



11 SUSTAINABLE CITIES AND COMMUNITIES

BREMBO'S COMMITMENT

BRAKE-BY-WIRE, THE BRAKE OF THE FUTURE (STEZZANO, ITALY)

The braking system of the future can play a decisive role in meeting the urgent need for vehicles that are increasingly efficient, interconnected and intelligent, and that contribute to energy recovery, a reduction in weight and fewer emissions. We are on the threshold of a major breakthrough and Brembo has been preparing for this change for the last twenty years. Since 2001, Brembo has invested more and more in R&D activities focused on electric braking systems, also known as Brake-By-Wire.



TARGET

- To optimize energy consumption and reduce emissions.
- To contribute to improving the future transportation system made up of connected, automated and shared vehicles that aim to reduce traffic congestion.
- To advance driving safety through automatic braking systems.



ACTIONS

- Analyze the requirements of the vehicle of the future and its use.
- Design a braking system that is electric, automatic, and connected (Internet of Things).
- Corroborate the braking system to be consistent with the requirements of the vehicle of the future.



RESULTS

- Less traffic congestion in cities.
- Shorter reaction time and braking distance in emergency situations.
- Recovery of electricity during braking and its reuse.
- Reduced energy loss from the vehicle as a result of the braking system.
- Less brake pad wear and fewer particle emissions.



For more information, see:
APP brembo.com/it/BBW/index.html