



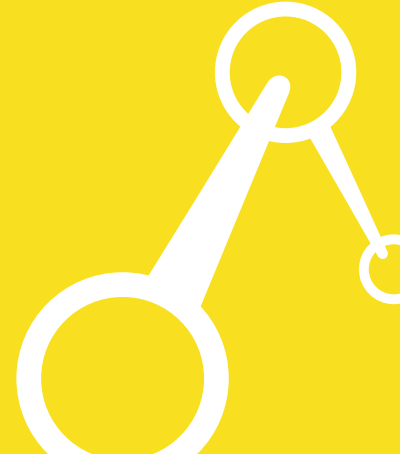
ADEXA

## ENTERPRISE GLOBAL PLANNING SYSTEM



Intensifying global competition. Chronic overcapacity. Shrinking margins. Vehicle manufacturers are under pressure to grow market share and simultaneously improve Return on Assets at every point. Your response:

## Adexa eGPS for Vehicle Manufacturing



### Optimize Manufacturing

Plan, schedule and sequence production of vehicles across multiple supply tiers.

### Improve Customer Service

Provide real-time available-to-promise to dealers and consumers based on actual assembly plant schedules and supplier capabilities.

### Reduce Inventories

Gain visibility into inventory throughout the supply chain, from dealers through distribution centers and assembly plants to key component suppliers.

### Rationalize Capacity

Balance the trade-offs between investment in finished goods inventory and utilization of agile manufacturing to achieve shorter delivery lead-times and improved customer service.

### Consolidate Planning

Establish a common language to communicate plans across legacy systems and bridge the gap between suppliers and dealers.

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

Consumer expectations change every day. They expect more information, more choices, faster responses and lower prices. As an Original Equipment Manufacturer (OEM), your role is to shape those consumer expectations and win market share. Your supply chain is a critical weapon. Although you may share suppliers or even components with competitors — the ability to gain competitive advantage from your supply chain is key to your success. A well-managed supply chain requires information to flow as smoothly as material. Just-in-Time delivery of materials is common; the same isn't always true of information flow, but it can be. Adexa Enterprise Global Planning System (eGPS) shows you the way.

### Streamline investment with responsive demand planning

Forecasting is often at the mercy of conflicting data from all kinds of sources — from sales history to third-party analyses and dealer projections. With its extraordinary problem-solving speed, eGPS simplifies the conversion of complex demand signals into intelligent consensus forecasts that present a true picture of resource requirements. Multi-year forecasts can be analyzed in unit volumes, revenue and profitability based on multiple product mix scenarios. Then, based on comments from internal experts and new incoming data, you can update the forecast in real-time to keep the supply chain in step with actual events. For OEMs, forecasting with eGPS means better resource planning, letting you smooth demand, reduce inventories, and free capital for more productive investments.

### Optimize manufacturing and improve customer service

With real-time access to your full range of demand signals, supply sources, dependencies and decision constraints, you're now in a position to rationalize capacity from a global perspective and develop plans to do more with less. eGPS will solve conflicting optimization objectives for factory utilization, inventory carrying costs, total capital investment, dealer service levels and revenue maximization. With your targets set, eGPS can plan, schedule and sequence complex material flows in line with your business goals, resource strategies and customer service objectives. Meanwhile, eGPS lets you do more for customers by giving dealers an interactive view into the supply chain. Real-time available-to-promise lets customers choose between features, cost and availability, increasing overall satisfaction while giving dealers more opportunities to upsell higher margin options. For OEMs, the interactive supply chain pays back an improved return on investments in flexible manufacturing and strategic inventory pools.

**“With your targets set, eGPS can plan, schedule and sequence complex material flows in line with your business goals, resource strategies and customer service objectives.”**

### **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 between OEMs, component manufacturers and suppliers across multiple tiers. It communicates plans directly to your suppliers to help them plan for Just-in-Time commitments, reverse auctioning, RFPs, VMI programs and pull system or kanban implementations. Most importantly, eGPS incorporates supplier feedback to keep plans achievable and up to date. Within eGPS, information from all sources is captured in a single data model, providing a common language and planning platform for legacy systems and shop floor solutions — without replacing the applications you know. eGPS bridges the gap between manufacturing resources and consumer-facing distribution channels, so everyone keeps moving in the same direction, at the same speed.

### **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. eGPS enables you to create consensus forecasts of future volumes and model mix and communicate them rapidly so your plants and suppliers can plan ahead. Demand smoothing is a critical component of Lean manufacturing — every player in the supply chain depends on level demand from OEMs and eGPS helps by balancing capacity and investment with customer expectations. 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 entire supply chain.

### **eGPS for Vehicle Manufacturing: Get there faster!**

#### **Before you make your next move, you should know exactly where you stand.**

With Adexa eGPS, you and your supply chain partners can have a clear picture of where you're going and your position right now as you move forward on your business objectives.

#### **eGPS points the way to more accurate planning and execution.**

eGPS enables a global view of supply and demand requirements, measured against constraints, to support smarter decision-making across the enterprise and throughout the supply chain. eGPS allows you to optimize production and delivery plans for speed and profitability, and communicate the plan to all parties involved in the process, from raw materials to the final customer. When exceptions emerge or new constraints appear, eGPS automatically updates the plan and alerts stakeholders to the new directions they need to take.

#### **Faster to Evaluate**

eGPS is built on a proven platform for adaptive modeling and large-scale collaboration that enables quick configuration to fit your business systems; you can evaluate eGPS by watching your actual processes in action.

#### **Faster to Implement**

All solutions in the eGPS suite, along with the corresponding data maps to support them, are pre-integrated so there's no time wasted patching together interfaces between critical functions.

#### **Faster to Solve**

Adexa's powerful optimization engine solves highly complex problems and scenarios in seconds where other solutions require hours or days to process. Fast solving also lets you generate more supply chain “what-if” analysis at any level of aggregation or detail.

#### **Faster to Respond**

Adexa delivers all its eGPS functionality on a single data model. While other solution providers are cobbling together disparate modules acquired from other developers, Adexa eGPS can meet new customer challenges with real market-first advances.

#### **Faster Return on Capital**

With its fast implementation cycle and rapid adaptation to the processes you already know and use, eGPS starts working with you sooner to realize the full potential of your total IT and resource investment.

Adexa, Inc.  
5777 West Century Boulevard  
Los Angeles, CA 90045 USA  
Tel: 310 642 2100  
Fax: 310 338 9878  
www.adexa.com

#### **Adexa's Worldwide Locations**

**North America**  
Los Angeles, CA  
Toronto, ON

**Europe**  
Germany

**Asia**  
Japan  
South Korea  
Taiwan



**ADEXA**