



# FUTURE READY

## EcoStruxure Plant Advisor in a nutshell

March, 2022

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# Digital Transformation is the opportunity to meet your needs

## Constraints



Increasing volume  
of data in siloed  
departments



Multiple IT/OT data  
sources



Complex  
standardization and  
Scalability



Huge amount of data to  
be transformed  
into insights

## IIoT Solutions Capabilities

Adoption of a **flexible** and  
**secure IIoT infrastructure**  
helps **reducing operating  
costs & maximize ROI**

with a unified, open, scalable  
platform, integrating IT/OT data

**Digitized processes** and  
**equipment** empower  
**collaboration** across teams

with dashboards tailored on users  
needs across different departments,  
from shop-floor to top-floor

The **right analytics** provide  
the **right insights** in the  
**right place** at the **right time**

Data from multiple systems and  
sites are available in standard format  
and dashboards

# Market definition of IIoT Platform

## IIoT Platform\* (Industrial Internet of Things Platform): set of integrated software capabilities

*These capabilities span efforts to improve asset management decision making, as well as operational visibility and control for plants, depots, infrastructure and equipment within asset-intensive industries. These efforts also occur within related operating environments of those industries.*

*The IIoT platform may be consumed as a **technology suite** or as an **open and general-purpose application platform**, or both in combination. [...] The IIoT platform software that resides on devices — such as, controllers, routers, access points, gateways and edge computing systems — is considered part of a **distributed IIoT platform**.*



### Manage

fleets of IoT devices  
and gateways remotely



### Integrate

data, process, enterprise  
application and IIoT ecosystem  
across cloud and edge



### Analyze

data streams to  
provide insights



### Enable and deploy

Applications to accomplish IoT  
related business functions

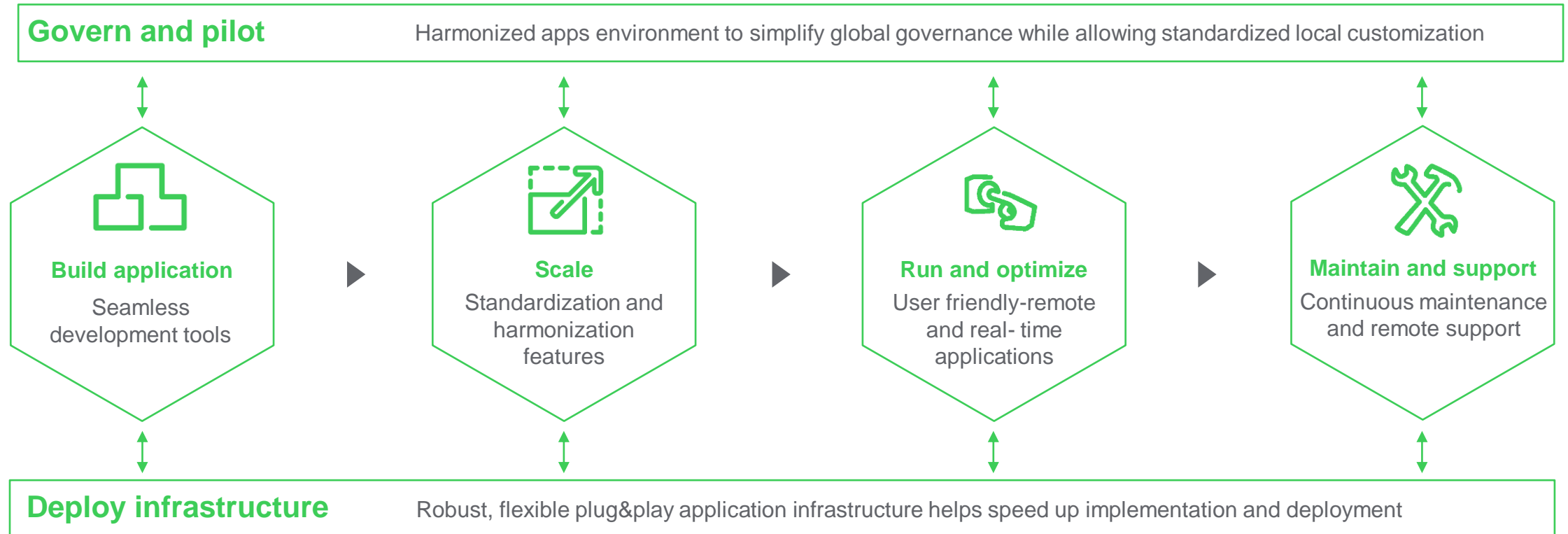


### Secure

the privacy of data by  
preventive, detective and  
corrective measures



# An IIoT platform with end-to-end agnostic IIoT capabilities



# EcoStruxure Plant Advisor

Open, Scalable  
Industrial IoT Platform

# EcoStruxure™ for Industry



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# EcoStruxure Plant Advisor

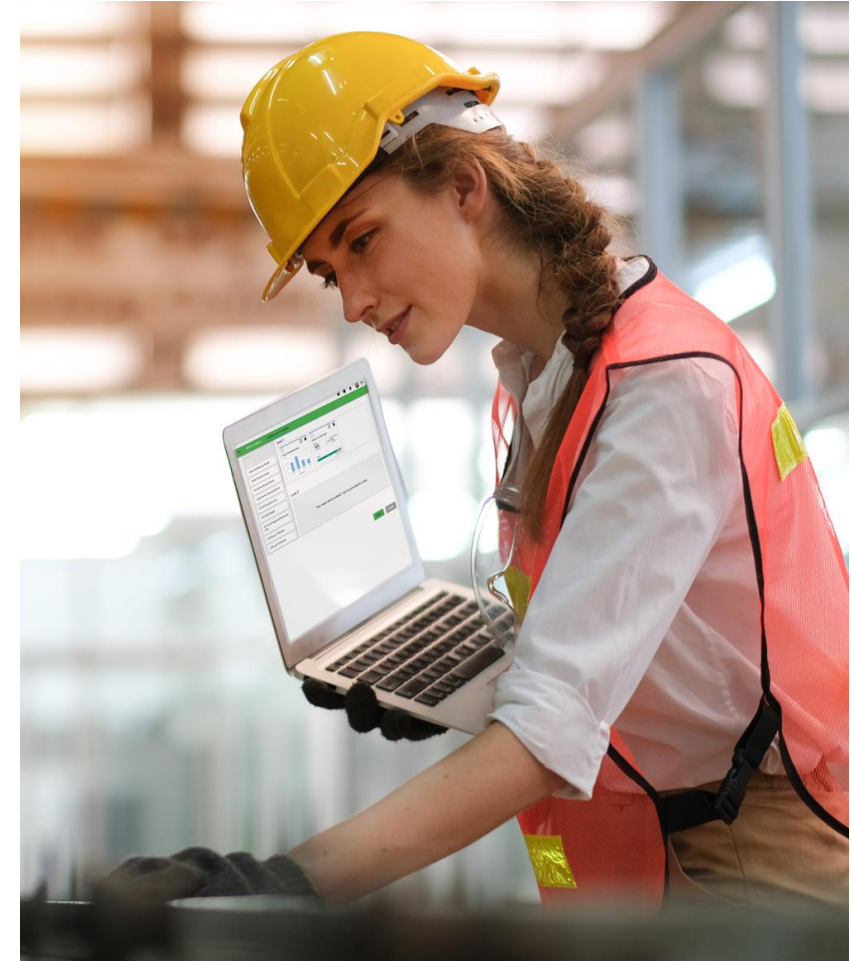
The open, scalable **Industrial IoT Platform**

Leveraging the **IT/OT integration** across multiple systems and sites, it provides industrial businesses with **real-time insights** into **specific domain KPIs** to drive **business optimisation**.

A **common scalable environment** and **centralized data service management** to access multiple Industrial IoT Applications.

- **Access and collect operational data**, from edge to cloud, within **one standard industrial data model**
- **Process, analyse and present data** for real-time monitoring of business, with **meaningful KPIs and analytics**
- **Meet specific industrial needs**, with a range of **pre-packaged** applications or developing **tailored** customer applications

The platform is designed to build **End-to-End Enterprise Solutions**, working across the industrial lifecycle to bring more business value.



# EcoStruxure Plant Advisor is based on 6 key principles



## Visualize

Operational dashboard tool for real-time monitoring and visualization of KPIs and analytics



## Customize

Build custom applications in a low-code environment, leveraging pre-built components and centralized access to all data to meet specific business needs



## Specialize

Industry-specific set of IIoT applications to address particular industry challenges (CPG, Mining, Discrete Manufacturing, Oil & Gas, etc...)



## Analyze

Leverage analytics engines to get the best insights of the collected data, bringing optimized contextualization, advanced root-cause analysis and operational efficiency through AI (Predictive Maintenance, Machine Learning, etc...)



## Manage

Manage your IIoT platform, data sources, users, edge devices and the access to cloud apps in the EcoStruxure Plant Advisor – Portal

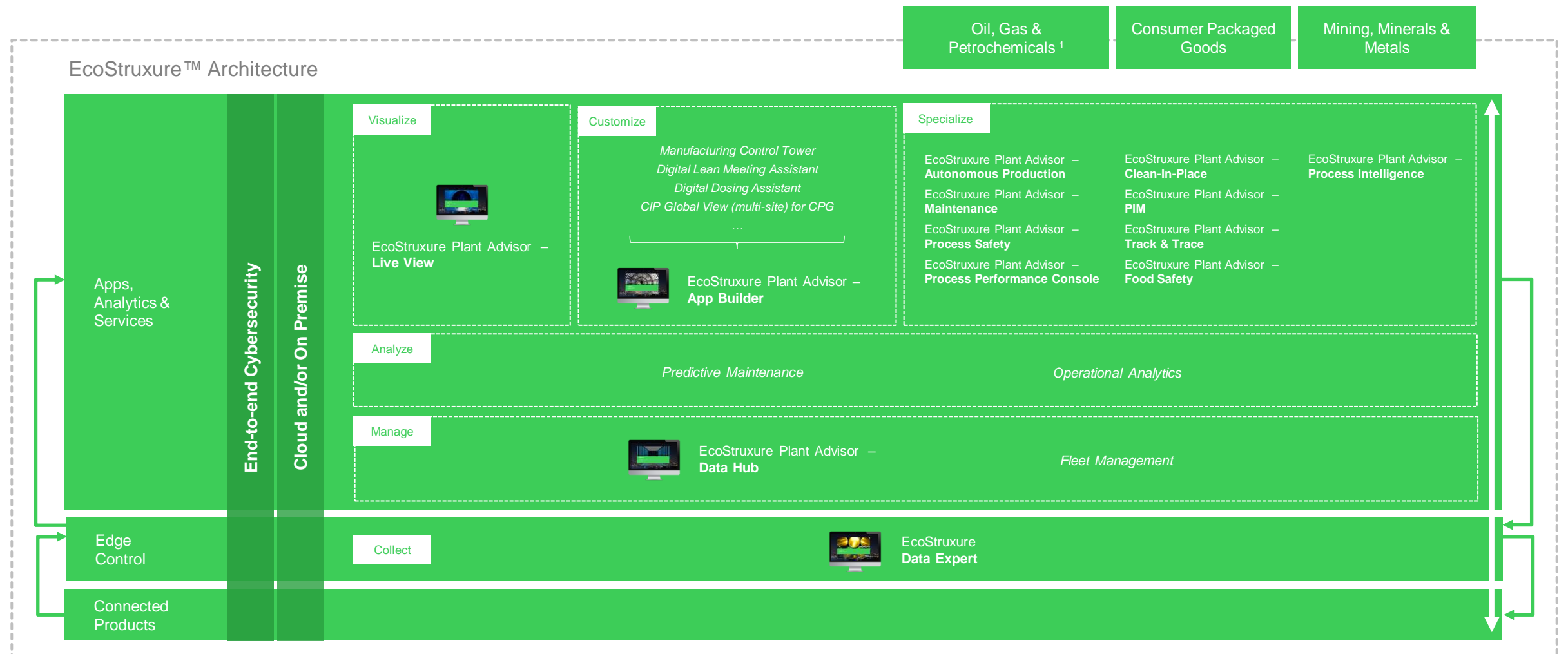


## Collect

Enable collection, processing and contextualisation of operational data, from edge to cloud, within one standard industrial data model



# EcoStruxure Plant Advisor in the EcoStruxure Innovation Stack



1. Offerings managed by Process Automation (part of convergence initiative)  
2. Applications built with App Builder

# EcoStruxure Plant Advisor: Industrial IoT Apps for Segments



## Live View

- Search for data
- Rapidly build tailored dashboards
- Access favourite charts
- Be alerted to changing conditions



## App Builder

- Apps administration management
- Contextual collaboration
- Integrated task management
- Business logic (simulation, workflow)



## Clean-in-Place Advisor

- Benchmark cleaning quality
- Assess CIP performance, help following strict hygienic standards and regulatory compliance requirements
- Diagnostic tool
- Traceable digitalized cleaning and waste reports for quality audits



## Track & Trace

- Anti-counterfeiting
- Digital tax verification
- Supply chain optimisation
- Events tracking
- Inventory management



## PIM

- 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

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



## Process Intelligence

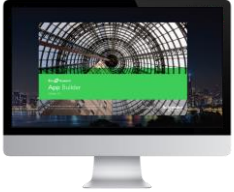
- Operational KPI monitoring & optimisation (energy, quality, water, throughput)
- Root cause analysis through remote expert
- Continuous productivity control thanks Real time ML Analytics generated from historical data

CPG

MMM

# EcoStruxure Plant Advisor: examples of pre-packaged IIoT Apps\*

\* IIoT Applications built with App Builder



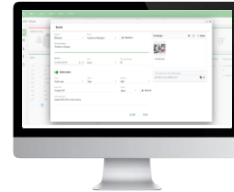
## App Builder

- Apps administration management
- Contextual collaboration
- Integrated task management
- Business logic (simulation, workflow)



## Manufacturing Control Tower

- Unique point of access for multiple sites
- Performance KPIs at different levels of aggregation
- Create actionable data through tasks and collaboration capabilities



## Digital Lean Meeting Assistant

- Digital management of ideas and SIM cycles (short interval management)
- Digitized workflow to simplify escalation, communication and review of actions
- Automatic process from idea creation to execution



## Digital Dosing Assistant

- Remote data collection from dosing pumps to improve their efficiency
- Adjustment of dosing capabilities following predefined rules and inputs from simulation
- AI algorithms to support best choice for domain experts (chemists), accelerating decision-making



## CIP Global View for CPG

- Multi-site application collecting and centralising data from different CIP stations
- Unique corporate intelligence environment to analyse the most relevant KPIs
- Enhanced traceability of cleaning quality at enterprise level

# Designed to deliver unique customer values and benefits



## End-to-End Platform

EcoStruxure Plant Advisor is an open, modular solution which offers ready to use data contextualization in the cloud. IIoT applications can easily be scaled from one installation to multiple sites.

The expertise of Schneider Electric and our partners is available to add value at every stage of the IIoT solution lifecycle – from project definition and implementation to maintenance.



## Domain Expertise

Leveraging the extensive industry and application knowledge of Schneider Electric and our partners we've developed pre-packaged apps to meet the essential performance requirements of specific industries



## Customizable

The applications built with EcoStruxure Plant Advisor can be tailored to meet the efficiency needs of any organization, working with existing IT/OT systems, offering modular design, fast prototyping, and quick implementation

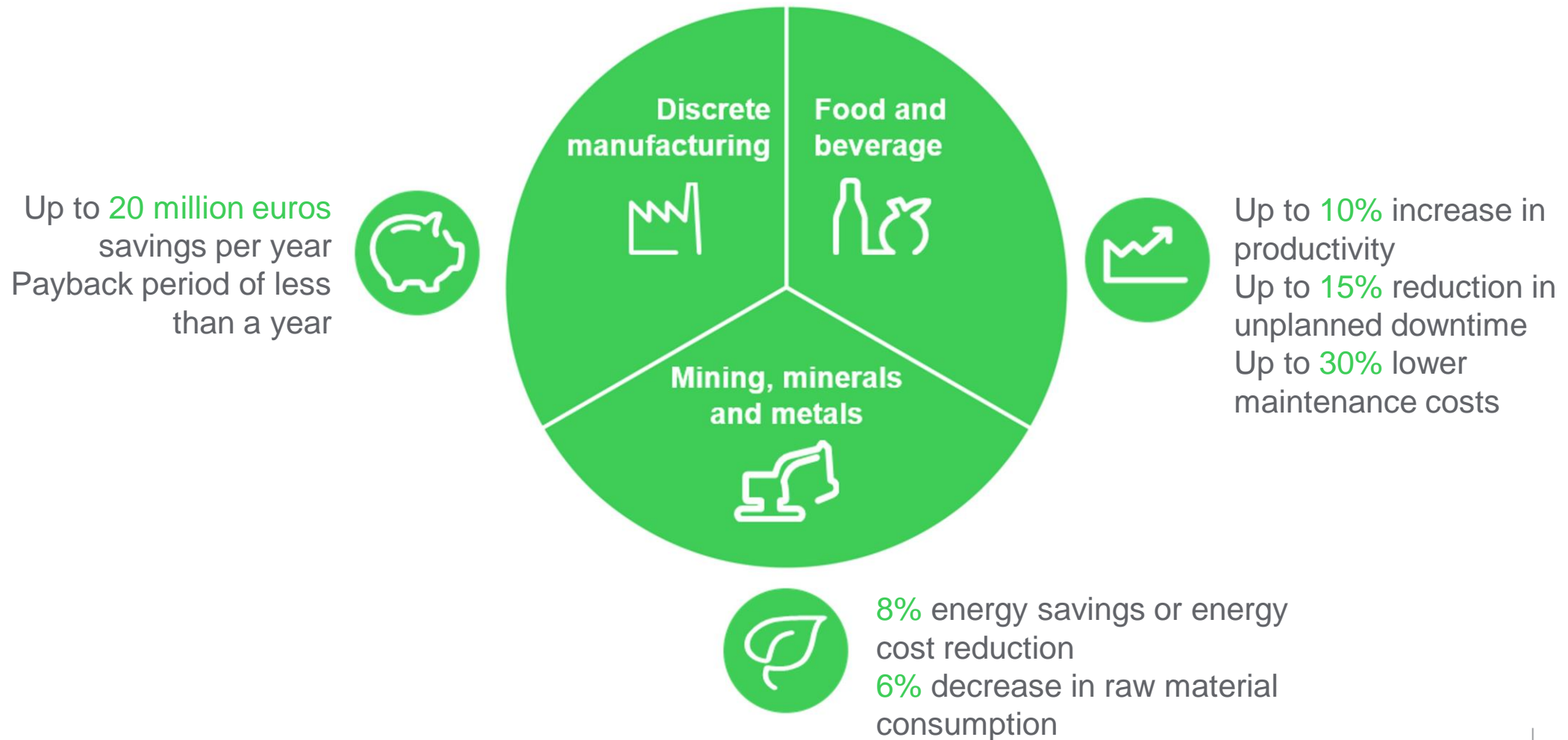


## Improved Performance

EcoStruxure Plant Advisor improves productivity, delivering significant operational cost savings and lower maintenance costs, with a tangible impact on the bottom line. Staff have access to all the KPIs they need to make faster, higher quality decisions



# Proven customers benefits with EcoStruxure Plant Advisor delivered in 200+ sites and used by 50,000+ users



# Q&A



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# Prepackaged applications solve client specific pain points including...

1

## Improve site efficiency with a control tower (application)

Share real time vision of performance KPIs at different levels of aggregation (Line, Site, Enterprise) to improve site efficiency such as productivity and quality. Benchmark factories and share best practices across the organization.

▲ + 3% throughput

▼ - 4% manufacturing & material costs

Implementation time: 4 - 6 months

4

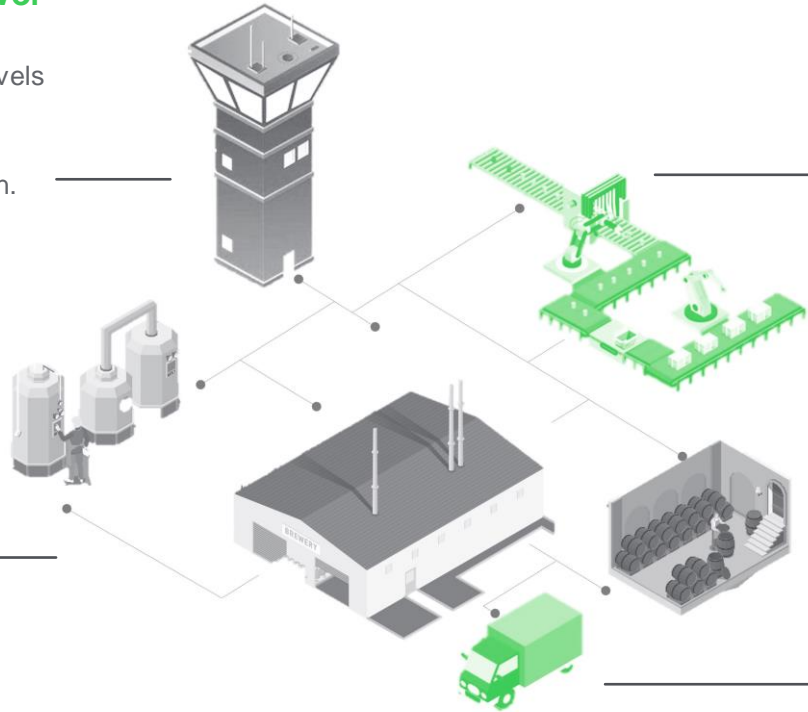
## Data driven optimization of your operations with App builder (design tool)

Leverage data from multiple machines, systems and sites to build your own IIoT app and get the right insights to optimize your business with little to no coding in a matter of days

▼ Reduced development time

▲ Increase operations efficiency

Implementation time: 1 - 6 months



2

## Follow asset health and prevent incidents with Live View (design tool)

Stay informed 24/7 about operational performance of machines. Improve specific process quality and productivity in real time. Get alert, visualize and validate key physical signals to prevent breakdowns and drifts.

▼ - 7% maintenance cost

▲ + 7% increased quality

Implementation time: 3 - 6 months

3

## Make dosing of product more efficient with Smart Dosing (application)

Remotely run process simulation so the best chemical usage and associated process parameters can be confirmed for site(s) pumping systems, improve process efficiency, reduce environmental impact and increase customer satisfaction in real time.

▼ - 10 % chemical / product used

▲ Increased quality and reliability

Implementation time: 2 - 4 months



# Prepackaged applications solve client specific pain points including...

1

## Optimize ore preparation operations with Mining Process Intelligence (MMM)

Create a corporate intelligence environment to analyze and optimize mining operations. Create a central service bureau capable of performance forecasting and monitoring of operations

▼ Energy and water consumption

▲ Throughput and quality

Implementation time: 3 - 6 months



4

## Make cleaning of assets more efficient with Clean In Place (CPG)

Create a corporate intelligence environment to analyze and optimize CIP with analytics and drill down. Follow hygienic standards and regulation while minimizing cleaning time and use of water and chemicals.

▼ - 20% cleaning time

▼ - 30% environmental footprint

Implementation time: 3 - 6 months



2

## Increase transparency and accelerate recalls with Track & Trace (CPG)

Follow products and share information as they move along the Supply Chain (ingredients, supplier, nutritional value, allergens, etc). Act with precision when a product lot need to be recalled by seamlessly finding their location.

▼ - 9% in supply chain planning

▼ - 10% recall costs

Implementation time: 2 - 4 months

3

## Regain control of your product data with Product Information Mgt (CPG)

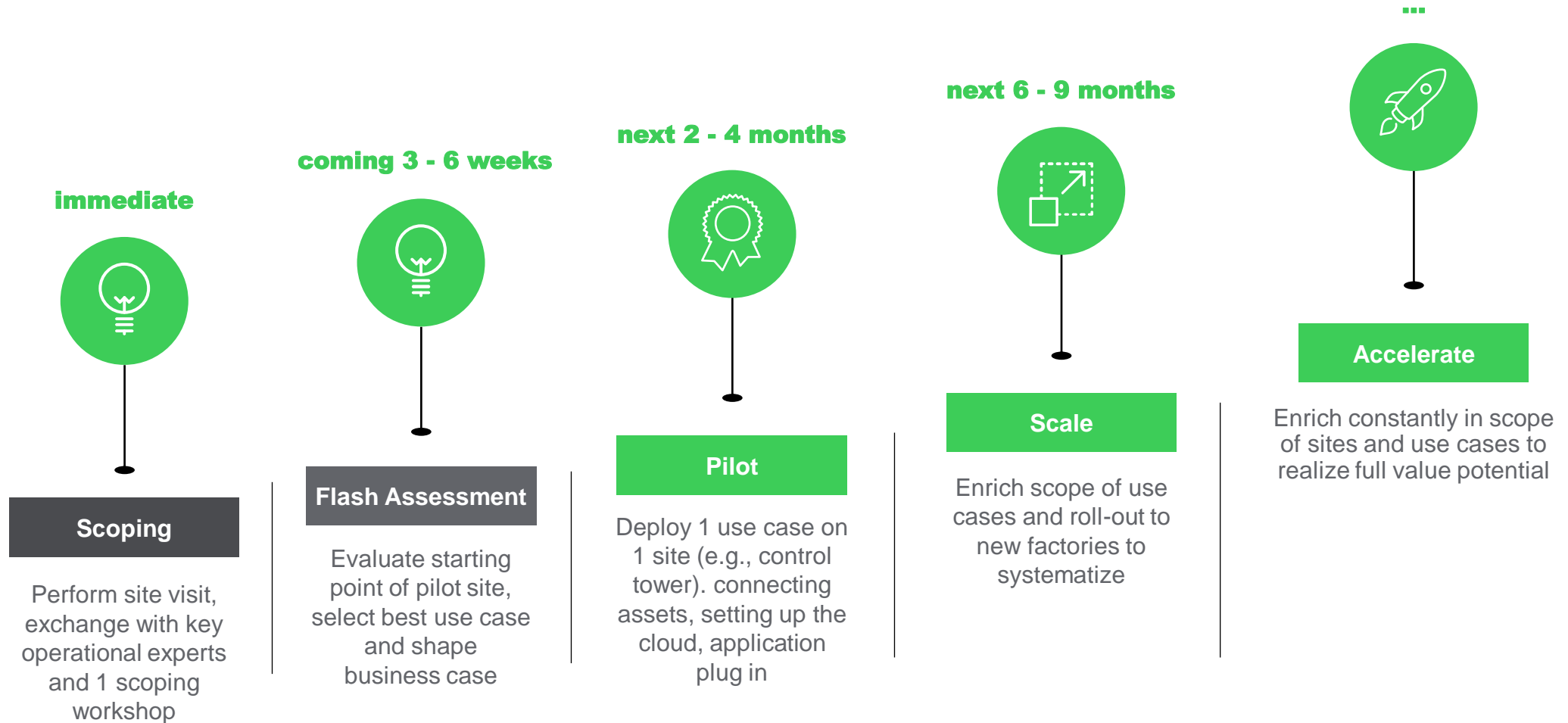
Building a single source of truth for your product data, PIM streamlines data across information sources and retailer channels.

▼ Up to 70% reduction in labor costs

▲ +20% data accuracy

Implementation time: 2 - 4 months

# Plug and play features allowing for a fast implementation



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