

Smart Food Factory - how to approach digital transformation?

An applied approach to one of the Mega Trends in the industry

Axel Kather, Schneider Electric

View on Schneider Electric - not as your supplier but as a manufacturing company





80,000 employees in Supply Chain

By end 2020

Global Supply Chain

It is not a question of "if" but of "how" and "how fast"



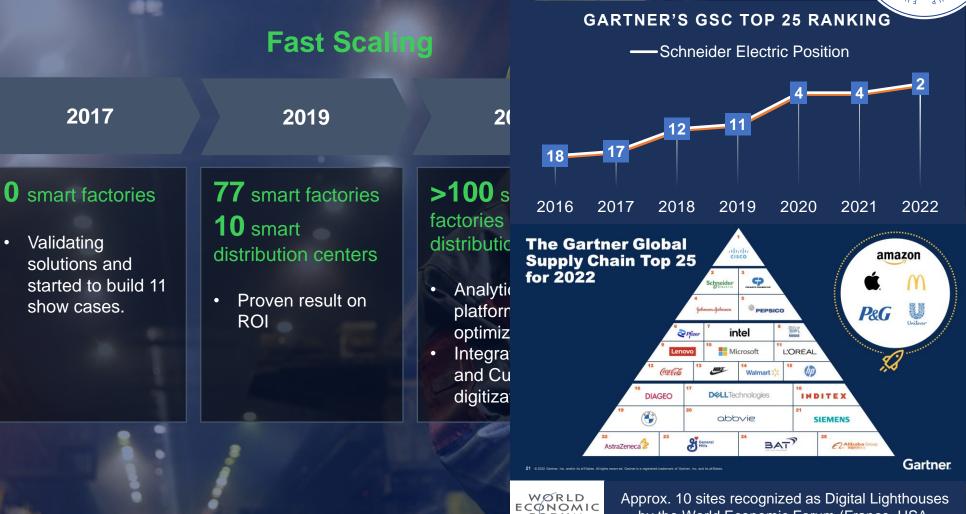


Axel Kather, Schneider Electric

EcoStruxure[™] Smart Factory & Distribution Centers

A deployment plan that allows us to think big, act small & scale fast





FORUM

- 100

by the World Economic Forum (France, USA,

Indonesia, Mexico, China, Singapore, India...)

Getting it all digital and put it in the cloud?

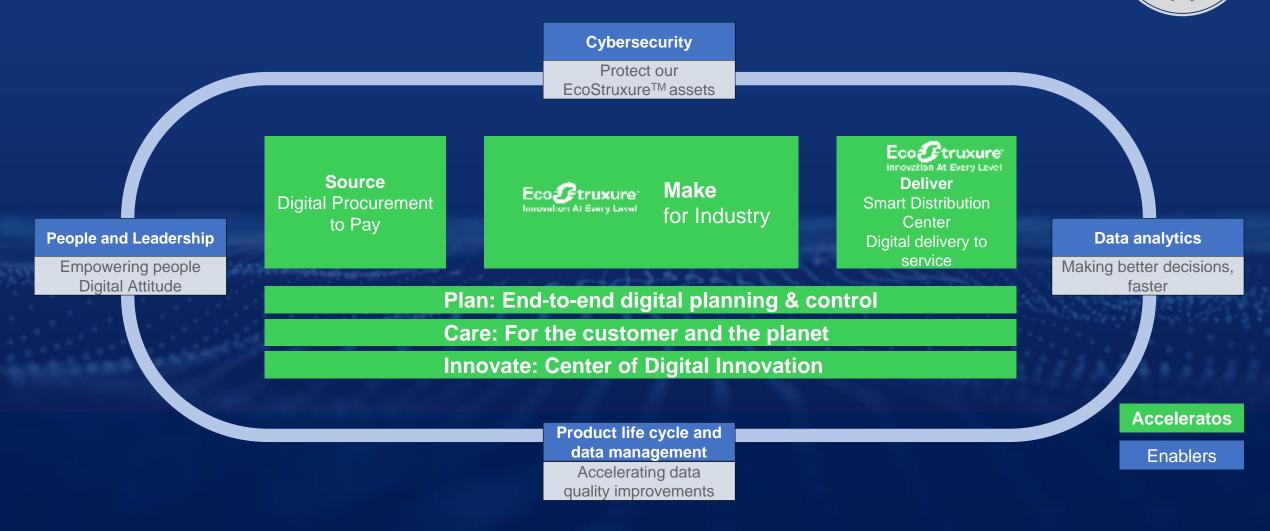
Digitalisation is more than just applying some Al on data in the Cloud or some isolated use cases!



It is a full transformation process that needs to be managed and governed to be successfull

Tailored, sustainable, connected supply chain 4.0

Digitalisation to empower our teams, improve customer experience and end-to-end operational efficiency





Build the Digital applications portfolio

And increase it continuously



Business need Regional initiative Measurable results Selection Standard Framework IT / Procurement Line of Business

Diagnosis per site Training

Scale

Agile Mode – 3 Months Horizon



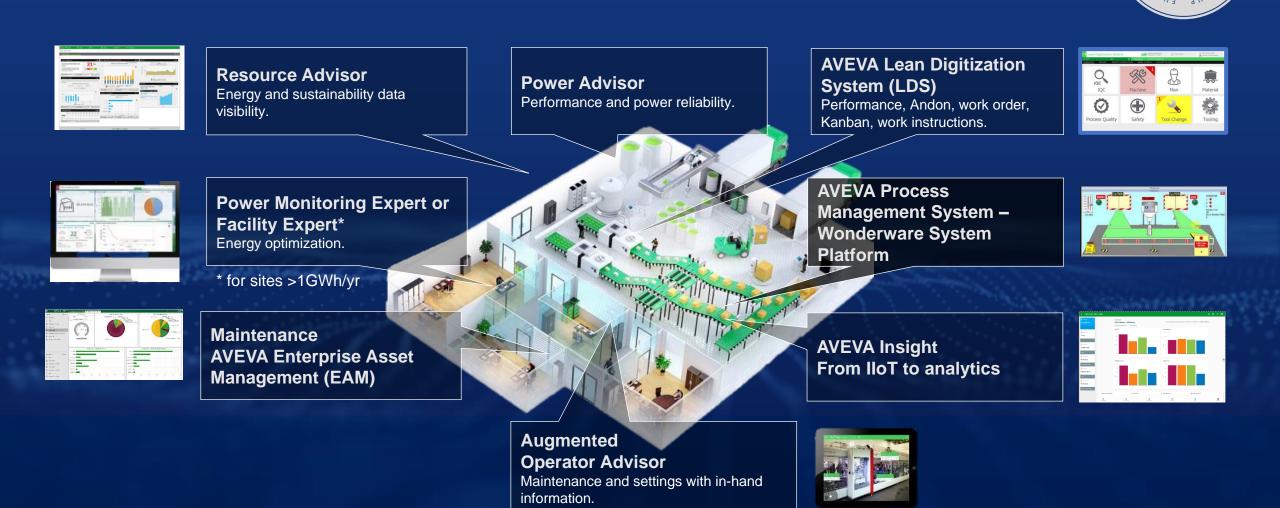
EcoSystem of 100 solutions deployed at scale

ERP Federation			Industrial Data Lake		
Asset management			Process Quality Optimization with Analytics	Logistic & Warehousing	Engineer to Order Project management
People Management	Manufacturing Operation management	Process Control – Interlocking Traceability	Statistical process Control	Quality Processes management	Power and Building Management
Edge Control Connected Products				Al Based Virtual Inspection	Virtual Reality for Training For Design

Certification and Cybersecurity

HYGIEN,

Eating our own food – examples for Ecostruxure solutions



Empowered employees are leading the digital transformation

Enabler: People & leadership





Competencies of the future

- Evolving skillset (hard and soft)
- Digital technologies all pervasive
- Increased focus on analytics driven by new technologies



Constant learning culture

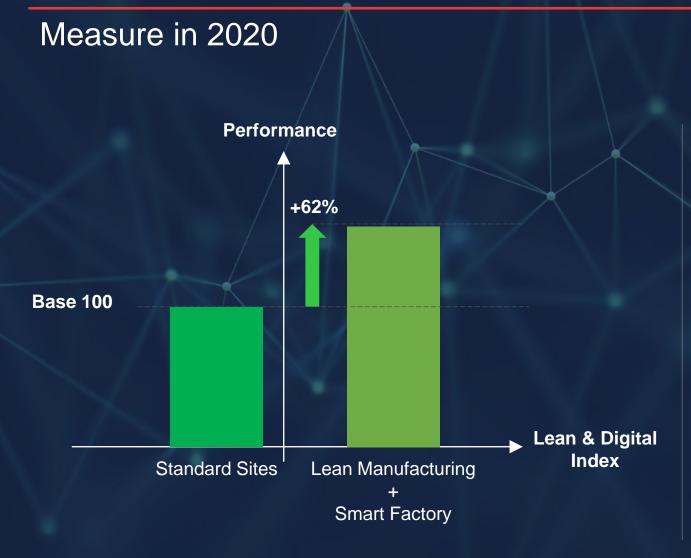
- Prepare future adaptations through constant learning experience for blue-collar workers
- Technology solutions offering easy access



Leadership in supply chain of the future

- Higher empowerment of blue-collar workers through digital – direct link with suppliers to share and manage quality issues
- Management transformation: from technical to coaching skills

Performance delivered by the deployment





A typical overall payback is 1.5-2 years, specifically*

Energy Efficiency: average -30% cost saving.

Productivity: average 30% CapEx reduction(engineering and commission); 28% OpEx reduction (maintenance costs); 22% equipment availability increase

Reliability: average15% quality issues reductions

Safety: average 20% workforce safety improvements

Sustainability: average 20% CO2 footprint reduction

*: based on both customer projects & Schneider own entities

Perimeter: based on financial, lean audit and digital index data from 200 sites

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What could be a typical Use Case for Cleaning

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We make our know-how in digital transformation and the CPG Industry available for our customer



Innovative Sensor from partner 4T2

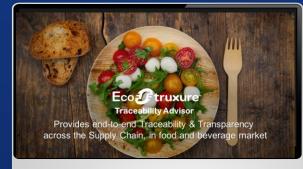


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What could be a typical Use Case beyond cleaning and beyond the site

Ecostruxure Traceability Advisor









Origin Module

- Map your suppliers & identify risks
- Check certificates compliance
- Ensure a credible transparent Cl supply chain A chainer. Schneider Electric



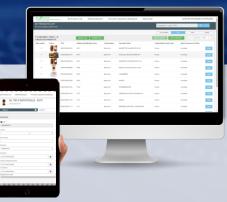
Digital solutions for the plant

- Plant traceability is a prerequisite in this journey
- Paperless solutions for your plant including CIP data



Track & Trace Module

- Anti-Counterfeiting
- Digital tax verification
- Supply chain optimization
- Events tracking
- S Wo Inventory management ML
 - including CIP tracking



PIM Module

Product Information Management

- Your single source of truth and trust for your product data
- Increased data accuracy and availability
- Operational efficiency: reduction in labour costs and time to market

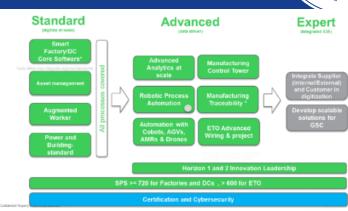


Food Safety Module

- Save time in recalling your products in the supply chain
- Cost savings in product recall batch sizes
- Cost savings on insurance
 premiums

Summary: Smart factory program – some guidelines for Speed

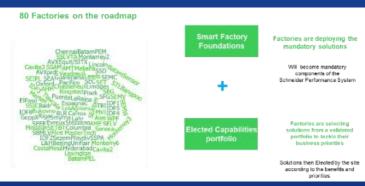
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A factory ranking

A defined process

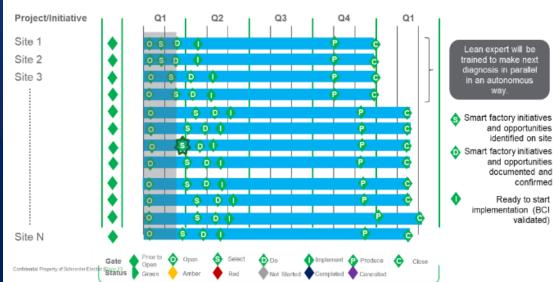




A solution catalog

Project overview per factory

Scale Fast



Result tracking per factory / regions



ngres

confirmed

validated)



Life Is Or

Our Purpose:

Empower all to make the most of our energy and resources bridging progress and sustainability. We call this Life is On.

Our Mission: Be your digital partner for Sustainability and Efficiency

Our Vision:

Improve flexibility, traceability and sustainability of your operations across the whole supply chain.

