TERAKI tests 5G network autonomy for delivery robots in Kista, Sweden.

TERAKI has put to the test the concept of network-supported autonomy – the use of external sensors to complement an autonomous vehicle's perception via 5G. The trials have been carried out in Kista, Sweden at Ericsson's Automotive Trial Site together with foodora and Ericsson.

BERLIN and KISTA, October 5, 2022 – In a demonstration in Kista, Sweden, TERAKI rolled out an autonomous delivery robot that - next to its own sensors - also used information coming from external sensors via 5G. The concept is known as *5G network-supported autonomy* and it enlarges the autonomous vehicles' understanding of their surroundings by adding information from external sensors, like static street cameras. Thus, the vehicle can act upon its integrated sensors (radar, camera, lidar) and "see what's around the corner" by retrieving data from outside cameras or other sensors, ultimately increasing safety.

The test was part of Kista Mobility Day 2022, where demo activities took off together with foodora and Ericsson. The event provided a space for companies to showcase autonomous driving solutions to a wide audience of decision-makers and researchers in the space of urban mobility and smart city infrastructure.

Hans Skruvfors, foodora CEO, stressed how "sustainable, autonomous robot deliveries will be the future." "Together with our friends at TERAKI, Ericsson, Kista Science City, and the city of Stockholm we are pushing the boundaries to make the future come even faster. With 5G and connected physical sensors in the city environment, we can make autonomous robots deliver even faster and safer than before." shared the CEO on LinkedIn.

The technology, enabled by Ericsson and TERAKI, provides a complementary field of view that allows the robot to perform cross-sensor validation, integrating external sensor data in the 5G mobile edge and building an accurate digital twin of the (traffic participants in an) area. Therefore, network autonomy upgrades the safety of autonomous operations by improving the identification of traffic elements in real-time, significantly reducing latency, and enhancing path planning functions.

The advancement of 5G network autonomy goes beyond autonomous last-mile delivery and it will improve the performance of other use cases such as autonomous forklifts and autonomous cars L2+ cases.

About TERAKI

TERAKI is a Berlin-based, AI-software company specializing in safer autonomous mobility at a lower cost. TERAKI software enables L2+ vehicles to detect and classify objects more accurately in real-time. In a lightweight manner and at the edge, TERAKI software selects and processes large amounts of sensor data (video, radar, and lidar) 10x more efficiently and produces more reliable decisions for safer autonomous operations. Use cases include autonomous driving vehicles such as cars, delivery robots, forklifts, trains, and more. TERAKI holds partnerships with leading chipset suppliers such as Infineon, NXP, Synopsys and ARM.

About Ericsson

Ericsson is a world leader in communications technology and services with headquarters in Stockholm, Sweden. Our organization consists of 100,000 experts who provide customers in 180 countries with innovative solutions and services. Ericsson has the world's leading patent portfolio in cellular technology, with more than 60,000 granted patents. Net sales in 2021 were SEK 232 billion. Ericsson stock is listed on Nasdaq Stockholm and on NASDAQ in New York. Read more on www.ericsson.com

About foodora

foodora is Sweden’s most popular q-commerce platform for home delivery. The company operates in Scandinavia and is a part of the global operating company Delivery Hero with headquarters in Berlin. foodora has over 10000 partners in the form of shops and restaurants, all over Sweden. foodora is active in over 300 locations nationwide, of which over 70 locations have home delivery with our own employed riders.