

For Immediate Release

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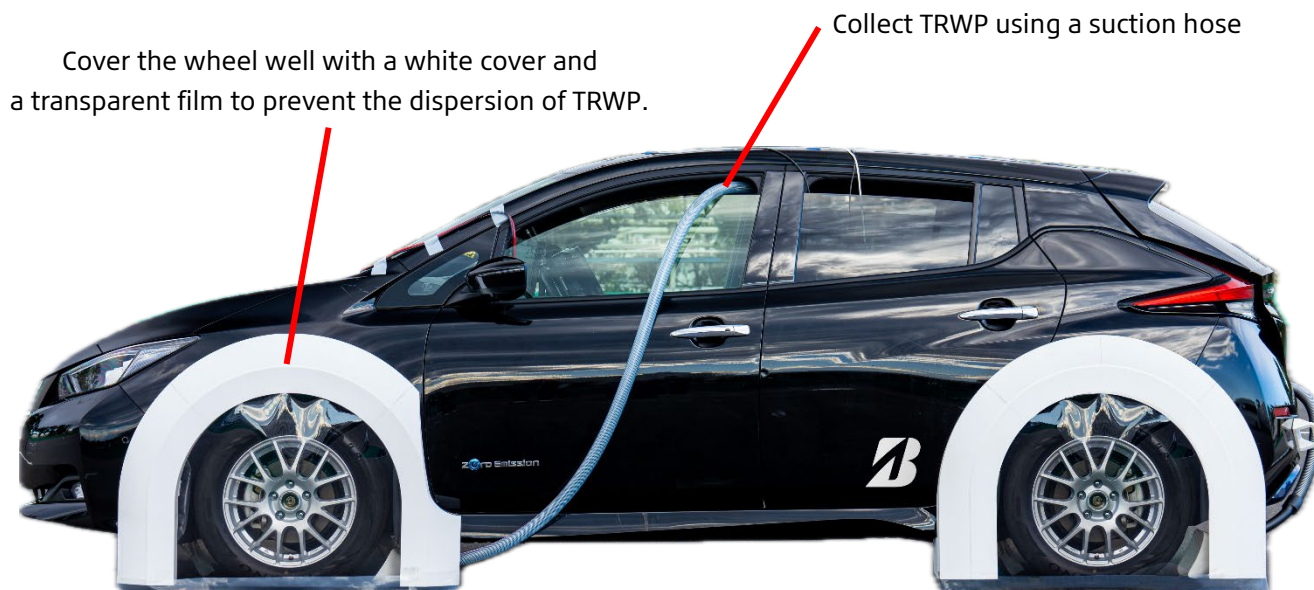
## **Bridgestone Develops Cutting-edge Tire and Road Wear Particles Collection Method to Understand Environmental Impact**

*Company Accelerates Research with Efficient Tire and Road Wear Particles Collection*

**Tokyo (7 March 2025)** — Bridgestone Corporation has developed a cutting-edge Tire and Road Wear Particles (TRWP) vehicle collection method aimed at understanding the environmental impact of TRWP. TRWP are the result of friction between the tire and the road surface, which is essential to ensuring a safe, comfortable journey. It consists of a mixture of tread (tire surface) and road pavement materials. Bridgestone is actively conducting various TRWP research activities to understand the particle size distribution, dispersion behavior, and environmental impact, as well as to develop efficient collection methods. Through these efforts, the Company is committed to both understanding TRWP and reducing its generation.

Bridgestone aims to accelerate research and contribute to the understanding, solutions, and mitigation of TRWP's environmental impact. We have first focused on how the TRWP is generated. While utilizing the B-Mobility proving ground at the Bridgestone Innovation Park in Kodaira, Tokyo, the Company has developed a cutting-edge method that enables the efficient collection of TRWP. Bridgestone has visualized the dispersion of particles such as TRWP by combining a high-speed camera with laser light scattering. Based on these, the Company has created a device that covers the entire tire and captures TRWP efficiently. Furthermore, by utilizing autonomous driving as well as using an electric vehicle with regenerative braking, the collection method enabled the collection of TRWP efficiently in a state that eliminates the influence of exhaust emissions and break dust.

Through our activities to understand TRWP, Bridgestone, as a leader in the industry, has been investigating the physical and chemical characteristics of TRWP and their environmental effects through the Tire Industry Project (TIP) under the World Business Council for Sustainable Development (WBCSD). By efficiently collecting TRWP at a high recovery rate through Bridgestone's newly developed collection method, the Company is accelerating its efforts to assess TRWP's environmental effects in addition to our ongoing co-creation and internal R&D collaboration.



**Device that collects TRWP equipped on an autonomous car**

In parallel with our efforts to understand TRWP, Bridgestone is also promoting initiatives to reduce and minimize TRWP generation, such as the development of long-life products with improved wear resistance and collaboration with our solutions business. Through these efforts, Bridgestone strives to achieve "Ecology: Committed to advancing sustainable tire technologies and solutions that preserve the environment for future generations" described in the corporate commitment, the "Bridgestone E8 Commitment." \*1

The cutting-edge TRWP vehicle collection method developed for this project was also presented at the Tire Technology Expo 2025, held in Hannover, Germany from March 4 to 6.

\*1 The Bridgestone Group established its corporate commitment, the "[Bridgestone E8 Commitment](#)," to help it realize its vision: "Toward 2050, Bridgestone continues to provide social value and customer value as a sustainable solutions company." This commitment will serve as the Group's axis to drive management while earning the trust of future generations. The "Bridgestone E8 Commitment" consists of eight uniquely Bridgestone values starting with the letter "E" (Energy, Ecology, Efficiency, Extension, Economy, Emotion, Ease, and Empowerment) that the Group will commit to creating through distinctly Bridgestone purposes and processes, together with employees, society, partners, and customers to help realize a sustainable society.

**About Bridgestone Corporation:**

*Bridgestone is a global leader in tires and rubber building on its expertise to provide solutions for safe and sustainable mobility. Headquartered in Tokyo, the company employs approximately 130,000 people globally and conducts business in more than 150 countries and territories worldwide. Bridgestone offers a diverse product portfolio of premium tires and advanced solutions backed by innovative technologies, improving the way people around the world move, live, work and play.*