



EcoStruxure's integrated architecture serves four end markets with its six domains of expertise



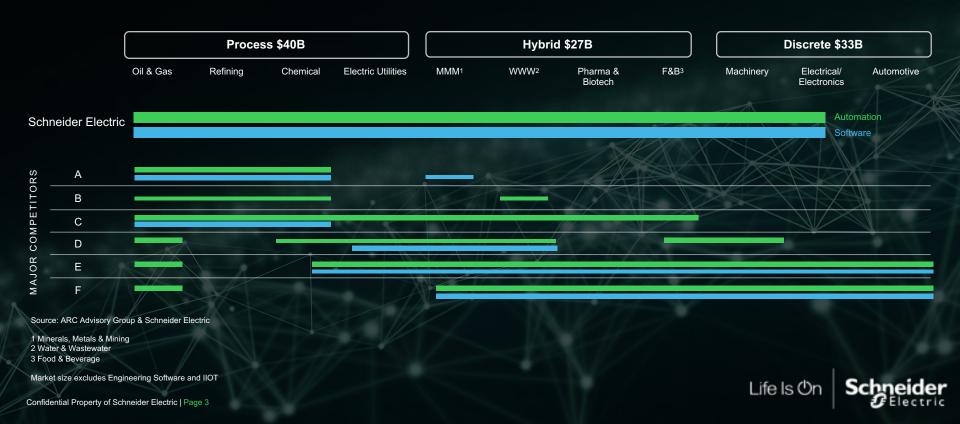
EcoStruxure EcoStruxure EcoStruxure EcoStruxure EcoStruxure EcoStruxure Building Power IT Machine Plant Grid





We are a full liner in automation

Leading in process, hybrid, and discrete



We are leading the digital transformation

of today's growing industrial automation markets...



4% growth*

Industrial automation

\$1 billion

8% growth*

\$20 billion Industrial Engineering Software Traditional automation markets return to growth

IIoT services create new opportunities

End-to-end integration driving software expansion

Ecosystem adding value

*3 year CAGR, 2017-2020

Sources: ARC Advisory Group, Cambashi, IDC, IoT Analytics, Schneider Electric





EcoStruxure for Industry:

Building upon our industrial product business leadership

We start with smart products that connect our customers

25%

of R&D on software for connected products

>50%

are connected offers

#1 Control & Signaling

#1 LV motor control components including LV drives

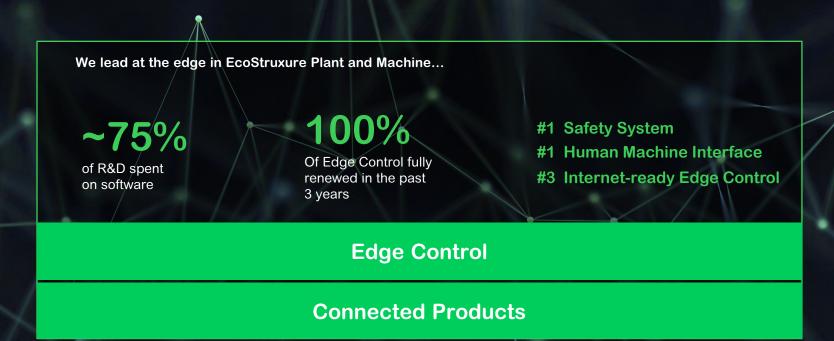




Connected Products

EcoStruxure for Industry:

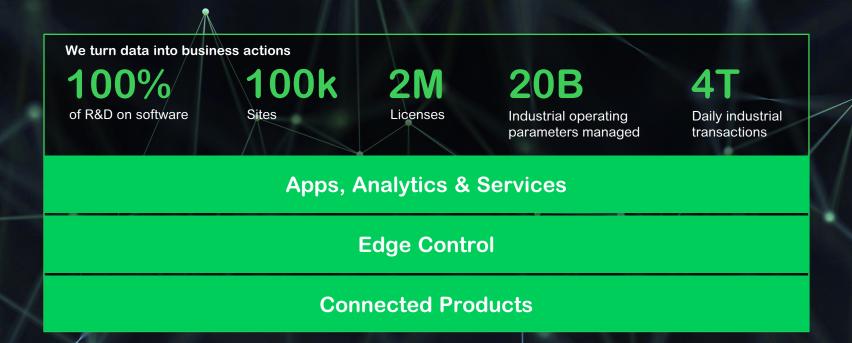
The most modern Edge Control portfolio





EcoStruxure for Industry:

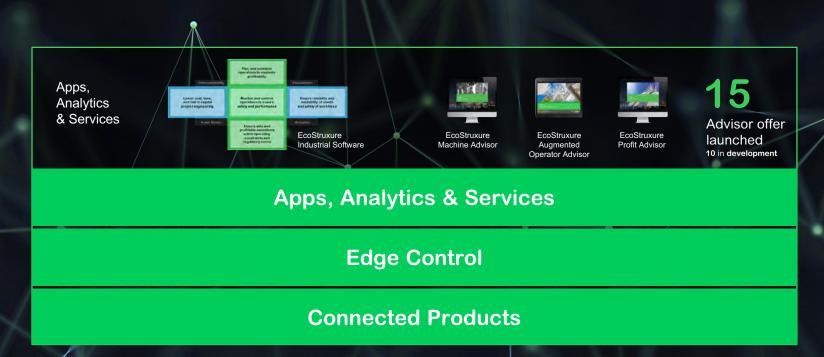
Transforming to cloud and subscription, driving IIoT services





Software transformation is here

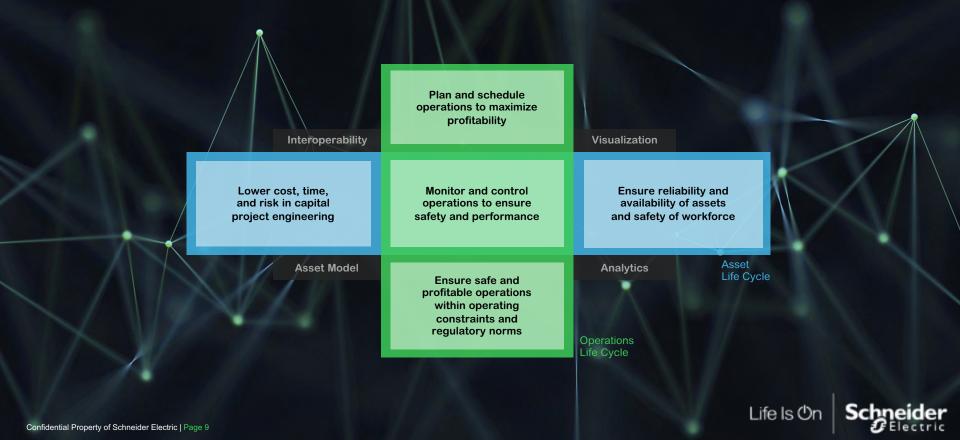
Horizontal software integrates and becomes the foundation for vertical IIoT services





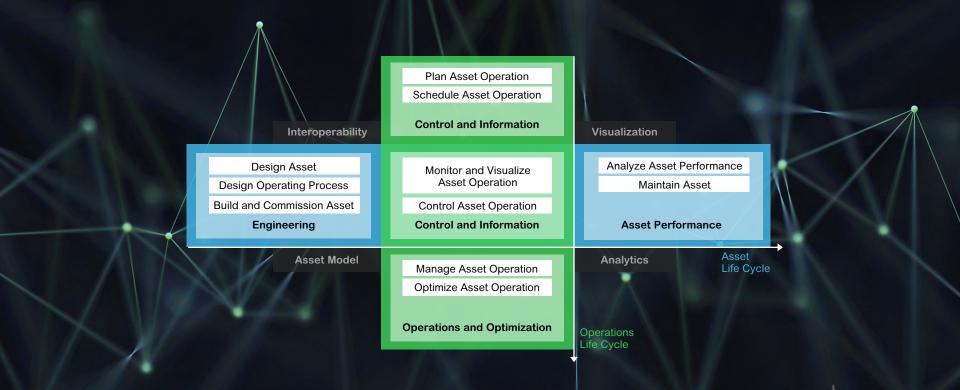
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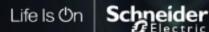
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Software transformation is here

Horizontal software integrates and becomes the foundation for vertical IIoT services

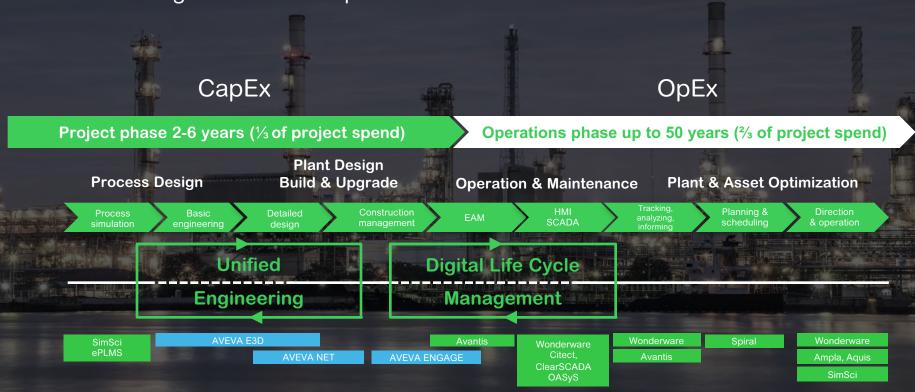




End-to-end software brings efficiency in CapEx and OpEx cycles

This means a long-term relationship with the end user CapEx OpEx **Project phase Operation phase** Design Build Operate Maintain

End-to-end software brings efficiency in CapEx and OpEx cycles This means a long-term relationship with the end user









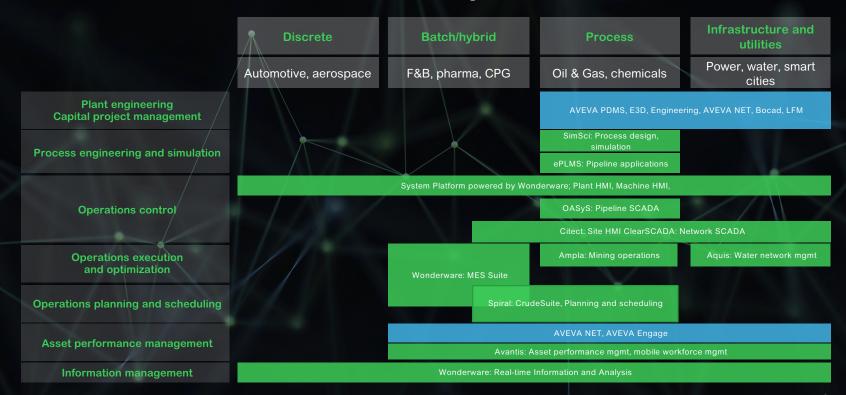
By having a consistent digital representation of the process asset during conceptual engineering and the detailed engineering phase of the value chain, KBR is estimating a potential cost savings of up to \$4 million for a real live engineering problem, where the exact replica of a plant design required minor changes in conceptual engineering which had a ripple effect later in the life cycle. There is the possibility of even larger benefits if the same digital twin could be reused later on for operations and maintenance purposes." John Derbyshire.

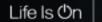
John Derbyshire, President of Technology and Consulting, KBR



An end-to-end product portfolio

with unmatched market and functional coverage







Added customer value depends on an open architecture platform, a partner ecosystem, and connection to the cloud

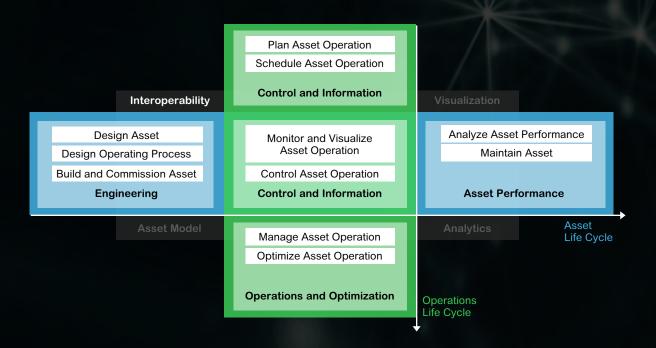
4,200 system integrator partners

5,700 certified developers

160 technology partners

~10

apps developed per partner per year





A tasteful combination for innovative dairy products

Eker Dairy Products, Turkey



Challenges:

- Create a software solution that would enable Eker to standardize its operations and manufacturing
- Develop templates that would make it flexible to create scalable and modules across its manufacturing facilities
- Record historical information/data

Solutions:

- System Platform 2017 powered by Wonderware
- Operations Management Interface for System Platform
- InTouch HMI (Remote Client) powered by Wonderware
- Process Historian powered by Wonderware





Video EKER Success Story

https://youtu.be/bkKC5TPLywk



IIoT services and new business models



Expansion of system platform

beyond control and information to create common view across asset and operations life cycles



Integration

of industrial and engineering software creates benefits for CapEx and OpEx cycles



System Platform ecosystem

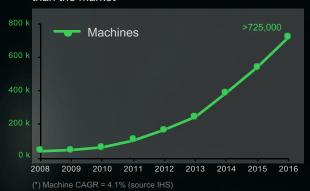
of developers driving tens of thousands of new apps each year in hybrid and continuous





Machines

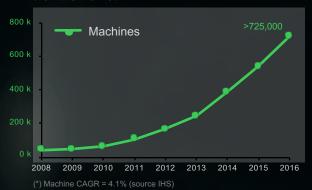
EcoStruxure Machine is growing **4x** faster than the market*

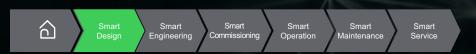




Machines

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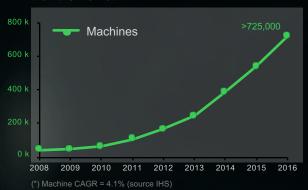


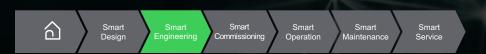


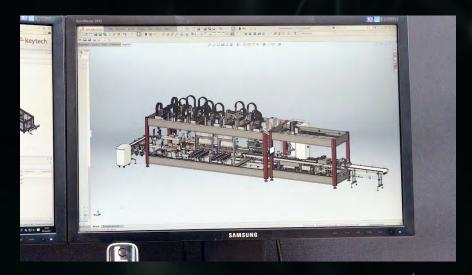


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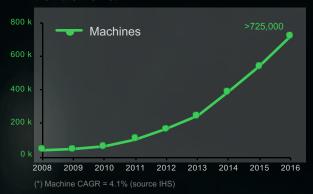




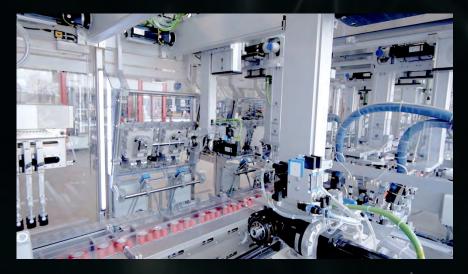


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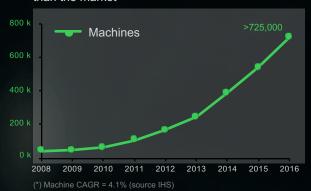






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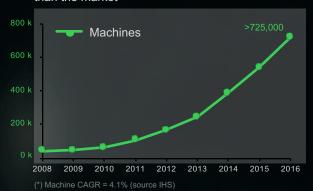


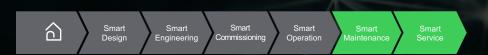




Machines

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Operational excellence as a service

Startup, Australia



Eco Ftruxure for Mining, Minerals & Metals

Challenge:

Remote mine and mineral processing operations delivering process and business

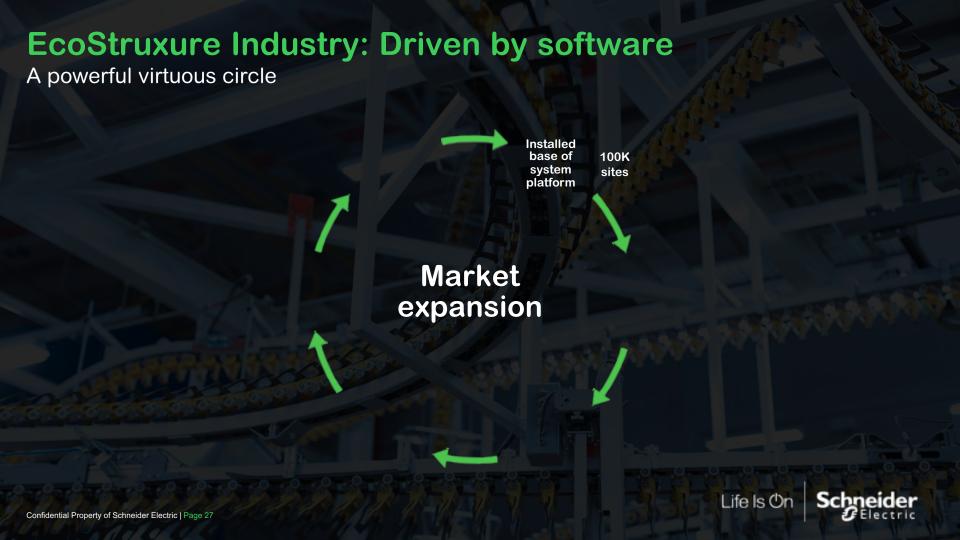
Solutions:

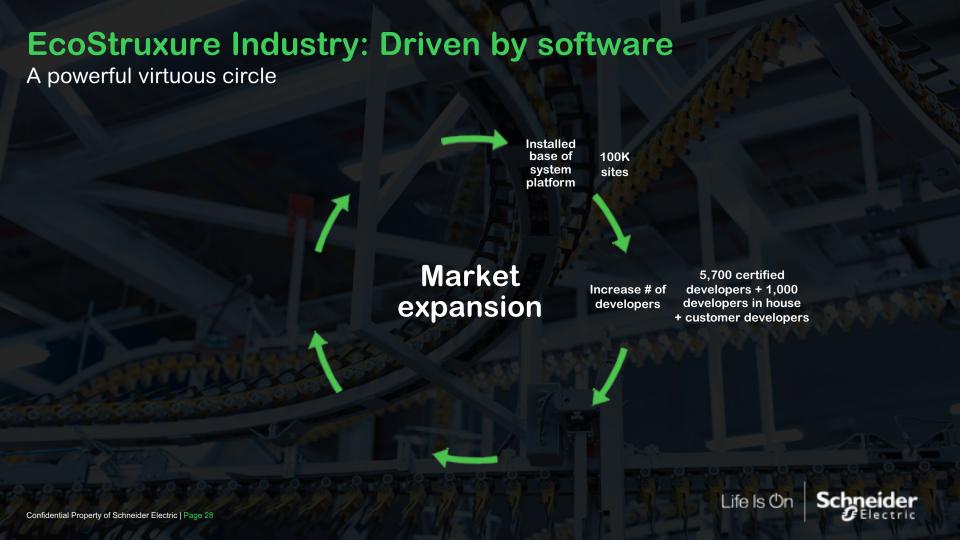
- **Enterprise Historian (previously Wonderware** eDNA): Enterprise-wide real-time data management software platform for maintaining data segregation between each customer
- **Workflow Management (previously** Wonderware Skelta BPM): Business process management software that provides seamless integration with eDNA and is used to automate business processes/workflows











A powerful virtuous circle

Market expansion

Increase # of developers

100K

sites

5,700 certified developers + 1,000 developers in house + customer developers

More applications on the market

Installed base of

system

platform

>40K (or up to 10 apps annually per SI)





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Efficiency gains, reduced cost, energy savings

Value increases for customers

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A powerful virtuous circle

4M+ managed assets 20B industrial parameters managed More assets connected and managed

Installed base of system platform

100K sites

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Digital twin of assets and processes

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End-to-end cybersecurity always part of EcoStruxure



EcoStruxure Building EcoStruxure Power EcoStruxure IT EcoStruxure Machine EcoStruxure Plant **EcoStruxure Grid**



A comprehensive approach to cybersecurity

Solution offering

Consulting, Design, Integration, Training, and Managed Security Services

Security Information & Event Management, Compliance, Change Management, Whitelisting, Big Data Security, Firewalls

Secure delivery of project and services during product or system deployment

Buildings

Data Centers

Industry

Infrastructure

Schneider Electric's core offering - Right security features

Secure Development Life cycle (SDL)

Greater product security



Comprehensive defense with in-depth cybersecurity offering

Securing the operational life cycle





Risk assessment and cybersecurity control

Large oil company, Dubai, UAE



Challenges:

- · Aging plant infrastructure
- Multiple industrial control system vendors
- Government mandating security compliance
- Lack of security expertise

Solutions:

- Security services: Risk assessment and gap analysis, system hardening
- Virtual host security controls: Endpoint protection, performance monitoring, patch management, disaster recovery
- Network security controls: Dedicated plant information network, next-generation firewalls, secure corporate DMZ interface





Schneider Electric: Power and automation customers

















































Schneider Electric: Power and automation customers

Solution:

- Integrated Control and Safety Systems
- FARs (Automation houses by EHouse)
- Industrial Software

Competitor:

Major DCS supplier

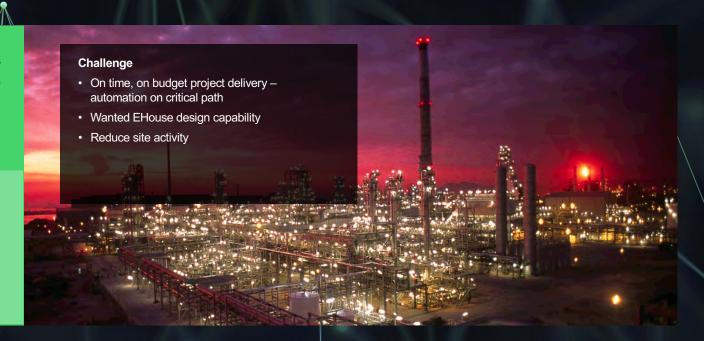
Benefits:

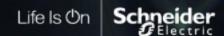
Project execution risk reduction

Size of the project

As sold: \$55M

Now: \$110M





Schneider Electric: Power and automation customers

Solution:

- Project Management (MAC style)
- LV/MV Boards and Transformers
- M580 PLC and Industrial Software
- VSD, Inst. & Field Devices
- Electrical Installation & Commissioning

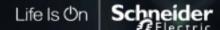
Competitor:

- Major PLC supplier
- Major DCS and power supplier

Benefits:

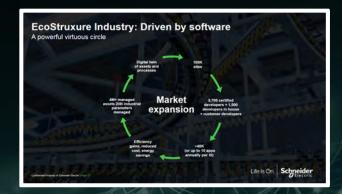
- EcoStruxure architecture delivered the best Total Cost of Ownership in water
- Single vendor/proven integrated solution (TVDA) minimized schedule risk to the constructor





6 foundations

are driving our success in the digital space



1

One IoT-ready architecture and platform

2

One Edge

3

Digital life-cycle management

4

Domain and segment expertise

5

Large digital services portfolio

6

Open partner ecosystem



IIoT paired with horizontal software transforms automation market

The digitalization of Industry – with Schneider Electric well positioned to lead



A full liner in automation for discrete, hybrid, and process



A leading processcentric horizontal software player driving end-to-end digitalization



Transforming
leadership from
HMI/SCADA
platform to 'system
of systems' IIoT
platform powered
by Wonderware



Ecosystem built on renowned Schneider Electric partner network – automation distributors, technology partners, system integrators, and developers



EcoStruxure
architecture
enables an easy
way to get started
and cost-effective
scaling to achieve
IIoT benefits



Life Is On Schneider