Collective perception (e.g. EEBL) in ultra reliable low latency messaging via V2X Augmented Network traffic monitoring, using Vodafone STEP platform.

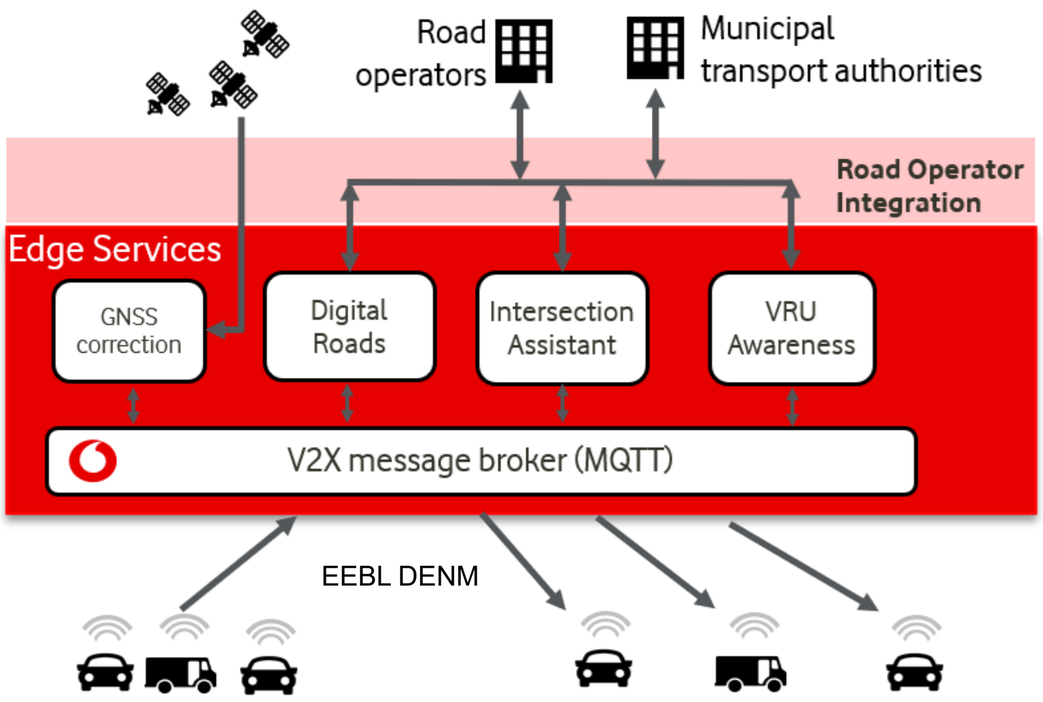
VODAFONE TOYOTA JOYNEXT

Goal

To demonstrate how ultra reliable low-latency V2X use cases can be delivered via cellular V2N2X services, utilizing Edge Compute.

The Electronic Emergency Brake Light (EEBL ISO 20901) use case is the example shown.

Demo Overview



Electronic Emergency Brake Light (EEBL) is a V2V service that alerts drivers to hard braking by a vehicle far ahead.

EEBL mitigates rear-end collisions by transmitting warnings to nearby vehicles, at low-latency, before a driver observes the brake lights.

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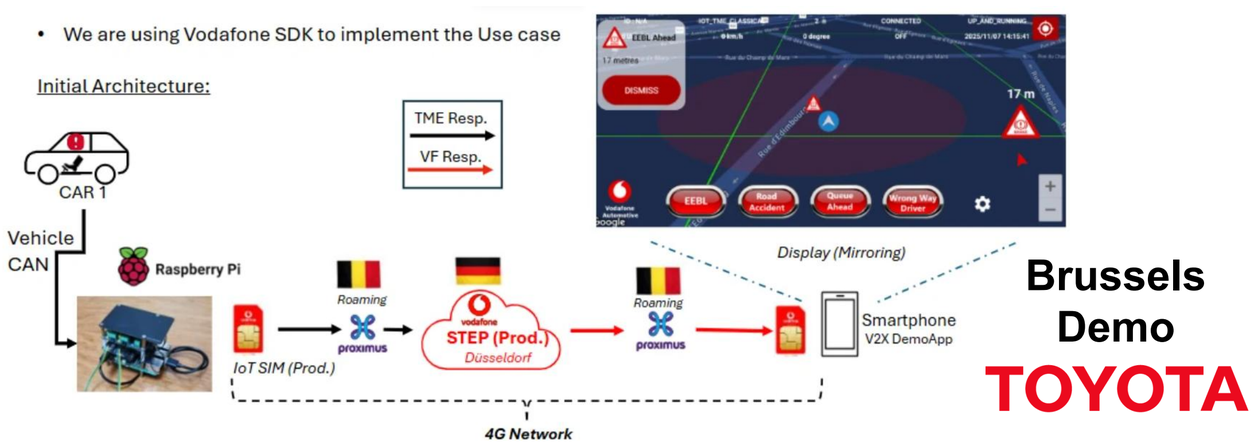
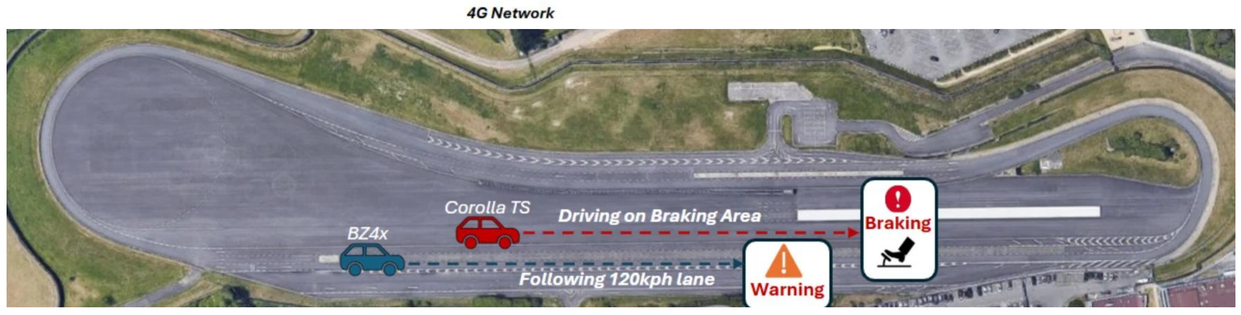


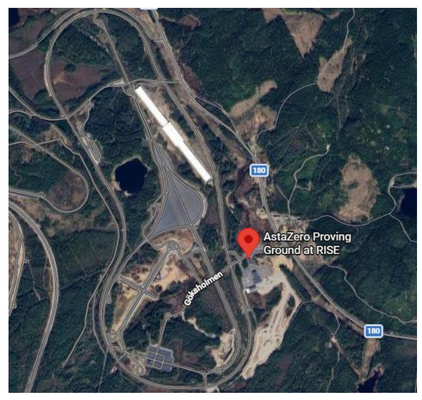
Brussels Demo

TOYOTA



The EEBL use case will also be shown at the RISE AstaZero test track, on the **5GAA Demo day** (Thu 23rd April 2026)

This EEBL demo will utilise Vodafone STEP V2X integrated into **JOYNEXT** TCUs



5GAA Gothenburg Demo

Enabling Technology

Vodafone STEP is a Service to distribute, broker and validate **V2X** messages in real-time leveraging **5G** and **Edge Cloud**, with the aim of making our roads safer.