



FACT SHEET SIEMENS XCELERATOR IN SPAIN

Deoleo

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Basic information

- Deoleo is currently the world's largest international producer, bottler and marketer of olive oil products. The company sells brands such as Bertolli, Carapelli, Carbonell, Koipe, Figaro, Sasso and Maestros de Hojiblanca.
- Deoleo employs more than 600 people worldwide with headquarters in Rivas-Vaciamadrid in Spain.
- In 2022, Deoleo generated sales of €827 million, increasing sales by 18 percent compared to the previous year.
- In 2022, Deoleo sold 176.5 million liters of olive oil and exported oil to over 67 countries.
- The Deoleo product portfolio consists of over 30 brands.
- Deoleo has a strong track record of sustainability improvements. As a result of its ongoing commitment and its implementation of Siemens technology, the company reduced its Scope 1 and 2 emissions¹ of carbon dioxide (CO₂) by 2,353 tons in 2022 compared to the previous year. This represented a reduction of 66 percent.
- Deoleo remains committed to leading sustainable development in its sector, allocating 36 percent of its investments to sustainability initiatives in 2022.
- Deoleo is driving its digital transformation to achieve the company's operational and sustainability goals. This is part of the company's longer-term efforts to reach net zero by 2050.

¹ The Greenhouse Gas (GHG) Protocol Corporate Standard classifies a company's GHG emissions into three scopes. Scope 1 emissions are direct emissions from owned or controlled sources. Scope 2 emissions are indirect emissions from the generation of purchased energy. Scope 3 emissions are all indirect emissions (not included in Scope 2) that occur in the value chain of the reporting company, including both upstream and downstream emissions.

Source: https://ghgprotocol.org/sites/default/files/standards_supporting/FAQ.pdf

Technology and customer needs

- Deoleo implemented its digital transformation process – with the technological support of Siemens – to achieve the goal of operational efficiency and quality assurance and to contribute to the company's sustainability strategy.
- Deoleo uses Siemens technology to implement its digital transformation by improving operational efficiency and transparency and optimizing its processes, including research and development as well as oil management and quality control. The software was implemented at the bottling plant in Alcolea (Córdoba).
- The drive for growth and the increasing competitive pressure of the global economy, combined with the urgent need to fight climate change, are pushing companies across the process industry to strategically focus on the continuous search for new, innovative products.
- These challenges have placed the industrial research and development (R&D) function center stage and are fast becoming the key driver of commercial success.
- Business executives are realizing more and more that there's a pressing need to streamline R&D processes and establish a platform that enables easy and consistent transfer of the final product designs to manufacturing plants around the globe.
- Integration of R&D labs and manufacturing is, in particular, in the food and beverage industry, increasingly becoming a basic business requirement.

Siemens technology

- Deoleo's sustainability strategy and manufacturing objectives require an effective digital system to manage the enormous number of variables such as product quality, digital traceability and product batch ID the company oversees across its entire value chain. This technology introduces stricter rules in the whole process to ensure product quality and traceability.
- Deoleo has implemented Opcenter software from the Siemens Xcelerator portfolio to help drive its digital transformation and build its sustainable future.
- Deoleo uses Siemens Opcenter RD&L (Research, Development and Laboratory) as its platform to streamline, optimize and align all data management for formulated products and to enable seamless transition of product data and definitions throughout the entire manufacturing process by integrating R&D labs with plants.
- Using Opcenter RD&L helps Deoleo align product designs and processes with quality and regulatory requirements. Integrating and aligning R&D and manufacturing data and processes drastically speeds up the transfer of final product designs to mainstream manufacturing.
- The Opcenter software can orchestrate and coordinate all manufacturing processes and is therefore also referred to as the factory's "digital brain".
- One of the biggest challenges in olive oil production is the varying quality of the unfiltered virgin olive oil. This unfiltered oil must first be tested in the laboratory before a decision is made on whether – and if necessary, how – it will be processed. This testing used to be done manually. Today, the entire process is digitalized. Digitalization has greatly improved traceability and transparency because the system can track the product's journey from raw material to packaging.

- This capability enables Deoleo to produce a very homogeneous product despite using different qualities of unfiltered virgin olive oil, thereby significantly improving its own oil quality.

Obtaining the degree of acidity in the research laboratory at the Deoleo plant in Alcolea, Córdoba.

Picture Credit: Deoleo



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