

V2X-EQUIPPED CANYON BIKE HERALDS NEW DAWN OF CAR-BIKE COMMUNICATION

Pioneering project sees Canyon integrating vehicle-to-everything communication in its Roadlite:ON V2X concept – a high-performance, ready to ride, urban e-bike package.



Embargoed until 16:00 CEST, Monday 22 June 2026: Bicycle manufacturer Canyon has unveiled a groundbreaking e-bike concept featuring integrated Vehicle-to-Everything (V2X) communication technology. Trialled with support from Volkswagen, the **Canyon Roadlite:ON V2X** marks the first time the automotive industry's latest connectivity standards have been fully integrated into a production-ready urban e-bike.

The technology aims to address a growing safety disparity on modern roads. Over the past decade cars have become inherently safer and motorist deaths have fallen. As it stands though, the bike industry has not kept pace with the auto industry, and the number of cyclists killed or seriously injured on our city streets is rising.

The advance of Vehicle-to-Everything (V2X) technology is already making cars safer by enabling real-time, wireless communication between vehicles, infrastructure, and pedestrians. Now, V2X is closer than ever to reaching the bicycle market. With a V2X-equipped Roadlite:ON concept bike appearing at Eurobike, the annual

bicycle industry showcase, Canyon is demonstrating its contribution to cooperative mobility for the safety of all road users and the elimination of cyclist fatalities and serious injuries in traffic.

A world's first...

Canyon's Roadlite:ON V2X bike is the first to fully implement the latest automotive connectivity standard in a high-performance, production-ready, urban e-bike package.



The concept allows for bikes and equipped cars (or other compatible infrastructure), to detect each other without direct visual contact. A fast-approaching car from the right, obscured by a wall?

- **Driver Alerts:** With a V2X nano board (powered by nfiniity) nestled in the bike's downtube and the V2X / GPS antenna in the head tube, the Roadlite:ON can send signals so in-vehicle screen displays alert drivers to the presence of V2X bikes.
- **Rider Alerts:** When a car approaches, the e-bike alerts the rider via a haptic vibration on the left and/or right side of the handlebar grip. This allows the cyclist to keep their eyes on the road. Visual information can also be displayed on a connected smart device, such as a phone, watch, or bike computer.
- **Smart Infrastructure:** The bike can communicate with compatible city infrastructure currently being trialled in Germany and the Netherlands, enabling features like bicycle-specific "green waves" at traffic lights.



The system is built around the Roadlite:ON's carbon chassis with a compact singlespeed, belt-driven, Bosch hub motor and powered by a long-lasting Bosch e-bike battery, providing reserve V2X power even if the battery capacity for the motor is empty.

Another significant safety benefit comes from the bike's dynamic braking light and radar system, designed to alert drivers to a rider's intended actions and warn them if they are too close.



Canyon Design Engineer Dr. Victor Casas Melo: *"Mobility is only as safe as the most vulnerable user. With the Roadlite:ON V2X, we approached V2X from the cyclist's perspective, tackling the challenges of achieving high positioning accuracy and reliable communication with components compact enough to fit on a bicycle frame."*

"With this technology bicycles can speak, and with it we are proactively contributing to cooperative mobility for the safety of all road users."

Driving Industry-Wide Adoption: When will V2X bikes hit our streets?

The rollout of V2X is already happening. There are new cars with this technology on European streets today — in Germany, Car2X is standard on the Volkswagen ID.7 and an option on the Golf and all-new electric ID. Polo, for example — and pilot projects are underway involving buses and city infrastructure. Moreover, the Coalition for Cycling Safety is bringing together leading road safety experts across diverse sectors to accelerate the widespread deployment of V2X technology. The real question is when V2X use cases specifically focused on cyclist protection will be deployed. Without more bikes equipped with V2X, there is less incentive for car OEMs to prioritize that use case. Canyon is helping to create that catalyst.

For V2X to truly have a large-scale positive impact, the technology needs greater adoption within the cycling industry. By showcasing this technology, we can inspire other cycling brands to embrace V2X. The more bicycle and automobile manufacturers who adopt this technology, the safer our streets can become.

"The Roadlite:ON V2X is an invitation to every user or stakeholder on shared roads (including automobile manufacturers, infrastructure operators and city planners) to accelerate the implementation of use cases that protect vulnerable road users, and cyclists in particular." - Dr. Victor Casas Melo, Canyon Design Engineer.



Where can I find out more about the Roadlite:ON V2X?

At Eurobike 2026 – taking place in **Frankfurt between June 24–27** – Canyon will be showcasing the Roadlite:ON V2X in Hall 11.0, Stand B50, or at Outdoor Demo Space F12, stand B52.

Media Resources

- [Detailed technical information & FAQs](#)
- [Roadlite:ON CF production model information](#)
- [High-resolution V2X imagery](#)

NOTES TO EDITORS:

1. Statistics behind the claim that the number of riders killed or seriously injured each year is rising.

- Over the past decade, the **number of cyclists killed in road accidents in Germany has increased by 20%**, whereas the number of car occupants killed has fallen by 35% (source: Statistisches Bundesamt).
- According to the German Federal Statistical Office (Destatis), **one in six (16.4%) people killed in German road traffic in 2025 was a cyclist**. Compared to 2015, the increase is 20.6%.
- The European Traffic Safety Council reported that **1,926 cyclists were killed on EU roads in 2024**. Cyclists now account for 10% of all road deaths in the EU. Police-reported serious injuries among cyclists increased by 12% between 2014-2024 and 65% of cyclist deaths in the EU result from collisions with motor vehicles.

2. Auto-industry roll-out of V2X

There are an estimated 2-3 million V2X-equipped cars in Europe. Several major automakers and OEMs are integrating Vehicle-to-Everything (V2X) technology into their vehicles, enabling real-time communication between cars, infrastructure, pedestrians, and the cloud to improve safety, efficiency, and mobility. Key automakers and OEMs with V2X capabilities include Toyota, Ford, BMW, Mercedes-Benz, Volkswagen Group, Hyundai & Kia.

The Coalition for Cyclist Safety is a growing alliance of organizations from across sectors - including automobile companies - driving V2X deployment to improve road safety worldwide.

About Canyon

What started in founder Roman Arnold's garage has grown into the world's leading direct-to-consumer bicycle manufacturer. Renowned as one of the most innovative brands in the industry, Canyon designs bikes for every discipline – from road, triathlon and gravel to mountain, city, trekking, and e-bikes.

Canyon partners with the finest athletes and teams on the planet, taking insights from the toughest race conditions to engineer bikes and components for the highest levels of the sport. The result: award-winning bikes that set the standard for performance, innovation, and engineering – built to deliver at the highest level on any terrain.

"Pure Cycling" is the mission driving Canyon to ignite a passion for cycling around the world thanks to a streamlined direct-to-consumer model, smart digital services, and Canyon Stores and service partners offering expert advice, community experiences, and full support. At the same time, Canyon is committed to responsible business practices, sustainable production, and the safety and well-being of employees, partners, and the environment.

Canyon bikes are available at canyon.com, through the Canyon app, and at selected Canyon Stores worldwide.

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