

KNOWLEDGE PILLS

# Production Lifecycle Optimization with



RTM Pro

# Introduction

Competitiveness in today's industrial market depends to a large extent on the efficiency and quality of production processes. Optimizing the production lifecycle not only reduces costs, but also ensures high-quality products and a quick response time to changes in demand.

RTM Pro, AppliediT's advanced real-time data analytics solution, enables companies to visualize and optimize each phase of the production cycle holistically and strategically.

In this ebook, we'll explore how RTM Pro becomes a critical ally at every stage of the production lifecycle, from planning to continuous improvement.

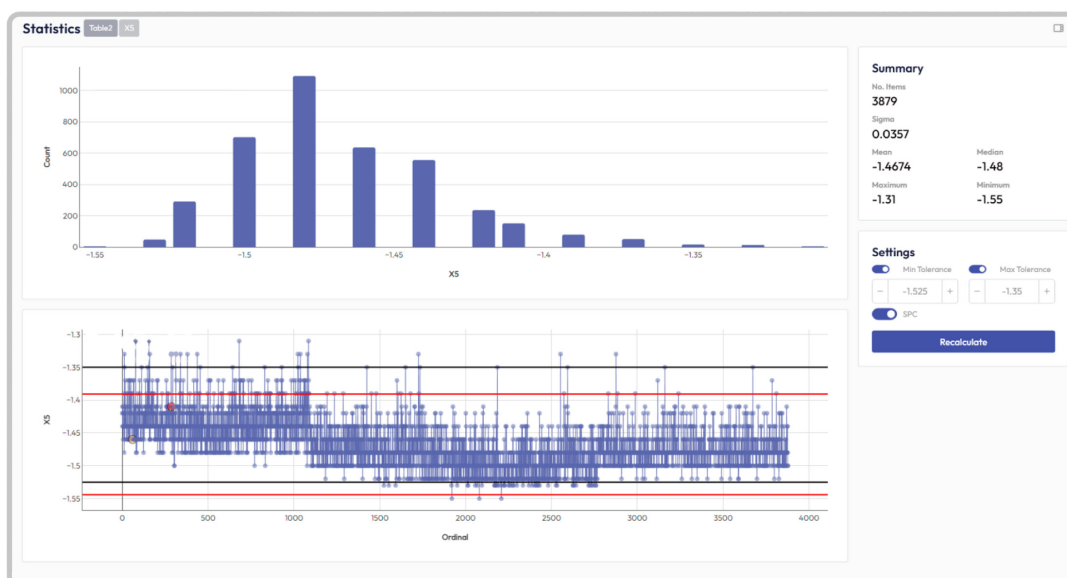
# 1. Planning & preparation

Planning and preparation is the first stage of production life. Meticulous planning and proper preparation can make the difference between an efficient operation and one full of setbacks.

- **Objective:** Its main objective is to establish a solid basis for the production process, ensuring that all necessary resources are available and that activities are carried out efficiently and effectively to start the production process.
- **How RTM Pro helps:** Through historical data and predictive analytics, RTM Pro provides detailed insights into production patterns and resource usage, allowing planning teams to forecast needs and avoid future bottlenecks.

Statistics tool from RTM Pro, it's the starting point for any further analysis. Run charts and Histograms provide initial information about the state of the parameters.

In addition, its intuitive interface allows you to set specific parameters and KPIs that help unify quality and production objectives from the start.



## 2. Real-Time Execution and Control

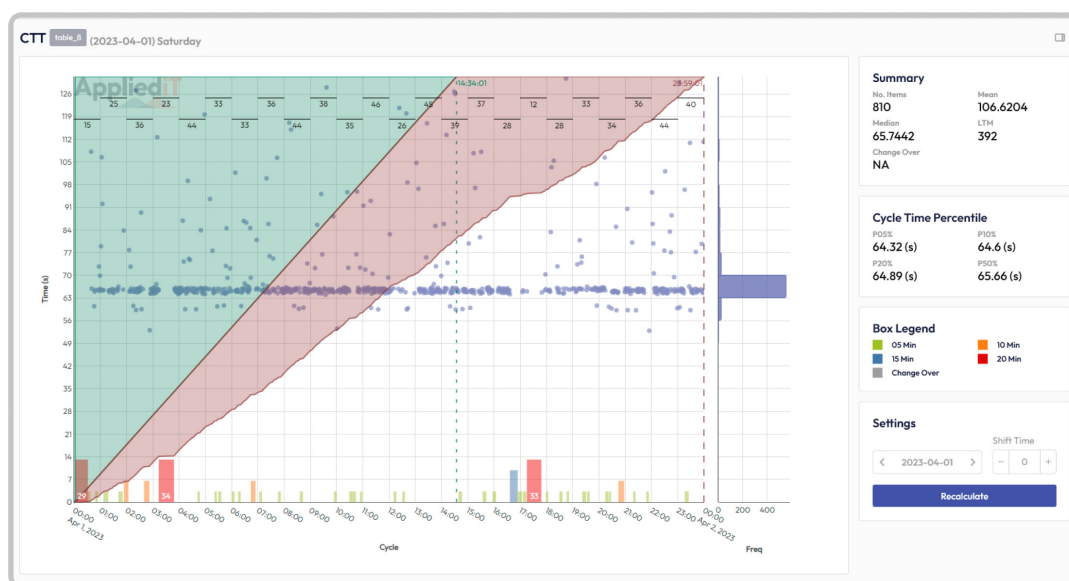
This stage is important to ensure that processes run efficiently and effectively. Implementing a real-time execution and control system can significantly transform the efficiency and quality of production in a plant, ensuring that targets are met consistently and effectively.

- **Objective:** To execute the production process efficiently, minimizing interruptions and waste.
- **How RTM Pro helps:** With its real-time monitoring capabilities, RTM Pro allows operators to monitor every step of the production process.

To do this, we integrate The Cycle Time Tracking (CTT) module focused on highlighting abnormal cycle times and areas for improvement, allowing you to make informed decisions instantly.

Continuous data analysis also allows deviations to be detected in real time, helping to correct any errors before they affect the final result.

With this tool you can have a quick visualisation of the cycle time of each part passing through the station, as well as allowing you to detect deviations in real time. This helps to correct any errors before they affect the final result.



### 3. Analysis of Results & Optimization of Resources

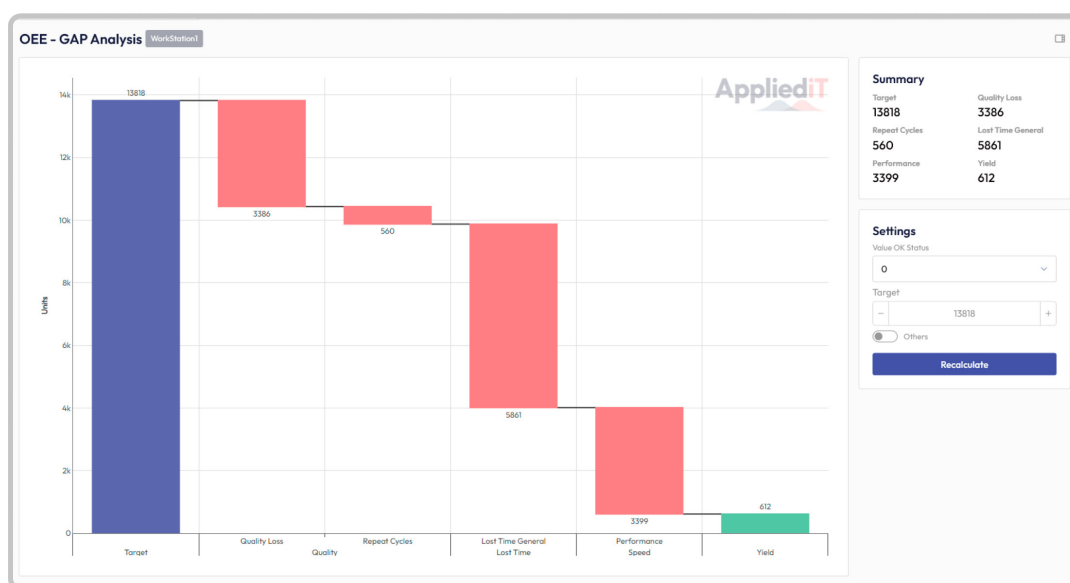
The results analysis and resource optimisation stage in the production life cycle is crucial to improve the efficiency and sustainability of production processes.

- **Objective:** To evaluate the results of the production cycle to identify areas for improvement and optimize the use of resources.
- **How RTM Pro helps:** Thanks to its detailed analysis tools, RTM Pro provides a clear view of the efficiency and productivity achieved.

The metrics collected allow managers to assess the relationship between resources used and output produced, helping to identify patterns or anomalies.

The OEE and GAP analysis functionality is developed to directly perform an OEE analysis based on a quality criterion and a target value. It is essential for measuring and improving the efficiency of production equipment in an industrial plant.

Insights derived from historical data analysis also facilitate the creation of predictive models to anticipate resource needs for future production.



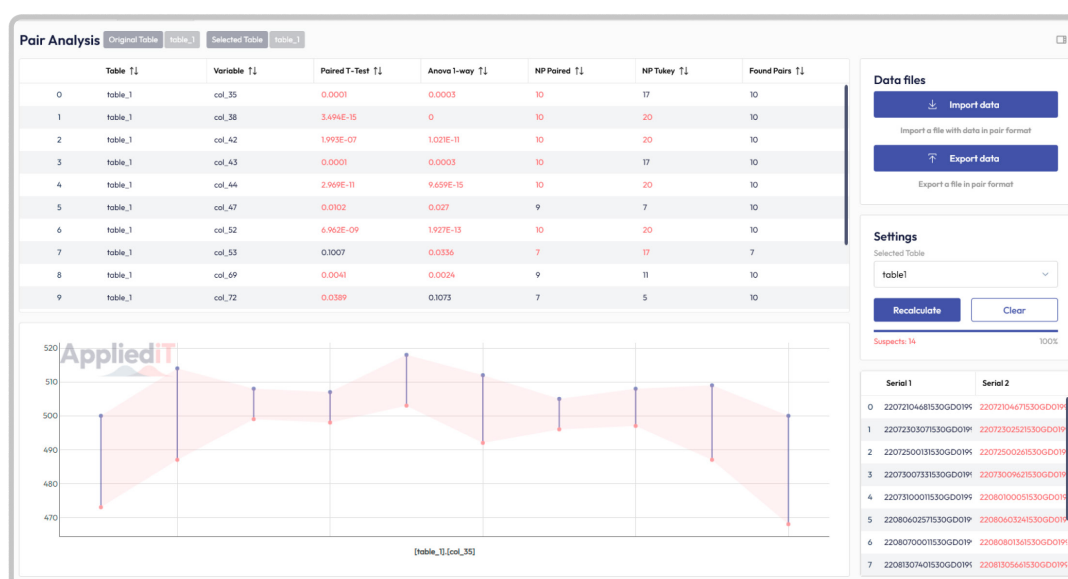
## 4. Root Cause Identification and Troubleshooting

Root cause identification and problem solving is another essential stage in the production lifecycle. These stages focus on uncovering and addressing the underlying causes of problems to improve the efficiency and quality of manufacturing processes.

- **Objective:** To locate and address problems that affect the quality and efficiency of production.
- **How RTM Pro helps:** RTM Pro incorporates advanced tools for root cause analysis, allowing you to accurately identify the factors that cause deviations or problems in the process.

Thanks to these functionalities, production teams can reduce defects and improve the reliability of results.

Our Paired Analysis tool allows you to analyse possible correlations between peer groups, which is essential for discovering valuable insights, optimising processes and improving decision making.



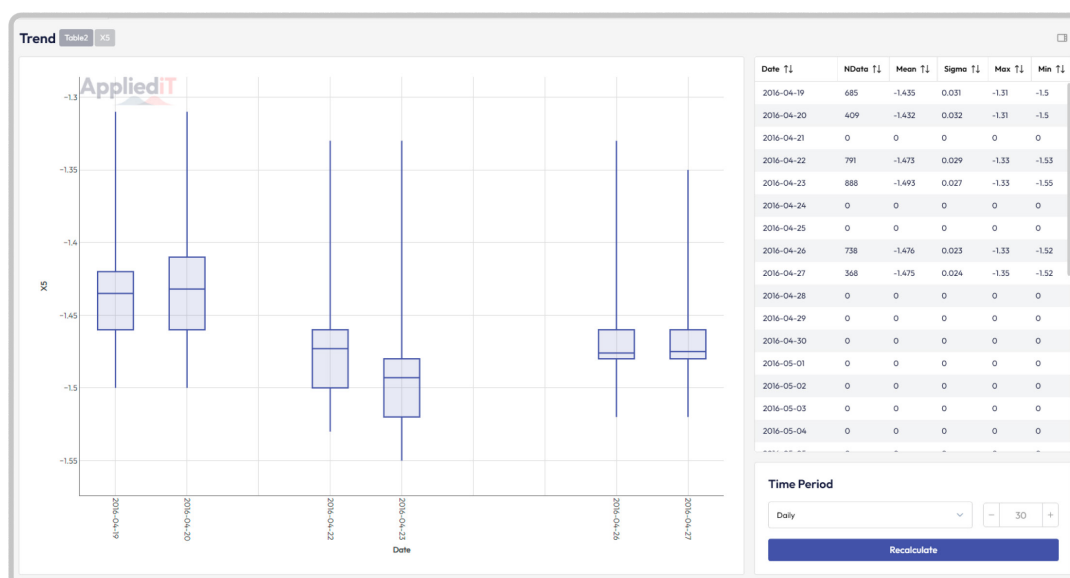
## 5. Continuous Improvement and Feedback

Continuous improvement and feedback are essential pillars in the production life cycle, enabling organisations to adapt to market changes, improve the quality of their products and services, and maintain a competitive advantage.

- **Objective:** It is focused on the constant evaluation of processes and products, with the aim of identifying areas for improvement and implementing changes to optimise performance.
- **How RTM Pro helps:** With real-time and historical performance data, RTM Pro allows you to take a continuous improvement approach across the entire production lifecycle. Feedback metrics help you fine-tune processes and targets, making each cycle more efficient than the last.

In addition, its ability to store and analyse data from different cycles provides a solid knowledge base that can be used in long-term improvement planning.

The Trend tool generates statistical information for the selected variable and the selected time period. With this tool, you can make decisions based on concrete data and not on assumptions, identify patterns and trends over time, identify areas for improvement...



Optimizing the production lifecycle is a complex task that requires both in-depth knowledge of each phase of the process and tools that allow real-time visualization and action on data.

RTM Pro stands out as a comprehensive solution that not only facilitates the monitoring of every stage of the production cycle, but also empowers informed decision-making and continuous improvement.

**Companies that integrate RTM Pro into their industrial processes are able to not only increase their competitiveness, but also ensure a total quality and efficiency approach at every stage of their production.**

**Would you like to request a free demo or receive more information? [contact@applieditweb.com](mailto:contact@applieditweb.com)**





AppliediT combines a multidisciplinary team of expert IT engineers, data analysts and software developers to offer operational excellence, data engineering and application development services for data analysis in the industrial environment.

Our goal is to transform the data generated in the industrial environment by people, processes, machines and information systems (ERP, CMS...) into knowledge to improve data-driven decision making, increase efficiency, save costs and optimize production times.

For more information, visit [applieditweb.com](https://applieditweb.com)