



Automotive industry

FINDING A SOLUTION

tallano
technologies

THE CHALLENGE

We created Tallano Technologies with the objective of contributing to the solution of five major challenges.

A health challenge:

how to significantly improve air quality and reduce the number of premature deaths due to air pollution?

A technological challenge: how to reduce the emission of fine particles from brake abrasion, which pose serious health and environmental problems, particularly in city centres?

A sustainable mobility challenge:

how to make the air in cities more breathable?

A regulatory challenge:

how to provide car manufacturers with solutions to meet the anti-pollution standards that will become even stricter with the entry into force of the post Euro 6/VI standard in the European Union and its equivalent in Asia and North America?

Finally, an environmental challenge:

how can we prevent large particles made of microplastic, which come from braking and are smaller than 10 µm, from polluting runoff water?

THE SOLUTION

To meet these five challenges simultaneously, we have designed TAMIC®, a breakthrough innovation consisting of adapted brake linings and an electronic control, suction and filtration system that retains fine particles at the source, thus preventing them from being dispersed into the air.

Our product is distinguished by its universal character and ease of use.

It can be fitted to all vehicles, both internal combustion and electric, and requires no maintenance, except for filter replacement every two years or 30,000 km.

We have been working on this product for several years. **We tested it both in the laboratory and in real-life conditions, confronting it with all the conditions that a vehicle may encounter** (temperature, humidity, atmospheric pressure, etc.).

Since 2020, we have been forging partnerships with equipment and systems manufacturers with a view to industrialising and marketing TAMIC®.



Upcoming Euro standard

This European standard tightens the anti-pollution standards and now takes into account the fine particles emitted by brakes.

THE RESULTS AND REFERENCES OBTAINED

As actors in the ecological transition of industrialists, we are responding to a major need.

Our TAMIC® product allows more than 90% of the fine particles emitted to be sucked up at source, which is beneficial for all those involved in transport (equipment manufacturers, manufacturers, cities and citizens).

All car manufacturers and suppliers can use our innovation as our business model is based on licensing.

We have also been selected in the VERA (Vehicles Emission Retrofit Activities) Consortium in which different retrofit solutions will be developed to reduce brake particulate emissions from road and rail vehicles.

Finally, we are working with Veolia to set up a downstream process to treat this fine dust.