

EXPECTED RESULTS

New sustainable mobility policy based on vehicles monitoring with advanced remote sensing devices, RSD+, which allows:

- ✔ Control and quantify traffic emissions in real driving condition;
- ✔ Create a global system for traffic emissions management.

Public model: Spanish pilot (Madrid). Monitoring of 700,000 vehicles per year. It is estimated emission savings of 14.8% (CO), 2.8% (HC) and 22.7% (NOx, NO and NO₂) of the total volume of emissions with the repair of the High Emitters.

Fleet model: Bulgarian pilot (Sofia). A controlled fleet of 150 buses will be continuously monitored. Reparation of the top pollutant buses will reduce their emissions up to 84%. Fuel savings are expected to reach 3-5%.

The success of this two pilots will allow to replicate this initiative in other EU countries.

Contribute to the development of technologies that encourage the reduction of traffic emissions.

Protect EU citizens' health and improve their wellness.

www.lifegystra.eu

info@lifegystra.eu



CLEAN AIR,
CLEAN
LIFE

PARTNERS

[CENTRO TECNOLÓGICO] CARTIF



Global system for
Sustainable
TRAFFIC emissions
management



LIFE16 ENV/ES/000082

www.lifegystra.eu



OBJECTIVES

Demonstrate that applying appropriate policies based on empirical data, complemented by a vehicles repair system, it is possible to reduce traffic emissions.

Demonstrate that the system for traffic emissions management proposed by LIFE GySTRA could be replicated anywhere.

Development of a new advanced tool based on remote sensing technology, the RSD+.

Measuring real driving emissions of PM, CO, CO₂, HC, NO_x, NO y NO₂ according to EU standards, in a non-intrusive manner, with high accuracy and on a large scale.

Publication and dissemination of the results to different interest groups: scientific circles, public administrations, private companies, consumers and automobile associations, among others.

CHALLENGE 

Reduce traffic emissions

10% of the highest polluting vehicles are responsible for **50%** of the **emissions** caused by traffic

Traffic contributes with **60%** of **total emissions** in major cities

Pollutants as **CO, CO₂, HC, NO_x, NO and NO₂**, besides particulate matter (**PM**), are the main responsible for bad air quality



RSD+ Development

Newly remote sensing device development:

- Allows **monitoring** main exhaust gases, included **NO₂**
- **Non-intrusive** measurements
- **Accurate**
- Working on **real driving** conditions

Strict tests for device validation

DEMONSTRATIONS

MADRID
Public

SOFIA
Fleet

2 RSD+ will monitor Madrid's fleet during **23 months**: a total of **700,000 vehicles** per year

1 RSD+ monitor Sofia's public bus fleet during **23 months**: a total of **150 buses**