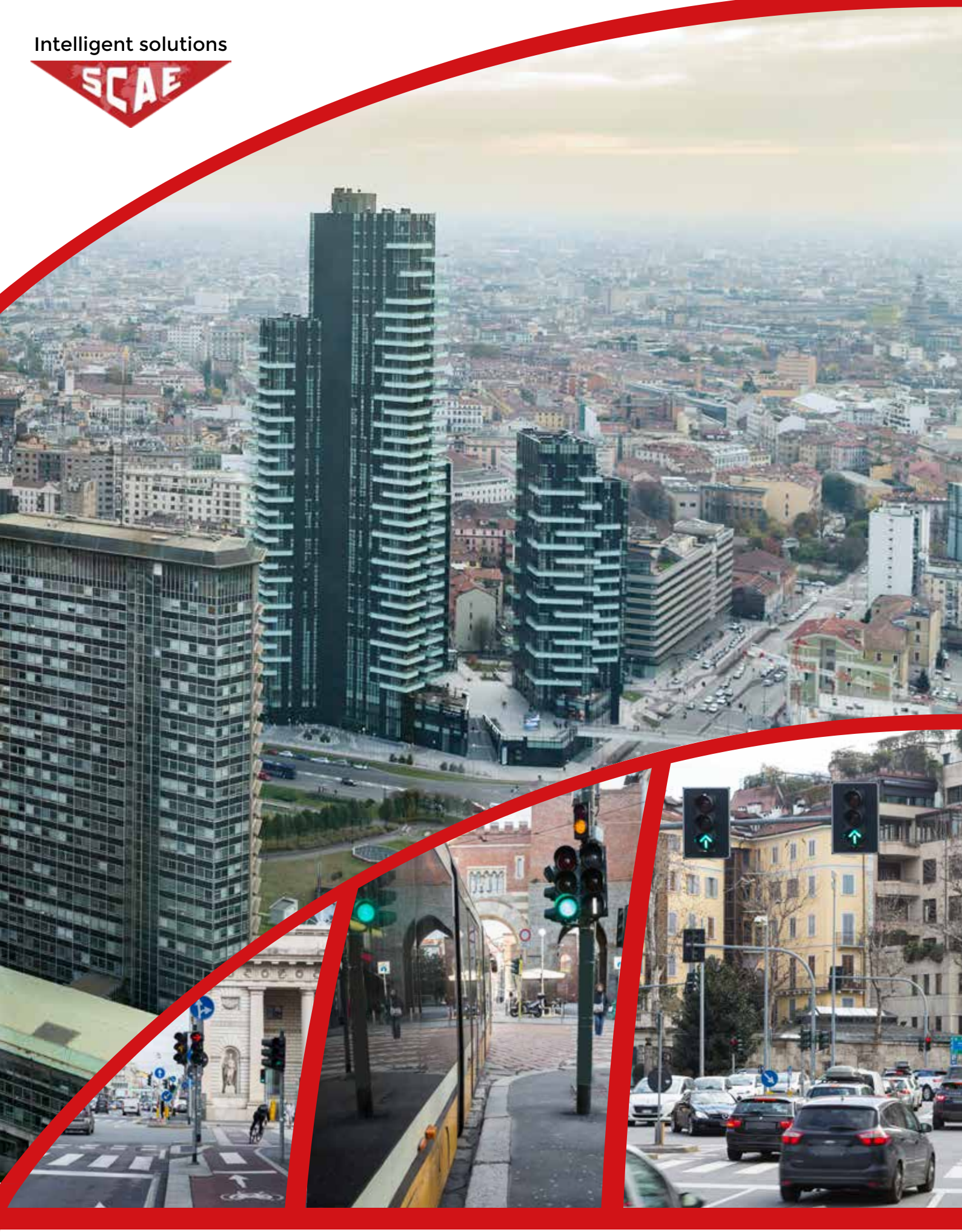
Intelligent solutions

SCAE



TECNOLOGIES AND SOLUTIONS FOR A SAFER TRAFFIC

FIRST FOR INTELLIGENT TRAFFIC SOLUTIONS

_COMPANY

SCAE was founded in **1964** by some specialized engineers who had sensed how the progressive growth of road traffic would impact the ordinary life of a city.
From this viewpoint, the aim of SCAE immediately became to facilitate communication between the road and its users, for an orderly and efficient coexistence.
With this premise, SCAE has focused its activity on **the design, manufacturing, sale and installation of equipment, components, devices and systems for road traffic control and safety**, and all those activities that public authorities must guarantee to their citizens.
With more than **50 years of experience** SCAE is currently considered in Italy and abroad among the sector leaders in traffic control and management of city activities.

_LOCATION

Located in the municipality of **Segrate**, outskirts of Milan, in an easily accessible area, five minutes from Milan Linate airport and 500 meters from the ring road to reach any direction.
The company occupies an area of more than 13,000 m2, on which are located two buildings with offices for administrative and commercial services, activity of research and development and two industrial buildings for production, testing and logistics.

TRAFFIC CONTROL AND MANAGEMENT SYSTEMS

SCAE has developed a web-based ecosystem of products for a complete ITS solution.
Through any device with an internet connection (computers, smartphones, ...) it is possible to have a complete remote management of all traffic signal intersections and an easy collection of data related to urban mobility.
In addition to the ability to use proprietary servers, SCAE solution also offers a full Cloud service for hosting all its ITS solutions.

The modules that form this ITS system are:

_STC-WEB

Urban traffic management system
- Adaptive Algorithms of Generation and / or Plan Selection
- Historical database of traffic data and system diagnostics
- Remote access to peripheral traffic light controllers for configuration and diagnostics
- Automatic signalling of alarms and failures
- Graphical display of data on interactive maps

_SMT-WEB

Monitoring system of signalized intersections for maintenance purposes
- Remote access through interactive maps
- Automated Real Time Reporting of anomalies
- Remote access to traffic controllers for configuration and diagnostics
- Traffic Data Collection
- Traffic data display and export

_PMW-WEB

Information system via variable message signs
- user guidance in function of applied control strategies
- Transmission to users of public information messages

_CITYPARK-WEB

Management system for parking guidance
- Management of single car space occupancy
- Data transmission to users of data relevant to occupancy of parking lots
- Display at the control center of occupancy status of all car parks through interactive maps
- Management of occupancy statistics data through historical database

SCAE, that realized in cooperation with company SWARCO MIZAR some important installations, has also a skilled technical staff capable of designing traffic control systems under OMNIA platform and UTOPIA and FLASH NET software whose main features are herafter shortly described:

_UTOPIA is a system for adaptive traffic control that constantly monitors and forecasts the traffic status and optimises the control strategy according to flow efficiency and/or environmental criteria. The system can assign weighted, selective or absolute priority to specific vehicles without penalising other traffic.
- Real-time optimisation of traffic signals
- Absolute or selective priority to public transport
- Fully adaptive control, plan selection, traffic responsive and traffic actuated strategies

_FLASH NET is a system that allows to have a full view of the fleet status at any time and improve the regularity of bus/tram services through
- Vehicle location and monitoring
- Service regularisation and management
- Service reporting and certification
- Real-time passenger information

TRAFFIC LIGHT CONTROLLERS

SCAE offers a complete range of Traffic Light Controllers that can manage any kind of intersection.

CONNECTIVITY
- Serial ports RS232-422, USB
- Ethernet Port
- Wi-Fi & Bluetooth
- Modem 2G, 3G, 4G
- VPN

COMMUNICATION PROTOCOLS
- NTCIP 1202
- MODBUS
- UTOPIA (SWARCO MIZAR)
- SIGMA+ (ELSAG DATAMAT)
- STCWEB (SCAE)

USER INTERFACE
- APP for Smartphone and/ or Tablet (Android & iOS)
- Local panel with TFT display and Touch panel as option
- Remote local panel emulation

CONTROL CAPACITY
- Two single intersections
- Centralized and/or Local
- Adaptive algorithms for Plan and / or Plan Selection Generation
- Calendar clock synchronization via GPS

ACCESS AND CONFIGURATION
- Integrated Web server
- APP for Personal Computer Windows

DIAGNOSTICS
- Diagnostics of correct functionality of inside and outside parts through off line and online diagnostics routine

CERTIFICATION
- CE certified in conformity with European norms EN50556:2011, EN50293:2012 , EN12675:2000

VEGA 64 GROUPS

DATA COLLECTION
Generation of local files and trasmission to other systems of :
- Statistics data
- Traffic data
- Environmental data
- Diagnostics and operating data

_VEGA

MAXIMUM CAPACITY

- 64 groups (192 power uotputs)
- 64 loop detector
- 96 digital inputs
- 128 digital outputs
- 20 relay outputs
- 32 semaforic plans

VEGA 32

_PEGASO

MAXIMUM CAPACITY

- 16 groups (48 power outputs)
- 16 loop detector
- 48 digital inputs
- 64 digital outputs
- 20 relay outputs
- 32 semaphoric plans

PEGASO 16

_ORIONE

MAXIMUM CAPACITY

- 12 groups (36 power outputs)
- 8 loop detector
- 44 digital inputs
- 32 digital outputs
- 20 relay outputs
- 32 semaphoric plans

ORIONE 12

LED TRAFFIC SIGNALS

To offer a wide choice to customer, SCAE proposes 4 series of traffic signals different in design, material, innovative solutions and environmental respect. In conformity with EN12368, led traffic signals are certified according to the highest required levels.
All models use “Futurled3R” led optics that ensure the utmost reliability, low consumption (<8W) and life time over 10 years.

_FUTURA

In polycarbonate, elegant, light, compact, without screws and metals, environment friendly

_ALUSTAR

In die-cast aluminium, with a harmonious and awesome design, available in different colors with indelible polish

_TRAFLED

In polycarbonate, modern, ultralight, designed for an easy maintenance service

_SP LED

Realized in high thickness polycarbonate to ensure strength and durability, with a pleasant and powerful design

COUNTDOWN

Realized with high-intensity RGB Leds they show the missing seconds at the end of the color phase.
Power supply 100/260Vac
Power 3/20W
Operating temperature -40°C +80°C

2 ASPECTS PEDESTRIAN SIGNAL WITH COUNTDOWN

3 ASPECTS TRAFFIC SIGNAL WITH COUNTDOWN

COUNTDOWN LED RGB Ø210 2 DIGITS

COUNTDOWN LED RGB Ø300 3 DIGITS

WIDE COUNTDOWN CD400 LED RGB

COUNTDOWN STOP & GO

SPECIAL SIGNALS

SOLAR FLASH Ø300

ANIMATED PEDESTRIAN SIGNAL

TRAFFIC SENSORS FOR VEHICLE DETECTION AND DATA COLLECTION

Loop detector card/box at 4 and 2 channels

Radar speed sensor TM60

Video sensor Xcam

Traffic enforcement camera

Portable traffic analyzer

Multilane traffic sensor

Wireless sensor

PEDESTRIAN BUTTONS

Pedestrian and sound touch button Tweety
- Luminous display
- Sound signal emitter
- Voice message synthesizer
- Touch button

Pedestrian touch button DNV Tweety
- Luminous Display
- Touch button
- Switch for blind pedestrian call

VMS AND LUMINOUS SIGNS

Giuding signs to parking lots

Display signs of available parking spaces

Variable message signs

Speed display signs

Luminous bollards

Warning and pedestrian luminous signs

Led pedestrian signs

SAFETY FOR BLIND PEDESTRIANS AND CYCLISTS

Pedestrian push-button for blind

Tactile pathway

Acoustic device for blind

Signalized bike lanes

TRAFFIC ENGINEERING SERVICES

OPERATING SEGMENTS

SCAE through its Engineering Department carries out activity of research and design, development and manufacturing of products and systems for increasingly effective and innovative ICT solutions aimed at creating a sustainable development of public and private mobility based on " Smart City " model.

SCAE is active in the following sectors:

- Pubblic and private traffic control systems
- Access control to Limited Traffic Areas
- Information systems by VMS
- Parking control systems
- Guidance systems to parking areas
- Video control systems
- Traffic enforcement systems
- Traffic data collection systems

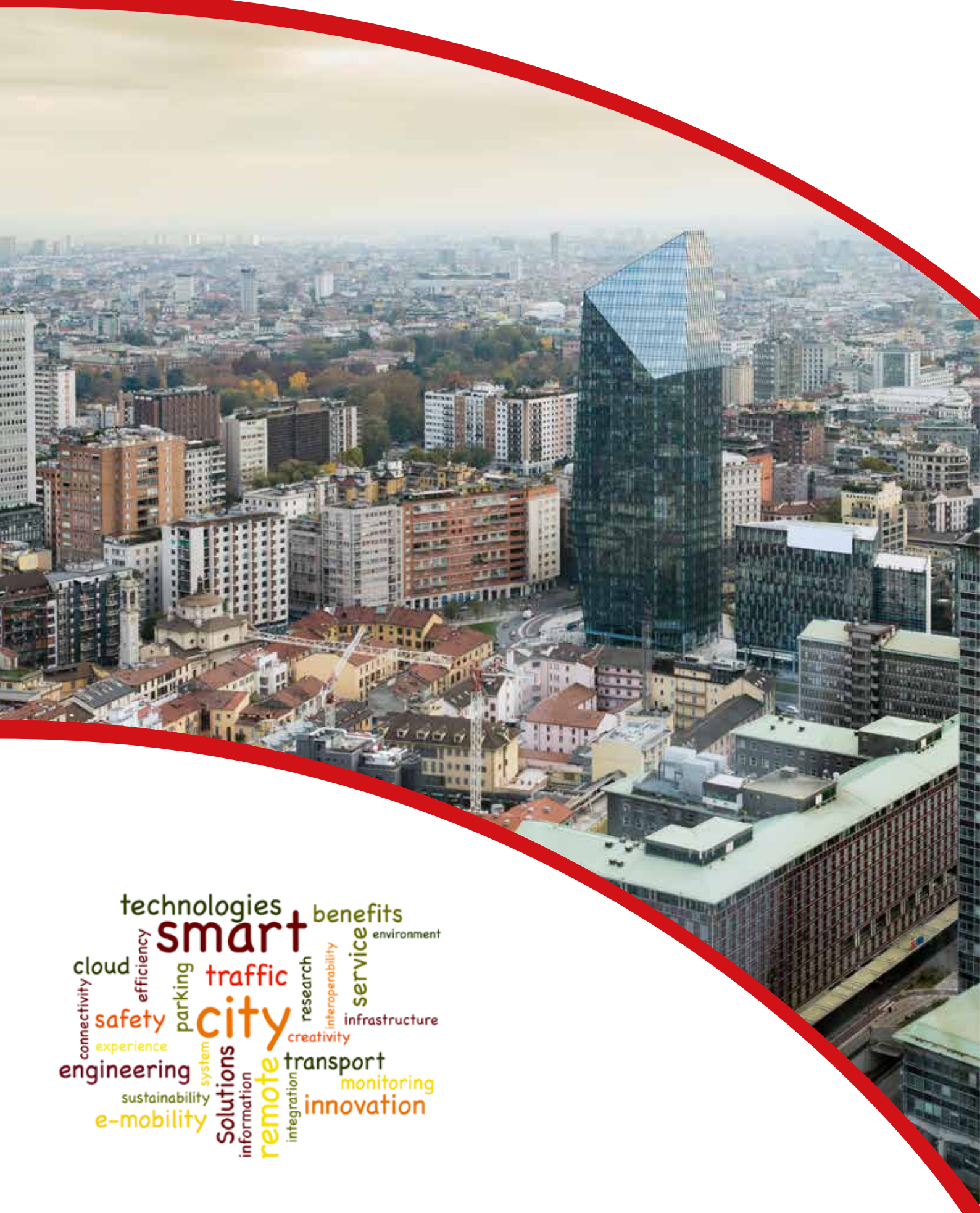
PRODUCTION

For SCAE the manufacturing sector has always been a very important part of its activity.
Production is subject to high quality standards and strict procedures as to:

- Selection of used components
- Quality control of entry materials
- Manufacturing standardization
- Life end and testing

INSTALLATION AND SERVICING

The turnkey installation of its own systems and products as well as maintenance services carried out by highly skilled technicians are pursued and proposed by the company to ensure a correct efficiency and an investment return.



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efficiency
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parking
research
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creativity
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