

TALKING TRAFFIC

KPN Data Services Hub (DSH), Built by Klarrio, Helps Drivers Communicate with the Road in Real Time

CHALLENGE

The Netherlands is experiencing more cars on the road every year, and it's projected that traffic jams will increase by 38% in 2021, resulting in a potential €1.7 billion economic loss.

To address the challenge, **Talking Traffic** (talking-traffic.com) was formed as a collaboration between the Dutch government, 60 regional and local authorities, and private companies.

The objective was to create a platform that could integrate all traffic management systems across the country (i.e. lights, signs, parking, priority vehicles, etc.), and communicate traffic information to and from commuters in real time. The goal was to reduce traffic jams on busy parts of the network by 20% and reduce peak travel times by 10%. No existing platforms could address the required scale, bi-directional real-time communication, and secure multi-tenancy.

APPLICATION

As part of the collaboration, Klarrio, along with Dutch telco giant KPN, were tasked with creating a streaming, cloud-native platform to enable real-time data processing for cooperative intelligent transport systems (C-ITS) so traffic devices on the road could "talk" to citizens via their smartphones and connected cars, and vice versa. The result was the **KPN Data Services Hub**, or DSH.

The two-way communication would provide citizens with signage, speed and traffic guidance, as well as alerts on traffic hazards, parking info and the weather. It also enables time-to-green traffic optimisation and gives faster priority access to emergency vehicles.

IMPLEMENTATION

Thanks to the DSH, Talking Traffic can manage communication between 5,500 traffic lights, 2 million cars, 50,000 speed coils, parking meters, and all public transportation across the country.

Multiple tenants (i.e. collaboration partners), each with their unique secure internal network, manage their own (or 3rd party) containerised applications within the DSH. The system works securely with very low latency of less than 200 milliseconds.

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