

SMART CITIES

myCSN-cloud, Built by Klarrio, Helps Smart Cities of Any Size Deliver Real Time Services to Citizens

CHALLENGE

Cities of all sizes face similar challenges to improve citizens' wellbeing, reduce CO2 emissions, optimise mobility, improve safety, improve waste management, and more. They also face the additional problem of a lack of economies of scale.

To address the challenge, myCSN (myCSN.be), a public/private partnership between Ciral Schaubroek and Nuhma (owned by Belgian municipalities), was formed.

The primary objective was to allow cities to build their own real-time, cloud data platform that connects multiple sensors and applications in an open way for the benefit of citizens. The secondary objective was to avoid being held hostage to platforms who claim data ownership.

APPLICATION

Klarrio was commissioned to build a cloud-native platform to achieve this goal by creating smart services that allowed participating cities to retain ownership of their respective data. The new platform, called myCSN-cloud, shares data streams and enables innovative real-time, event-driven applications. It also scales to millions of messages per second and millions of devices, while ensuring full GDPR compliance.

This has resulted in diverse, beneficial applications for citizens, such as wellbeing rewards programmes to encourage children to cycle or walk; bike-sharing schemes (with applications including theft prevention, orphan bikes, and usage prediction); smart connected parking, facilitating parking reservations and subscriptions; waste management programmes informed by connected bins; and more.

IMPLEMENTATION

Thanks to myCSN, 48 municipalities across Belgium can collect real-time data from air quality sensors, traffic sensors, and more, facilitating Europe's largest smart region. This data is available on the myCSN platform and can be exchanged with other companies, such as Fluvius, a utility company which will connect 1.2 million smart lights.

Features of the platform include automated deployment/management, provision of a data-lake, secure multi-tenancy allowing for 3rd party applications, and the option of a public cloud or on-premise solution.

USE CASE

MUNICIPAL GOVERNMENT

CONTACT US

KLARRIO BELGIUM

Tel: +32 (0)3 331 99 33

Email: info@klarrio.com

www.klarrio.com

