

# DIGITAL

## A natural recipe for digital transformation

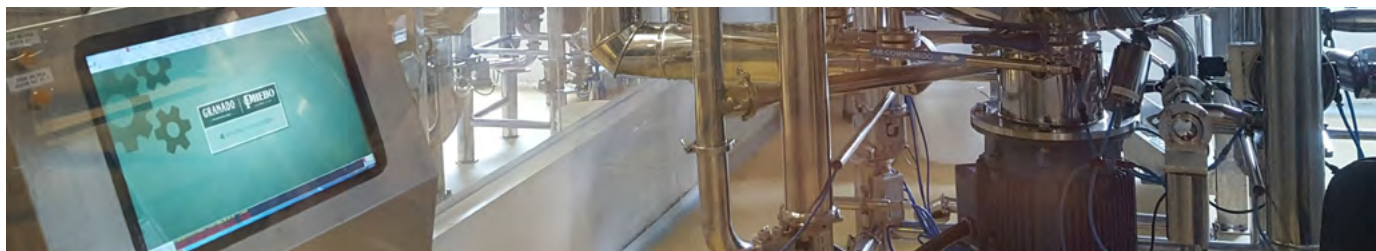
Granado Farmácias – Japeri, Rio de Janeiro, Brazil

How EcoStruxure™ Plant with AVEVA helps Brazil's oldest cosmetics company digitize its traditional manufacturing process.

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## Classic cosmetics meet modern technology

Founded in 1870, Granado Farmácias is Brazil's oldest, and one of its biggest, cosmetics brands. It boasts a portfolio of more than 600 premium products, including soaps, creams, and perfumes, based on natural ingredients.

Since its beginnings as a traditional apothecary in Rio de Janeiro, Granado has grown into an international business. It now operates stores in major European cities, as well as an online business that serves more than 30 countries.

To continue expanding and strengthening its international brand, Granado had to make sure its high product standards were always maintained. Until now, any quality issue would result in a product being rejected at the end of the manufacturing chain, affecting output. So the company had to ensure repeatability in all its production processes and much better traceability of manufacturing information.

Looking to the future, Granado's management decided to integrate the latest industrial automation into the company's traditional production process, and began a potentially tricky digital transformation.

## A smooth digital transition with EcoStruxure

Schneider Electric was chosen to implement Granado's modernization project at the company's Japeri plant. The upgrade was particularly challenging as the 30,000 square-meter factory operated almost completely manually, resulting in difficulties in diagnosing failures, inconsistencies in product quality, and a lack of process repetitiveness.

"We suggested automation systems for production areas, such as process controller solutions, and later, the implementation of a program that could tailor and flex production to ensure quality, create management reports and traceability to regulatory bodies, and raise the company's footing to international levels," says Thiago Arruda, Schneider Electric's Consumer Packaged Goods Solutions Architect.

To meet the demanding requirement of modernizing the firm's processes, Schneider Electric offered powerful solutions based on EcoStruxure™ Plant, our IoT-enabled, open and interoperable architecture and platform. These included EcoStruxure Hybrid DCS, a single automation system for plant engineering and operation, as well as AVEVA's Batch Management control system for building and controlling complex batching processes, and Historian, AVEVA's high-performance real-time database of historical information for building and visualizing production reports.

## Goal

Improve production and product traceability in order to strengthen the brand internationally and continue its expansion.

## Story

To secure the company's present and future competitiveness, Granado needed to modernize its factories and traditional production process. In partnership with Schneider Electric, Granado embarked on a major digital transformation.

## Solution

An innovative automation system based on EcoStruxure Plant, with integrated software, that can manage the complete life cycle of Granado's plant, from engineering, operation, and maintenance, to reporting and traceability.

## Results

Thanks to enhanced processes and traceability, Granado has improved the quality and consistency of its output and reduced downtime, which has led to a 10%–15% increase in production.



## Creating a factory fit for the future

Granado staff – both in operation and maintenance – now work more efficiently thanks to a fully integrated automation system based on EcoStruxure Plant. It allows them to save repeatable processes and adjust quickly to accommodate changing market demands.

The innovative EcoStruxure Hybrid DCS enables control and supervision in the same engineering, maintenance, and operation environment, unifying all devices, components, and accessories into a single tool. AVEVA's Batch Management further improves operations and production traceability, which helps ensure consistently high product quality. Additionally, all the manufacturing data, both historical and real time, is stored and made available in one place – AVEVA's Historian.

The results of the modernization have exceeded the company's original expectations. Mr Jurandir, Granado's Production Director, stresses that the firm's management and stakeholders had only asked for quality improvement, but the digital upgrade delivered additional benefits. He explains: "[Now that we have improved the quality,] the increase in production is just a consequence since a more constant quality leads implicitly to an increase in production with fewer rejects."



"It's difficult to measure individually what each component of this modernization brought to us, but globally I estimate between a 10% and 15% increase in our production. We are very satisfied. Repeatability of the quality of the production is definitely the key factor we've got from this modernization project," he says.

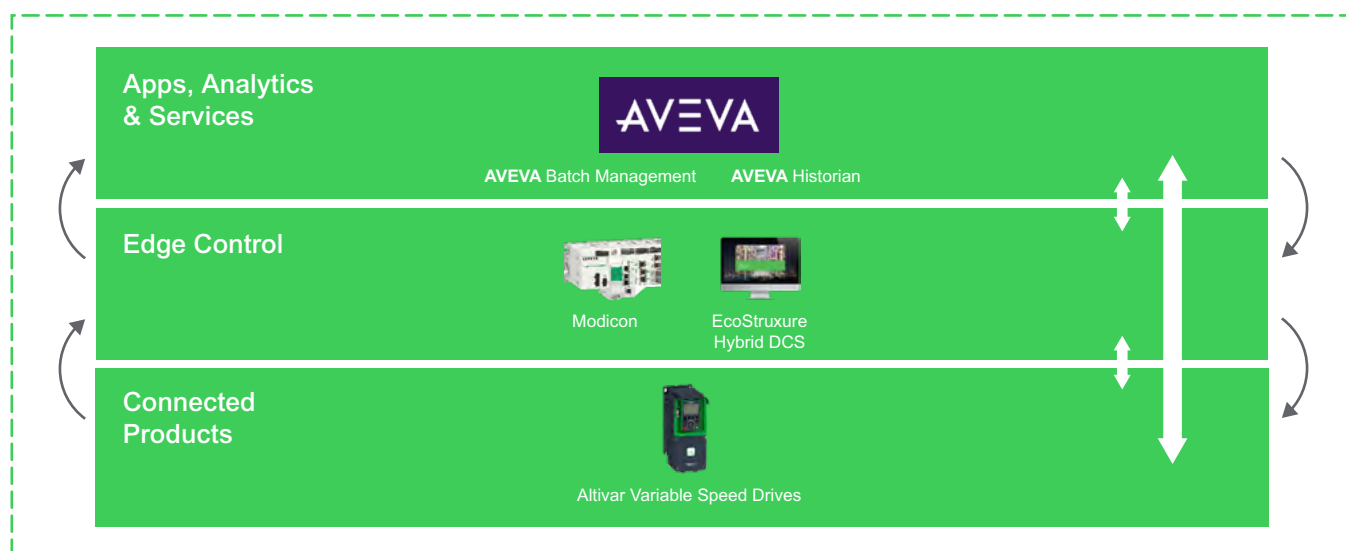
The company is now confidently looking ahead to the future. With its digital transformation in full swing, supported by EcoStruxure Plant, Granado has increased output quality and traceability, and moved the firm ahead of its competition. As Plinio Bellas, Granado's Technical Director, points out: "With these solutions, we are already in the Industry 4.0 world and in advance compared to the market."

up to **15%**  
increase in production

"(...) we have increased our efficiency, improved the quality of our products and we have also been able to trace any stage of the process (...)."

— Tatiane Stoeterau,  
Industrial Production  
Manager, Granado  
Farmacias

## EcoStruxure™ Plant



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Architecture

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# EcoStruxure™

## Innovation At Every Level

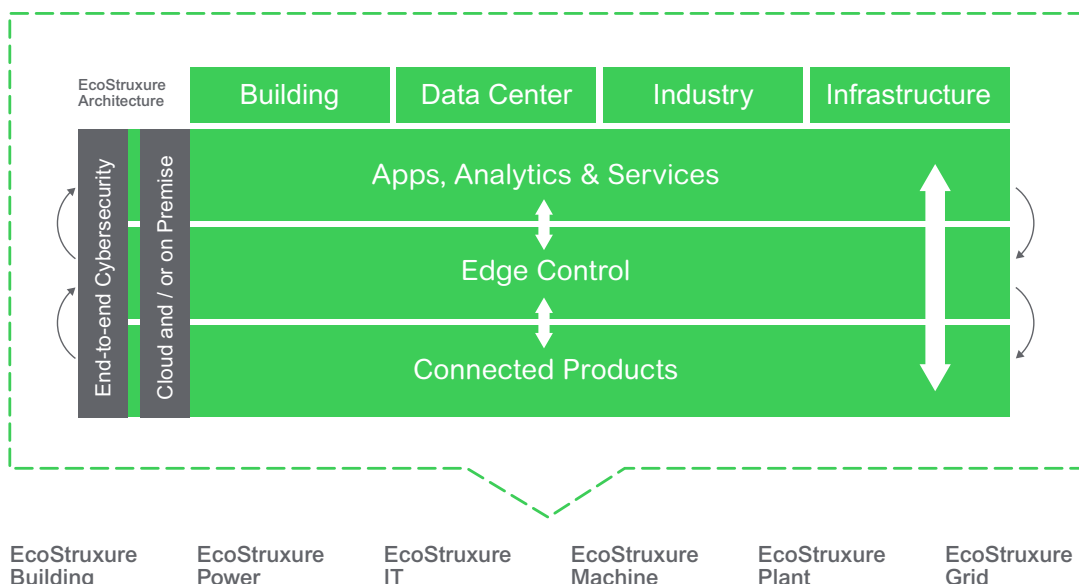
### IoT-enabled solutions that drive operational and energy efficiency

EcoStruxure is Schneider Electric's open, interoperable, IoT-enabled system architecture and platform.

EcoStruxure delivers enhanced value around safety, reliability, efficiency, sustainability, and connectivity for our customers.

EcoStruxure leverages advancements in IoT, mobility, sensing, cloud, analytics, and cybersecurity to deliver Innovation at Every Level including Connected Products, Edge Control, and Apps, Analytics & Services. EcoStruxure has been deployed in 480,000+ sites, with the support of 20,000+ system integrators and developers, connecting over 1.6 million assets under management through 40+ digital services.

### One EcoStruxure architecture, serving 4 End Markets with 6 Domains of Expertise



### Connected Products

The Internet of Things starts with the best things. Our IoT-enabled best-in-class connected products include breakers, drives, UPSs, relays, sensors, and more. Devices with embedded intelligence drive better decision-making throughout operations.

### Edge Control

Mission-critical scenarios can be unpredictable, so control of devices at the edge of the IoT network is a must. This essential capability provides real-time solutions that enable local control at the edge, protecting safety and uptime.

### Apps, Analytics & Services

Interoperability is imperative to supporting the diverse hardware and systems in building, data center, industry, and grid environments. EcoStruxure enables a breadth of agnostic Applications, Analytics, & Services for seamless enterprise integration.

Find out more about EcoStruxure

[schneider-electric.com/ecostruxure](https://schneider-electric.com/ecostruxure)

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