



EUROCITIES 2016 – MILAN – SHARING CITIES 18 November 2016 - Speed Networking Session

LIFE MONZA

Methodologies fOr Noise low emission Zones introduction And management

LIFE15 ENV/IT/000586

SCOPE

The introduction of *Low Emission Zones*, an urban area subject to road traffic restrictions in order to ensure compliance with the air pollutants limit values, set by the European Directive on ambient air quality (2008/50/EC), are common and well-established actions in the administrative government of the cities and the impacts on air quality improvement are widely analyzed, while the effects and benefits concerning the noise have not been addressed in a comprehensive manner. The definition, the criteria for analysis and the management methods of a *Noise Low Emission Zone* are not yet clearly expressed and shared.

LIFE MONZA project (Methodologies fOr Noise low emission Zones introduction And management - LIFE15 ENV/ IT/000586) addresses these issues.

OBJECTIVES

The **first objective of the project**, co-funded by the European Commission, is to introduce an easy-replicable method for the identification and the management of the *Noise Low Emission Zones*, an urban area subject to traffic restrictions, whose impacts and benefits regarding noise issues will be analyzed and tested in the pilot area of Libertà district of the city of Monza, located in North Italy.

The **second objective** is to turn the Libertà district of the city of Monza in a permanent Noise Low Emission Zone, introducing specific *top-down measures*, concerning traffic management, introduction of pedestrian crossing and road paving substitution.

The **third objective** is to reduce the average noise levels in Libertà district, with positive effects also on the air quality and benefits on health indicators.

The **fourth objective** is to involve people in an active management system of lifestyle choices, related to the reduction of noise and the improvement of health and air quality in their living and/or working environment. These *bottom-up activities*, able to encourage people involvement and the

dialogue between public bodies and citizens, include meetings in primary and high schools to raise awareness about a sustainable home-school mobility system; ideas contest in primary and high schools for the definition of the Noise Low Emission Zone picture and logo; questionnaires on quality of life and noise perception; use of the mobile App, developed throughout the course of the project, devoted to manage *voluntary and sustainable actions* carried out by citizens.

The monitoring and the analysis of the effects due to the introduction of the *Noise Low Emission Zone* in pilot area, particularly on noise reduction and also on air quality improvement and on the wellbeing conditions of the residents in pilot area, will be carried on.

Regarding the noise monitoring phases planned in pilot area, the activities will be carried on referring to the standard methods, using sound level meters of class I precision, and also by developing and using a smart low-cost monitoring system.

A prototype system for smart monitoring activity of noise will be design and implemented, in order to be used as a continuous monitoring unit in the ex ante and ex post scenarios.

The methodology will contribute to the implementation of the EU 2002/49/EC Environmental Noise Directive (END), which requires noise action plans to be drawn up, designed to manage noise issues and effects, including noise reduction. The Annex V of the END, defining *Minimum requirements for Action plan*, identifies some actions, as traffic planning and land-use planning, but does not specify the adoption of LEZ as a noise reduction measure. LIFE MONZA project aims to provide the definition of LEZ in relation to noise pollution and related management criteria, and it will contribute to the implementation of noise action plans set out in Annex V of the directive.

The project started on 1st September 2016 and the completion date is scheduled for 06.30.2020.

PARTNERS BENEFICIARIES

Coordinating beneficiary:

ISPRA - Italian National Institute for Environmental Protection and Research



Associated Beneficiaries:

Municipality of Monza



University of Florence



Vie.En.Ro.Se Engineering Society



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