



Resilient Supply Chain

EcoStruxure™ enables trust in the Food & Beverage,
Household and Personal Care industries

Life Is On

Schneider
Electric

We help on every step of the value chain

Efficient facilities

Safer, more available,
and greener resources

Agile manufacturing

Boost manufacturing
flexibility & efficiency

Resilient supply chain

Manage complexity and
improve visibility

... enabled by transversal digital transformation capabilities

Food Safety & Traceability

Ensure compliance and increase trust across the whole value chain

Energy & Sustainability

Reduce environmental footprint and meet sustainability goals

Asset Performance

Maximize return on asset investment

Workforce Empowerment

Take teams efficiency to the next level

Digital Engineering

Cut time, cost and risks of capital project engineering

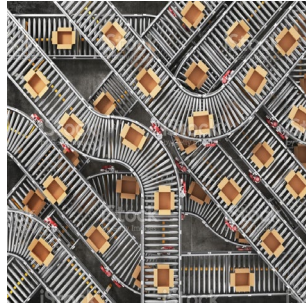
Manage complexity and improve visibility across your Supply Chain



Agriculture efficiency & sustainability

Help farmers and agri-business improve productivity, better manage the use of resources and achieve regulation compliance and traceability.

Greater yield
leveraging digital solutions



Warehouse management

Ensure process, control and optimization of warehouse operations to improve efficiency and address ecommerce imperatives.

Increased **productivity** while ensuring safety



Supply chain optimization

Increase your visibility, improve agility and performance to build a resilient supply chain, end-to-end.

Build a **resilient** Supply Chain



Product Information Management

Ensure the right information related to the product is available for a seamless omnichannel retail experience

Up to **17%** increase in data accuracy



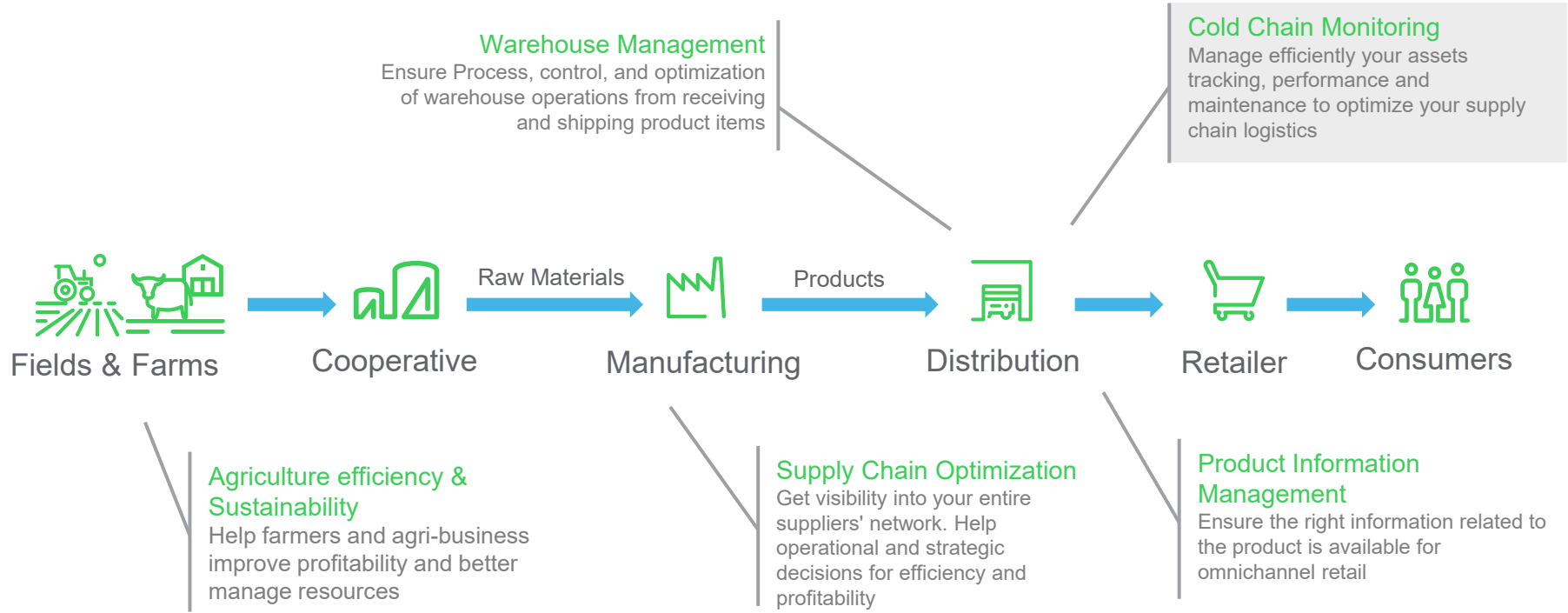
Cold chain monitoring

Manage efficiently your assets tracking, performance and maintenance to optimize your supply chain logistics

Ensure efficient & **secure operations**

Resilient Supply Chain

Manage complexity and improve visibility across your supply chain



Cold Chain Monitoring

Manage efficiently your assets tracking, performance and maintenance to optimize your supply chain logistics

- **Supply chains** are major contributors to environmental impact.
 - The need for sustainability to address primary threats such as Climate Change has been reinforced by COVID-19 pandemic and will be a **priority in recovery plans**.
- Increasing «**on-the-go**» trend: more and more coolers installed at different Point of Sales (PoS)
- **How to manage efficiently these delocalized assets?**
 - Prevent asset from being stolen: direct impact on costs and product sales
 - Impact on brand image if cooler not working at the proper temperature – monitoring cooler performance
 - **Lower maintenance asset costs**
 - **Optimisation of geographical distribution** of the assets based on sales intelligence data



Operating Costs

Maintenance costs

Better Asset Life cycle management

Improved product inventory

Sustainability

Energy usage

Carbon emission

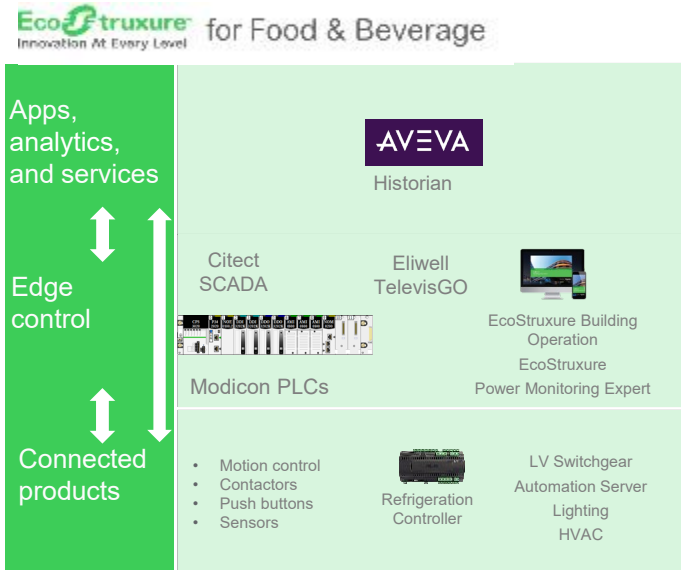
Fleet management

Food Loss Management

Solutions for Cold Chain Monitoring

Manage efficiently your assets tracking, performance and maintenance to optimize your supply chain logistics

The solution



Business value

- Simplified supervision solution with easy integration
- More secure, efficient and effective operations
- Improved transparency: automatic data generation, collection, processing and management
- 70%~80% reduction in labor requirements compared with traditional cold storage
- Highly efficiency energy usage with energy consumption reduced by 25%
- Cold chain guarantee in critical environment
- Compliant solution to HACCP requirements

Learn more

Secure, efficient and effective cold storage operations

Seafood products producer and exporter, India



Customer Challenge

- Increasing export demand
- Maintain good integration of automation control for cold and condensation storage process control system

The Solution

- EcoStruxure Plant incl.:
- Automation & Control: Citect SCADA with Modicon PLC M340 Standalone using X80 IO's used for total control logics
- Aveva Historian

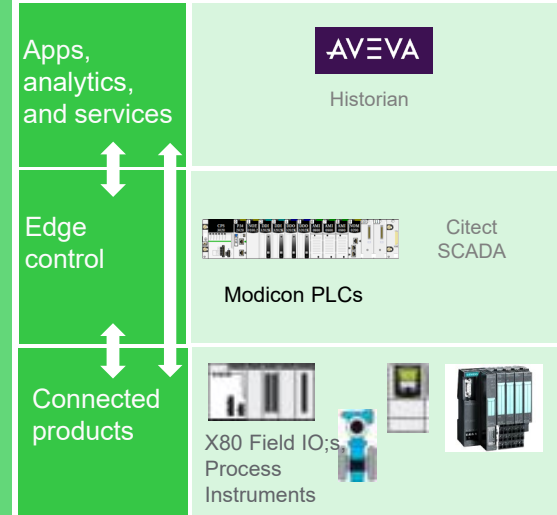
Customer Benefits

- Simplified supervision solution
- Easy integration
- More secure, efficient and effective operations

The Results: Life is On with...More secure, efficient and effective operations

Processing facility dedicated to producing environmentally sustainable, premium fish, shrimp and associated aqua products for the domestic & international markets.

EcoStruxure for Food & Beverage
Innovation At Every Level



Beijing Jingkelun Refrigeration Equipment Co., Ltd.

Lead the digitization of intelligent cold storage

Customer Challenges

- Connected and efficient cold chain storage to guarantee food safety
- Energy efficiency
- Intelligent logistics center
- Seamless information center for e-commerce

The Solution

EcoStruxure for Industry solution, including hardware & software, helps Jingkelun build an automated, intelligent refrigerated storage that is connected, efficient, and saves energy

Customer Benefits

- Improved transparency: Automatic data generation, collection, processing and management to share with the company's management system
- 70%~80% reduction in labor compared with traditional cold storage
- Annual power consumption of only 8kwh/m³ meets leading international standards

The Results: Life Is On with... 70-80% reduction in labor requirements and **highly efficiency** energy usage

"Cooperation between Jingkelun and Schneider Electric creates a masterpiece for up-to-date intelligent cold storage and offers infinite possibilities for its fully intelligent and highly effective development in the future."

Quanjiang Wang
General Manager,

Beijing Jingkelun Refrigeration Equipment Co. Ltd

Cold storage solutions to ensure the **highest quality** of frozen food

EcoStruxure[™] Machine
Innovation At Every Level

Apps,
analytics,
and services

Edge
control

Connected
products



Modicon PLC Citect SCADA

- Motion control
- Contactors
- Push buttons
- Sensors

Securing the cold chain in a critical environment

Italian regional grocery retailer



Customer Challenge

- Secure the cold chain in a critical environment (hot temperature in South Italy)
- Reduce annual maintenance costs in their remote locations
- Energy saving & OPEX
- Several systems with different user interfaces to learn

The Solution

- EcoStruxure™ for Supermarkets incl.:
- EcoStruxure™ Building Operation
- EcoStruxure™ Power Monitoring Expert
- Eliwell food refrigeration system
- HVAC Control
- Lighting Control
- MV/LV & final distribution, capacitor banks, power meters, wiring devices & thermostats, NCO, UPS

Customer Benefits

- Reduced energy usage
- Cold chain guarantee in critical environment
- OPEX reduction in remote locations
- Easy to use and unique user interface

The Results: Life is On with... Energy consumption reduced by 25%

Italian retailer with **120 sales points**

EcoStruxure™
Innovation At Every Level for Retail

Apps,
analytics,
and services

Edge
control

Connected
products



EcoStruxure components:
Building Operation
Televis Go
Power Monitoring Expert



Refrigeration
Controller

LV Switchgear
Automation Server
Lighting
HVAC

Eliwell TelevisAir Solution

Solution for connected coolers

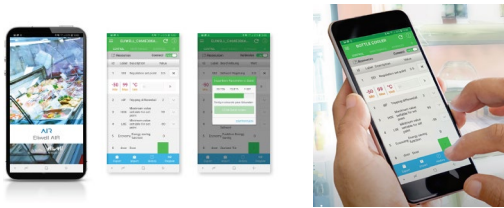
The Solution

TelevisAir CLOUD for:

- Cooler geolocalisation
- Data storage & analytics for cooler performance
- Alarm notification
- Cloud enabled services

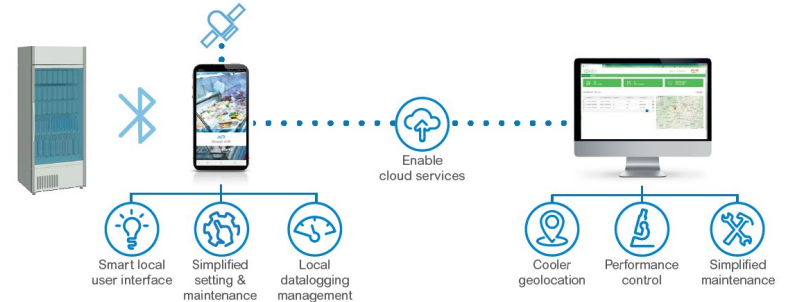
Eliwell AIR app for:

- Smart local interface with the controller
- Easy setting & support
- Local datalogging management



Benefits

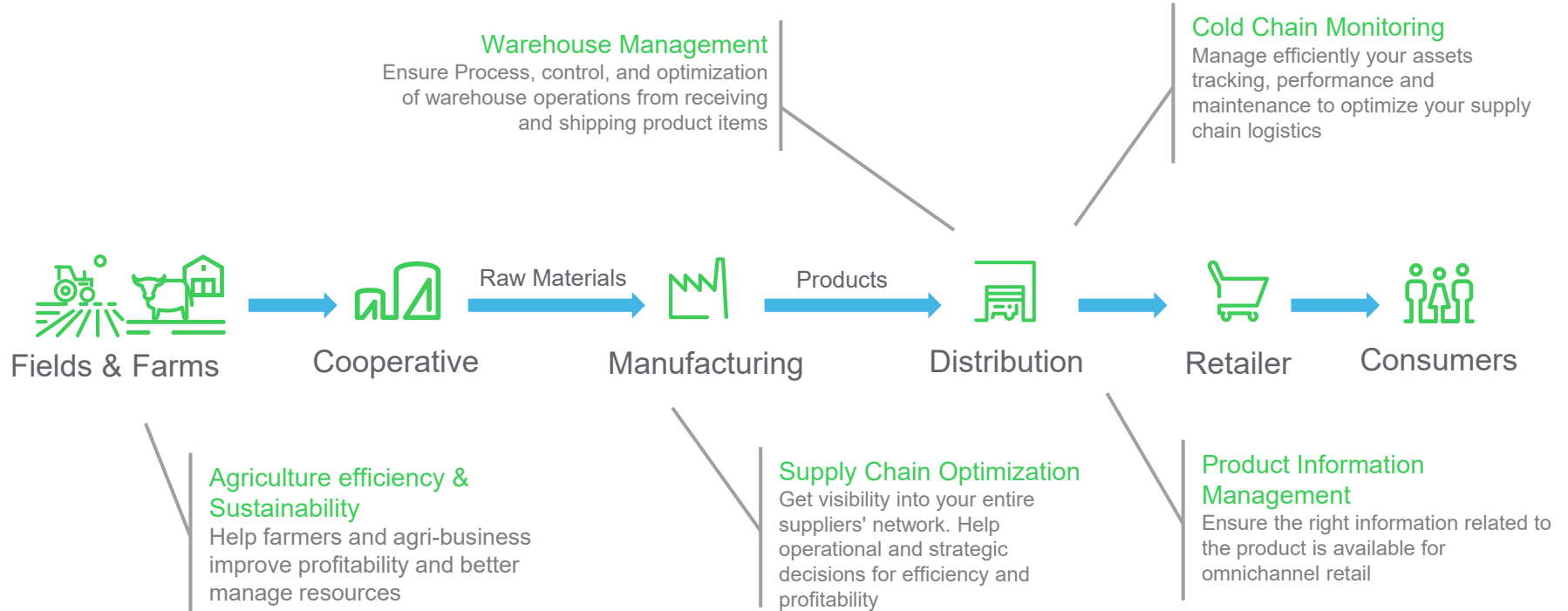
- **Efficient asset tracking:** detect cooler geoloc changes
- **Cooler performance:** through data storage & analytics, check cooler performance during warranty period
- **Optimized maintenance:** alert notification, HACCP reports
- **Optimized supply chain logistics:** shop visit itinerary, refilling logistics and fleet profitability



Learn more

Resilient Supply Chain

Manage complexity and improve visibility across your supply chain



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



Let's talk about
EcoEtruxure™
for Food & Beverage

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Life Is On

Schneider
Electric