

SMART
BUILDING
EXPO

Fiera Milano, Rho
13–15 novembre 2019



MILANO
SMART CITY
CONFERENCE



Smart City

Dallo Smart Bin allo Smart District

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A2ASmartcity

Infrastruttura di rete

L'abilitatore di servizi



Protocollo di trasmissione wireless
ottimizzato per applicazioni IoT

- ▶ Trasmissione a bassissima potenza (possibilità alimentazione batteria)
- ▶ Topologia a stella (semplificazione)
- ▶ Ampia copertura (1 – 20 km circa)
- ▶ In grado di gestire un numero potenzialmente illimitato di dispositivi



Servizi IOT territorio



SMART BIN



SEMAFORI SMART



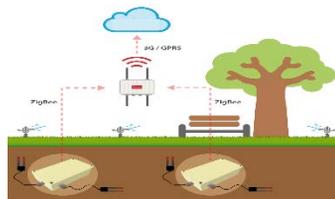
TOMBINI SMART



SMART PARKING



**AUTO ELETTRICHE -
COLONNINA DI RICARICA**



IRRIGAZIONE



**SMART
BUTTON**

ISOLE DIGITALI



**MONITORAGGIO
INFRASTRUTTURE**



**BRACCIALE
SMART**

ENVIRONMENTAL SENSORS



TEMPERATURA



UMIDITA'



PRESSIONE



INQUINAMENTO
ATMOSFERICO



LIVELLO CORSI
D'ACQUA



INQUINAMENTO
ACUSTICO





Servizi Sicurezza



**RICONOSCIMENTO
PEDONI**



**TELECAMERE MULTI
MEGAPIXEL**



**TELECAMERE
TERMICHE**



BIOMETRICA



SOS



COMUNICAZIONE



TELECAMERA 360°



DRONI



RADAR

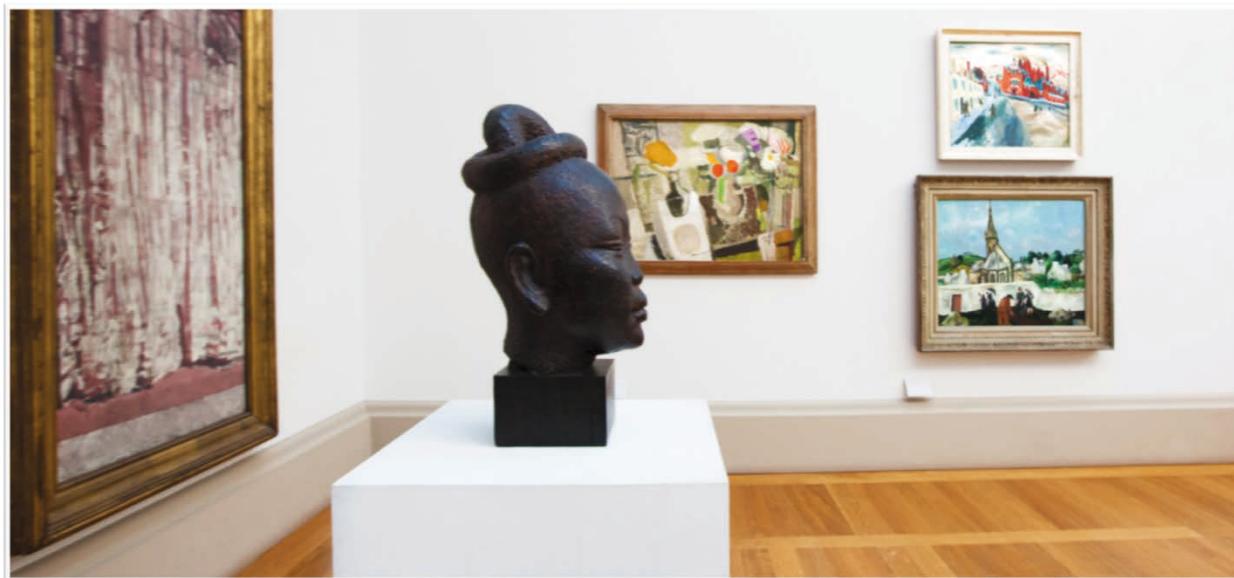
Smart Museum





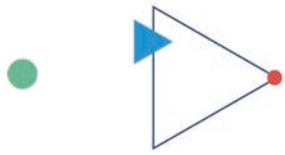
SMART MUSEUM

PROTEZIONE PUNTUALE

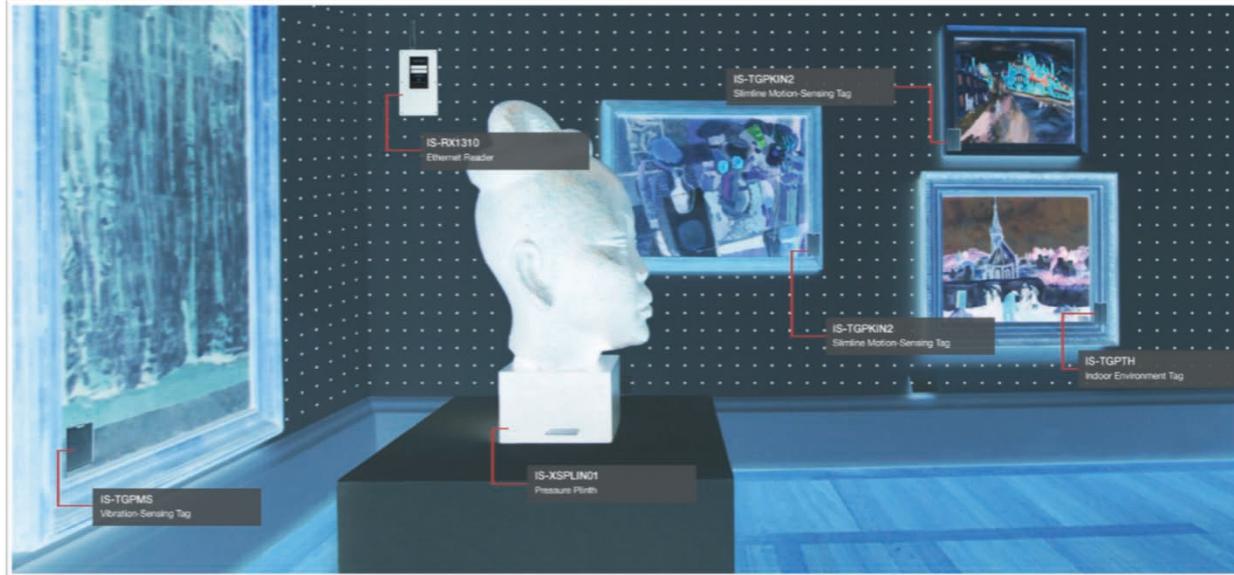


Sensori IoT per
protezione puntuale
delle opere:

- Manomissione
- Vandalismo
- Furto



SMART MUSEUM PROTEZIONE PUNTUALE



Sensori IoT per protezione puntuale delle opere:

- Manomissione
- Vandalismo
- Furto

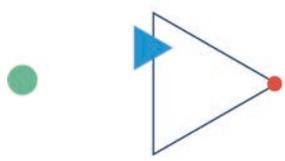


SMART MUSEUM

PROTEZIONE PUNTUALE



Tenda laser per il rilevamento di manomissione dei quadri a parete



SMART MUSEUM VIDEOANALISI

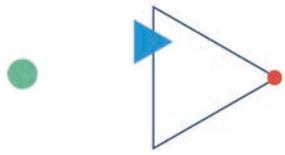


Le telecamere digitali dotate di **videoanalisi** a bordo permettono di rilevare e istantaneamente:

- oggetti rimossi
- comportamenti anomali nei visitatori fornendo un grado di sicurezza ulteriore

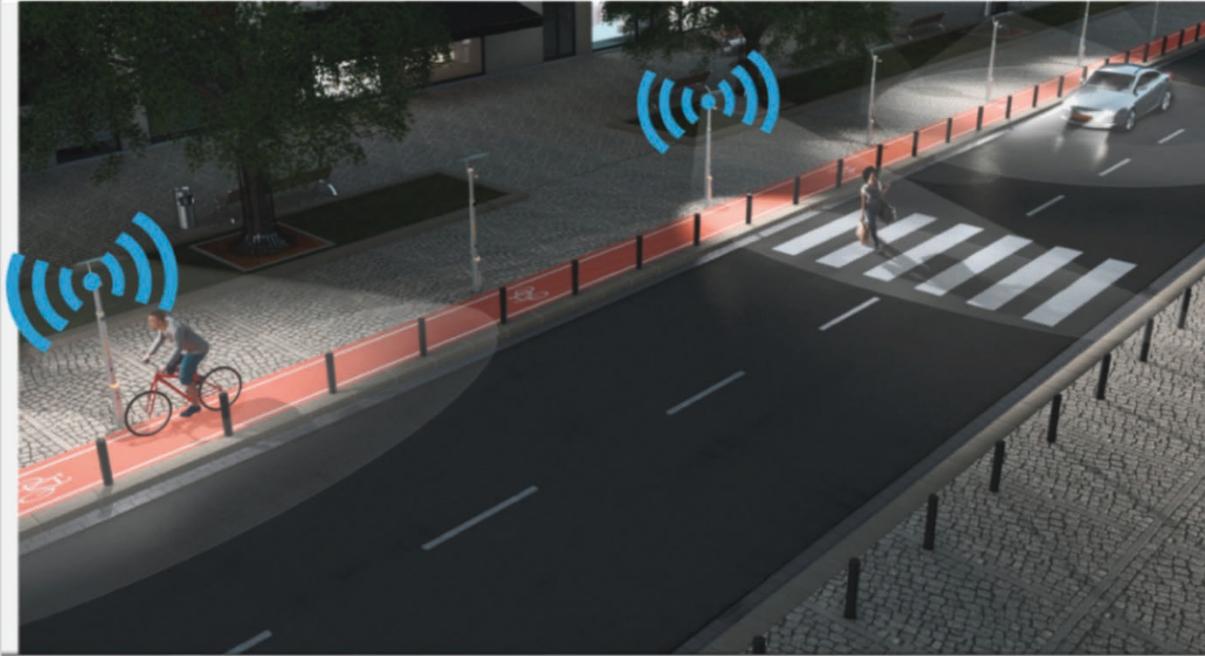
Smart lighting





SMART LIGHTING

REGOLAZIONE AUTOMATICA

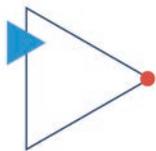


Ogni singolo punto luce può regolare la propria luminosità in base a:

- Presenza pedoni
- Determinati orari
- L u m i n o s i t à ambientale

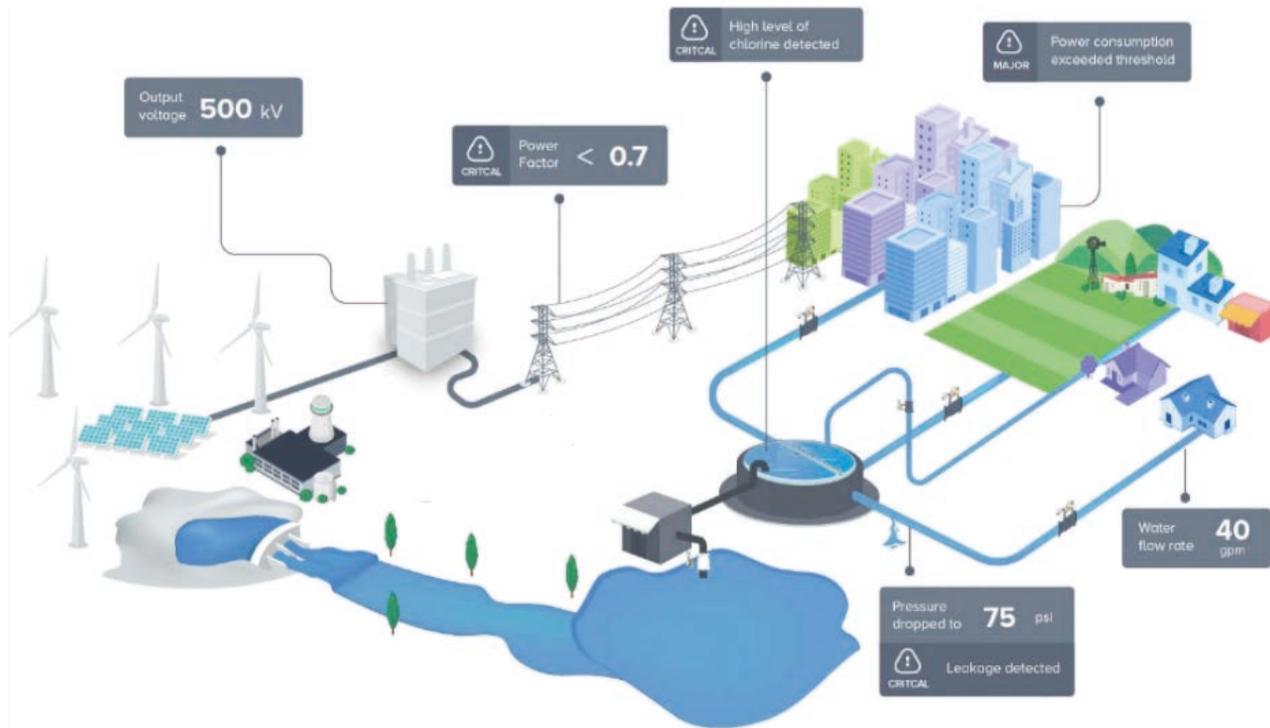


Smart metering



SMART METERING

MONITORAGGIO ENERGETICO



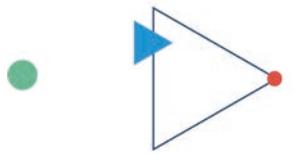
Gestione metering:

- Elettricità
- Gas
- Acqua
- Calore

SMART DISTRICT

Merezzate





SERVIZI A MEREZZATE



Smart parking
eV charging
Traffic analysis
Infrastructure monitoring



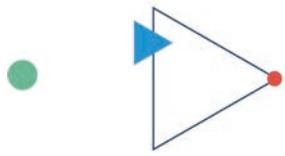
Environmental monitoring
Water level monitoring
Smart bin
Smart manhole
Smart watering



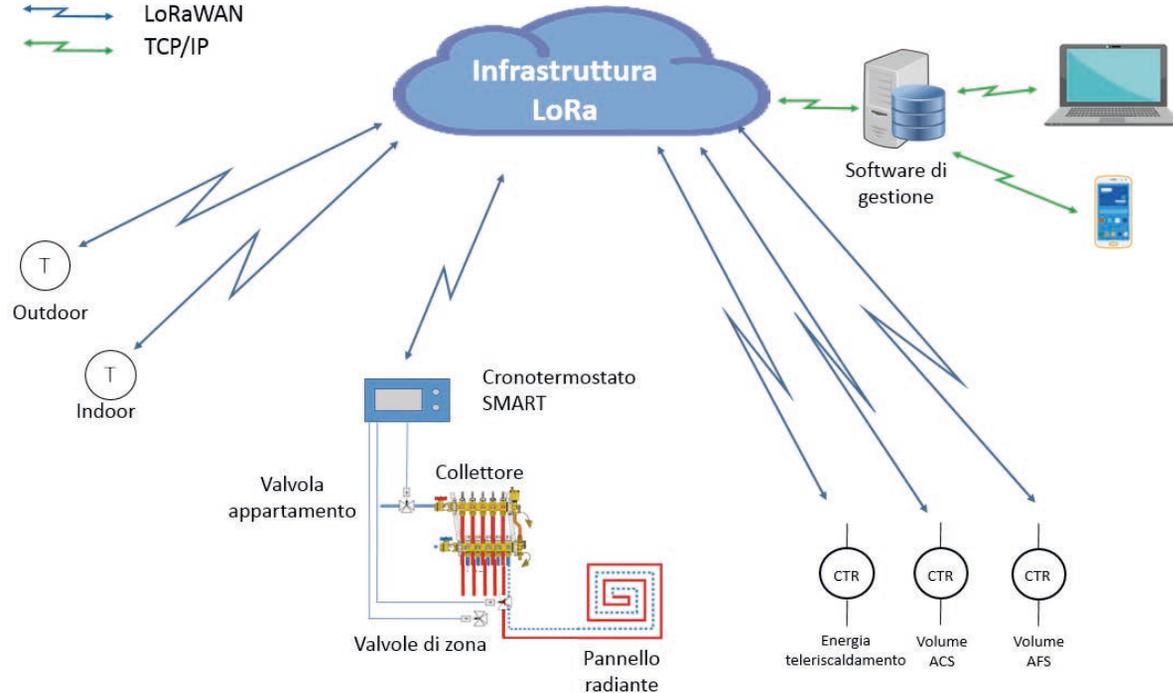
Videosurveillance
Facilities anti-intrusion
Drone cameras
Smart button



Smart metering
Smart lighting
Indoor environmental monitoring
Smart heating control
Smart plug



SMART HOME RISCALDAMENTO



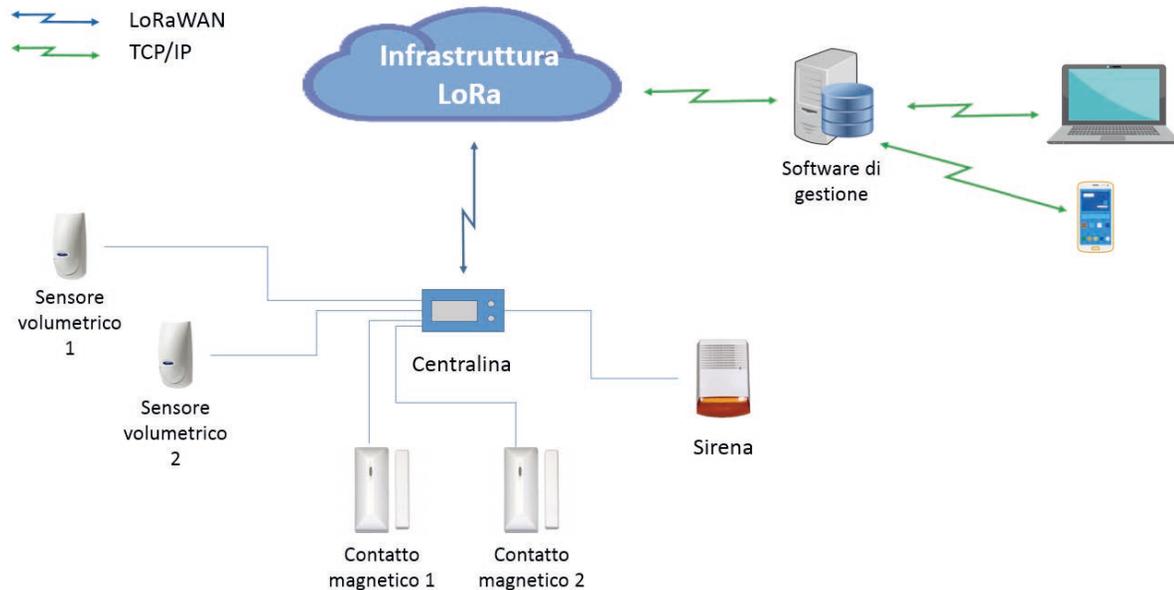
Gestione centralizzata del riscaldamento in modo da garantire:

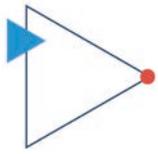
- ▶ Efficienza energetica
- ▶ Controllo da remoto



SMART HOME ANTI INTRUSIONE

Visualizzazione
allarmi in tempo
reale su qualsiasi
dispositivo mobile





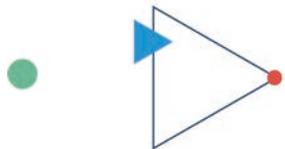
APP FUNCTIONALITIES

Social & public engagement

- ▶ District activity list
- ▶ District news
- ▶ District promotions
- ▶ New events creation
- ▶ Shared areas and equipment booking
- ▶ Shared economy platform
- ▶ Integration with outdoor sensors

Sustainability (Smart home)

- ▶ Electrical energy consumption
- ▶ Hot water and heating fluid consumption
- ▶ Cold water consumption
- ▶ Heating system remote control
- ▶ Consumption comparison among district users
- ▶ Electric load monitoring and control



COLLABORAZIONI NAZIONALI E INTERNAZIONALI

SHARING CITIES

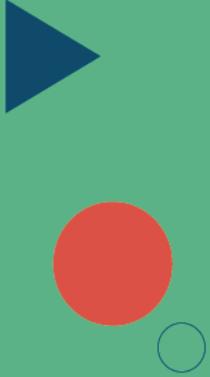


Sostenibilità energetica e sviluppo di servizi per una migliore qualità della vita del cittadino:

- ▶ Mobilità
- ▶ Efficientamento energetico degli edifici
- ▶ Illuminazione smart
- ▶ Monitoraggio ambientale

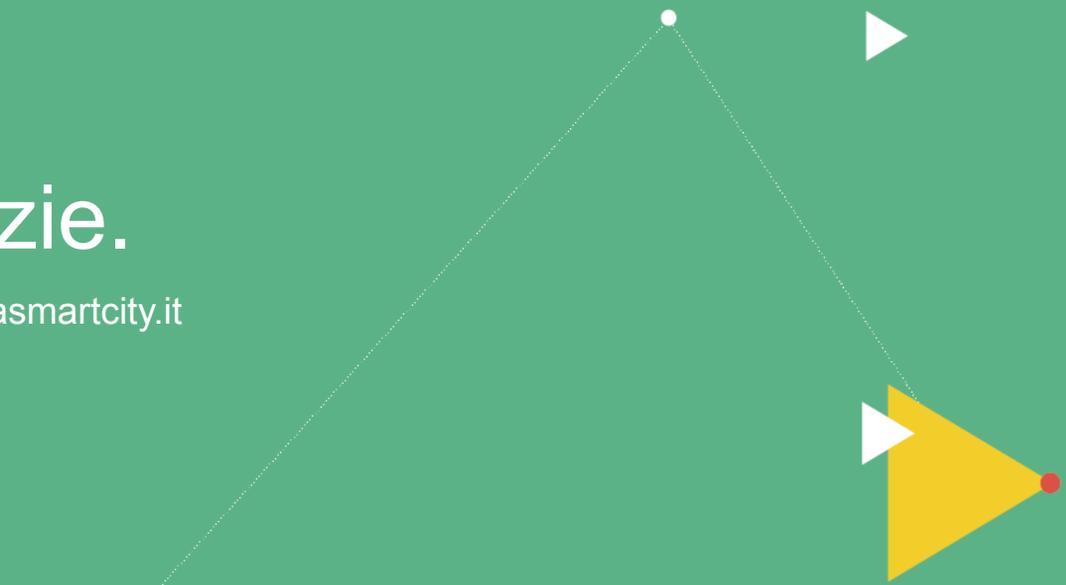


Funded by the Horizon 2020
Framework Programme of the
European Union

A collection of decorative geometric shapes on the left side of the slide: a dark blue triangle pointing right, a large red circle, and a smaller blue-outlined circle below it.

Grazie.

www.a2asmartcity.it

A series of decorative geometric shapes on the right side of the slide: a white triangle pointing right, a yellow triangle pointing right with a white triangle inside it, and a small red circle at the tip of the yellow triangle. A dotted white line connects the top vertex of the yellow triangle to the top vertex of the white triangle above it.