CASE STUDY

Optimizing Equipment Performance with OEE Monitoring for a Leading Steel Company

Quick Summary

CRG Solutions' OEE Dashboard helped a steel manufacturer accurately measure equipment efficiency, identify improvement areas, and support proactive maintenance. This case study highlights the value of data analytics in optimizing operations, enhancing productivity, and driving continuous improvement in the steel industry.

About the Customer

The firm is among the largest steel-producing companies and is one of the world's most geographically diversified steel producers, with operations and commercial presence across the world. Apart from the Netherlands and the UK, the company operates in 26 countries, with key operations in India.

It is important for the steel company to accurately measure and monitor the overall equipment efficiency (OEE) across their manufacturing plants to understand losses, identify areas for improvement, optimize equipment performance, and drive continuous and proactive initiatives for enhanced productivity and operational efficiency.

This also involved maintenance and equipment replacement strategies.
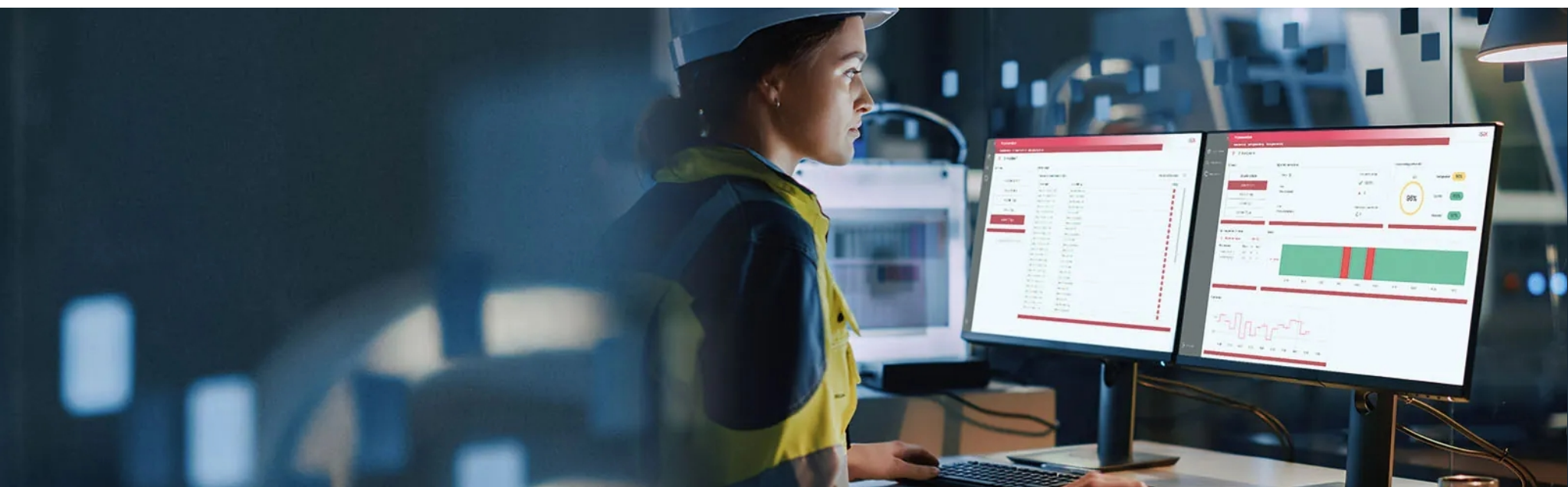
Problem Statement:

To optimize their manufacturing operations, the company recognized the need to assess the effectiveness and efficiency of their equipment and production lines. However, the absence of a robust monitoring system hindered their ability to measure the overall equipment efficiency (OEE) accurately. They faced challenges in identifying areas for improvement, determining the reasons behind losses, and implementing proactive maintenance and equipment replacement strategies.

Solution:

CRG Solutions, a trusted data analytics services company, collaborated with the steel manufacturer to develop a tailored OEE dashboard to address their monitoring challenges. We designed the OEE Dashboard to measure various types of losses, including speed loss and quality loss, across the manufacturing plants. It provided real-time insights into the net OEE per plant, as well as the ability to drill down to agency and department levels. Additionally, the dashboard captured detailed reasons for losses, enabling data-driven decision-making and targeted improvement initiatives. Accurate OEE Measurement: The implementation of the OEE Dashboard allowed the manufacturer to accurately measure the overall equipment efficiency of their manufacturing plants. Real-time data on equipment performance provided valuable insights, enabling the organization to identify areas for improvement and optimize their operations.

Maintenance and Equipment Replacement: The OEE Dashboard played a pivotal role in identifying the overall OEE of Steel's plants. By monitoring equipment performance and capturing reasons for losses, the dashboard helped identify the need for maintenance and equipment replacement. This proactive approach prevented unexpected breakdowns, reduced downtime, and improved overall equipment reliability.

![CRG Solutions logo] CRG SOLUTIONS
Analytics . DevOps . RPA

Business Benefits:

Analysis of performance gaps:
The implementation allowed for targeted improvements to increase productivity.

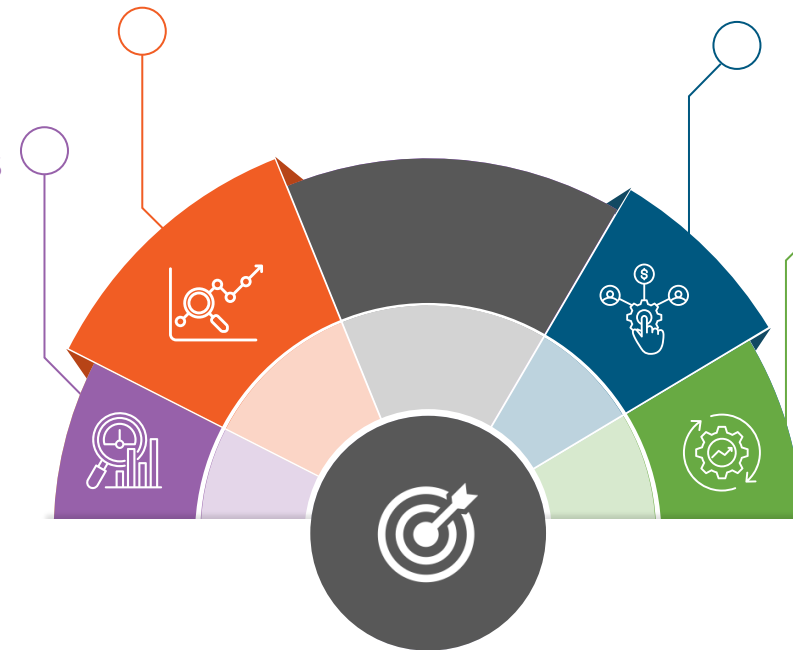**Preventing costly breakdowns:**
Ensured smooth operations and maintenance schedules.

Enabling the identification of bottlenecks:
The OEE Dashboard allowed them to assess the efficiency and effectiveness of their equipment and production lines.

Optimized production efficiency:
Monitoring equipment performance and reasons for losses

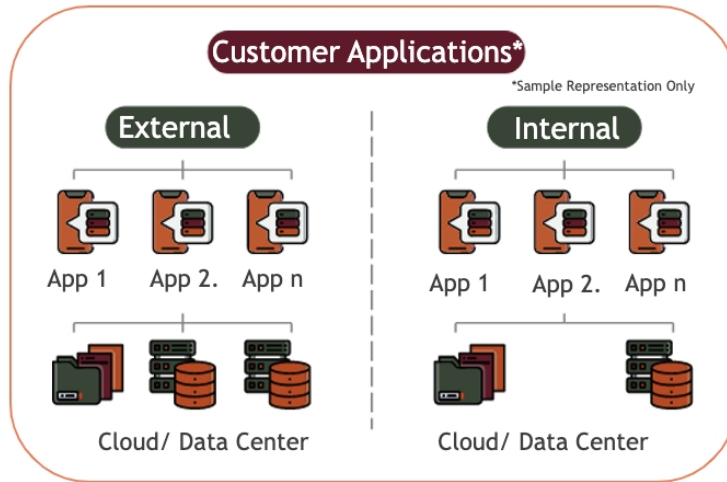*A Trusted Solution Partner*

to achieve

Business Excellence

CRG SOLUTIONS
Analytics . DevOps . RPA

We Cover

Analytics

We setup practices, tools to derive insights (customers, products, apps, teams) to enhance or optimize business effectiveness with the help of products like Tableau, Alteryx, PowerBI, Cloud and MLOPs

+ableau   alteryx
Microsoft   USEReady
WE EMPOWER PEOPLE TO SUCCEED WITH DATA

Customer Applications*
*Sample Representation Only

External
App 1   App 2.   App n
Cloud/ Data Center

Internal
App 1   App 2.   App n
Cloud/ Data Center

RPA

We automate all high volume and mundane tasks to reduce manual errors and to increase efficiency with the help of products like AA (Automation Anywhere), Yellow.ai
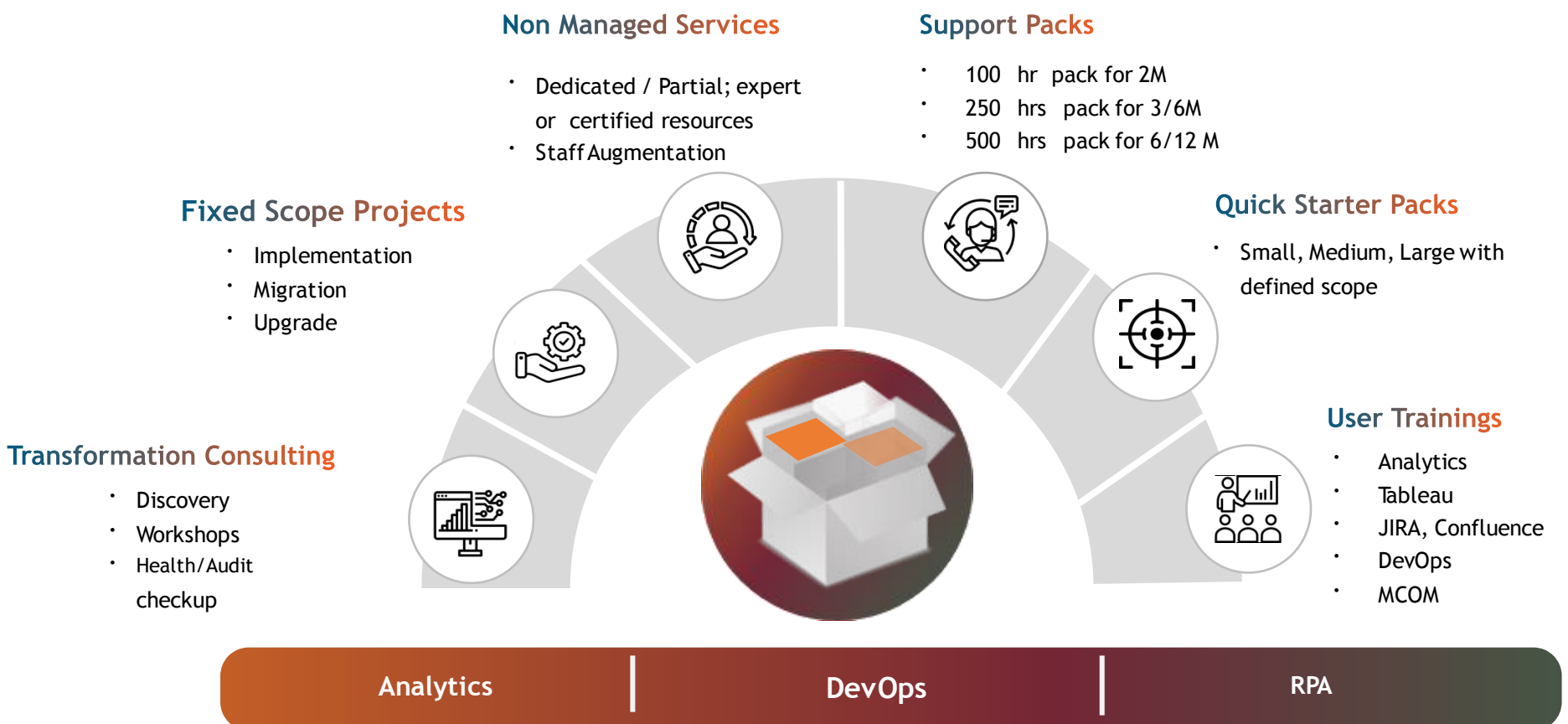
AUTOMATION ANYWHERE   yellow.ai

DevOps

We help streamline the application development and maintenance processes with custom project management practices and implementation of world class software tools like JIRA, Azure DevOps, Azure Cloud to improve team productivity

ATLASSIAN   Microsoft

Services Portfolio

Non Managed Services
- Dedicated / Partial; expert or certified resources
- Staff Augmentation

Support Packs
- 100 hr pack for 2M
- 250 hrs pack for 3/6M
- 500 hrs pack for 6/12 M

Fixed Scope Projects
- Implementation
- Migration
- Upgrade

Quick Starter Packs
- Small, Medium, Large with defined scope

Transformation Consulting
- Discovery
- Workshops
- Health/Audit checkup

User Trainings
- Analytics
- Tableau
- JIRA, Confluence
- DevOps
- MCOM

| Analytics | DevOps | RPA |

CRG SOLUTIONS
Analytics . DevOps . RPA

Our Socials

Scan me