



PRESS RELEASE

LOWBRASYS PROJECT LAUNCH:

Synergy, innovation and international expertise: the key to success for a novel and low environmental impact brake system, financed by the prestigious Horizon2020 Programme.

Kilometro Rosso, Bergamo 11 January 2016 – **Lowbrasys project**, created by five of the most authoritative industrial automotive companies together with five of the most important research institutes and International universities, is a **pioneering advanced research** financed by European Commission Programme **Horizon2020**, aiming at accelerating research, development and demonstration of technologies allowing the efficient use of clean energies in road transport .

The challenge is to develop new generation technologies, materials, advices and recommendations to policy makers to improve driving impact on health and environment through a new systematic, shared and global approach, to achieve a novel and low environmental impact brake system.

Lowbrasys project comes from the collaboration between **Brembo, Ford, Continental Teves, Federal Mogul, Flame Spray**, together with **Mario Negri Institute, Technical University of Ostrava, KTH Royal Institute of Technology, Trento University** and **EC Joint Research Centre**.

This project comes from the awareness that only a systematic approach could have a relevant and innovative impact on markets and citizen's life. Prestigious EU **Horizon2020 financed it with 7 million euro** on 9 million of global commitment. Lowbrasys Project applies to "Mobility for growth" Call, which means to study new technologies for a low environmental impact mobility.

Lowbrasys proposal consists in creating both a new approach and a smart chain to develop and apply more efficient materials regarding particulate emissions and a smarter braking system. Moreover, the consortium will study new instruments to correct drivers behaviors with the aim to lower emissions.

Launched on September 2015, Lowbrasys project in the next 36 months will be developed by a **multidisciplinary team** of researchers and technicians of both automotive industry and academia to study and demonstrate a **low environmental impact brake systems to reduce micro and nano particles emissions by 50%**.

This pre-industrial project will act on different areas: a strict process of reduction, prevention and simulation, testing, validation under real world conditions and recommendations to policy makers, to identify **novel materials and braking systems** which together with drivers' optimal behavior will aim to reach a 50% reduction of particles.

This goal will only be achievable by a **systematic and structured approach** focused by the LOWBRASYS team on the following main targets and objectives:

- Novel materials formulations of the brakes pad and disc in order to reduce the total particle emissions and have a low-environmental impact at the same time (more eco-friendly materials)
- Innovation of environmental friendly braking strategies that optimizes vehicle braking action
- Breakthrough technology for capturing particles near the source in order to further reduce emissions
- System integration and testing of the novel pad, discs, components and control systems to be integrated in vehicles dashboard
- Improvement of the measurement techniques and understanding of the brake effects
- A complete study of best driving practices

The Lowbrasys project will have a **relevant impact in the EU area**, as it would push innovation towards a cleaner and more efficient road transport. It will also contribute to bridge the transition to zero emission vehicles in urban agglomerations, improve urban air quality in the midterm, contribute to 'Super Low Emission Vehicles' standards and in understanding fundamental breaking processes in order to be environmentally more efficient.

A global and relevant project which testifies European companies to be outstanding advanced and applied research centers themselves, working on both industrializing its output and being relevant for an organized and research based legislation.

For further information visit www.lowbrasys.eu or contact the LOWBRASYS team at the following address info@lowbrasys.eu.

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