

Dairy.com & Orbis



Source / Link: Personal interview & <https://orbismes.com/>

Technology area:

- Artificial Intelligence
- Big Data
- Digital Twins
- IoT and IIoT
- Cybersecurity
- VR/AR
- Robotics
- Automation
- System Integration
- Smart Sensors
- Additive Manufacturing
- Other

Type of good practice:

- Company
- Project
- Initiative
- Programme
- Other

Target group:

- Discrete (smart) manufacturing
- Automotive
- Aerospace
- Metal processing
- Consumer goods
- Pharmaceuticals and chemistry
- Food and agriculture
- Health
- Textiles
- Others

Summary:

Dairy.com is a supply chain software company, which has developed and currently distributes software solutions for milk farms that monitors farm inputs and outputs quantities, fat and protein levels, quality of milk etc. Last year, Dairy.com announced the acquisition of Orbis, a Dublin, Ireland based leader in manufacturing execution systems (MES) for the food and beverage industry.

Orbis does end-to-end traceability within the plant and monitors key parameters, quality parameters, OEE, mass balance and looks for losses within the plans itself. As the milk or raw materials go through the different production stages, the software looks for losses and ensures that operators are looking at the right parameters – protein level, cycle times, cycle of the drier (used to produce milk powder), temperature etc.

In process and packaging, Orbis' solutions measure the performance of manufacturing equipment and promotes zero loss operations, helping the company limit down-time and optimize the performance of their systems.

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Detailed description

Orbis has a history of engagement and extensive experience not only with the dairy industry but also with the beverage industry. Orbis has implemented their software solutions for operation and performance analytics in breweries, distilleries and drinks companies across Ireland and Europe. Some of the company's clients include Guinness, Baileys, Captain Morgan Distillery, New Belgium Brewery and Britvic. Orbis' solutions help breweries and distilleries to combine operational excellence with quality and sustainability by enabling the end-to-end tracking of the product flow through the brewing process from grain to bottle and enables batch quality track and trace. The software also tracks and accounts for energy and extract losses in the production line.

Recently, a major Irish brewery implemented Orbis's software that tracks material losses from raw materials through all the brewing processes, and as a result the company was able to decrease their waste by a number of percentage points, which significantly benefited their bottom line.

Beneficial Results

Implementing Orbis' solutions turned out to be very successful and beneficial for many milk-processing plants and breweries, and some of the achievements that were accomplished are:

- Digitizing production plants lowered operational risk and made the plant staff more effective with access to the best resources, no matter the location;
- Digitization empowered Business Intelligence, which provided operators with critical insights into what could happen two days from now, two weeks from now, even two years from now;
- Track and trace solutions helped production plants track raw ingredients to finished product and give them the ability to trace quality parameters within each batch;
- Improved product quality and enhanced compliance;
- Visualization and sharing of critical data and reports that could be used for informing the decision makers in the organization;
- Created efficiencies - the data logs that Orbis' solutions produce eliminated the requirement for keeping multiple and disparate spreadsheets and enabled the company to set up a paperless office, where operators can log key production attributes and visualize the process in real-time;
- Orbis' solutions helped companies identify downtime and under-performance in their production line, misconfiguration of utilities, and wastage in their supply chain.

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