

Adexa eGPS for Vehicle Manufacturing Suppliers

Intensifying global competition.
Demanding OEMs.
Shrinking margins.
From materials to major components, the global supply chain that feeds the vehicle industry is under pressure to reduce prices and improve Return on Assets at every point.



Promise and deliver more value to the customer. Optimize the assets and expenses required to execute

As OEMs turn their focus to managing brand values across increasingly complex and fragmented markets, responsibility for design, cost reduction and supply chain management is downloaded to suppliers.

Partners and competitors are consolidating worldwide to increase flexibility, bringing even greater complexity to supply relationships and information channels.

The Supplier business is tough. Continuously changing OEM schedules and late or poor performance by your suppliers force you to invest in just-in-case capacity and inventory — strategies that add cost without adding benefits. Adexa Enterprise Global Planning System (eGPS) shows you the way.

Improve the quality of demand forecasts

Forecasts from OEMs are often inaccurate, so you supplement it with data from all kinds of sources — from historical reports to third-party analyses. With its extraordinary problem-solving speed, eGPS simplifies the conversion of complex demand signals into intelligent consensus forecasts that present a truer picture of exactly what is required from the supply chain.

Then, based on comments from internal experts and new incoming data, you can update the forecast dynamically in real-time. This improved demand intelligence means you can replace costly just-in- case stocks and capacity with more accurate planning and greater responsiveness to OEM requirements. Ultimately, you reduce the cost of inventories, expediting and overtime throughout the supply chain.

Optimize manufacturing plans

With real-time access to your full range of demand signals, supply sources, dependencies and decision constraints, you're now in position to rationalize capacity from a global perspective and develop plans to do more with less. eGPS provides the tools to recognize and manage the complex trade-offs involved in global distribution where OEM demand, supply and lead times vary within and across markets.

Then eGPS helps you plan, schedule and sequence for both Just-In-Time and make-to-forecast commitments. Automated plans for materials and capacity are driven by rules that you can refine continuously and the system monitors for accuracy.

These are updated in real-time to keep pace with actual order flows and shop floor conditions. So everyone keeps moving in the same direction, at the same speed.



Optimize manufacturing

Plan, schedule and sequence production of complex components across multiple supply tiers in one unified model with a true digital twin.



Improve forecasting

Consolidate forecasts from multiple OEMs and third-party forecasting services, factor in actual history and temper the result with your expert intuition.



Consolidate planning

Establish a common language to communicate plans and update requirements across multiple enterprise and shop floor systems.



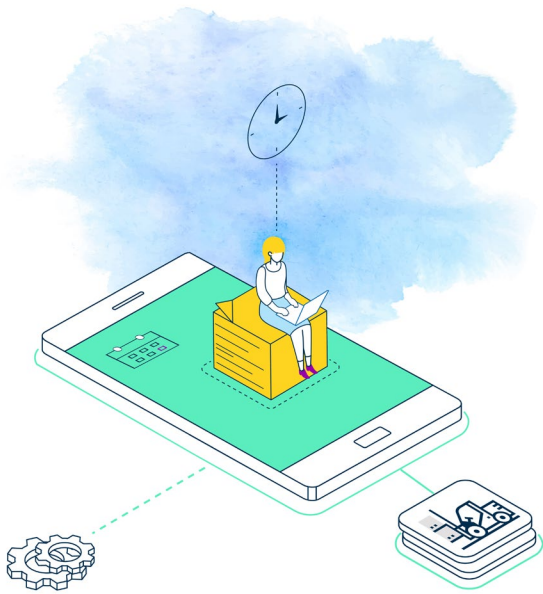
Accelerate response times

Monitor and update Just-in-Time planning with a real-time view of OEM schedules, plant operations and supplier performance.



Reduce inventories

Deploy Lean manufacturing and kanban strategies based on predictive techniques.



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Establish two-way communications with suppliers

Expanding your sources of capacity and supply is one thing; getting them to work together is another. eGPS enables the two-way flow of both forecast and executional information across multiple supply tiers. It communicates plans directly to your suppliers to help them plan for JIT commitments, reverse auctioning, RFPs, VMI programs and pull system or kanban implementations. And, it incorporates supplier feedback to keep plans achievable and up to date.

Within eGPS, information from all sources is captured in a UNIFIED data model, providing a common language and planning platform for different management and shop floor systems — without replacing the applications you know. eGPS can communicate directly with existing MRP, ERP, MES logistics and accounting systems anywhere within the enterprise, at all levels of the supply chain.

Support the effectiveness of your Lean manufacturing initiatives

Lean manufacturing combines philosophy and management techniques to reduce waste. The eGPS solution supports Lean activities in several ways.

Accurate demand planning is the foundation of Lean manufacturing strategies. eGPS delivers real-time consensus forecasting to help you minimize work-in- process inventories, plus the collaborative supply planning and demand leveling to help you fully optimize the JIT supply chain.

eGPS provides the flexibility in scheduling to manage batch-oriented processes in your production while the balance of your facility operates with kanban or FIFO scheduling techniques.

eGPS also helps your plants recalibrate operations when long-term trends require updated cell capacity, kanban resizing or heijunka box calculations. By enabling end-to-end visibility and collaboration, eGPS keeps you on the path to reducing waste by accelerating the flow of information along your end-to-end supply chain.

eGPS for Vehicle Manufacturing Suppliers: Get there faster!

Faster to respond

The proven collaboration digital twin underlying eGPS enables quick configuration to fit your business systems so you can see your actual data and processes in action before you buy.

Faster to implement

All applications in the eGPS suite are pre-integrated and native to the Adexa environment. Both S&OP and S&OE reside in ONE system, truly merging planning and execution. There’s no time wasted patching interfaces between critical systems.

Faster to solve

The powerful AI/ML and optimization engine at the heart of eGPS forms a digital twin and solves highly complex problems and what-if scenarios in seconds where other solutions require hours or days to process. Fast solving also allows more accurate modeling at the lowest possible level of detail.

Faster innovation

Adexa delivers advanced functionality first because, while other solution providers are working on fixes to bundle disparate modules together from varied developers, our unified data model lets us focus development on adding real enhancements to eGPS solutions.

Furthermore, Adexa Genies® enable automation of many of your business processes and constantly improve and optimize your policies such as safety stock levels.

Faster return-on-investment

By implementing your solution with pre-integrated modules use of attribute-based planning technology, you adapt quickly to the processes you already know and use, eGPS starts delivering benefits sooner and earning dividends on your investment faster.

“Using Adexa Genies®, eGPS enables building a digital twin of your supply chain and your factories, and continues to self-correct the model and self-improve the policies such as safety stocks.”

