

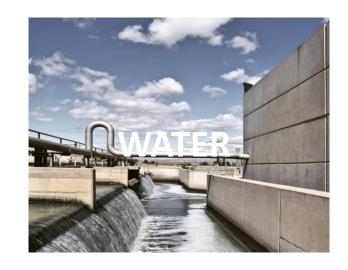




#### BUSINESS AS UNUSUAL











+38,000 employees

In over 40 countries, 5 continents

+75 years
of history ~50% family control

■ ENERGY ■ CONSTRUCTION ■ CONCESSIONS ■.WATER ■ INDUSTRIAL SERVICES

OTHERS

23% 10% 10% €1,275m €7,254m **EBITDA** 2017 57% 15% 42% Data 31.12.2017

225m In R+D+i

MOST OF THE EBITDA AND REVENUES COMES FROM THE ENERGY AND CONSTRUCTION BUSINESSES



# **I'MNOVATION**

The platform that makes real our new vision on how we innovate



Opening the company to disruptive technologies and business models from startups and partners

















Cross-leveraging the work of our **R&D** Centers, innovation teams and for boosting results





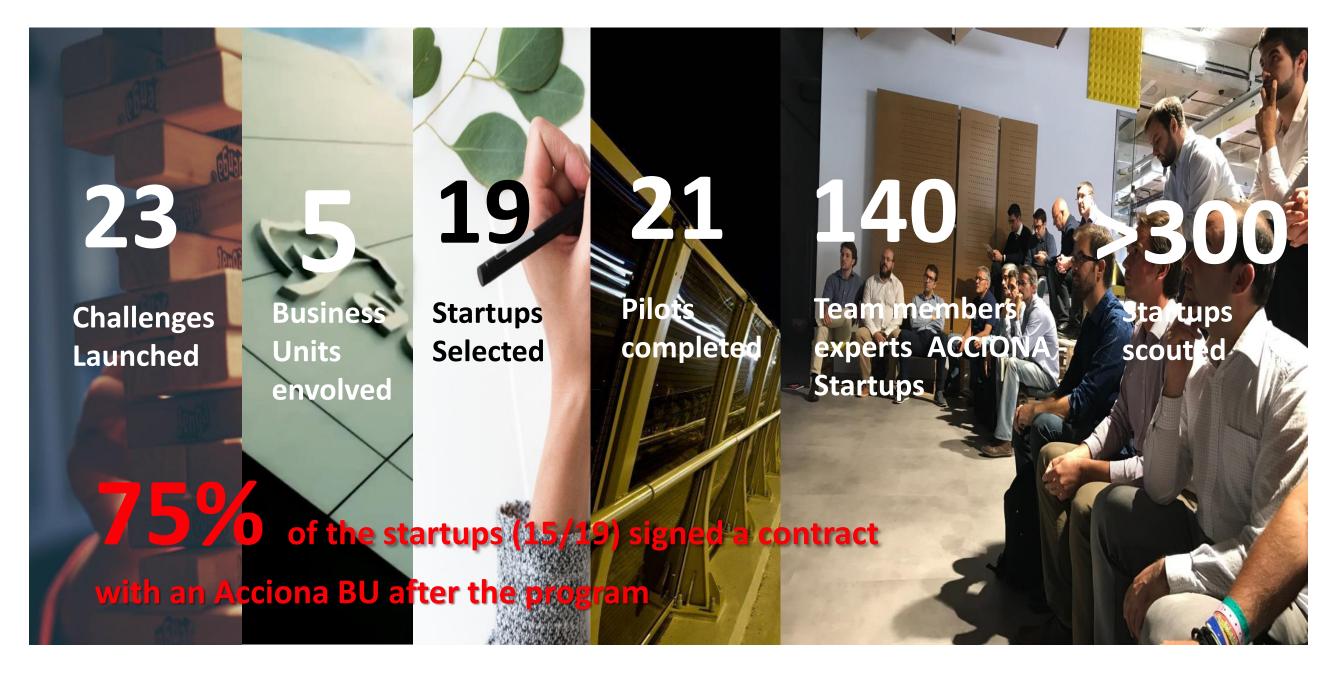




Our mission: to improve competitiveness, efficiency and generate new revenues and businesses

#### **I'MNOVATION #Startups – Last 18 months**



















## Company Profile

#### **ACEA GROUP**



One of the main multiutilities in the Italian market. Listed on the stock exchange since 1999, it is active in the management of networks and services in the water, energy and environmental sectors





#### **WATER**

- **9m** of customers
- RAB **€1,3bn**







- Electricity distribution: 1,6m PODs & RAB €1,9bn
- Public Lighting: >224k lighting points, 80% LED
- Electricity Generation: 7 hydroelectric power stations (121 MW), 2 thermoelectric power stations (97MW), 1 photovoltaic farm (9 MW)





#### **COMMERCIAL & TRADING**

- 1.3m customers
- ~6.8 TWh of electricity sold

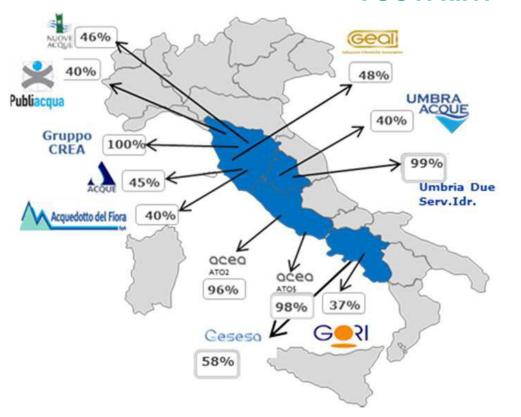




#### **ENVIRONMENT**

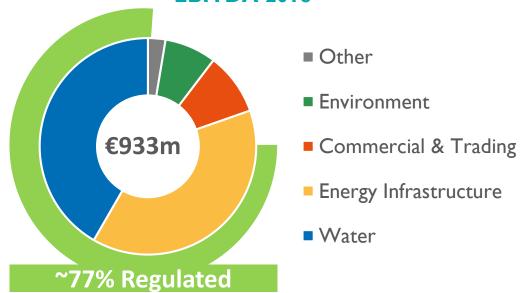
- >1m tons of waste treated
- 355 GWh of electricity produced

#### **FOOTPRINT**





#### **EBITDA 2018**





## Strategy & Consolidated Targets

STRATEGY FOUNDATION

#### STRATEGIC GROWTH LEVERS

**INNOVATION** 

**SUSTAINABILITY** 



#### **4 MAIN STRATEGIC PILLARS:**



**INDUSTRIAL GROWTH** 



**LOCAL FOCUS & SUSTAINABILITY** 



**TECHNOLOGY, INNOVATION & QUALITY** 



**OPERATIONAL EFFICIENCY** 



#### **3 STRATEGIC LEVERS:**



**CAPEX REMIX** 



**FOCUS ON INFRASTRUCTURE** 



**CAPEX DISCIPLINE** 



#### **3 GROWTH LEVERS:**



**INFRASTRUCTURE** Security & Efficiency



**PEOPLE** Welfare of personnel



**CUSTOMERS** Customer-Centricity



**CUTS IN CO2** 



(Reduced losses, Purchase of Green Energy, Recovery of Biogas)



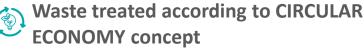
Reduction in WATER LEAKS



**GREEN ENERGY** for internal use within the Group



REDUCTION IN RISK RATING for electricity grid to boost resilience



SAFETY INSPECTIONS of maintenance



### Our Innovation Mission



Investments in innovative industrial projects, oriented by three founding pillars: Customers, the people working in Acea and the infrastructures that convey the services and guarantee the quality and reliability

**APPLICATIONS** 

#### **OPERATIONAL ADDRESS**





**Smart & Resilient Grid** 



**Smart Meters** 



**Automation and Robotics** 



**Advanced sensor technology** 



**Predictive modelling** 



**Physical security and Cyber-security** 

+€400M TO BE **INVESTED IN INNOVATION** 





- Rationalization of small treatment plants
- Upgrade network
- Smart meters

#### **ENERGY INFRASTRUCTURES**



- Drive electrification
- Increase of network resilience
- Smart Grid to enable new services

#### COMMERCIAL & TRADING



- Improvement to the customer journey
- Marketing drive through Digital and Cross Selling Channel
- Improve Customer quality

#### **ENVIRONMENT**

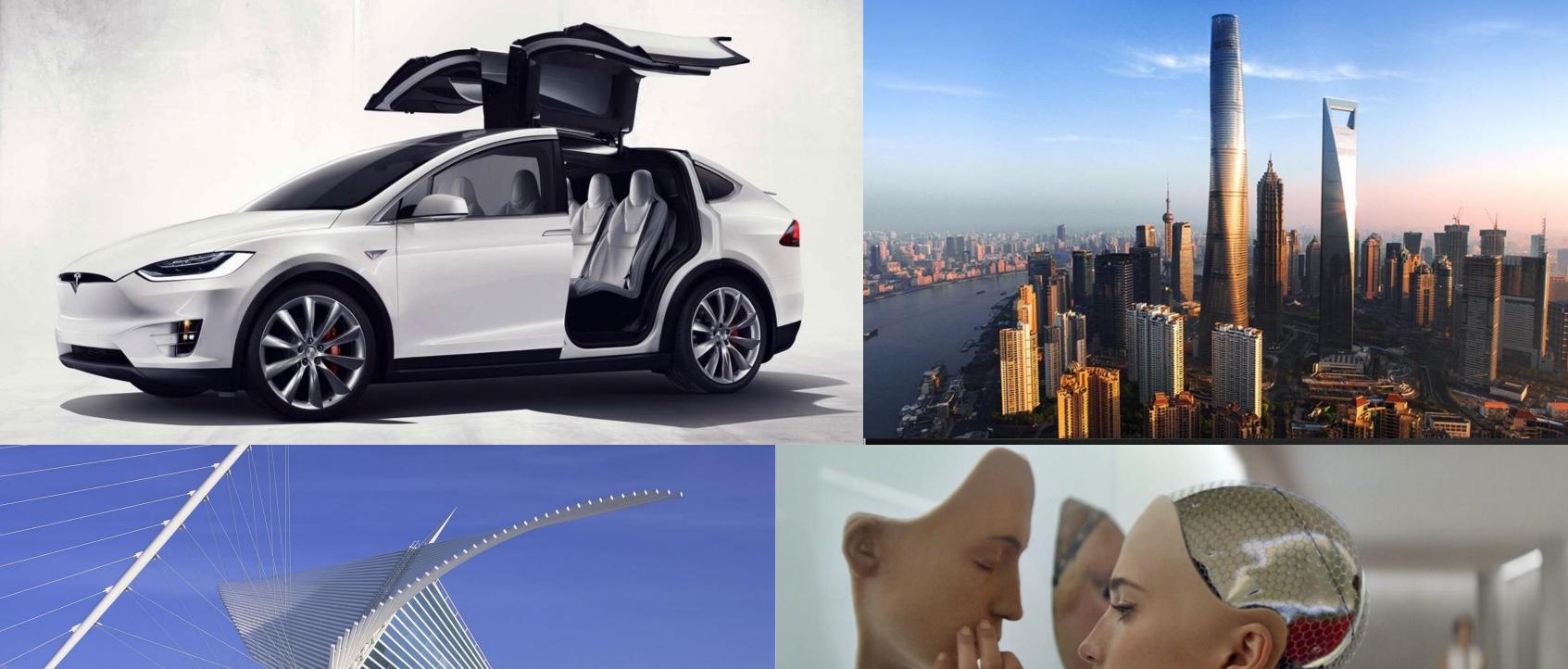


- Boost to the circular economy
- Optimization of waste treatment performance















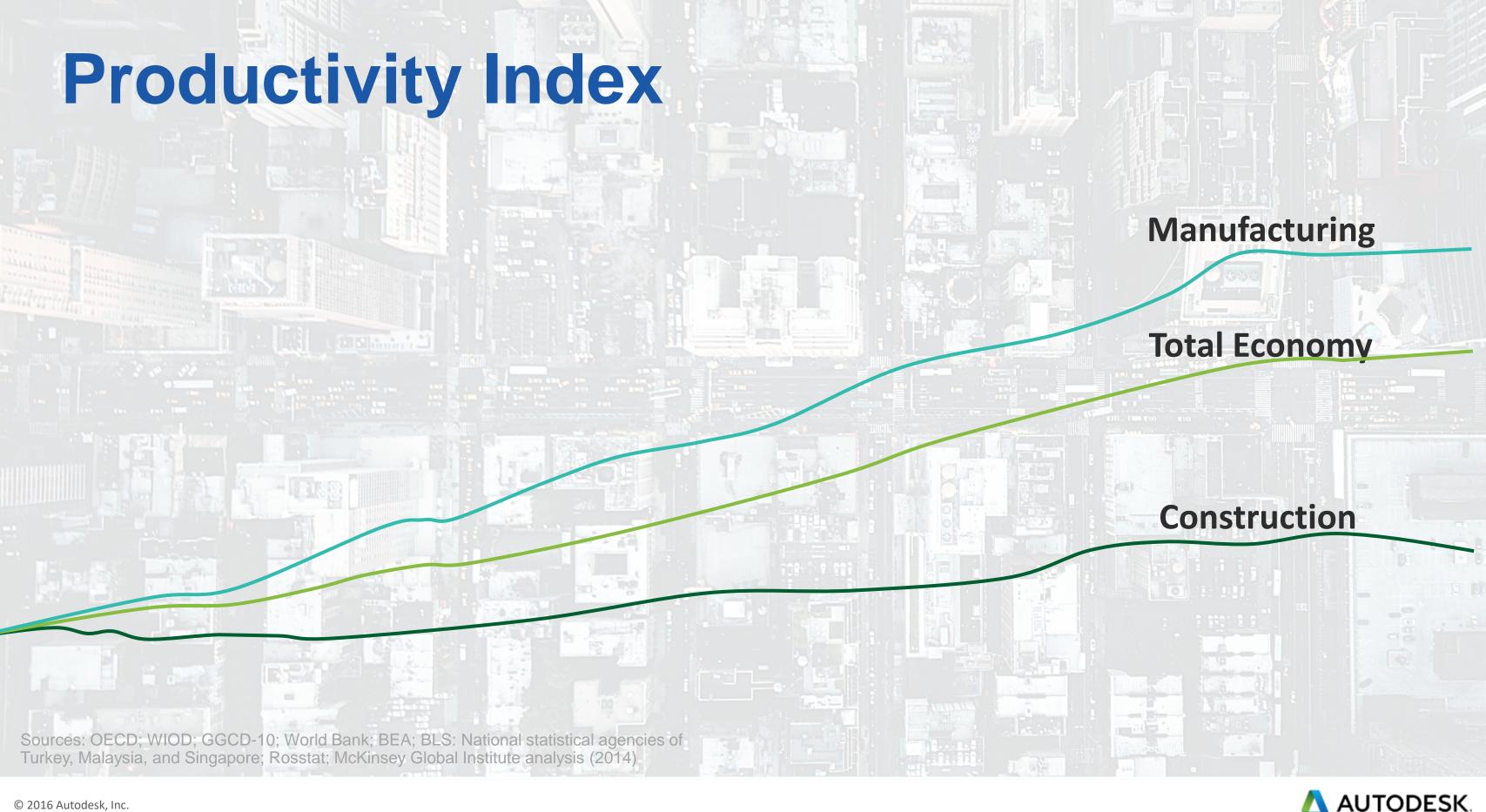
# The Future of the Construction Industry

# Transformation into the Digital Opportunities and Challenges









# Digitalization vs. IT Investment

#### INDUSTRY DIGITIZATION INDEX

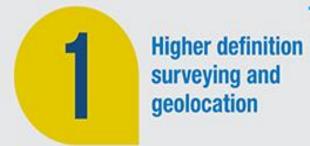


#### INVESTMENT IN IT

















5-D Building Information Modeling



3

Digital collaboration and mobility





4

The internet of things and advanced analytics





Future-proof design and construction





# **CONNECTED BIM**





# Forge Integration Partners

Implement, Integrate and Execute with BIM 360





























































































# Main Focus Areas for Digitalization



#### **Digitalizing the Design and Construction Process**

- Design to Fabrication
- **Design to Preconstruction**
- **Design to Construction**

#### **Industrialization of Construction**

- The Connected Work Site
- **Automation & Robotics**
- 3D Printing
- Connected BIM workflows (VR/AR/MR, Generative Design, Machine Learning, Reality Capturing, Simulation&Analysis etc.)
- Autonomous machinery and vehicles
- Other themes around data, blockchain (ie. Safety, Monitoring, Management & Administrative)

#### **Data focused Operation & Maintenance of Infrastructures**

- Remote control and monitoring
- Predictive forecasting and maintenance
- Advanced delivery

#### The Future of the Cities

- Design & Planning
- **Mobility & Transportation**
- Connected New Services

#### **Expectations/ROI**

- Reduce Risk and Cost, Increase Quality
- Drive Profitability, Safety and Sustainability
- Generate New Revenue Lines and Business-Models







