucks and drivers, reduce downtime, and make significant savings for the company.

About Happiest Minds Technologies

Happiest Minds enables digital transformation for enterprises and technology providers by delivering seamless customer experience, business efficiency and actionable insights through an integrated set of disruptive technologies: big data analytics, AI & cognitive computing, Internet of Things, mobility, cloud, security, unified communications, SDN-NFV, RPA, etc. Happiest Minds offers domain-centric solutions applying skills, IPs and functional expertise in IT services, product engineering, infrastructure management and security. These services have applicability across industry sectors such as retail, consumer packaged goods, edutech, e-commerce, banking, insurance, hi-tech, engineering R&D, manufacturing, automotive and travel/transportation/hospitality.

Headquartered in Bangalore, India; Happiest Minds has operations in the US, UK, The Netherlands, Australia and Middle East.

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