Orbis OPS™ Performance Management

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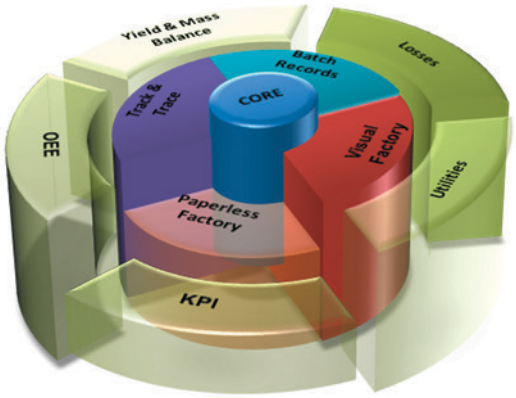


Orbis OPS™
Performance Management

Optimizing your process, eliminating production losses, and improving performance.

Orbis MES Ltd. specialise in the supply of **Manufacturing Intelligence Systems** combining Information and Analytics for the Food and Beverage Industries.

We work across Dairy, Beverage, Meat and the PCF sector. Orbis has **over 20 years'** experience in Food and Beverage Process Optimisation.

Our customers in Ireland include the Guinness group and Baileys, the Glanbia group and Dairygold. In the US our customers are Glanbia US, South West Cheese, New Belgium Breweries and the Dean Foods group. Johnnie Walker and Carlsberg are our main customers in the UK.

Our **OPS™** MES solution enables **Zero Loss Manufacturing** through **Process Optimisation,** targeting waste and losses within your production process.

Our goal is to help eliminate product and performance losses and increase your profitability.

Manufacturing
Analytics Solution

OPS™ monitors and records the flow of product through the production process from raw material intake to the dispatch of finished product.

OPS™ provides a single repository database from which all information and analytics are derived. The database aggregates the rich data set available through the **SCADA-PLC, LIMS,** and **MMS** layers into a single repository.

This means that there is a **single version of the truth** and the operator, supervisor and manager can base their critical decisions on a consistent and reliable data source.

The OPS™ solution is a fully integrated solution providing integration to ERP and LIMS systems, Utilities and PLC's enabling 360 visibility of productivity and performance.

A suite of applications operate on the **OPS data store** to help identify how process, quality, and productivity improvements can be achieved and revenues increased through optimisation.

Key Benefits:

- Track and Trace production from raw ingredient to finished product
- Manage recipes in a multi-product plant
- Monitor yield and maximise revenues
- Visualize your data, improve decision making
- Automate workflow and order tracking
- Reduce losses and wastage

There are four modules,

with a single Datasource.

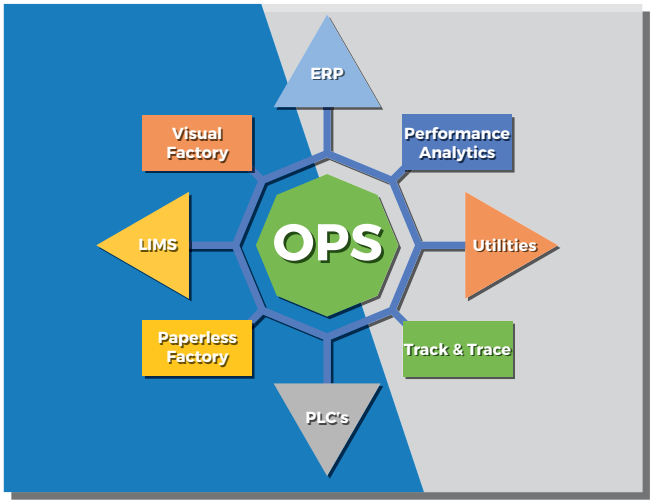
One truth to base your critical decisions.

Paperless Factory

Paperless Factory allows companies to remove paper and excel based logs and reports and replace them with on-line equivalent. This facilitates the storage of historical logs and full traceability

Track & Trace

Track & Trace provides Batch Records conforming to 21CFR Part 11. Traceability is based on the transfers recorded between Batch Units, Trace Trees and Trace flows. Trace reports provide full product genealogy from raw materials to finished product.



Performance Analytics

Performance Analytics comprises Online OEE, Yield reconciliation, Automated Mass Balance and KPI:

OEE will enable you to make more efficient use of your manufacturing assets; to maximize availability and performance and improve quality.

Yield losses are recorded as quality losses and can be investigated to determine root cause.

Mass Balance provides you with the capability to monitor and manage your yield – to identify wastage and the source of loss within the process.

The **KPI** Module tracks performance metrics against the targets you have set for production outputs and quality goals.

Visual Factory

This module provides real-time visualisation of the plant and process using Mimics, Trends and Event Logging.

Visual Factory extends the real-time capability of SCADA systems beyond operators to the supervisor and plant manager providing a read only view and trend analysis of process parameters.

OPS™ Portal

OPS™ can be deployed in a modular, scalable and incremental manner depending on your requirements. We also provide a cloud based solution for smaller deployments based on Microsoft SQL Server 2012.

The OPS™ portal comprises:

Dashboards

Dashboards can be configured using role based visualisation. Dashboards can include grids, trends, charts and applications. Dashboards have access to all data in the OPS™ data store.

Reports

Reports can be preconfigured or created on the fly using Microsoft reporting services. Reports have access to all data in the OPS™ Data Store.

+6%
increse in overall OEE

Our Solution has provided **Glanbia**, the global leader in the production of performance nutritionals, cheese and dairy ingredients, with a **6%** increase in OEE, and a growth in yield of **125 tonnes** per week at the Ballyragget plant.

+5%
quality right first time

Guinness have increased their quality right first time results at St James Gate by **5%** as a result of deploying **OPS™.**

6%
product shrink reduction

Dean Foods, one of the largest producers of liquid milk in the US, have targeted product shrink reduction of **6%** through the deployment of Orbis **OPS™.**

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