

Project

The project demonstrates in a precise way the efficiency of a treatment system of application on asphalt paving for the elimination of Nitrogen Oxides (NOX) in the urban environments.

This action is completely aligned with the EU objectives in general and with the ones of the Call of LIFE+ in particular concerning the Urban Environment



With the contribution of LIFE financial instrument of the European Union



Partners



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**Surface Treatment for
Asphalt pavements to
Nitrogen oxides removal**

LIFE12 ENV/ES/000749



Objective

The main idea of the project is to develop the concept of “new anti-polluting roads” with application inside the cities. Combined with the new management structures and the urban traffic control and with other measures, it will help with the NO_x concentration reduction in urban environments as stressed in the Directive 2008/50/EC.

The Nitrogen Oxides elimination is obtained by using the heterogeneous photocatalysis, advanced oxidation technology that uses a photocatalyst (Titanium dioxide TiO₂) and solar radiation.

During the project it is intended to accomplish a demonstration of the working process of a photocatalytic formulation on a located area of the city of Madrid that will be completely sensorized in order to obtain all the needed information for the assessment of air quality in these particular area.



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Actions

Selecting locations for the application of FENIX system

Installation and evaluation of sensor network

Preparation of the photocatalytic formulation

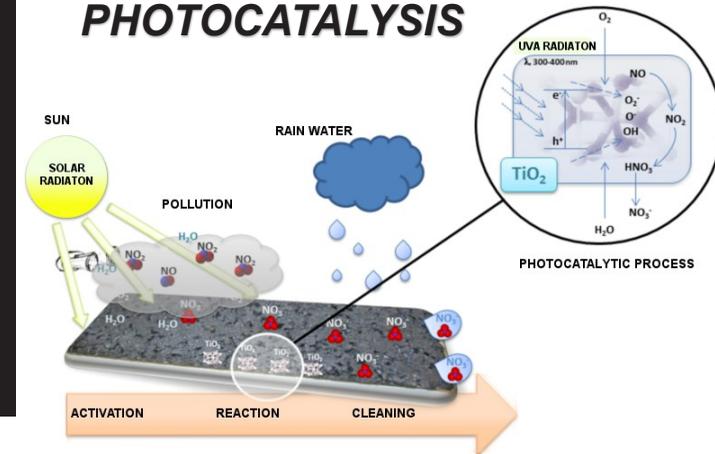
Information gathering and interpretation

Performing trial tests

Environmental assesment (Life-cycle analysis and Carbon Footprint)



PHOTOCATALYSIS



***LIFE EQUINOX** is a 3 years long demonstration project. It is planned to treat a surface of, approximately, 100,000 m² of asphalt pavement in Madrid*

