Capgemini Digital Control Room Analytics

Introducing an end-to-end solution for real-time operations insight
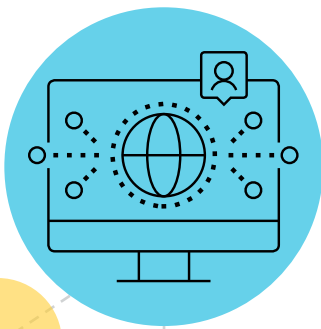
Embrace your digital core

In this digital age, data is the new currency

Data from your operations has a story to tell, but do you have the technology to turn data into insights and then listen, understand, and act on these insights? Can you leverage manufacturing data for predictive analytics and data-driven decisions from the floor to the C-suite? By embracing smart technology like Capgemini Digital Control Room Analytics, you will be able to harness the power to take necessary 'data smart' actions—that would yield the most impactful outcomes, both in terms of growth and efficiency.

Capgemini Digital Control Room Analytics is a solution framework which combines IoT information with financial, plant, asset, equipment, and supply chain data. It provides multiple functionalities including visualization, deep insights, operation planning, real-time communication and predictive analysis. Leveraging Capgemini's global expertise in consulting, insights and data, cloud, and digital manufacturing, with SAP S/4HANA® as the digital core, Capgemini Digital Control Room Analytics provides operations-focused real-time data and analytics to enable automation and translate insights into actions.

Each day your shop floor equipment generates massive quantities of data but this alone does not give you insights or a focused plan to improve your operations. By mining, aggregating and analyzing this data with the Digital Control Room Analytics, you have powerful visibility into your business that provides many possibilities. Leveraging the digital platform integration of SAP Leonardo, this solution integrates breakthrough technologies and enables them to run seamlessly in the cloud or on-premise. Use Capgemini Digital Control Room Analytics to turn your data into insights that drive business optimization and efficiencies.
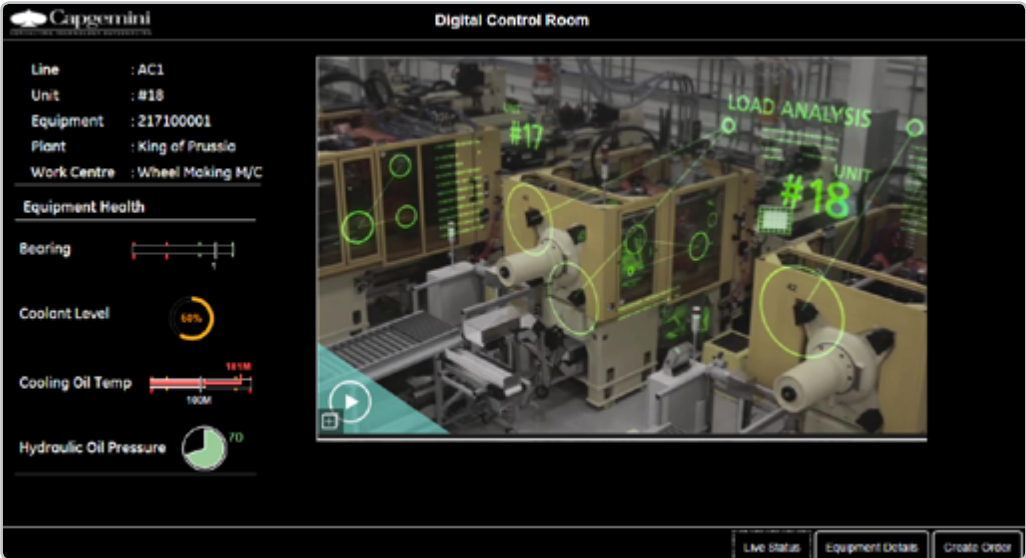

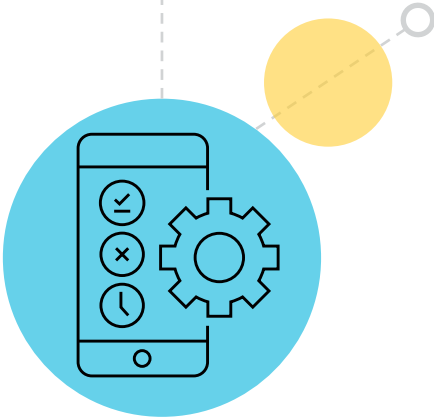*Real-time shop floor metrics for fulfillment, maintenance, EH&S, cost, and quality*

Driving business outcomes

Capgemini Digital Control Room Analytics provides the ability to deliver predictive and prescriptive insights. This enables proactive action to streamline and improve manufacturing operations and achieve the following outcomes:

- Improved order fulfillment and increased overall equipment effectiveness (OEE)
- Improved service and warranty SLAs
- Improved asset performance and uptime through preventative / predictive maintenance
- Reduced defects per unit
- Reduced Environmental, Health and Safety (EHS) incidents and risk
- Reduced cycle time between Manufacturing and Engineering
- Global and real-time visibility into operations, enabling rapid and proactive remediation.
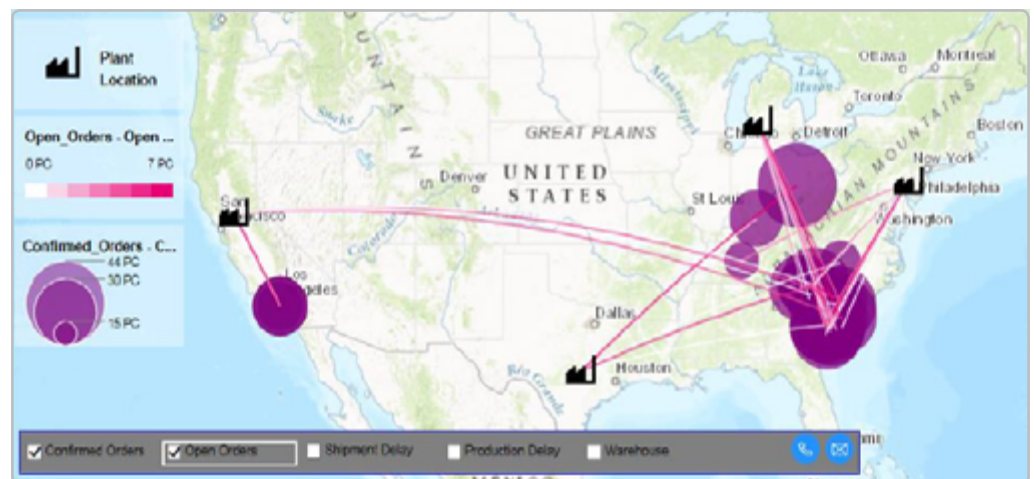

Real-time device monitoring

Key features

- **End-to-end analytics solution, Insights-into-Action capabilities**
Global manufacturing visibility and performance management, with drill down capabilities to each plant for real-time insights, merging SAP data, and 3rd party disparate data sources

- **Planning and alert capability, ability to create ERP events**
Planning option for digital shop floor ability to integrate data from multiple data sources including real-time IoT feeds, ME/Mii, SAP S/4HANA, and other ERP or data inputs and provide one consistent, metric-driven view

- **Machine-driven option**
Integration of predictive models for quality and maintenance, to proactively detect issues and streamline and automate corrective actions

- **Cloud and/or on-premise based solution**
Cloud-based application delivery on SAP's Cloud Analytics platform drives lower TCO, built on SAP Cloud Platform (SCP), and enables mobile solutions. On-premise deployment also available with SAP's Design Studio platform.
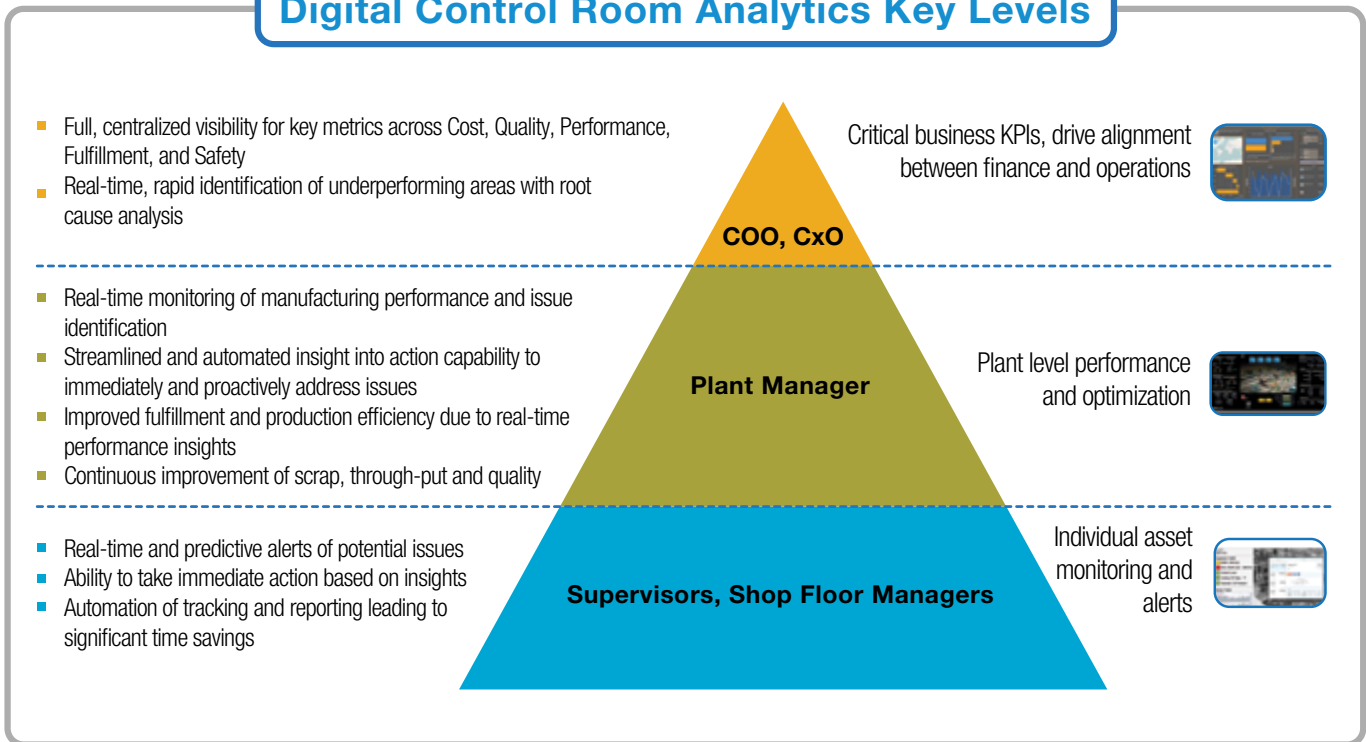

Rich analytics supporting end-to-end supply chain visibility
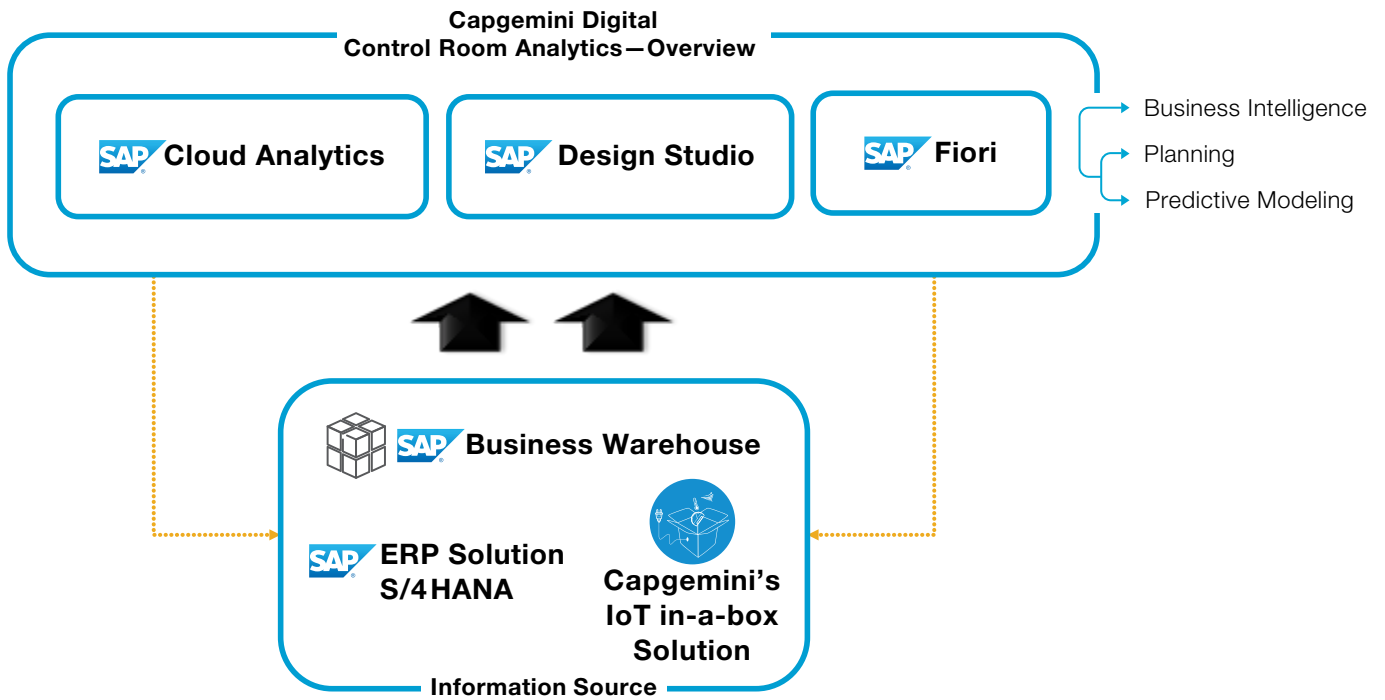
Analytics—end-to-end optimization

Real-time monitoring of your operations from shop floor to global consolidation

Digital Control Room Analytics Key Levels

- Full, centralized visibility for key metrics across Cost, Quality, Performance, Fulfillment, and Safety
- Real-time, rapid identification of underperforming areas with root cause analysis

COO, CxO

Critical business KPIs, drive alignment between finance and operations

- Real-time monitoring of manufacturing performance and issue identification
- Streamlined and automated insight into action capability to immediately and proactively address issues
- Improved fulfillment and production efficiency due to real-time performance insights
- Continuous improvement of scrap, through-put and quality

Plant Manager

Plant level performance and optimization

- Real-time and predictive alerts of potential issues
- Ability to take immediate action based on insights
- Automation of tracking and reporting leading to significant time savings

Supervisors, Shop Floor Managers

Individual asset monitoring and alerts

Fast Digital 4 Discrete Industries—at the heart of the digital transformation in manufacturing

Capgemini Digital Control Room Analytics is just one of the foundational use-cases developed together with SAP as part of a joint strategic initiative called "Fast Digital 4 Discrete Industries by SAP and Capgemini". This initiative makes Digital Transformation a reality for discrete manufacturers through tangible and reusable assets, built on new and innovative SAP platforms. SAP and Capgemini are working together as part of this initiative to address the technological and organizational challenges of their clients going digital. Capgemini Digital Control Room Analytics leverages Capgemini's proven Digital Transformation Framework and global expertise in consulting, insights and data, cloud, and digital manufacturing with SAP S/4HANA as the digital core.

**Capgemini Digital
Control Room Analytics—Overview**

SAP **Cloud Analytics**

SAP **Design Studio**

SAP **Fiori**

→ Business Intelligence
→ Planning
→ Predictive Modeling

SAP **Business Warehouse**

SAP **ERP Solution
S/4HANA**

**Capgemini's
IoT in-a-box
Solution**

Information Source

This diagram illustrates the solution stack and flow of information that enables the Digital Control Room Analytics from connected products on the shop floor to the SAP S/4HANA platform.

SAP Cloud Analytics combines business intelligence, planning and predictive analytics into one cloud solution, entirely based on the SAP Cloud Platform (SCP). This SaaS solution provides access to all the possible data so that the user can visualize, plan and predict using real-time data. The SAP Design Studio provides complementary analytics and dashboard capability, enabling real-time executive and operations level visualization and end-to-end supply chain visibility. SAP Fiori enables the solution users to review IoT information, analyze operational details and allows automated order creation in the SAP S/4HANA system.

SAP Leonardo plays the framework in providing everything needed to connect essential business data, from where it is created, with the tools and the people making decisions and running the business. This platform provides the framework to leverage the best of both worlds—the advantages of SAP's cloud solutions and the ability to support company-specific processes and requirements. Capgemini's IoT in-a-box solution further enables accelerated development of our connected systems across the operation channels.
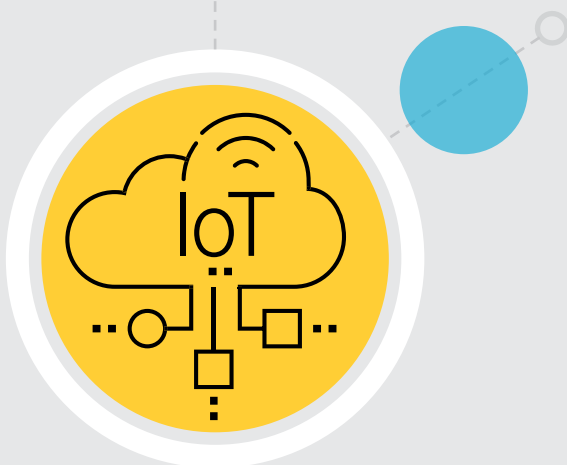
SAP S/4HANA is an in-memory, end-to-end software suite designed for a digital and connected world. This suite delivers the business intelligence that helps manufacturing companies with production planning and work instructions, and leveraging current operational data from the shop floor.

Give the power of analytics to the shop floor and turn on the digital reality.

Leverage the power of real-time analytics through Capgemini Digital Control Room Analytics.

Capgemini and SAP have joined forces to drive the complexity out of digital transformation with Capgemini Digital Control Room Analytics linked to Fast Digital 4 Discrete Industries by SAP and Capgemini.

Are you ready to go digital? - This is the perfect time to get started.

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About SAP

As market leader in enterprise application software, SAP (NYSE: SAP) helps companies of all sizes and industries run better. From back office to boardroom, warehouse to storefront, desktop to mobile device – SAP empowers people and organizations to work together more efficiently and use business insight more effectively to stay ahead of the competition. SAP applications and services enable more than 350,000 business and public sector customers to operate profitably, adapt continuously, and grow sustainably.

For more information, visit
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About Capgemini

With more than 190,000 people, Capgemini is present in over 40 countries and celebrates its 50th Anniversary year in 2017. A global leader in consulting, technology and outsourcing services, the Group reported 2016 global revenues of EUR 12.5 billion. Together with its clients, Capgemini creates and delivers business, technology and digital solutions that fit their needs, enabling them to achieve innovation and competitiveness. A deeply multicultural organization, Capgemini has developed its own way of working, the Collaborative Business Experience™, and draws on Rightshore®, its worldwide delivery model.

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