TRANSFORMING A GLOBAL AUTOMOTIVE OEM INTO AN AGILE AND LEAN ENTERPRISE

Improved Efficiency and Agility By 80%

Due to globalisation, enterprises typically work with multiple suppliers worldwide, each with different governing laws, policies, processes, and structures. Adapting to multiple ways of working often results in delays and disruptions.

In fact, this problem is so prevalent that in 2022, Deloitte surveyed over 200 manufacturers and concluded that "deploying digital tools for increased visibility and combining efficiency with resilience" were just some ways to combat it.

Read how we empowered one of our Clients—a leading global automotive OEM—with a collaborative platform and structured process that enabled them to overcome these problems and achieve remarkable results.

Plagued By Delays And Inefficiencies

Our Client faced significant challenges managing their complex distributed development ecosystem. To address the growing demands of individual business units, they collaborated with several Tier 1 and Tier 2 suppliers in different countries, drawing on the best expertise to deliver the desired results.

However, due to this organic growth, standardised processes and collaboration guidelines were absent. Ad hoc processes and ambiguous systems were in play, resulting in technology code that could not be used as is and needed to be revised. Unfortunately, these glaring mistakes were often identified only during deployment, resulting in significant rework, missed deadlines, frustration, and lower quality.

Our Client needed a solution to unite their global teams under one cohesive platform that increased transparency and efficiency across the project lifecycle.

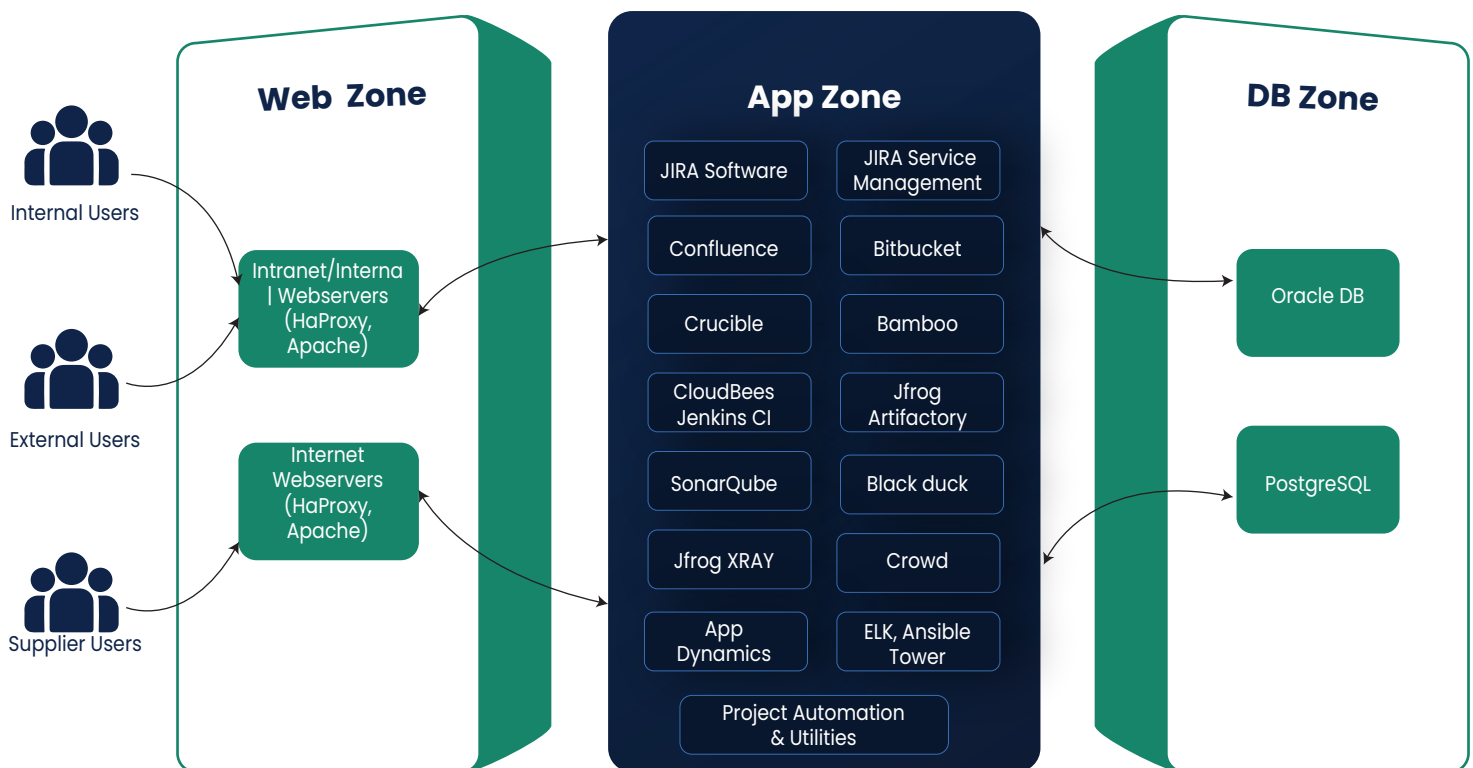### Is your development process slowing you down?

We can help you identify bottlenecks, streamline your process, and enhance collaboration. Talk to us, today!

A Diagnostic Approach

MicroGenesis streamlined the development ecosystem by implementing a comprehensive Global Software and Systems Engineering platform. We developed a robust solution leveraging cutting-edge technologies, including Java, Python, .NET, and Angular, complemented by modern DevOps tools such as Jira, Confluence, and Kubernetes.

Our implementation followed a strategic, three-phase approach:

Phase 1

we thoroughly assessed the existing landscape, evaluating current processes and technologies across all teams. This foundation allowed us to identify pain points and opportunities for improvement.

Phase 2

we developed and deployed a scalable platform architecture designed to support global teams.

Phase 3

we established comprehensive management systems, including 24/7 monitoring of the production environment, multilingual support, and customisation capabilities. These systems ensured smooth operations and continuous improvement of the platform.

Web Zone

Internal Users

External Users

Supplier Users

Intranet/Interna l Webservers (HaProxy, Apache)

Internet Webservers (HaProxy, Apache)

App Zone

JIRA Software	JIRA Service Management
Confluence	Bitbucket
Crucible	Bamboo
CloudBees Jenkins CI	Jfrog Artifactory
SonarQube	Black duck
Jfrog XRAY	Crowd
App Dynamics	ELK, Ansible Tower
Project Automation & Utilities	

DB Zone

Oracle DB

PostgreSQL

The Global Software and Systems Engineering Platform Architecture

Are legacy systems not communicating with the rest of your tech stack?

We can help you future-proof your operations with a detailed transformation roadmap that connects the past, present and future. Email sales@mgtechsoft.com to get started.

Key Features And Capabilities

The platform is a unified solution for all development activities, incorporating essential features such as requirement management, model-based design, project management, and defect tracking. We implemented continuous integration and deployment pipelines, robust test management systems, and comprehensive application monitoring capabilities.

The platform included over 15 applications related to the following:

Requirement Management	Demand Management	Continues Delivery	24/7 Production Support
Model Based Design	Continues Integration	Static Analysis	Multilingual Helpdesk
Project Management	Continues Testing	Dynamic Analysis	Customization
Change Management	Microservices	Test Management	Automation
Defect Management	Continues Deployment	Application Monitoring	Upgradation/Migration

Technology Stack

Java, REST, OSLC, JSON, AI, ML, Python, Groovy, .NET, Angular, Java Script

Tools Stack

Jira, Confluence, Bitbucket, GIT, Jenkins, SonarQube, Dockers, Kubernetes, Artifactory, DNG, EWM, Rhapsody, Fisheye, Crucible, Tempo Planner, AppDynamics, Grafana, Prometheus

The platform incorporated future-ready technologies and frameworks, ensuring long-term sustainability and growth potential.

Transformative Results

The impact of our solution was both immediate and substantial. Within 12 months, the organization witnessed a remarkable 2x increase in ROI, demonstrating the platform's significant value proposition. The platform successfully onboarded over 33,000 users, leading to an 80% increase in operational efficiency.

One of the most notable improvements was in deployment efficiency - what once took four hours was reduced to less than 10 minutes. The platform's intelligent automation capabilities, powered by machine learning, dramatically reduced helpdesk tickets from 9,000 to 3,000 per month, marking a 60% increase in support efficiency.

What took 4 hours now takes less than 10 minutes!

What could your team achieve with the right systems in place?

Let's talk!

Long-term Impact

Beyond the immediate operational improvements, the platform also fostered a more collaborative and efficient development environment. Teams now enjoy enhanced visibility into projects, automated workflows, and more predictable delivery schedules. The improved Application Lifecycle Management (ALM) process maturity has led to a 70% improvement in agility, enabling faster response to market demands and changes.

The platform has effectively bridged the gap between the OEM and its suppliers, creating a transparent, efficient, and standardised development ecosystem. This transformation has improved current operations and laid a strong foundation for future growth and innovation in the automotive development industry.

MICROGENESIS

Digital transformation takes time and expertise.

We can help!

Accelerate your growth journey and get the results you want.
Email us at sales@mgtechsoft.com or visit www.mgtechsoft.com

To schedule a consultation!

MicroGenesis
Empowering Enterprises to Thrive in a Digital World.