Agile Manufacturing

EcoStruxure™ boosts manufacturing flexibility & efficiency
in the Food & Beverage, Household and Personal Care industries

Agile Manufacturing

Transforming operations to improve flexibility and profitability

HMI and Data Integration
IoT ready system platform for better collaboration and reduced TCO

Process Control System
Process control system including MES functions designed to serve F&B and CPG applications

Process Automation
Innovative Ethernet based control platform for more performance, transparency and flexibility

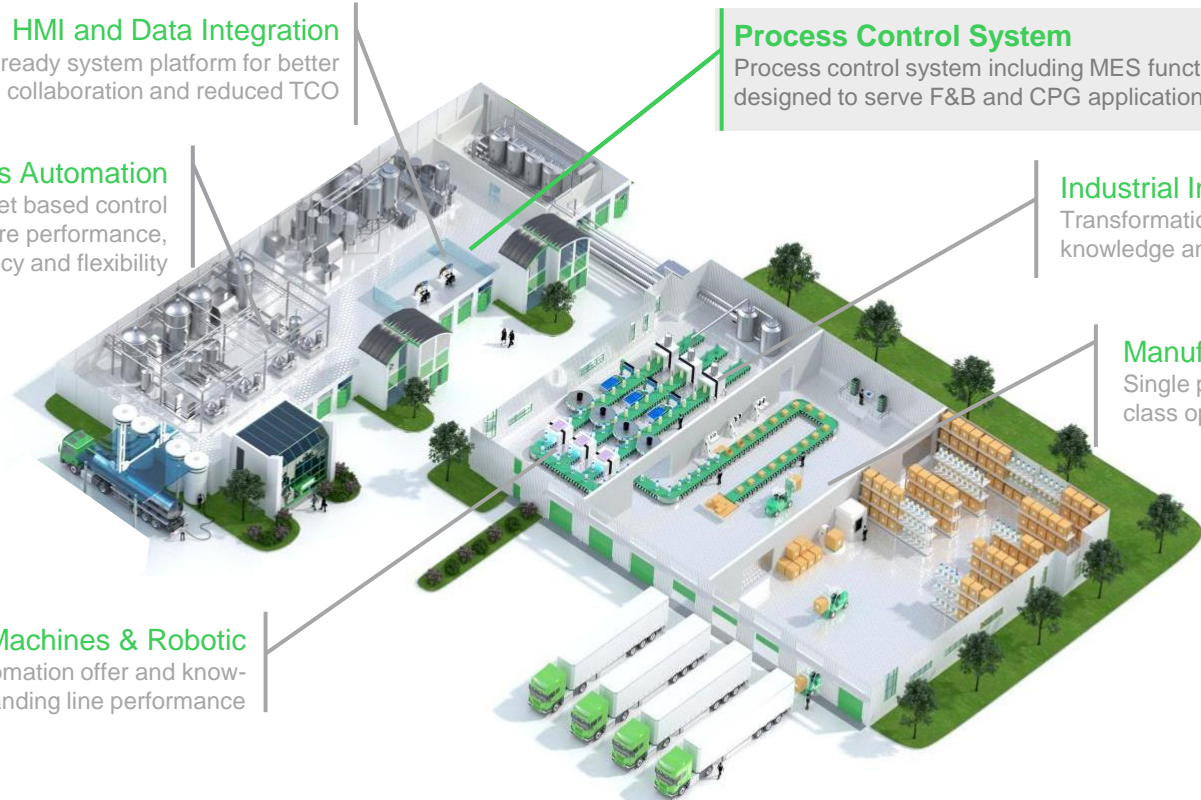**Industrial Information Management**
Transformation of your data into actionable knowledge and wisdom

Manufacturing Operation Management
Single plant and Multi-site IT platform for best-in-class operation, performance and quality

Smart Machines & Robotic
Packaging automation offer and know-how for outstanding line performance

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Plant i.T. & brewmaxx V9 System

Plant i.T. Process Control Systems. MES inside.

brewmaxx Process Control Systems. MES inside. The Plant iT™ industry solution for breweries.
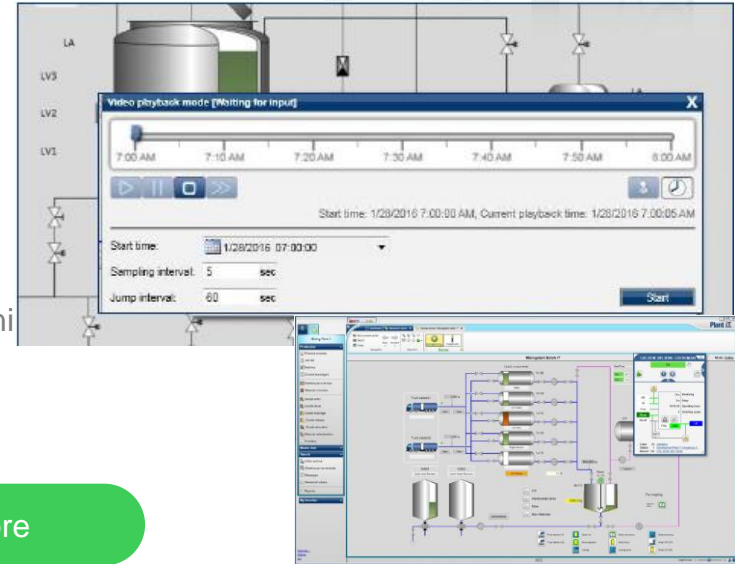
Object oriented & PLC-based process control system

The Solutions

Continuous, PLC-based automation solution whose base systems include a standard process control system with integrated recipe management system for hybrid and batch processes.

- Includes MES functionality,
- One central database and on one server
- Standardized user interface, side-bar, ribbon meu and search tools
- Context sensitive user guidance
- Comprehensive alarm management
- Visu-Recorder functionality allowing to replay event for analysis and traini
- Phase controllers take care of the processes
- Object Control Matrix control the function of the objects involved
- Automation objects do the job and monitor themselves
- Full transparency down to the single object

Learn more

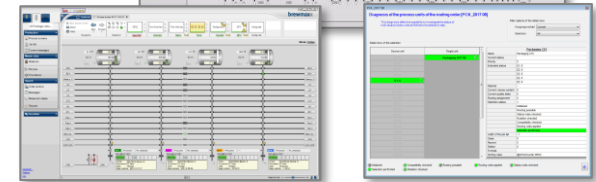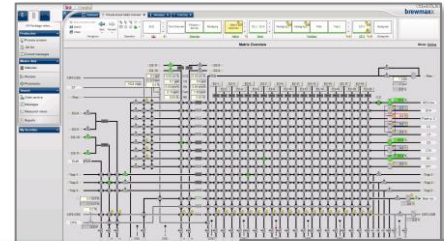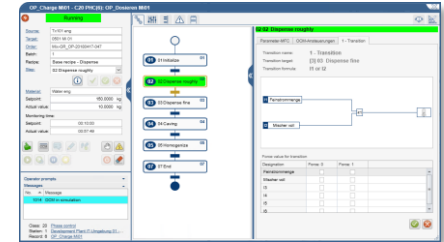Life Is On | Schneider Electric

Public

Plant i.T. & brewmaxx V9 System

Process Control Systems. MES inside.

Process Control Systems. MES inside.
The Plant iT™ industry solution for breweries.

Embedded know-how for the transparency of your process

Business value

- Efficient engineering
  - "Parameterization instead of programming"
  - Open and compiler less system architecture
- Lean system design and operation
- User-friendly interface, developed based on the latest usability standards
- Enhanced audit, traceability and continuous improvement

PRO

- ✓ No more complex PLC coding required
- ✓ Embedded process-specific libraries for simplified configuration and start-up
- ✓ Multi lingual system, available in seven languages, built upon Microsoft Standard software
- ✓ Scalable solution for single stations up to multi server systems

ProLeiT is now part of

Schneider Electric

ProLeiT | Schneider Electric

Public

Plan iT and brewmaxx

Over 2000 installations in more than 110 Countries

Brewing	ABInBev	Asahi	Carlsberg	DIAGEO	HEINEKEN	MillerCoors	Radeberger PILSNER
Dairies	Die Privatmolkerei Bauer	DANONE	dmk	müller	OMIRA MILCH	Calidad Pascual Tú, nuestra razón de ser	Wimm-Bill-Dann
Chemistry	BASF We create chemistry	Brillux ..mehr als Farbe	CLARIANT	Henkel	HILTI	maxit maxit Group	REHAU
Food	coop	GLOCKEN BÄCKEREI	JACK LINK'S	KERRY	KWS	Lindt MAÎTRE CHOCOLATIER SUISSE DEPUIS 1845	the nature network Martin Bauer Group
Beverages	Coca-Cola	ECKES granini the best of fruit	SELTERS	Niederrhein GOLD Tersteegen GmbH & Co. KG	Ensinger ...die Calcium-Magnesium-Power-Quelle	JUHAYNA	TÖNISSTEINER PRIVATBRUNNEN
Pharma	BAYER	FRESENIUS KABI caring for life	HAKA	Heraeus	Lichtwer Healthcare	Merck	MSD Animal Health

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EcoStruxure™ Process Expert

A comprehensive architecture built on secure, field-proven components

The solution

A Complete Solution utilizing Field-Proven components from Connected Products like (Sensors, Electrical devices: power meters, circuit breakers (compact, masterpact), motor starters TesysT, Speed Drives (Altivar family).
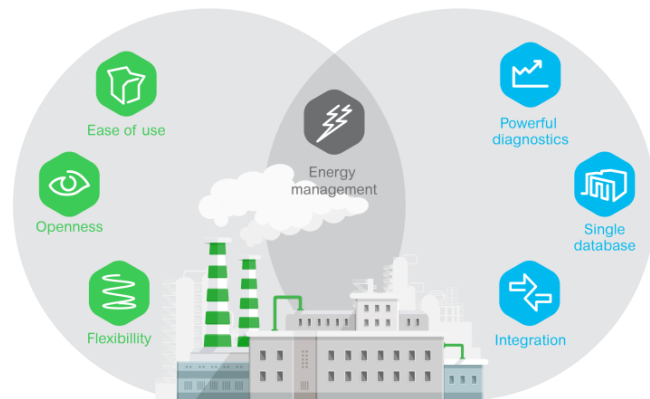
- Connected to Edge control: automation platform base on Modicon families.
- Operation and Engineering Server to Business Information systems.
- Navigation Services
- Alarm Management
- Sequence Of Events
- Simulation / Override / Maintenance
- Version Control
- Operational Audit Trail

Business value

Brings together the best from the PLC and DCS worlds and combines it with integrated energy management features to deliver superior value throughout the life cycle of a plant.

- Better maintenance capability to reduce downtime
- Maximizes operational profitability, safely

Learn more

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EcoStruxure Process Expert

Maximizes operational profitability, safely

Automation Platform	Communication	Operation	Engineering	Libraries
• Field-proven hardware platform • Scalable architecture • Choice of controller based on your application	• Supports OPC for 3rd party • Modbus, Profibus protocol for device communication • Ethernet backbone	• Runtime Navigation Services • High Performance graphics for smart and efficient operations • Audit trail and version control • Alarm management	• Multi-user • Global database • Single configuration environment for control & supervision • Object Oriented System	• Ready to use Process Library based on Situational Awareness. • Segment-specific library, bringing domain expertise • Advance Process Control • Energy Management

-25% 50% +10 pts -30%

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Casa Granado, Brazil

Tradition in premium and sustainable cosmetics

Customer Challenge
- Have a better integration between two production lines and find bottlenecks
- Reduce Time to Market

Solution
- EcoStruxure™ Process Expert
- InBatch
- Modicon M580
- HSBY Modicon Quantum
- Modicon X80 Distributed I/O
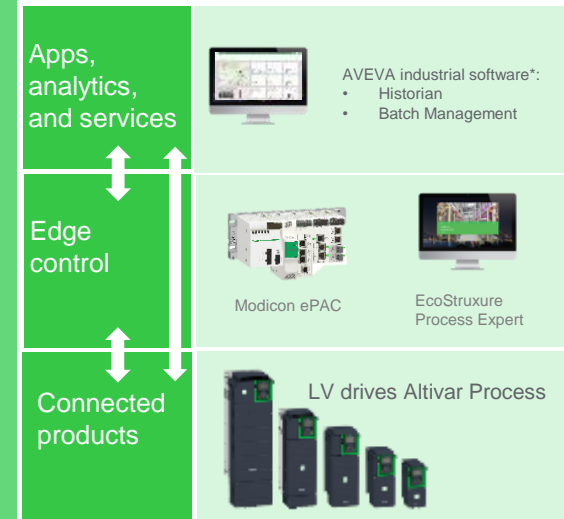- Altivar Drives

Customer Benefits
- Compliance with FDA 21 CFR part 11.
- Empowering the workforce through the High performance HMI concept.
- Future-proof solution.
- Lower Time-to-Market
- Better control integration resulting in meaningful analytics and improved production
- Less need for operations and maintenance training with reduced downtime

The Results: Life is On with... Short payback

Link to Paper

Founded in 1870, Casa Granado is the **oldest Brazilian cosmetics brand**. Focused on **premium products**, Granado produces soaps, moisturizers, colognes, perfumes and other products.

EcoStruxure™ For Food & Beverage
Innovation At Every Level

Apps, analytics, and services	AVEVA industrial software*: • Historian • Batch Management
Edge control	Modicon ePAC · EcoStruxure Process Expert
Connected products	LV drives Altivar Process

Life Is On | **Schneider** Electric

Public

Aavin Dairy

Digitization boosts productivity & efficiency

Customer Challenges
- Improve productivity to meet growing market demands
- Improve accuracy in milk processing and uniformity in end product quality
- Reduce excessive plant downtime
- Limited monitoring due to manual plant, reducing operational efficiency
- No visibility on energy consumption
- Lack of scalability
- Inability to track operational events
- Lack of asset information
- Lack of life cycle support & maintenance

The Solution
- Scalable & flexible EcoStruxure architecture, including software, that can accommodate future expansion
- Advanced digital technologies enabling transparency, security, reliability, and regulatory compliance
- Standardization through object-based programming

Customer Benefits
- Production increased from 0.2 to 0.3 million litres per day, and scalable up to 0.5 million litres per day
- 50% greater operational efficiency
- Real-time visibility
- Increased flexibility
- Future-proof system
- Simplified operation & maintenance
- Improved energy efficiency using consumption reports

The Results: Life Is On with... 50% increase in milk processing capacity & 50% improvement in operational efficiency

"Schneider Electric's EcoStruxure aims at addressing (industry challenges) by powering …the dairy industry with advanced digital technologies that ensure transparency, security, regulatory compliance and reliability."
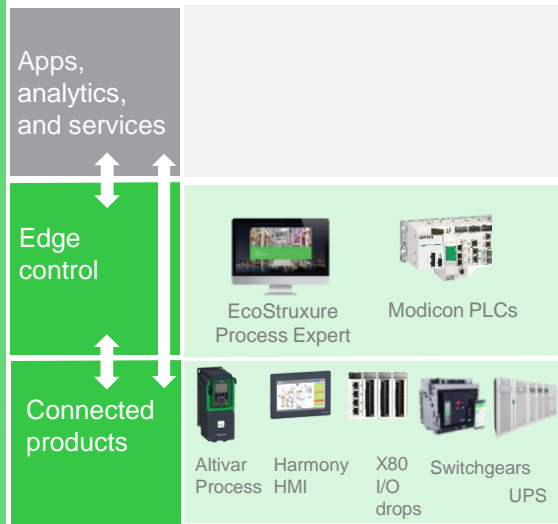
Latish Babu
Head – Strategic Customers & Segments
Greater India Zone
Aavin Dairy

Link to Paper 1
Link to Paper 2

Indian milk cooperative promotes economic development of local farming community by procuring, processing & manufacturing milk products

EcoStruxure Innovation At Every Level — For Food & Beverage

Apps, analytics, and services

Edge control

EcoStruxure Process Expert

Modicon PLCs

Connected products

Altivar Process | Harmony HMI | X80 I/O drops | Switchgears | UPS

* The Schneider Electric industrial software business and AVEVA have merged to trade as AVEVA Group plc, a UK listed company. The Schneider Electric and Life is On trademarks are owned by Schneider Electric and are being licensed to AVEVA by Schneider Electric.

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Public

Cerradinho Bio, Brazil

EcoStruxure Plant delivers Industry of the Future to ethanol producer

Customer Challenge
- High Mean Time To Repair (MTTR)
- Limited monitoring
- Visibility on energy consumption
- Process Transparency Tracking events
- Obtain asset information / Cybersecurity
- Operational and people safety

The Solution
- EcoStruxure Plant including:
- EcoStruxure Process Expert
- EcoStruxure Augmented Operator Advisor
- Magelis iPC, Altivar Drive, ITD No-Breaks
- Tesys T Ethernet / Easergy P3, LV and MV Panels
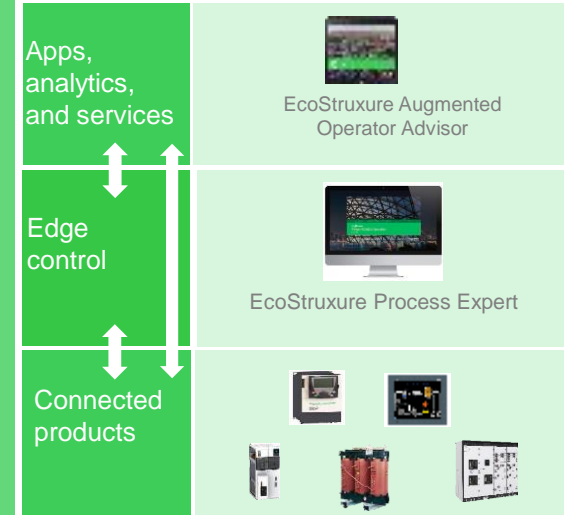
Customer Benefits
- Operation and engineering traceability
- Reduction of operating errors
- Advanced and quick diagnosis through Hybrid DCS and Augmented Operator Advisor
- Agility to solve problems
- Asset Management and cybersecurity
- Easy maintenance and calibration of assets
- Accident reduction thanks to process transparency.

The Results: Life is On with... ... Improved Operational and Production Efficiency with increased flexibility
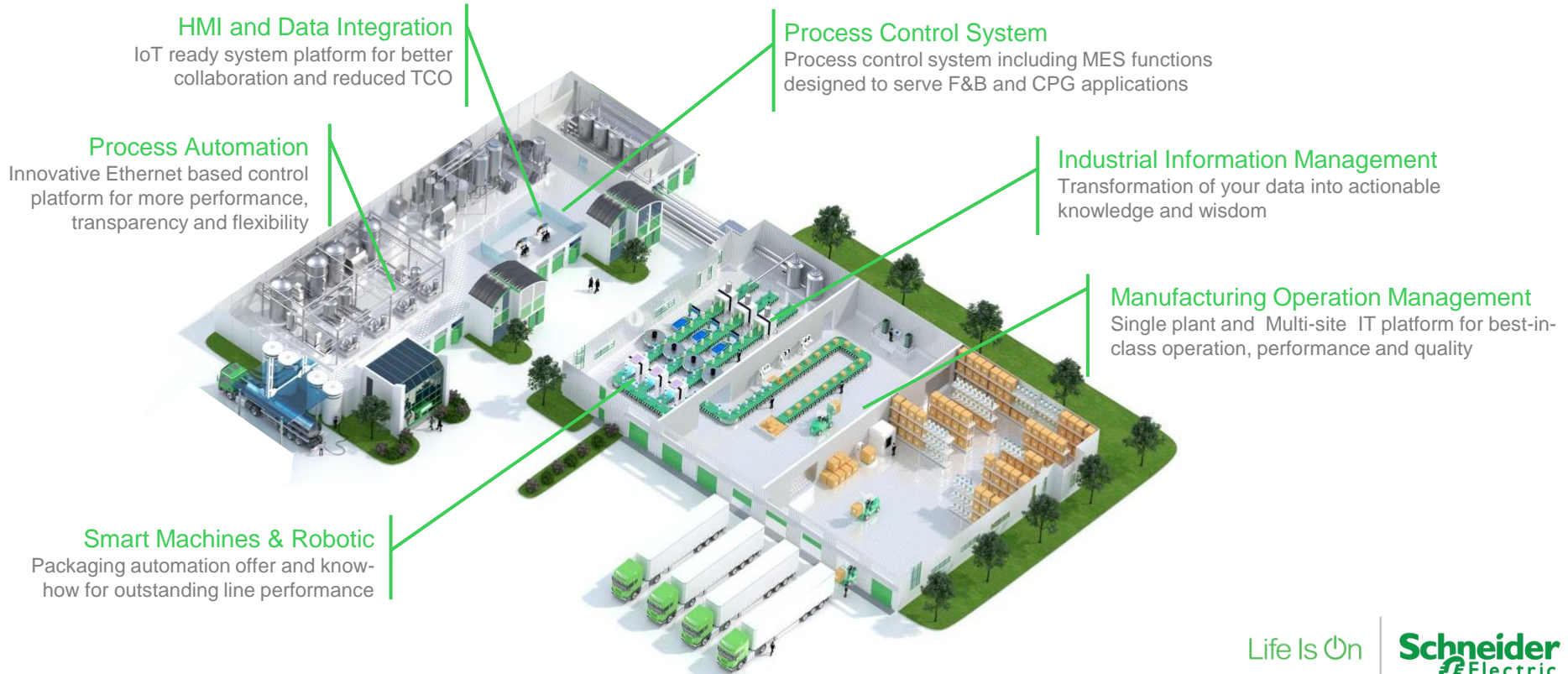
Cerradinho Bio is part of Cerradinho Par group, with operations in sugarcane, agricultural properties, logistics, gas stations and real estate projects.

EcoStruxure For Food & Beverage
Innovation At Every Level

Apps, analytics, and services	EcoStruxure Augmented Operator Advisor
Edge control	EcoStruxure Process Expert
Connected products	

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EcoStruxure for Food & Beverage / CPG

Agile manufacturing
Boost manufacturing flexibility and efficiency

- Manufacturing Operation Management
- Industrial Information Management
- Process Control System
- HMI and data Integration
- Process Automation
- Packaging Automation

Efficient facilities
Safer, more available, and greener resources

- Smart Building Management
- Power Safety & Availability
- Power Quality & efficiency
- Renewable Energy & Microgrids
- IT Infrastructure Management

Resilient supply chain
Manage complexity and reduce logistics costs

- Agriculture Efficiency & Sustainability
- Suppliers Management
- Supply Chain Optimization
- Cold Chain Monitoring
- Product Information Management

Food Safety & Traceability
Ensure compliance and trust across the product life cycle

- Food Defense
- Cybersecurity Services
- Digital Calibration
- Raw material traceability
- Production traceability
- Product Identification & Tracking

Energy & Sustainability
Reduce footprint and meet sustainability goals

- Sustainability Consulting
- Energy Demand Services
- Strategic Energy Sourcing
- Enterprise data management
- Energy as a Service

Asset Performance
Maximize return on capital expenditure

- Assessment and Consulting
- Enterprise Asset Management
- Condition Monitoring
- Predictive Analytics
- Line & Process Optimization
- Modernization services

Workforce Empowerment
Improve staff knowledge, productivity and collaboration

- Operator Training Simulator
- Augmented & Virtual Reality
- Workflow Management
- Staff Schedule Management
- Operator Knowledge Sharing

Digital Engineering
Cut time, cost and risks of capital project engineering

- Electrical CAD
- Building Information Modelling
- Integrated Engineering-Design
- Digital Asset Visualization

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Let's talk about

Eco truxure™
for Food & Beverage

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