CONCEPT

In AeroSolfd, three retrofit solutions will be delivered to reduce traffic-related emissions.

These retrofits are key enabling technologies during the transition to zero-exhaust vehicles by electrification and until non-exhaust measures are implemented.

In the long run, brake and closed environment retrofits will continue to play an important role in the electrified road and rail fleet.

Sustainability assessment

tailpipe emissions	brake emissions	pollution in (semi-)closed environments.

cleaner urban air

By applying these three retrofits, quick wins for cleaner urban air are realized. They reduce the overall health and environmental impact of the existing fleet.

A full sustainability assessment will be carried out, covering environmental, health and social dimensions, in line with the EU Green Deal objectives and the UN Sustainable Development Goals (SGDs). The approach is based on environmental and social lifecycle assessment (LCA) and risk evaluation, considering workers and the general population. The results will help to document the improvements in sustainability and societal benefits.

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AeroSolfd
filtration devices

Fast Track to Cleaner Urban Air

aerosolfd-project.eu

ABOUT

AeroSolfd is a Horizon Europe project supported by the European Commission under grant agreement No 101056661.

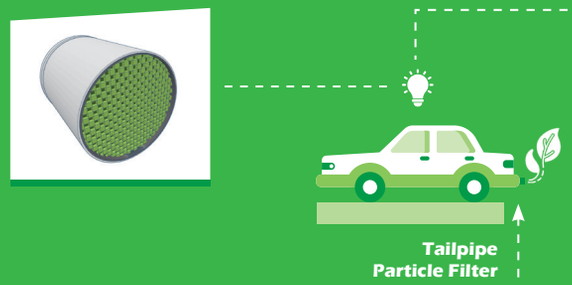
The project is an innovation action focussing on developing market-ready retrofit solutions to immediately decrease the harmful effects on health and the environment of transport-related emissions with effective filtration devices.

AeroSolfd will deliver affordable, easy-to-install and environmentally friendly retrofit solutions to reduce

- **tailpipe emissions**
- **brake emissions**
- **pollution in (semi-)closed environments**

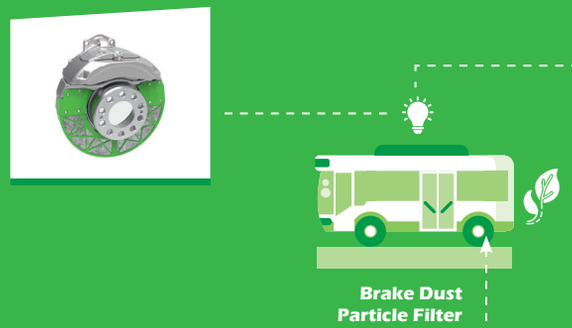
A consortium from nine European countries, coordinated by MANN+HUMMEL, has joined forces to realize the quick deployment so that people in Europe and beyond can benefit already by 2025 from a more eco-friendly mobility.

AEROSOLFD RETROFIT SOLUTIONS



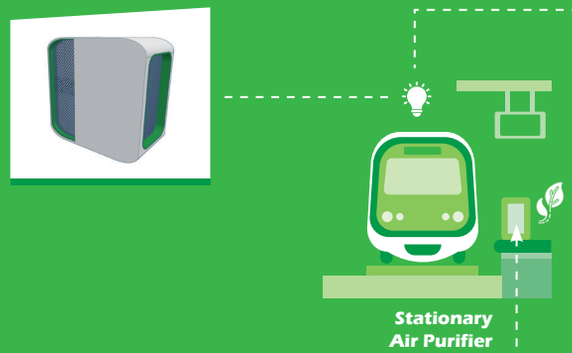
TAILPIPE
RETROFIT SOLUTIONS

AeroSolfd project will develop and demonstrate cost-efficient tailpipe retrofit filters. These will replace the underfloor silencer to reduce Particle number (PN)-emissions by large amounts in existing gasoline vehicles of the high mileage urban fleets currently driving without any filter technology (Euro 6c and earlier).



BRAKE
RETROFIT SOLUTIONS

An existing and proven passive brake dust particle filter (BDPF) concept for passenger vehicles will be modified for bus and commercial vehicle brake applications. Eco-friendly circular design approaches will be used.



(SEMI-)CLOSED ENVIRONMENTS
RETROFIT SOLUTIONS

To decrease the amount of fine particles in (semi-)closed spaces like metro stations, AeroSolfd will provide railway, metro and bus companies or operators with effective stationary air purifiers.

PARTNERSHIP