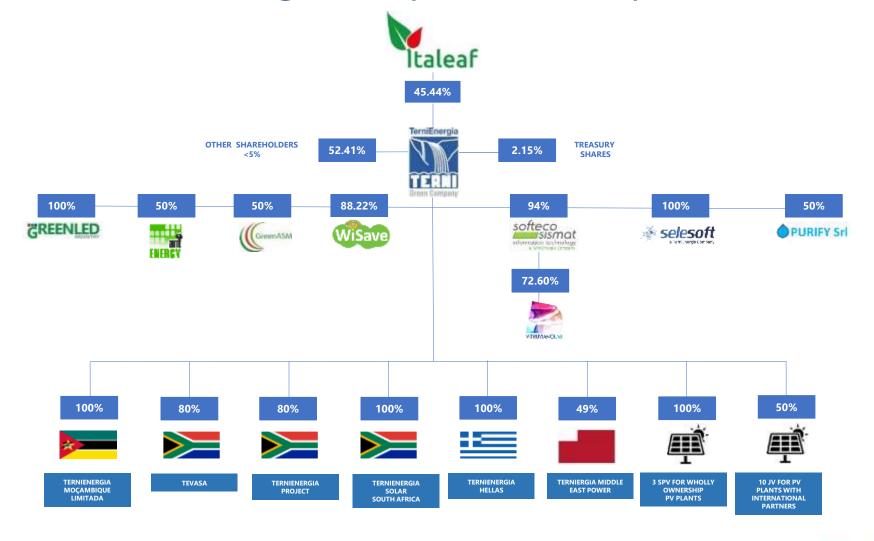


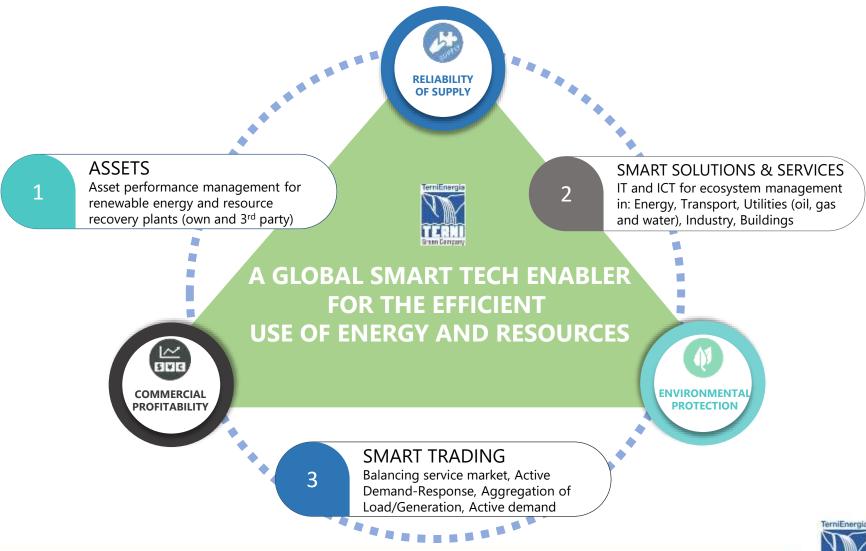
Strategic guidelines 2018-2020 Change as an opportunity

TerniEnergia simplified Group chart





Repositioning into a new playing field

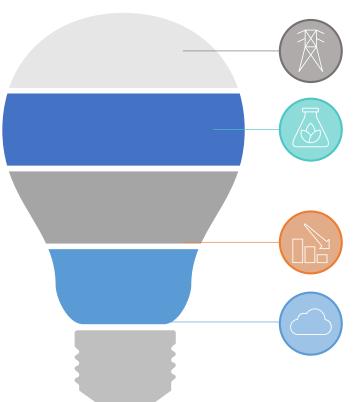




The results of Softeco and Selesoft integration

In November 2016 TerniEnergia acquired Softeco Sismat and Selesoft consulting. The digital companies provide consultancy, solutions, services and products for energy, transport and industry. These include Energy Efficiency, Building Management Systems, ERP for electricity and gas, Interruptibility, Smart Cities and Smart mobility for public and private transport

An ecosystem becomes "smart" and "sustainable" through strategic deployment of ICT solutions and services to achieve objectives on some key areas: energy efficiency, smart grids, transportation, utilities (oil, gas and water) and buildings (areas where IT intersects industry). "Exponential improvement in core digital technologies is fueling exponential innovation across industrial sectors".



ENERGY AND RESOURCE EFFICIENCY

ICT deployed to increase energy efficiency in industry, commercial, transport, buildings and beyond, including urban planning; Digital optimized water and waste management, oil & gas, etc.

CARBON NEUTRALITY

ICT deployed to decrease carbon footprint of private and public real estate, to feed distributed renewables into the grid, to optimize traffic management, to manage public lighting, etc.

COST-EFFECTIVENESS

ICT deployed to achieve savings through reduced peak energy demand, to turn consumers into prosumers, to optimize logistics; to reduce technical complexity in services, etc.

FURTHER EMERGING OBJECTIVES

such as cybersecurity, open data, interoperability, simulation, gamification, prediction, hybridization, etc.



R&I: new knowledge for new business

www.research.softeco.it



Softeco Sismat R&I Key facts

- 5-8% of company resources to R&I activities
- 90+ R&I projects since 1993
- 500+ international partners



2017 Key figures

- 12 running projects
- 8 new projects starting 2017
- Over 3 Million € new grant awarded (2017-2019)













New projects 2017

PODCAST

Smart distribution network balancing and monitoring with distributed storage and capillary smart metering data

PredICT

Model predictive energy management and control for non residential building for efficiency improvement and assessment

ANASTACIA

Security/trust assessment in IoT and distributed systems including Smart Grids

IMOVE

Mobility as a service (MaaS) piloting in Berlin, Greater Manchester, Goteborg and Turin

PROSFET

Smart city logistics training network

INCLUSION

Accessible and sustainable mobility services, piloting in Barcelona, Florence, Flanders, Cologne, Budapest, Scotland

WInSiC4AP

Smart power converters validation

ROC-POP Life

Monitoring sustainability in marine ecosystem

Digital energy

Cybersecurity

Smart Mobility

Industry 4.0

Clean environment



A flexible approach to drive strategic change

Research and innovation have a critical role to play in making TerniEnergia a smart technology enabler capable WHAT WE WERE of shaping the digital energy market and setting trends in circular economy

WHAT WE ARE BECOMING

STRATEGIC BUSINESS UNITS





LOB

ASSETS

- Power generation
- Waste treatment and recycling

LOB

- Consulting
- Solutions
- Management
- On-site engineering and operations
- Smart trading

- 2 new strategic business units
- Transitioning from EPC player to provider of onsite engineering and operations services
- Leveraging on O&M expertise (in PV and Cleantech) to become a leading asset performance manager
- Making technology central to the energy market
- Implementation of truly innovative smart energy concepts ranging from microgrids, demand respond and capacity aggregation to virtual power plants (VPPs)
- Strengthening smart energy trading activities
- Giving industry access to the latest technologies for energy efficiency (advanced BMS, software development, hardware supply, IoT)
- Providing consultancy services to allow our international partners to develop innovative solutions across industrial sectors
- Contributing to the development of smart mobility with digital, ITS and EV solutions which are the forefront of market innovation.





TerniEnergia Group's References









































































PV power generation assets









- 45 PV plants in Italy
- All the plants entirely built and operated by TerniEnergia
- 42 MW of total capacity
- 12 MW in full ownership
- 30 MWp in JV with funds, investors and industrial partners
- The total power generation is equal to around 60.4 million kWh/year
- The energy produced is sold to trading companies and to the national energy services management company (GSE)



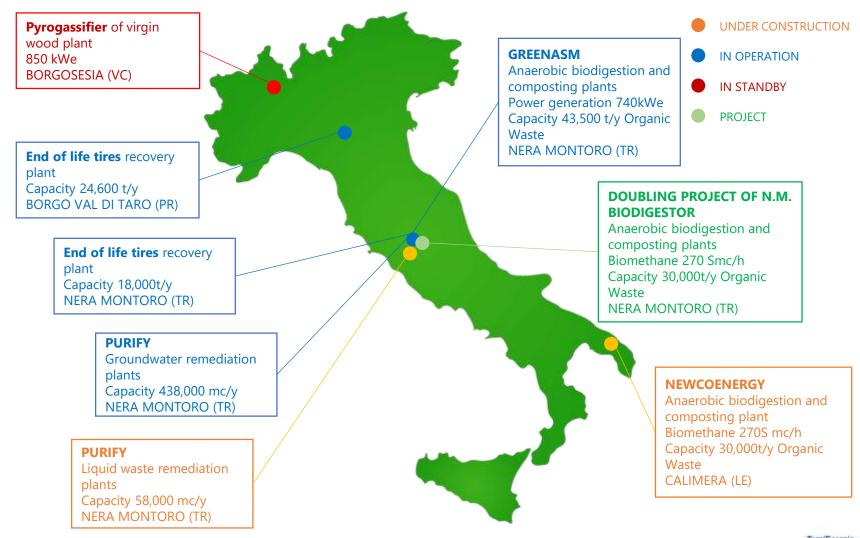








Circular economy assets







On-site engineering and operations



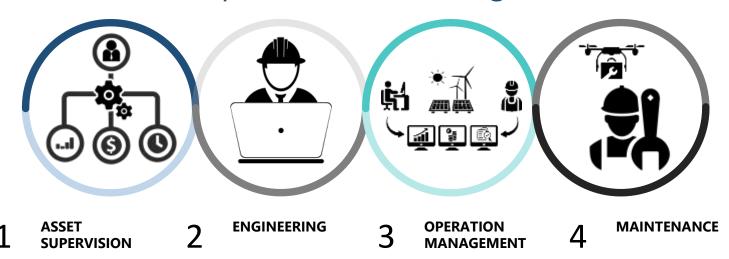
As an EPC contractor and a system integrator TerniEnergia has built over 420 MW of solar PV globally.

Two further PV plants are currently being completed:

- 10 MW PV plant in Tunisia in Tozeur, Tunisia
- 34 MW PV plant in Lusaka, Zambia

Solar PV remains an area of activity in this transitional phase from EPC player to provider of on-site engineering and operations services. These services ensure maximized energy production, minimal downtime, reduced O&M costs and, ultimately, highly performing assets.

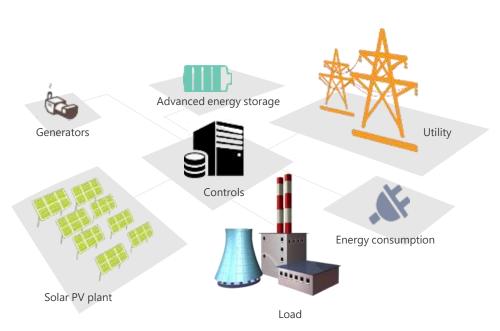
Asset performance management





Microgrids, a future TerniEnergia is ready for

As a pioneer in digital energy solutions, TerniEnergia is increasingly focusing on activities with a highly innovative technological content. By combining its considerable track record as a system integrator and the proven world class expertise of Softeco and Selesoft, TerniEnergia is perfectly prepared for the emerging microgrid market



- Intelligent energy storage, based on special weather-related or process needs;
- Full optimization of combined heating and power (CHP);
- DER functionality without a dedicated generator control system, because the EMS will dispatch only voltage and power;
- Microgrid operation based on the energy market predictions for both gas and electricity;
- Optimization of heating, ventilation and air conditioning (HVAC) through advanced control strategies;
- Minimized pollution based on sophisticated algorithms that consider CHP and displaced emissions;
- Enhanced power quality where, for example, a loss of grid power causes a seamless transfer to standalone power involving only a loss of non-critical loads within the microgrid;
- Support of the future grid through an array of ancillary services, such as voltage regulation and reserve power.



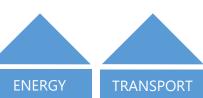
Softeco and Selesoft: the smart side of the Group

- System integration
- Smart processes
- Digital services
- IT and ICT Solutions
- Mission critical applications

CONSULTING

- Technology market partnership with leading companies
- Data Integration
- SCADA (Supervisory Control and Data Acquisition)
- Firmware and hardware development in embedded systems
- Embedded systems
- Image processing and remote diagnostic
- IoT

MARKET







BUILDINGS

VERTICAL MARKETS



SMART

Smart City Smart Grid



NGAN
Network
Engineering
Network Services



Wireless Sensor Networks (WSNs) and Internet of Things (IoT)



ENERGY & UTILITIES

Transmission Grid, Distribution Network, Process Control, Energy Efficency



INTELLIGENT TRANSPORT SYSTEM

Large Infrastructures



INDUSTRY
Process Control
Systems Oil & Gas
Data mining

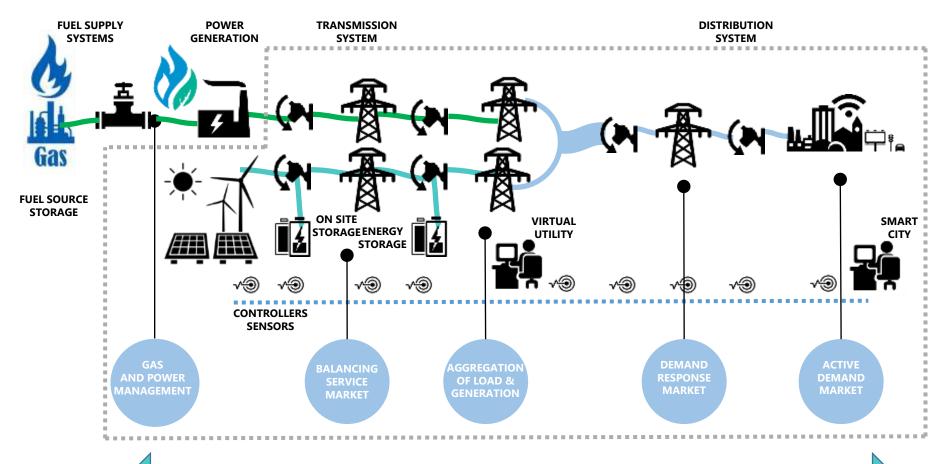


LOCAL & CENTRAL GOVERNMENT

Tailored solutions to migrate apps in a cloud environment RESEARCH & DEVELOPMENT



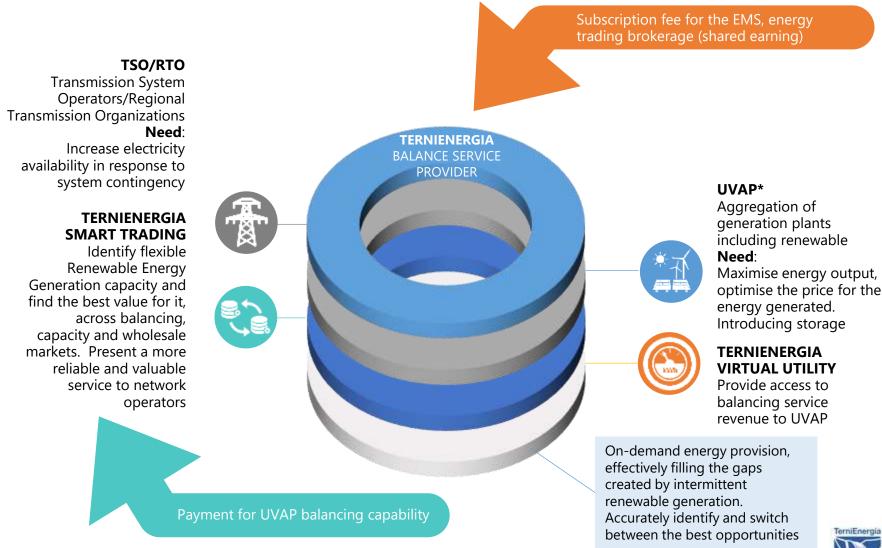
A first mover in Italian smart energy trading



MONITORING, MODELING, ANALYSIS, FORECASTING, RISK MANAGEMENT, COORDINATION & CONTROL, ACTIVE TRADING

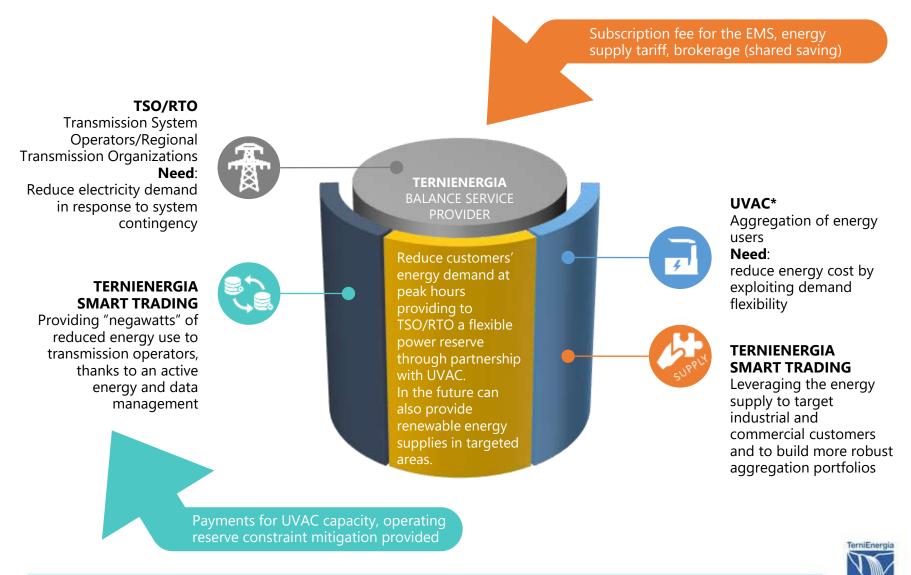


Distributed energy management on balancing





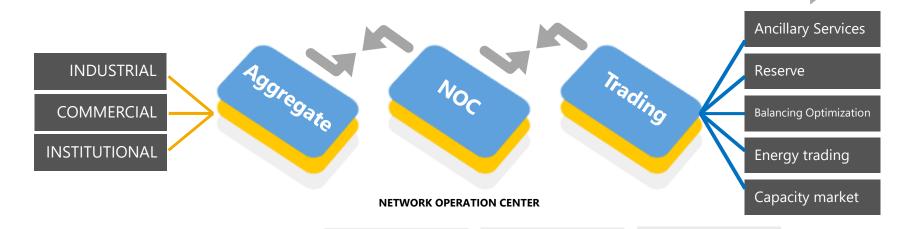
Aggregated electricity management on balancing





Demand Response and Active Demand

Collecting and trading spare electricity / MW-MWh



CONSUMERS/ PARTICIPANTS

- Factories
- Commercial
- Buildings
- Institutions
- E-Mobility

- Recruiting
- Sign-up
- Provisioning
- Maintenance

- Forecasting
- Packaging
- Monitoring
- Controlling

- Sales
- Trading
- Reporting
- Balancing mechanism

Revenue stream

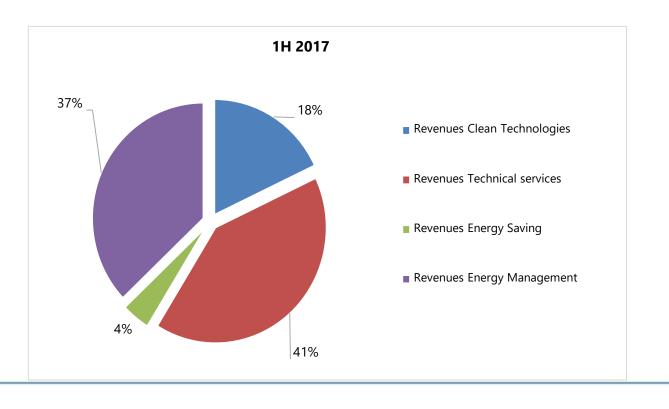




SOLID FINANCIAL FOUNDATIONS ON WHICH TO BUILD

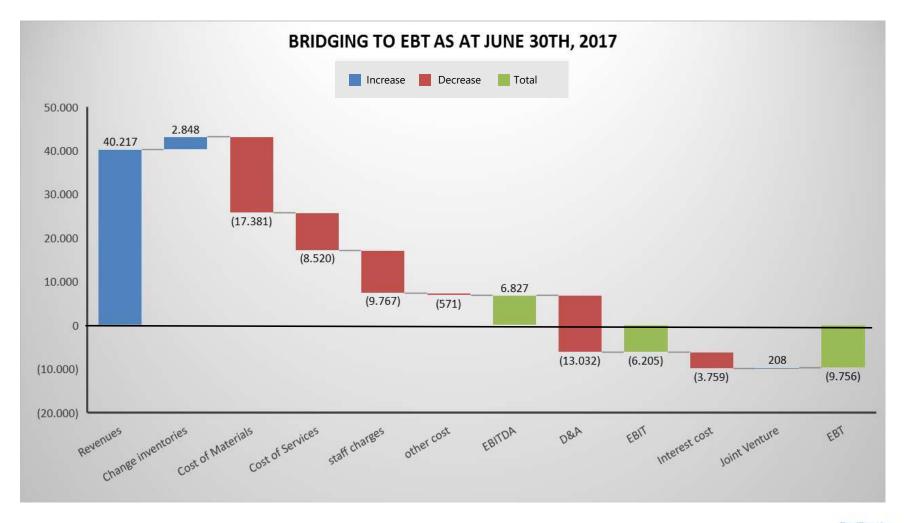
Consolidated financial results 1H 2017

(in Euro)	Six months June 30, 2017	Six months June 30, 2017	Change	Change %
Revenues Clean Technologies	7,225,074	4,572,924	2,652,150	58,00%
Revenues Technical services	16,418,668	41,423,960	-27,760,119	-61,30%
Revenues Energy Saving	1,651,989	884,954	767,035	86,70%
Revenues Energy Management	14,921,584	3,889,048	11,022,536	n,a,
Total	40,217,315	50,535,713	-10,318,899	-20.4%



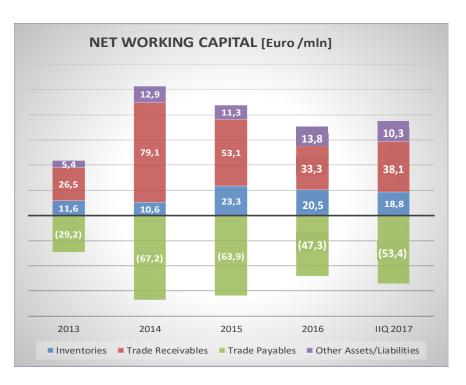


Consolidated Financial Results – Bridging To Ebt

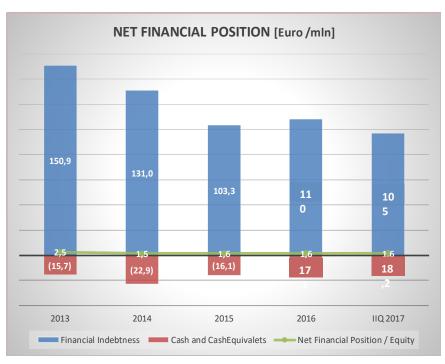




Consolidated Financial Results – Balance sheet



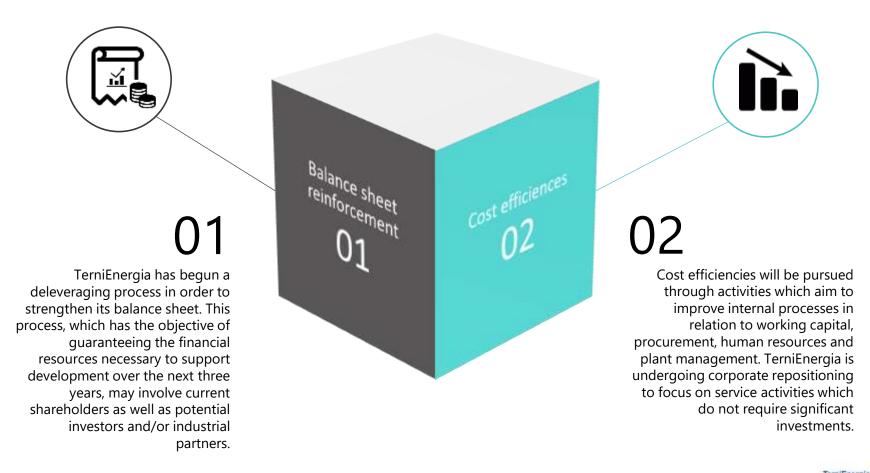
	2013	2014	2015	2016	1H 2017
Inventories	11,6	10,6	23,3	20,5	18,8
Trade Receivables	26,5	79,1	53,1	33,3	38,1
Trade Payables	(29,2)	(67,2)	(63,9)	(47,3)	(53,4)
Other Assets/Liabilities	5,4	12,9	11,3	13,8	10,3
Net Working Capital	14,4	35,4	23,7	20,3	13,8
NWC/Sales (%)	29,6%	37,2%	6,4%	24,2%	18,7%



	2013	2014	2015	2016	1H 2017
Financial Indebtness	150,9	131,0	103,3	110,9	105,7
Cash and CashEquivalets	(15,7)	(22,9)	(16,1)	(17,1)	(18,2)
Net Financial Position	135,2	108,2	87,2	93,8	87,5
Current Net Financial Position	18,2	18,3	8,0	14,7	10,9
Non Current Net Financial Position	117,0	89,8	79,2	79,1	76,6
Short Net Financial Position/ Equity	0,3	0,3	0,1	0,3	0,2
Net Financial Position / Equity	2,5	1,5	1,6	1,6	1,6



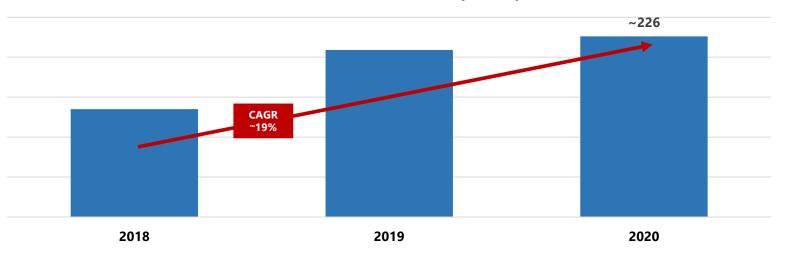
Deleveraging and cost efficiencies



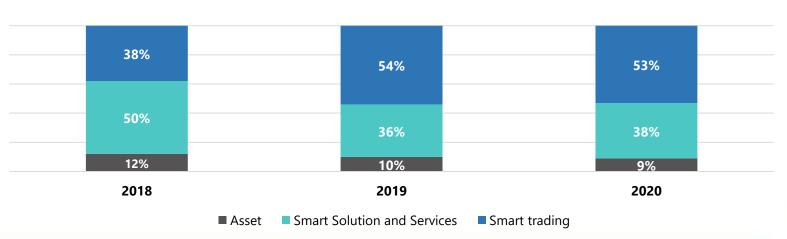


Revenue growth and breakdown

Revenue trend (€ Mio)



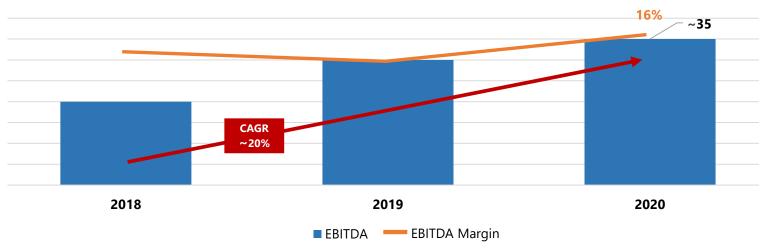
Revenue breakdown



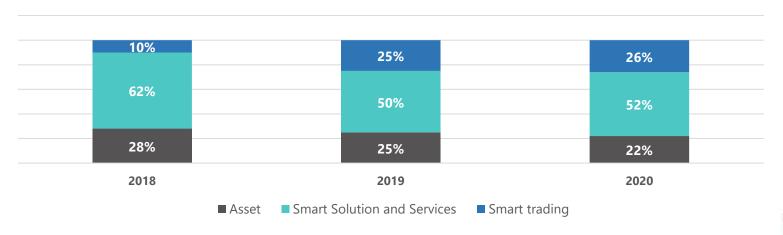


Ebitda and breakdown

EBITDA evolution (€ Mio)



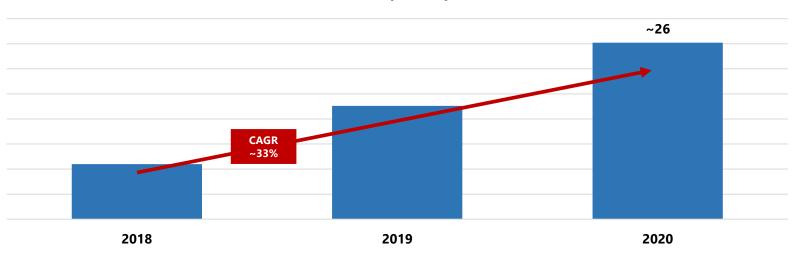
Ebitda breakdown





Ebit trend

EBIT (€ Mio)





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