POWERING THE DOGLAC TRANSFORMATION 2017

Life Is On



DIGITAL is the only solution to efficiency









DIGITAL is everywhere and accelerates to "THINGS"



 ~5Bn people with a mobile phone (out of 5.5bn above 14yr old)

 2.8Bn smartphone penetration

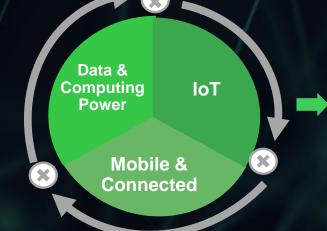
- 8 hours per day on Internet spent by an individual (top 9 countries with highest usage)
- 90% of data created in last 2 years
- 50Bn devices connected to the internet by 2020

~\$6Tn will be spent on loT solutions over the next 5 years
~\$11.1Tn a year in economic value from loT

• ~ 4.5Mn individuals identified as IoT developers



Combination of Digitization and Decentralization disrupts Efficiency

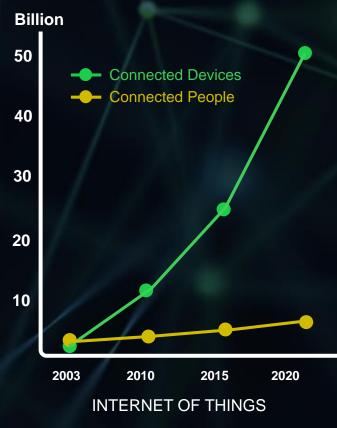


Connected Mobile first Cloud first Al first

Decentralized generation

Renewable Storage Power Electronics Smart grid





Source : Cisco, Internet World Statistics



ACCELERATION

Driven by pervasive penetration of **MOBILITY & ANALYTICS**



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ACCELERATION

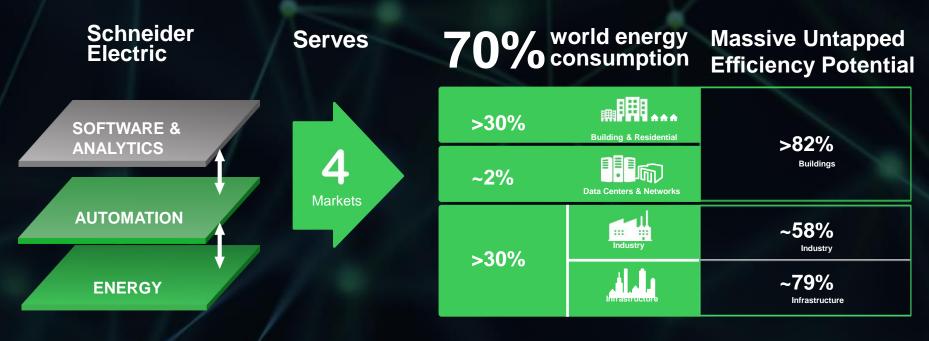
Driven by pervasive penetration of **MOBILITY & ANALYTICS**

ENERGY & PROCESS

CONVERGENCE COPTIMIZATION







Source: World Energy Outlook 2012, OECD / IEA, Internal analysis



Digitizing energy and automation economy

More ELECTRIC

2X faster growth of electricity demand compared to energy demand by 2040

More DIGITIZED

20X more incremental connected devices than connected people by 2020

More DECARBONIZED

82% of the economic potential of energy efficiency in buildings and more than half in industry, remains untapped

Source : World Energy Outlook 2012, Internal Analysis

More DECENTRALIZED

70% of new capacity additions will be in Renewables by 2040

Schneider

Source : IEA WEO 2014

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Return On Investment disrupted due to Digitization

BUILDING 30% energy cost reduction minimum

4X shorter payback with active energy management DATA CENTER

Up to 50%

reduced project integration costs

INDUSTRY

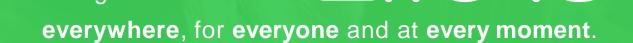
Up to **30%**

operational efficiency improvements



Source: Schneider Electric Customer Projects

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Life Is Un when life is...

ENERGIZED

+50% energy consumption by 2050 due to urbanization, Industrialization, digitization

Electricity to grow twice faster than energy consumption

2.3Bn people do not have either access or reliable access to electricity

EFFICIENT

3x efficiency needed to solve climate change

82% of untapped energy efficiency in buildings

50% of untapped energy efficiency in industry

CONNECTED

- **10x** more incremental connected devices that incremental connected people by 2020
- **30Bn** connected things by 2020
- Software runs everything

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Sources : Industry Reports

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Schneider Electric, the leader in digital transformation of energy management and automation

€24.7Bn

FY 2016 revenues

~ 5%

of revenues devoted to R&D

~150K

people in 100+ countries



Eco ftruxure Machine brings benefits throughout the machine life cycle

Commissioning & Operation

Design & Engineering

Smart DesignReduce time-to-market using

simulation technologies

Smart Engineering

- Increase quality and efficiency
 - by automating routine tasks

Reduced time-to-market

Smart Commissioning

 Easy commissioning through web visualization and mobile devices

Smart Operation

- Seamless integration of machines
 - to IT using open standards
- **40%** Faster machine integration

Maintenance & Services



Smart Maintenance

Enhance maintenance efficiency with faster information tracking

Smart Services

Use digital cloud services to track and monitor your machine worldwide

50%Time savings for corrective actions



Which plant, building, machine will not be CONNECTED

in the next five years?



Augmented Operation – Augmented Reality



- Open the electrical cabinet doors virtually
- Fast diagnostics

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- Extended diagnostics
 - : Device status check: Values of variables: Access to documents

OTS (Operator Training System) – Virtual Reality Software

- Enhanced Virtual Reality
- Situational Awareness

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Schneide

 Emergency situation handling process

Ecourter and Struxure Architecture, serving 4 End Markets, with 6 Domains of Expertise

·									
0 0 0 0	EcoStruxure Architecture		Buildings	Data Center	Industr	ry In	frastructure		
	End to End Cybersecurity	nd/or nise	Apps, Analytics & Services						
		Cloud and/or On Premise		Edge Contr	ol				
		οö		Connected Pro	ducts				
	EcoS Build	truxu ling	re EcoStruxure Power		coStruxure achine	EcoStruxui Plant	re EcoStruxure Grid		
	- 11 -								
						Life Is	On Schneider		

Which plant will not be EF and gradually Gradually OUS





BAOSTEEL

"With Schneider Electric's expertise in energy management and automation, the 1580 hot rolling wise workshop will see significant improvement in engineering control, efficient operation, safety and reliability, and intelligence operation. When the project is completed, it will become the first truly unmanned hot rolling workshop in China."

BaoSteel representative

The Results: Life is On with...

Daily capacity will increase to 10,500 tons,

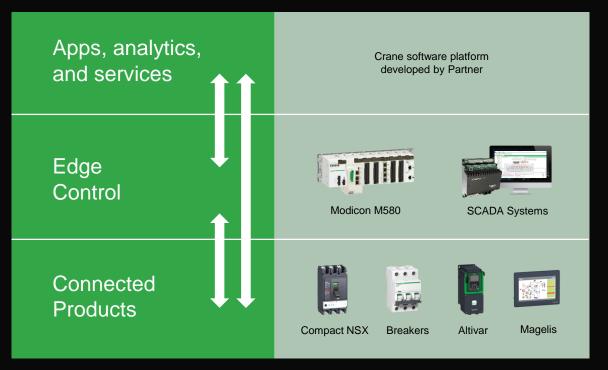
up to 30 % improvement on productivity.







for Industry





The Edge (Deloitte)

The world's most sustainable office building



- Leverage single IP backbone for all building ecosystems
- Improve occupant control room comfort via smartphone
- Access building data via simple dashboards

The Results: Life is On with..

Awarded highest score ever by Building Research

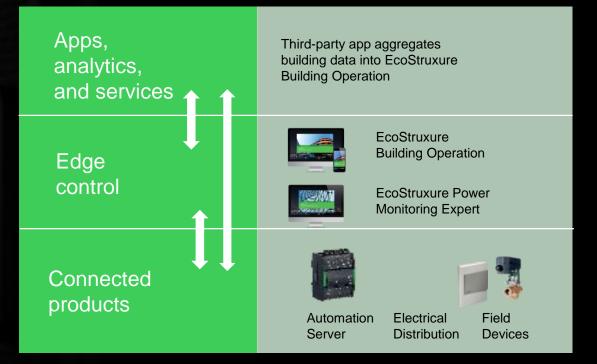
Establishment (BRE) 98.0







for Building





Powering the DIGITAL economy with one IoT-enabled architecture

EcoSt Archite	ruxure ecture	Buildings	Data Center	Indus	try	Infrastructure		
End curity	/or se	Apps, Analytics & Services						
End to End tybersecurity	Cloud and/or On Premise		Edge Cor	ntrol				
Ğ ^m ö	ΰŌ		Connected P	roducts				
EcoStruxu Building		EcoStruxure Power	EcoStruxure IT	EcoStruxure Machine	EcoStru Plant	uxure EcoStruxure Grid		
All and						ife Is On Schneider		

Eco **F**truxure

Connect the connected to access a new wealth of capabilities



Open ecosystem of Standards and Technology partners

Growing Together with Business partners



450,000 EcoStruxure systems deployed with 22,000 system integrators and developers

20 of the largest Oil and Gas companies

of the **9** of the 10 t **Oil** largest **as Mining**, anies **Metals and Minerals**

top brands war within Food war & Beverage plan

13

100+ water and wastewater plants

R

million+ Buildings including 3 of top 5 hotel chains and approx. 40% of the world's hospitals

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10 of the world's top electric utilities

3 of the top 4 biggest hyper scale cloud providers

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the top 10 packaging machine builders



Awarded CSV Porter Prize due to Schneider Electric's sustainability activities



History

In 2016, awared 3rd Porter Prize, part of domestic local corporate of international companies in the process sector in terms of supporting energy to make sure enjoy life for remote villages

- In 2017, won 4rd Porter Prize, part of domestic local corporate of international companies in the process sector regarding Go Green in the city 2017

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