

Revolutionize Manufacturing with APGAR AI Copilot for Production Optimization.

Introducing the AI Copilot for Production Optimization - a sophisticated Data and AI framework designed to transform your manufacturing operations. It generates granular, accurate, and optimal production plans and resource scheduling in near-real-time, supported by a digital twin and data lake open data models that can be explored using any Advanced Analytics tool of choice.

Address Manufacturing Production Challenges with APGAR AI Copilot for Production Optimization.



DEMAND VOLATILITY

Satisfying unexpected customer orders and digital channels demand are major issues for manufacturing companies. The AI Copilot for Production Optimization is a game-changer in these scenarios, by adjusting resource scheduling and generating new production plans in real-time.



HUMAN RESOURCE SHORTAGE

A scarcity of skilled labour can hinder productivity. Our AI Copilot automates the highly specialized task of production planning and resource scheduling, reducing reliance on human intervention and freeing up your valuable human resources for strategic tasks.



RISING COSTS AND ENVIRONMENTAL RESPONSIBILITY

Skyrocketing energy and raw material costs and greenhouse gas emissions are major concerns. By optimizing raw materials usage, reducing waste, obsolete stock and energy consumption, our AI solution helps maximize efficiency, reduce your overall operational costs, and lower your carbon footprint.

A Proven AI Methodology.

A DISCOVERY PHASE

We conduct complimentary business case discovery sessions to understand your unique operational challenges, context, and goals.

A ROLL-OUT AND SCALING PHASE

Where we gradually extend the AI solution to other business lines and manufacturing sites and add optional modules. The goal is to bring the new levels of automation and intelligence to all business units.



PROOF-OF-VALUE (POV) OR MINIMAL VIABLE PRODUCT (MVP) PHASE

We configure our AI solutions on our infrastructure to showcase their potential in addressing your specific operational goals.

A DEPLOYMENT AND ENABLEMENT PHASE

We deploy and enable the AI solution on your preferred cloud provider for validation in one or two manufacturing sites or business lines.



«Our AI Copilot for Production Optimization is transforming manufacturing operations across large plants in the USA and Europe. Its advanced capabilities in resource scheduling optimization are driving efficiency, reducing costs, and promoting sustainability. I am thrilled to witness the remarkable impact our solution is making in data-driven manufacturing companies, such as Logoplaste.»

Mário DUARTE

Business Director, Head of AI & Advanced Analytics

The AI Copilot for Production Optimization: A complete Data and AI framework.

Industrial organizations often rely on rule-based planning systems, legacy scheduling systems, or spreadsheets for production planning and resource scheduling. These systems often do not consider relevant operational constraints, specific configurations, and unexpected customer orders or machine breakdowns, resulting in suboptimal schedules, costly changeovers, missed revenue opportunities, and low-capacity utilization.

APGAR's AI Copilot for Production Optimization provides a distinctive alternative, due to the following set of capabilities:



Built from the ground up for the cloud. It can scale to any number of facilities and users.



Scenario and what-if analysis to explore and evaluate the impact of different manufacturing configurations and different levels of demand.



Simple to use and easy to configure. It challenges the status quo - planning can be done anywhere by anyone.



Plan and schedule any complex distributed manufacturing system using a combination of AI techniques. The AI solution supports different plant scheduling requirements while providing a centralized view of the production plans across all plants.



Predefined digital twin and data lake models that can be easily explored using self-service analytics tools. The data lake, supported in different data cloud vendors, can be further enriched with additional operational data.

Trusted customers of the AI copilot for Production Optimization.



ABOUT APGAR

Apgar is a leading data advisory company supporting its customers in their journey to build a foundation for trusted data. Built with strong values, Apgar aims to provide sustainable advisory services. Apgar acts for small & large companies, in Europe, North America, Australia and the Middle East.

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