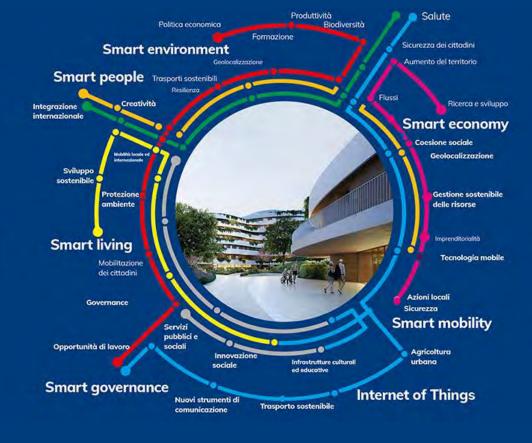
13 NOVEMBRE 2024

Politecnico di Bari

14 NOVEMBRE 2024

Centro Congressi Nuova Fiera del Levante, Bari











ICONICS: A Group Company of Mitsubishi Electric















Manufacturing Intelligence and Industrial Automation



Power & Water Utilities Oil & Gas



Public Infrastructure



Oltre 50,000 Edifici Utilizzano ICONICS



PRESENTE E FUTURO DELLE CITTÀ DEL MEDITERRANEO









Intesa Sanpaolo improves real estate and facilities operations, reduces carbon footprint with Azure

Azure IoT Products:

Microsoft Azure Data Factory Microsoft Azure IoT Hub Microsoft Azure Machine Learning

Other Products:

Microsoft Power BI

Partner: ICONICS

Organization size: 42,000 employees

Industry: Banking and Capital Markets

Country: Italy

Business need: IoT Standardization, Cost savings, Sustainability

Read the case study >



"In the first six months, we demonstrated annual savings with the Azure IoT platform and ICONICS would total 500,000 euros. If we see similar savings in other buildings, we can save about two million euros each year, and the project will pay for itself a year in advance."

Giorgio Colosi, Real Estate and Facility Senior Director, Intesa Sanpaolo, Direzione Centrale Immobili e Logistica (DCIL)

Situation

Intesa Sanpaolo, Italy's leading bank, needed to get better visibility into energy use in its buildings and other operational variables. It also wanted to streamline the tracking and fixing of faults that wasted energy, resources, and money.

Solution

Onsite IoT devices embedded in building management systems connect with Microsoft Azure IoT Hub (for data ingestion), Azure Data Factory (for monitoring and real-time data analysis), and ICONICS (data visualization). Microsoft Power BI is used for reporting.

Impact

The bank reduced its annual energy consumption in three buildings by 15 percent, a savings of 500,000 euros per year. After deploying to additional buildings, the bank expects to save about two million euros each year, accelerating the ROI by one year.





Net Zero Energy Building



Sucess Story [Link]



rm Integration (BSI) and the BAA Systems Team

out BAA/Heathrow Airport T5 Terminal with a planned capacity of moving 30 million passensuch a planed opensy of moving 10 miles passes, and the planed opensy of moving 10 miles passes, and the planed opensy of moving 10 miles passes, and the planed opensy of the planed opensy opensy of the planed opensy op rechassive solution to deliver a very intelligent control room to operate the new T3 Terminal.

ICONICS Software Deployed ICONICS GENESIS32th OPC Web-enabled HMII-SCADA state was selected by Ultra Electronics Airport Systems, a "first-tier" supplier for TV's Building Sys-

e new terminal was designed to be a fally integrated cility, monitored through a central Terminal Service entre (TSC) and mobile devices. A common user Seltione, See, elevator, CCTV, and security systems as well as to centralize alarm management and automate

A) in opening T5 included over 50 different votems. producing a massive tag count of over 3 million, handled easily due to the sobust nature of GENESIS32. In addition, in using open industry standards based on OPC, the The 13 Terrinal at London's Heathers Arpert was oscilling includence has been designed to provide flex-our framps's largest constitution projects, larshed ishility for fature expansion and integration, as required by BAA at 4.2 billion, fettial planning for the feetfuly, by

Energy Smart Buildings



Blue Lagoon Iceland







The obtained return Continue to Continue Continu

London Heathrow Airport













Hong Kong Marine Department

BIOME Odense University Hospital Pentagon

Energy Smart Building



BECOMING A SMART CITY



SENSOR LAYER

Devices that collect real-time data of certain conditions e.g., temperature, humidity, noise level, etc.

NETWORK LAYER -----

Where data is sent through to be processed in the next stage

DATA PROCESSING LAYER

Where data volume is further reduced through analytics and machine learning tools

APPLICATION LAYER

Where data is analyzed in-depth to determine whether action needs to be taken



La Filosofia ICONICS: convergenza di eterogenenei dispositivi in una Piattaforma APERTA









La tecnologia ICONICS

[4] Visualize & integrate

We offer best-practice architecture consulting and implementation guidelines for deliveries with ICONICS tools.

[3] Digital Twin

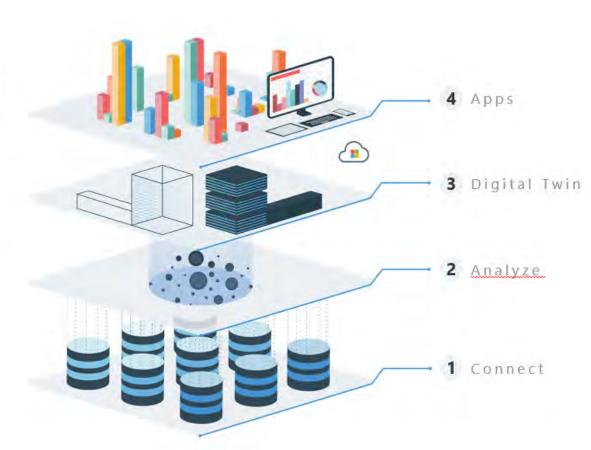
Archiving of real-time and historical data related to systems and the company.

[2] Data processing and analysis

Data conversion and normalization, app engines, advanced alerting and error detection and diagnostics.

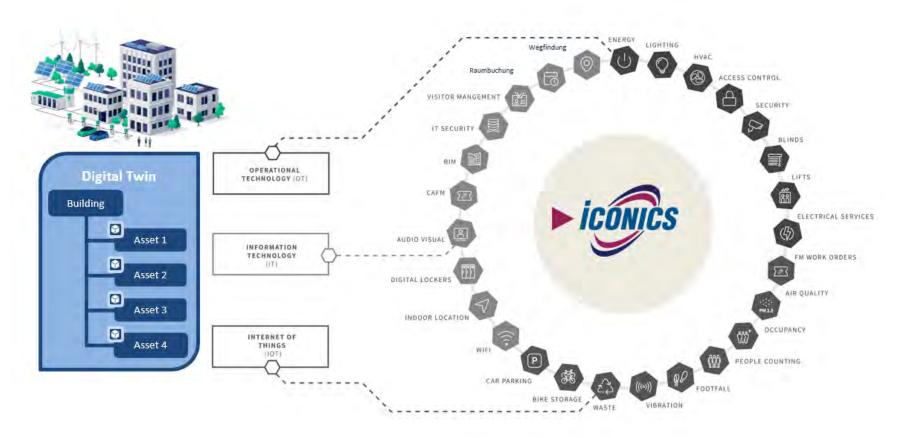
[1] Connecting and merging different data

Operating technology and systems (BMS, lighting, energy, access control), information technologies (web services, location services, enterprise software) and loT devices.





OT + IoT + IT = Digital Twin



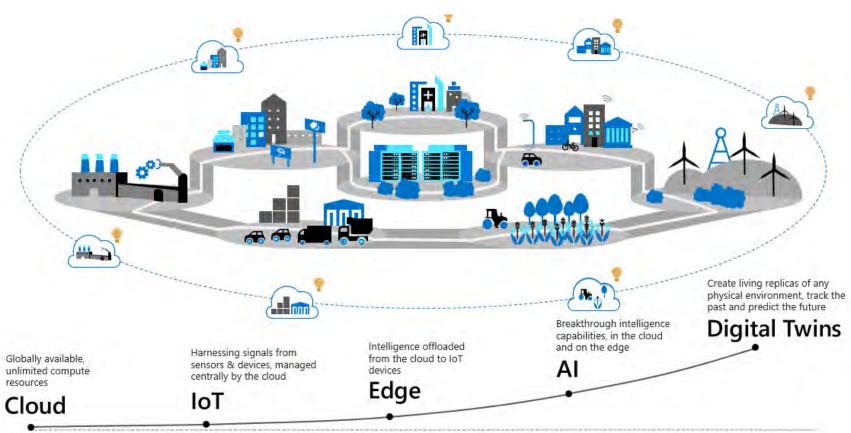


Che cosa è una "SMART infrastructure"?

- Una «Smart Infrastructure» è il risultato di una combinazione di una infrastruttura fisica con una infrastruttura digitale
- Fornisce delle informazioni arricchite che permette di prendere decisioni più rapidamente in risposta ai cambiamenti, diventa meno costoso sviluppare e fornire una piattaforma a supporto delle iniziative digitali delle città



"SMART CITY infrastructure"





I DATI SONO LA CHIAVE PER SBLOCCARE LE SMART CITY

- > Il mercato delle smart city sta crescendo rapidamente le iniziative per città intelligenti possono rendere la tua città competitiva, efficiente e connessa
- ➤ La raccolta di solo dati non è sufficiente **Utilizzare una rete ad alte prestazioni**, la tecnologia giusta e dati attuabili per sbloccare il potenziale illimitato della tua smart city
- ➤ Realizzare il potere dei dati **sviluppando un piano e coinvolgendo i cittadini** (attraverso l'istruzione, forum, hackathons, ecc.)
- > Inizia in piccolo Una o due iniziative che soddisfano le esigenze della tua città è tutto ciò che serve



PERCHE' ASSUMERSI L'IMPEGNO

- Riduzione dei costi e aumento del valore degli asset: stanno emergendo dati concreti che dimostrano i vantaggi economici ottenuti grazie all'elevata produttività e al ROI delle infrastrutture
- Miglioramento dei servizi e delle loro forniture: le operazioni digitalmente trasformate consentono una maggiore efficienza e servizi forniti al posto giusto e nel momento giusto
- Processo decisionale e partecipazione dei cittadini: non solo più dati, ma una migliore qualità dei dati che consenta di prendere decisioni operative più informate e di dare forma alle future iniziative intelligenti;
- Qualità della vita: La riduzione della congestione stradale, l'ambiente più sicuro, la riduzione dell'inquinamento atmosferico e l'elevata qualità delle acque sono solo alcuni dei modi di vivere che influiscono sul lavoro e sul tempo libero
- > **Sviluppo economico:** la percezione della città viene migliorata: attrazione di nuovi talenti, sostegno alle start up, promozione del turismo e dello sviluppo economico e aumento del coinvolgimento dei cittadini



METTERE I CITTADINI AL CENTRO DELLA VOSTRA SMART CITY

- Le città intelligenti di successo sono persone-centriche, i cittadini dovrebbero essere il cuore di ogni città intelligente
- Il coinvolgimento dei cittadini dovrebbe iniziare da subito per incoraggiare l'uso proattivo della tecnologia
- Si può anche coinvolgere i cittadini nel design delle soluzioni in eventi come hackathon
- Educare i cittadini sul funzionamento della tecnologia e i vantaggi possono ridurre le preoccupazioni in materia di privacy ed accessibilità



Transform your people, places and spaces with smart buildings from ICONICS





Smart Building Software Solutions by ICONICS & Mitsubishi Electric



People Centric

The Intelligent Buildings Software Stack (IBSS) from ICONICS is a SaaS platform for building experience and workplace management that enables hybrid work experiences in buildings through digital signage, room booking, colleague discovery and much more in one app with web-based analytics.



Building Centric

GENESIS64, ICONICS' end-to-end edge-tocloud automation platform, supports applications such as building energy management, fault detection and diagnostics (FDD), comprehensive advanced alarm management, supervisory BMS control and CO2 reporting via Microsoft Sustainability Manager (MSM).

Digital Building Operating System (BuildingOS)

- Drivers and ready-made integrations
- ✓ Custom data model & schema
- Time series databases

- Bi-directional control options
- ✓ Distributed architecture (Edge-to-Cloud)
- ✓ Fast onboarding & configuration tools



'Livelli' di uno Scenario Smart Building









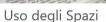


Navigazione Dati

Meeting

Posti di Lavoro







Parcheggi



Sicurezza



Gestione Energetica

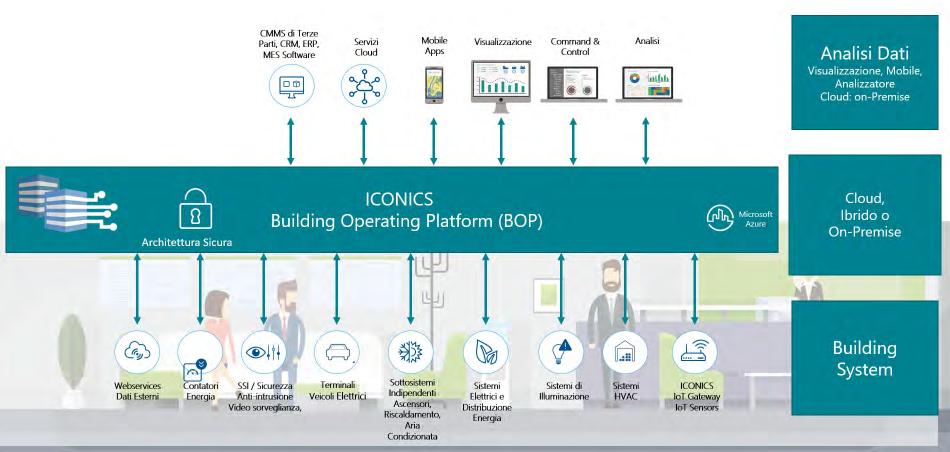


Building Operations Manutenzione Predittiva



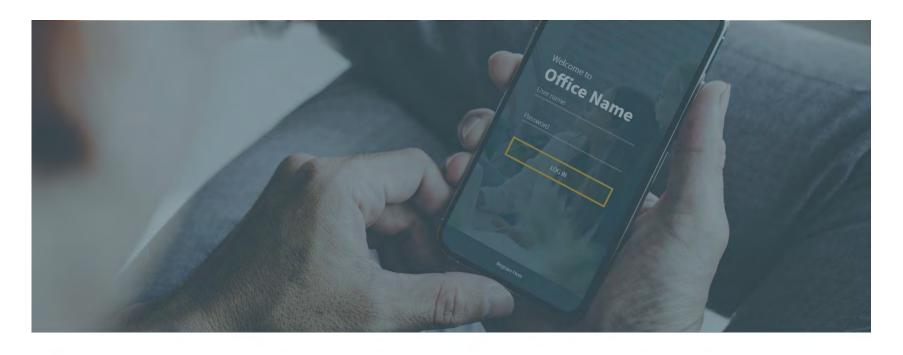


Piattaforma ICONICS per Smart Building





Piattaforma ICONICS per Workspace Managemant



IBSS per le Postazioni di Lavoro



IBSS Workplace – UX Apps









IBSS Workplace – UX Apps

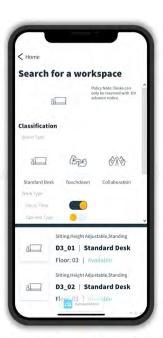




Roamer; Mobile Workplace App



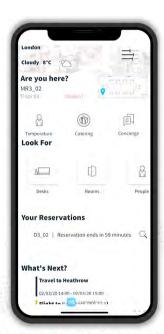
Impostate le vostre preferenze



Filtro per trovare informazioni in modo rapido



Prenotazione in tempo reale



Visualizza e gestisci le tue prenotazioni



Inspire; Kiosk Wayfinding













IBSS Workplace - OneLens App Bundle; OE & MI





OneLens; Device Manager





OneLens; Workplace Services





OneLens; Workplace Analytics





Your Contact for Smart Buildings and Smart Cities!

