

# • APTIV •

## Auto Parts Leader Drives Global Efficiency and Innovation with Manufacturing Intelligence Portal

Empowering employees by connecting them to real-time data.

### Summary

Aptiv is a global auto parts and technology leader in autonomous driving and connected cars. The company needed a connected platform to store all their production data that would be accessible by plant employees and manufacturing leaders at the site, regional and global levels. Aptiv used Liferay to create a global manufacturing intelligence portal to support over 10,000 employees.

### In Brief

**INDUSTRY:**

Automotive

**COUNTRY/REGION:**

Global

**USE CASE:**

Business Intelligence Portal

**KEY FEATURES:**

Integrated Dashboard, Data Consolidation, Role-Based Authorization, Role Based Content Delivery, Native Mobile App, Push Notifications, Security



**We now have a platform we can build on and grow with for the next couple decades.**

Steve Hutchins

Chief Engineer Manufacturing Information Systems, Aptiv

### Challenges

- Production data was siloed across 74 servers all over the world
- Employees had to be within the correct plant with the correct server to access information; excessive time was spent tracking down information and the location of its source
- Attaining a high-level view of production data was time consuming

### Results



**REDUCTION IN DOWNTIME**

Improvements in manufacturing efficiency multiplied globally to cost savings



**SINGLE CONTENT SOURCE**

Consolidated data set from all servers and sites globally



**REAL-TIME PRODUCTION DATA**

Accurate visibility of production quality and efficiency on any device



**USER PERSONALIZATION**

Targeted notifications and production dashboards personalized according to roles and permissions

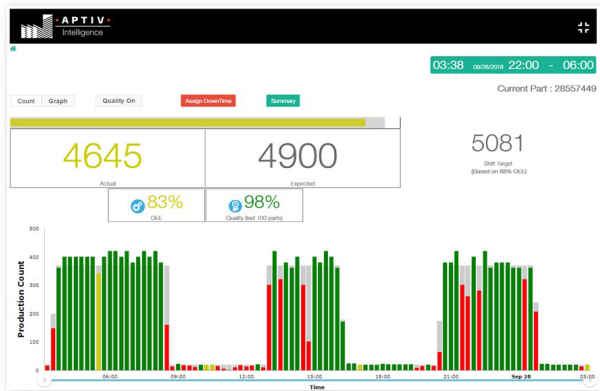


**QUICK ACCESS TO PRODUCT DATA**

Shortened the search for product history and information from hours to seconds

## Driven by Data

As a leader in autonomous driving, Aptiv has always been at the forefront of smart mobility solutions. In 2015, they were the first company to accomplish an automated car drive from San Francisco to New York and in 2018 had a fleet of 30 autonomous vehicles with Lyft in Las Vegas. The quick pace of innovation in the automotive space requires Aptiv to constantly improve its manufacturing processes. A key challenge was getting actionable data into the right hands at the right time. With over two million transactions about their products spread across the world, a lot of time was spent tracking down information and the location of the source rather than fixing problems.



This challenging process ultimately pushed Aptiv to find a tool that would allow users to easily access data and locate the right information but also be able to draw actionable insights from that data. In order to remedy these issues, this tool needed to be a self-service portal that could be accessible anywhere at anytime while preserving data security.

### EMPOWERING EMPLOYEES WITH DATA

Partnering with Youngsoft and using Liferay, Aptiv created Aptiv Intelligence for its 10,000 users in manufacturing teams around the world. Aptiv Intelligence is a one-stop shop to get global manufacturing data and intelligence on any device anywhere. The employees on the floor at production plants would now have access to all

the information produced through the portal and supervisors can check production efficiency on their devices through a native application. This new solution breaks down traditional silos to create an experience that allows employees to access information securely anywhere and at anytime.

“People spend less time collecting data and more time doing something about it,” said Steve Hutchins, Chief Engineer of Manufacturing Information Systems at Aptiv.

By providing employees around the world with a consolidated platform, Aptiv empowers its portal users with advanced search functions, production status displays, financial dashboards and role authorization. Real-time data from the plants and machines is automatically documented in the portal allowing employees to monitor production quotas, machine performance and data at the site, regional and global levels. In addition, employees will get alerts targeted to them about malfunctioning machines or updates on production that are relevant only to their role.

“We’re getting the right intelligence to the right people,” Hutchins said. “Historically, when alarms go off in plants, everyone hears them. With the portal, we’ve identified the right equipment and users, and built targeted alarming that gets alerts to the right person.” These alerts can be delivered through SMS messaging, emails or push notifications depending on the alert levels.

### CONTINUALLY EVOLVING PORTAL

Aptiv Intelligence is still being built upon, as success from each feature encourages continual development into new innovations. The team has plans to expand the targeted alarm system to include location awareness and bluetooth beaconing on equipment. The flexibility of Liferay allows the team at Aptiv to continue adding to and scaling their powerful solution. “This is a global portal based on global data that automatically multiplies across every site we build,” Hutchins said.