

Berlin:

Akazienstraße 27, 10823 Berlin
Tel: +49-(0)30 983 203 7-0

Düsseldorf:

Blücherstraße 1a, 40477 Düsseldorf
Tel: +49-(0)211 781 7517-0

München:

Pfälzer-Wald-Straße 32, 81539 München
Tel: +49-(0)89 277 808 98-0

<https://www.integrationworks.de>



Webseite



Youtube

OCTOBUS



Empowering Smart Cities with OCTOBUS

The IIoT Platform



Secure - Affordable - Interoperable - Scalable

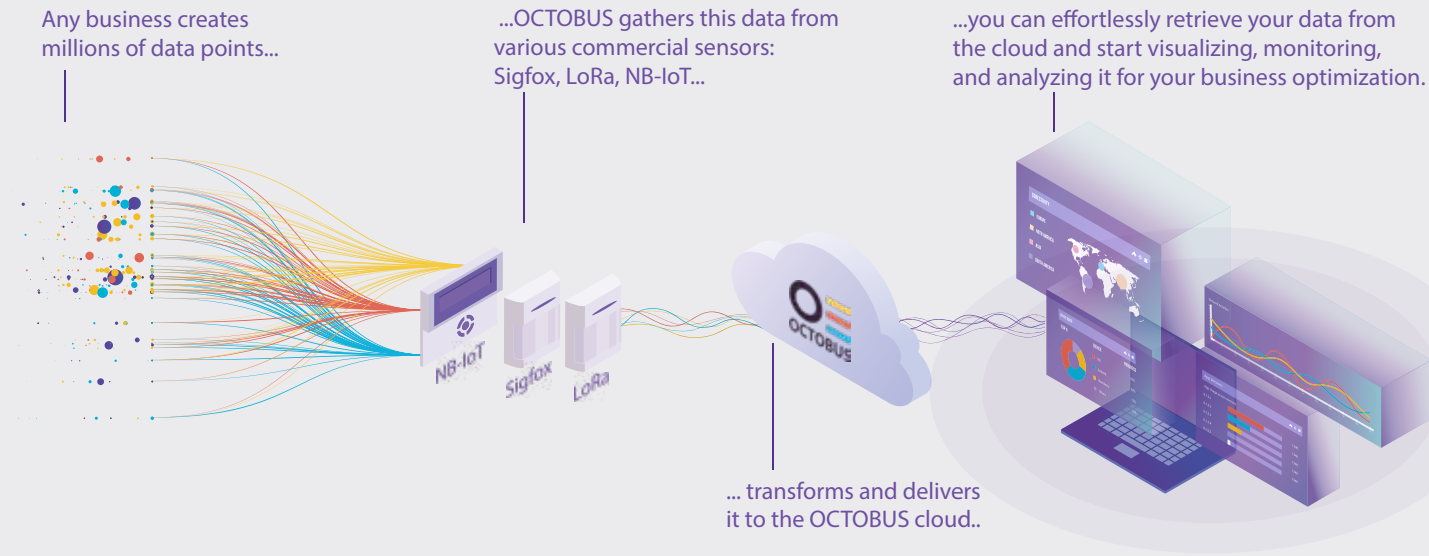
Empowering Smart Cities

Revolutionize your city with the OCTOBUS SaaS (I)IoT platform! By seamlessly integrating IoT technology, OCTOBUS enables cities to optimize resource utilization, enhance public safety, and improve citizen engagement. Experience the benefits of SMART:

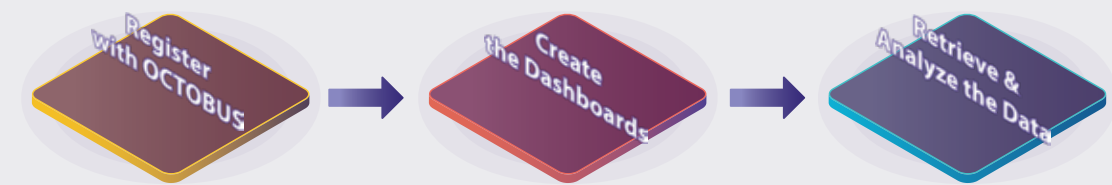
Energy Consumption Management,
Damage Prevention Management,
Water Level Management,
Air Pollution Management,
and more.

By integrating the OCTOBUS IoT platform with commercial sensors and data acquisition systems, any city can thrive as a smarter, greener, and more livable urban environment. Together, we can create progressive, sustainable, and livable cities for generations to come. Join the ranks of the most advanced smart cities today and shape the future of urban living!

How OCTOBUS Works



Fast-and-Easy Onboarding*



- Register with OCTOBUS at www.octobus.asia
- Synchronize your assets (i.e. sensors)

- Create the dashboards and customize them to the needs of your company
- Set up your notification channels and rules

- Start retrieving the data
- Analyze the data and optimize your business performance

OCTOBUS: Smart City Applications



Energy Consumption Management

OCTOBUS leverages sensors, meters, and smart grids to enable real-time data streaming, revealing energy usage patterns. This empowers city authorities and businesses to make informed decisions aimed at **optimizing energy distribution and usage, identifying inefficiencies, integrating renewable sources, and diminishing carbon footprint** – all of which ultimately leads to a **significant cost reduction**. With IoT-driven energy management in smart cities, resource optimization is facilitated, wastage is reduced, and the path to a sustainable future is paved, while also improving the quality of life for its residents.

Air Pollution Management

By enabling **continuous monitoring of pollutants** like particulate matter, nitrogen dioxide, and ozone levels, our platform empowers authorities with crucial data to identify pollution sources and implement targeted mitigation strategies, leading to significant improvements in air quality. IoT-based air pollution monitoring systems offer additional benefits such as the **ability to detect emerging pollution trends**, assess the effectiveness of **pollution control measures**, and facilitate collaborations with researchers and environmental organizations for data-driven decision-making. This comprehensive approach fosters a much healthier urban environment.

OCTOBUS Smart City Use Cases

Smart Office

JST Group employs OCTOBUS to monitor energy usage in their Bangkok offices, showcasing their dedication to both cost efficiency and environmental responsibility. By optimizing consumption, they exemplify a commitment to sustainable practices and corporate stewardship.

Water Leak Prevention

Millennium Residence, a luxury condominium in the heart of Bangkok, has subscribed to OCTOBUS and installed 185 leak-guard sensors to prevent potential leakages on its premises. The platform will help the Residences' management monitor potential water leakage and receive visual alarms if water is detected on one of its floors.

Vaccine Storage Temperature Monitoring

Bangmod Hospital and Bangpakok 9 International Hospital use OCTOBUS to remotely monitor vaccine and medications storage temperatures, automate data logging, receive notifications and respond promptly in the event of storage room equipment breakdown or power failure.

Indoor Air Quality Monitoring

The platform monitors indoor air pollution levels in selected houses in Chiang Mai, providing automated notifications to residents in case of critical air quality. This pilot project, supported by Fraunhofer IMW and Chiang Mai University, is an integral part of the ongoing international initiative "Carrying heritage buildings as part of urban regions into a modern and energy-efficient society - CHARMS".

Water Level Management

OCTOBUS enables **precise measurements of water levels in reservoirs, rivers, and water distribution networks**. These capabilities play a crucial role in **flood prevention**, allowing for early warning systems and proactive measures to mitigate the risk of flooding in cities. Additionally, the platform facilitates effective water resource management by providing **accurate data on water availability** and usage, aiding in the planning and optimization of water distribution networks. This contributes to improved water conservation and reduced water stress, fostering sustainable and livable cities.

Damage Prevention Management

OCTOBUS leverages IoT technology to proactively mitigate risks associated with various types of damages in urban environments, such as **water leaks, fire incidents**, as well as the damages caused by factors such as **gas leaks, power outages, and environmental hazards**. By integrating smart sensors and monitoring systems, early detection of anomalies is achieved, enabling prompt response and prevention of extensive damage. This approach empowers users to track and analyze patterns, identify vulnerable areas, and implement targeted measures to ensure the safety of residents and resilience of the city infrastructure.

*Discover our step-by-step tutorial on our YouTube channel for a comprehensive guide on how to operate OCTOBUS - <https://www.youtube.com/@octobus>