

# First monitoring visit

Monza, 26 April 2017





## Application and main goal of the project

The introduction of the Low Emission Zones, urban areas subject to road traffic restrictions, in order to ensure compliance with the limit values for air pollutants, set by the Directive on ambient air quality (2008/50/EC), is a widespread action in the administrative practice of cities and the positive impacts on air quality have been extensively analyzed, while the effects and potential benefits regarding noise pollution have not yet been fully addressed.

The definition, adopted criteria for the creation and management of the Noise Low Emission Zones aren't clearly define and shared.

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

1°

The first goal of the project is to introduce an easily replicable method for the identification and management of NLEZ, an urban area with low noise emissions, subject to road traffic restrictions, whose impacts and benefits will be analysed and tested in the pilot area of the city of Monza.



### **Further project goals**

2°

The second goal regards the **top-down measures**, actions undertake by Municipality able to change the pilot area into a permanent «Noise LEZ», who include traffic management, changing of road surface and the introduction of two new pedestrian crossing.

3°

The third objective is to reduce the average noise levels in the pilot area of the Libertà district, with positive complementary effects also on air quality and benefits on the well-being conditions of the citizens.



The fourth objective is to involve people in an active management system for more sustainable life choices (bottom-up measures), with effects on noise reduction, improved air quality and well-being conditions, in living and working environments.



#### Measurements for the NLEZ introduction and dialog with the citizen and institutions

**top-down measures** adopted by the Municipality and capable of transforming the area into a permanent Noise LEZ:

- road traffic management (speed limits and forbidden access to trucks);
   replacement of road pavements;
- introduction of two protected pedestrian crossings.

**bottom-up measures** active involvement of the population in the definition of a different and more sustainable life-style. In order to involve residents and to strengthen the dialogue between citizens and institutions, many actions will be undertaken, among them:

- meetings in primary and secondary schools to inform about the effects of noise;
   Ideas competition for the logo and a symbolic image of the NLEZ;
- questionnaires on perceptions of noise impacts; on quality of life, air quality, social aspects;
- use of a mobile App, developed during the course of the project, dedicated to the management of sustainable actions, undertaken voluntarily by citizens.



#### Analysis and monitoring activities in the pilot area

**Goal**: reduce the avarege noise levels in the pilot area of Libertà district, with complementary and positive effects on air quality and benefits on well being conditions of the citizens.

Monitoring of acoustic pollution

- Traditional method and instrumentation
- Smart low-cost sensors

Monitoring of air quality

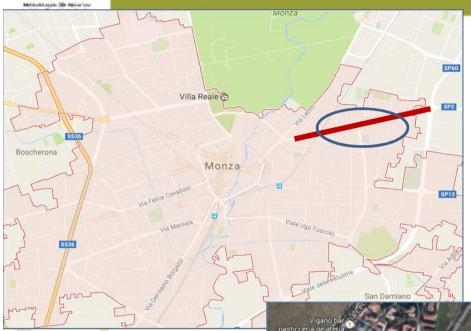
- Requirtements of European guideline
- Passive sampling

Life quality

Questionnaire



#### Pilot Area – Libertà district - Monza



The Libertà district is identified as a critical area in the Action Plan drawn up in accordance with the END Directive, relating to the determination and management of environmental noise.

The strategic map of the Municipality of Monza (2012) shows that in the 30 m zone from Viale Libertà 100% of the receptors are exposed to noise levels higher than 65 dB(A) during the day and 55 dB(A) during the night.



### **Project data**

**Beneficiaries** 

Coordinator: ISPRA - Istituto Superiore per la Protezione e la Ricerca Ambientale

Associated beneficiaries: Comune di Monza

Università di Firenze

Vie en.ro.Se. Ingegneria srl

Start of the project: 1° September 2017

Ending of the project: 30 June 2020

Total Budget: 1,745,829.00 €

Funding EU: 942,661.00 €

# A. Preparatory actions

 ✓ A1 Operational context for Noise Low Emission Zones (LEZ) detection and management B.
Implementation actions

- ✓ B1 TOP-DOWN actions planning in the
  pilot area.
- ✓ B2 BOTTOM-UP actions planning in the pilot area and public and stakeholders information and participation
- √ B3 Prototype of monitoring system for Noise LEZ design - data analysis techniques definition
- ✓ B4 Pilot area actions implementation
- ✓ B5 Monitoring and data collection for impact assessment
- ✓ B6 Noise LEZ Guidelines

C.

Monitoring of the impact of the project actions

✓ C1 Monitoring of the impact of the project actions. The monitoring activities in the pilot area will be carried out up to three years after the

project and project.

Output

Description

Output

Description

Output

Description

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Description

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Description

Descripti

## D.

Public awareness and dissemination of results

- D1 Information and awareness raising activities regarding the project to the general public and stakeholders
- ✓ D2 Technical dissemination activities to stakeholders could usefully benefit from project's experience

Project management

- E1 Coordination, Monitoring and Project Management
- ✓ E2 After-LIFE Plan



### Frame of the project

Operational context for Noise Low Emission Zone (LEZ) detection and management (ISPRA);

**B**1

TOP-DOWN actions planning in the pilot area (MONZA)

**B2** 

· BOTTOM - UP actions planning in the pilot area and public and stakeholders information and participation (MONZA)

**B3** 

• Prototype of monitoring system for Noise LEZ design - data analysis techniques definition (UNIFI)

**B4** 

Pilot area actions implementation (MONZA)

**B5** 

Monitoring and data collection for impact assessment (VIENROSE)

**B6** 

Noise LEZ Guidelines - (ISPRA)

Monitoring of the impact of the project actions (UNIFI)

Public awareness and dissemination of results (VIENROSE)

Project Management (ISPRA)



# Frame of the project

	Name of the ACTION	SUB ACTIONS
A.1		A1.1 Legal and Environmental framework for Noise LEZ introduction - MONZA
	Low Emission Zones (LEZ)	A1.2 Operational context: Noise Monitoring Systems - ISPRA
	detection and management)	A1.3 Operational context: Air Quality Monitoring Systems - ISPRA
	(ISPRA)	A1.4 Operational context: Health indicators - UNIFI
		A1.5 Operational context: interventions and expected effects on air quality, noise and health - VIENROSE
B.1	TOP-DOWN actions planning	B1.1 Noise LEZ formal definition, introduction and establishment. Public tender for top-down intervention realization - MONZA
	in the pilot area (MONZA)	B1.2 Interventions detail design - VIENROSE
B.2	BOTTOM - UP actions	B2.1 Stakeholders/public participation in bottom-up actions proposal and management MONZA-UNIFI-VIENROSE
	planning in the pilot area and	B2.1.1 Public involvement, meetings organization, ideas contest - MONZA
	public and stakeholders	B2.1.2 Public involvemente: health aspects - UNIFI
	information and participation	B2.1.3 Public involvement:environmental aspects - VIENROSE
	(MONZA)	B2.2 Bottom-up actions detail design and APP realization-MONZA
		B2.3 People involvement:use cases identification and APP design to manage public participation - UNIFI
B.3	Prototype of monitoring	B3.1 Smart continuous monitoring system: Prototype for Noise LEZ design - data analysis techniques definition -
	system for Noise LEZ design -	UNIFI
	data analysis techniques	B3.2 Smart continuous monitoring system: input on noise monitoring system - ISPRA
	definition (UNIFI)	B3.3 Smart continuous monitoring system: input on noise data analysis and management - VIENROSE
B.4	Pilot area actions	B4.1 Top-down interventions implementation -MONZA
	implementation (MONZA)	B4.2 Bottom-up interventions implementation and management: public meetings organization and monitoring of the public involvment - MONZA
		B4.3 Support on bottom-up actions implementation (App management)- UNIFI
		B4.4 Support on bottom-up actions implementation (school meetings, training activities on noise and other pollutants effects)- VIENROSE
B.5	Monitoring and data	B5.1 Smart continuous monitoring by prototype system on noise and system's check - UNIFI
	collection for impact	B5.2 Noise and Traffic ex ante /ex post monitoring - VIENROSE
	assessment (VIENROSE)	B5.3 Air quality ex ante /ex post monitoring - ISPRA
		B5.4 Health ex ante /ex post monitoring- UNIFI
		B5.5 Bottom up actions: ex ante/ex post people participation - MONZA
		B5.6 Air Quality modelling - ISPRA
		B5.7 Intermediate assessment and Top down/bottom up overall data collection and systematization - VIENROSE

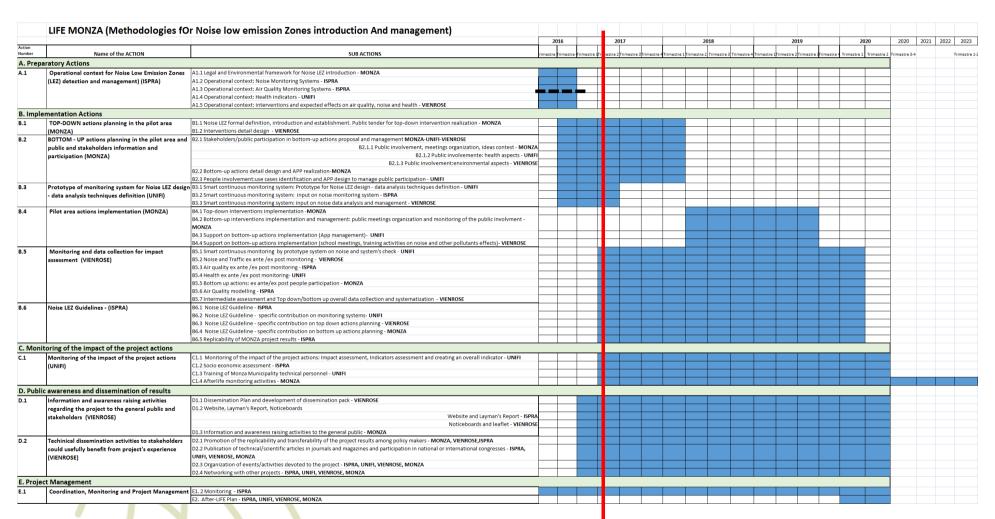


## Frame of the project

B.6	Noise LEZ Guidelines - (ISPRA)	B6.1 Noise LEZ Guideline - ISPRA				
		B6.2 Noise LEZ Guideline - specific contribution on monitoring systems- UNIFI				
		B6.3 Noise LEZ Guideline - specific contribution on top down actions planning - VIENROSE				
		B6.4 Noise LEZ Guideline - specific contribution on bottom up actions planning - MONZA				
		B6.5 Replicability of MONZA project results - ISPRA				
C.1 Monitoring of the impact of the project actions (UNIFI)		C1.1 Monitoring of the impact of the project actions: Impact assessment, Indicators assessment and creating an overall indicator - UNIFI				
		C1.2 Socio economic assessment - ISPRA				
		C1.3 Training of Monza Municipality technical personnel - UNIFI				
		C1.4 Afterlife monitoring activities - MONZA				
D.1	Information and awareness	D1.1 Dissemination Plan and development of dissemination pack - VIENROSE				
	raising activities regarding the	D1.2 Website, Layman's Report, Noticeboards				
	project to the general public	Website and Layman's Report - ISPRA				
	and stakeholders (VIENROSE)	Noticeboards and leaflet - VIENROSE				
		D1.3 Information and awareness raising activities to the general public - MONZA				
D.2	Techinical dissemination activities to stakeholders	D2.1 Promotion of the replicability and transferability of the project results among policy makers - MONZA, VIENROSE, ISPRA				
	could usefully benefit from project's experience (VIENROSE)	D2.2 Publication of technical/scientific articles in journals and magazines and participation in national or international congresses - ISPRA, UNIFI, VIENROSE, MONZA				
		D2.3 Organization of events/activities devoted to the project - ISPRA, UNIFI, VIENROSE, MONZA				
		D2.4 Networking with other projects - ISPRA, UNIFI, VIENROSE, MONZA				
E.1	Coordination, Monitoring	E1. 2 Monitoring - ISPRA				
	and Project Management					
	(ISPRA)	E2. After-LIFE Plan - ISPRA, UNIFI, VIENROSE, MONZA				



## Frame of the project





## **Project's MILESTONES**

N°	MILESTONE	Number of the associated action	Expected Deadline	Delivered	Partner Responsabil e
1	Project Kick Off / nomination for committees	E1	31/12/2016	28/09/2016	ISPRA
2	Intervention detail design	B1	30/06/2017		VIENROSE
3	Smart noise monitoring prototype realization	B3	30/06/2017		UNIFI
4	App to manage public participation design	B2	31/03/2018		MONZA
5	Limited Traffic Zone formal introduction	B1	31/03/2018		MONZA
6	Pilot area ante-operam data collection completion	B5	30/06/2020		VIENROSE
					+ Partners
					coinvolti
7	Public tender for intervention implementation assignment	B1	31/03/2018		MONZA
8	TOP-DOWN Intervention completion	B4	30/06/2018		MONZA
9	Report on participatory activities (tecniques, statistics, results)	B4	30/06/2019		MONZA+Par tners coinvolti
10	Pilot area post-operam data collection completion	B5	30/06/2020		VIENROSE + Partners coinvolti
11	Guidelines on methodologies for the implementation of Noise Low Emission Zone introduction and management issuing	B6	31/03/2020		ISPRA + Partners coinvolti
12	Final Event	E1	30/06/2020		ISPRA



N°	Nome of the Deliverable		Expected	Delivered	Doutney Despenselis
	Name of the Deliverable		Deadline Expected	Delivered	Partner Responsabile
1	Monitoring Protocol	E1	30/11/2016	15/12/2016	ISPRA
2	Abacus on operational context on Noise Low Emission Zone (sections	A1	31/12/2016	28/02/2017	ISPRA + Partners coinvolti
	devoted to noise, air, traffic, health topics)				
3	Dissemination Plan	D1	31/12/2016	31/12/2016	VIENROSE
4	LIFE MONZA Web-site	D1	31/3/2017	Attività in corso	ISPRA
5	Design documentation, containing technical specifications and terms of	B1	30/06/2017		MONZA+VIENROSE
	contract to be used for the tender				
6	Prototype realization and installation	В3	30/06/2017		UNIFI
7	Report on BOTTOM-UP actions detail design	B2	31/03/2018		MONZA
8	Proceedings of National Workshop in Florence	D2	31/12/2018		UNIFI
9	Radio advertising (4 campaigns)	D1	30/09/2019		MONZA
10	Report on Ante and Post operam data collection	B5	30/09/2019		VIENROSE + Partners coinvolti
11	Proceedings of National Workshop in Monza	D2	31/12/2019		MONZA
12	3 different press relises (project inception, starting of pilot actions, end	D1	31/03/2020	20/7/2016	MONZA
	of project)			17-22/12/2016	
13	Guidelines on methodologies for the implementation of Noise Low	В6	31/03/2020		ISPRA
	Emission Zone introduction and management				
14	Guidelines on methodologies for the implementation of Noise Low	В6	31/03/2020		ISPRA
	Emission Zone introduction and management – English version				
15	Replicability of MONZA project results	B6	31/03/2020		ISPRA
16	1 scientific publication on scientific journals and conference proceedings	D2	30/06/2020		ISPRA
	in english language (specific topic: Noise LEZ/environmental sociology)				
17	10 scientific publications on scientific journals and conference	D2	30/06/2020	Submitted 1	Partners coinvolti
	proceedings in italian language	02	30,00,2020	abstracts AIA'17	Tantale Someon
18	12 leaflets in Italian language (printed in at least 1000 copies eac one)	D1	30/06/2020	assilucis AIA 17	VIENROSE
19	15 Noticeboards in Italian language (printed in at least 1000 copies each	D1	30/06/2020	15/11/2016	VIENROSE
	one)		30,00,2020	26/4/2017	VIEIGIOSE
20	3 scientific pubblications on scientific journals and conference	D2	30/06/2020	20,4,2011	ISPRA
	proceedings in English language (Specific topics: Noise LEZ/ air quality)		30,00,2020		
1	1 processings in English language (specific topics, Noise EEZ) an quality)		I	l	Į į



## **Project's DELIVERABLES**

of the Deliverable  Intific pubblications on scientific journals and conference proceedings ish language (Specific topics: Noise LEZ/ public health)  Ceboards in English language (printed in at least 30 copies each one)  Intific pubblications on scientific journals and conference proceedings ish language (Specific topics: Noise LEZ/ noise)	Number of the associated action D2 D1 D2	30/06/2020 30/06/2020	Delivered  Notice boards E/I	Partner Responsabile UNIFI
ish language (Specific topics: Noise LEZ/ public health)  ceboards in English language (printed in at least 30 copies each one)  ntific pubblications on scientific journals and conference proceedings	D2 D1		Notice boards E/I	UNIFI
ish language (Specific topics: Noise LEZ/ public health)  ceboards in English language (printed in at least 30 copies each one)  ntific pubblications on scientific journals and conference proceedings	D2		Notice boards E/I	
ish language (Specific topics: Noise LEZ/ public health)  ceboards in English language (printed in at least 30 copies each one)  ntific pubblications on scientific journals and conference proceedings	D1		Notice boards E/I	
ceboards in English language (printed in at least 30 copies each one) ntific pubblications on scientific journals and conference proceedings		30/06/2020	Notice boards E/I	VALENDOCE
ntific pubblications on scientific journals and conference proceedings		30/06/2020	Notice boards E/I	
	D2		(27/11/2016)	VIENROSE
		30/06/2020	Submitted	VIENROSE+
		' '	2 papers ICSV 2017;	ISPRA+UNIFI
			2 abstracts Acoustics'17	
IFE Plan	E2	30/06/2020		ISPRA
t 10 power point presentation to be presented in Cities Networks	D2	30/06/2020	<b>EUROCITIES WG NOISE</b>	Partners
ng			MUNICH – SEPTEMBER	coinvolti
			2016, 1 presentation	
			FONOMOC Meeting 24	
			March, Paris,	
			1 presentation	
t 4 divulgative short articles in English language	D2	30/06/2020	ONDA VERDE JOURNAL	Partners
			– JAN 2017	Coinvolti
roject Report	E1	30/06/2020		
n's Report	D1	30/06/2020		ISPRA
edings of International final event in Rome	D2	30/06/2020		ISPRA
on overall project impact	C1	30/06/2020		UNIFI
	C1	30/06/2020		ISPRA
of socio economic impact	C1	31/03/2020		UNIFI
of socio economic impact g materials to manage smart monitoring system and impact	I	1		
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LIFE MONZA (LIFE15 ENV/IT/000586)



### **MEETINGS**

MATRICAL STREET, STREE	Magies (Qr. Nésse Leur n. Europi, introdustates						
			6 GEN	ERAL	MEETINGS		
	Start up Kick Off Meeting 28 September 2016	Mid Term	Mid Term		Mid Term	Mid Term	Final
	PERIC			DIC	MEETINGS		
	PM/CO-PM, technicians and involved consulenties			To decide if continue or not one specific action (GO/NO GO ACTION)			
(	Technical and Administrative Staff 1° Periodic Meeting: 15-16 December 2016)				Reports to be strol of the respec	e Technical and Ace sent to the Commett of the established objective	mission; ed deadlines and

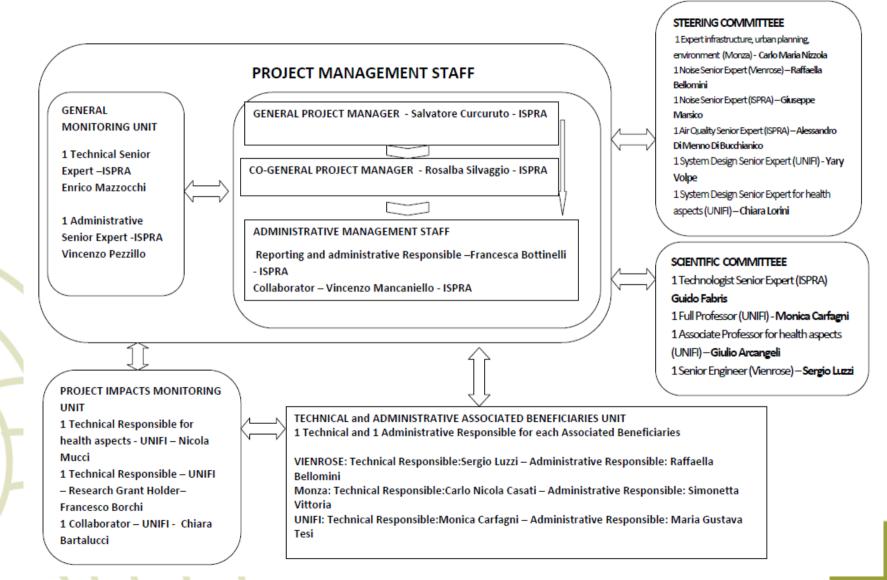
Monitoring of Project Impact e
Monitoring Unit

Monitoring of Project and Impact of the actions
Monitoring Unit

Moreover, in order to follow the monitoring activities and the interventions in the pilot area, functional to draft the Guidelines, 4 meetings with all the Partners involved are planned, 2 hosted by ISPRA and 4 by MONZA.

Filling in of the necessary forms and additional documentation required by the European Commission.







## **Monitoring e Reporting**

REPORTING to the EU Commission				
Mid Term Report	28/02/2018			
<b>Progress Report</b>	31/05/2019			
Final Report	30/09/2020			

#### The action E1.2 of the project foresee:

- 1) initial monitoring, within three months from the beginning of the project;
- 2) mid term monitoring, with time intervals of six months.

#### The biannual reports will be structurated in three sections:

- general results assessment in relation of the foreseen objectives (deliverable, meetings, products, ecc.);
- evaluation in terms of efficiency of the working method (communication, participation in meetings of all partners, use of the website, transparency in administrative and financial procedures, respect of deadlines, etc.);
- sheets on the precise monitoring of the activities of each action.

#### 3) final monitoring

- for each completed actions, an indicator GO/NOGO will be determine, basing of the percentage express to progress indicators;
- Financial monitoring, administrative check



Action A1 – Operational context for Noise Low Emission Zone (LEZ) detection and management- ISPRA

Deadline foreseen: 31/12/2016

**Delivering: 28/02/2017** 

**Documents both in Italian and English languages** 

# Abacus on operational context on Noise Low Emission Zone Annexes:

- Legal and Environmental framework for Noise LEZ introduction Annex 1 of Abacus on operational context on Noise Low Emission Zone

- Operational context: Noise Monitoring Systems

Annex 2 of Abacus on operational context on Noise Low Emission Zone

- Operational context: Air Quality Monitoring Systems

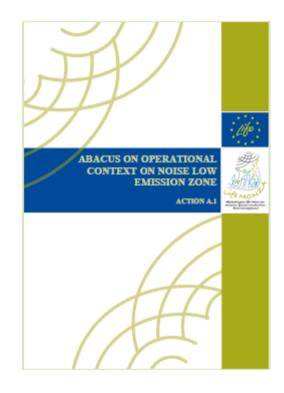
Annex 3 of Abacus on operational context on Noise Low Emission Zone

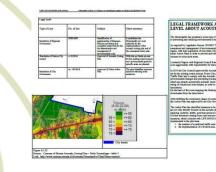
- Operational context: Health indicators

Annex 4 of Abacus on operational context on Noise Low Emission Zone

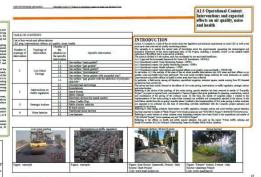
- Operational context: interventions and expected effects on air quality, noise and health

Annex 5 of Abacus on operational context on Noise Low Emission Zone











#### Action B1. TOP-DOWN actions planning in the pilot area – MONZA

**Sub-action B1.1** Noise LEZ formal definition, introduction and establishment. Public Tender for top-down intervention realization - **MONZA** 

Sub- action B1.2 Intervention Detail design – VIENROSE

**Deliverable:** Design documentation, containing technical specification and terms of contract to be used for the tender– 06/2017

#### Milestone:

Limited Traffic Zone formal introduction: 03/2018

Public Tender for intervention implementation assignment: 03/2018

Intervention detail design - 06/2017





#### Action B1. TOP-DOWN actions planning in the pilot area – MONZA

November- december 2016 – Inspections in Viale Libertà for first hypothesis definition of measuring stations and surveys (Vienrose e UNIFI)

- **February 2017** Meeting with Vienrose and UNIFI technicians to define drafting times for the design of the asphalts and materials to be used. Start of the design of zone 30 in the Libertà district
- March 2017 Drafting, by the City of Monza, of the feasibility study for the inclusion of the intervention in the P.OO.PP. 2017-2019. Request for a quote for centralisation of traffic lights at the Libertà/Bertacchi intersection
- April 2017 Meeting on the progress of the preliminary design and inspection of the technicians in Viale Libertà
  - Definition of the start of works for the construction of pedestrian crossings with island
  - Definition of the data necessary for the final design of the resurfacing with low noise flooring Monza, Vienrose and UNIFI

#### Next deadlines:

May 2017 – Delivering of the Preliminary- Definitive project of low-noise road surface work (Vienrose)



# Action B2. BOTTOM — UP actions planning in the pilot area and public and stakeholders information and participation — MONZA

- **B2.1** Stakeholders/public participation in bottom-up actions proposal and management
  - B2.1.1 Public involvement, meetings organizations, ideas context- MONZA
  - B2.1.2 Public involvement: health aspects: UNIFI
  - **B2.1.3** Public involvement: environmental aspects **VIENROSE**
- **B2.2** Bottom-up actions detail design and App realization **MONZA**
- **B2.3** People involvement: use cases identification and App design to manage public participation **UNIFI**

Deliverable: Report on BOTTOM –UP actions detail design – 03/2018



# ACTION B.3: Prototype of monitoring system for Noise LEZ design - data analysis techniques definition - UNIFI

**B3.1** Smart continuous monitoring system: Prototype for Noise LEZ design - data analysis techniques definition - **UNIFI** 

B3.2 Smart continuous monitoring system: input on noise monitoring system - ISPRA

**B3.3** Smart continuous monitoring system: input on noise data analysis and management - **VIENROSE** 

Deliverable: Prototype realization and installation—06/2017 - UNIFI

Milestones: Smart noise monitoring prototype realization—06/2017 - UNIFI



#### Action B4. Pilot area actions implementation— MONZA

#### Sub-action B4.1 Top-down interventions implementation – MONZA

Marzo 2018 – Introduzione della ZTL per i mezzi pesanti

Gara d'appalto per l'asfaltatura di Viale Libertà

Luglio/Agosto 2018 - Realizzazione dell'asfaltatura di Viale Libertà

**Sub-action B4.2** Bottom-up interventions implementation and management: public meetings organization and monitoring of the public involvement – **MONZA** 

Sub-action B4.3 Support on bottom-up actions implementation (App management) - UNIFI

**Sub-action B4.4** Support on bottom-up actions implementation (school meetings, training activities on noise and other pollutants effects) – **VIENROSE** 

Milestones:

Report on participatory activities (techniques, statistics, results – 06/2019 Top-down intervention completion - 06/2018



#### Action B5 - Report on Ante and Post operam data collection - VIENROSE

- **B5.1** Smart continuous monitoring by prototype system on noise and system's check **UNIFI**
- **B5.2** Noise and Traffic ex ante /ex post monitoring VIENROSE
- **B5.3** Air Quality ex ante/ex post monitoring **ISPRA**
- **B5.4** Health ex ante /ex post monitoring **UNIFI**
- **B5.5** Bottom up actions: ex ante/ex post people participation **MONZA**
- **B5.6** Air Quality modelling **ISPRA**
- **B5.7** Intermediate assessment and Top down/Bottom up overall data collection and systematization VIENROSE



#### PILOT AREA – MONITORING ACTIVITY- KNOWLEDGE AND PARTICIPATION

The establishment of a permanent Noise Low Emission Zone involves changes in the lifestyle of citizens. The involvement of residents and users of the area is essential.

In the pilot area, campaigns will be conducted to monitor noise pollution, air quality, using different methods, and questionnaires will be administered on the perception of noise, on the perception of air quality, on the quality of life, on social aspects.

A meeting in the pilot air is planned for May 2017 at the Consulta to explain what will happen in the area, describe the monitoring systems and activities and talk about the questionnaires.

One of the special aspects of the LIFE projects is the demonstrative character of the proposed methods, to be tested in the pilot areas. It could be an opportunity to present the LIFE programme, to explain in particular the importance of the pilot areas and to celebrate the 25th anniversary.



#### Action C1 Monitoring of the impact of the project actions - UNIFI

# C1.1 Monitoring of the impact of the project actions: Impact assessment, Indicators assessment and creating an overall indicator – UNIFI

March-April 2017- Start of activity C1 with bibliographic research on indicators to be used and coordination/meeting (10 March 2017) with coordinator ISPRA.

#### C1.2 Socio economic assessment – ISPRA

November 2016 - December 2016 - April 2017 Work is actively underway to identify the model to be adopted for the unitary questionnaire to be used in the survey conducted in the pilot area.

#### C1.3 Training of Monza Municipality technical personnel – UNIFI

C1.4 Afterlife monitoring activities - MONZA



Action D1 – Information and awareness raising activities regarding the project to the general public and stakeholders - VIENROSE

# Sub-action D1.1 - Dissemination Plan and development of dissemination pack – 12/2016 – VIENROSE

Disseminarion and participation photo album (not foreseen)

Sub-action D1.2 - Web-site, Layman's Report, Noticeboards

Web-site - 03/2017 - ISPRA

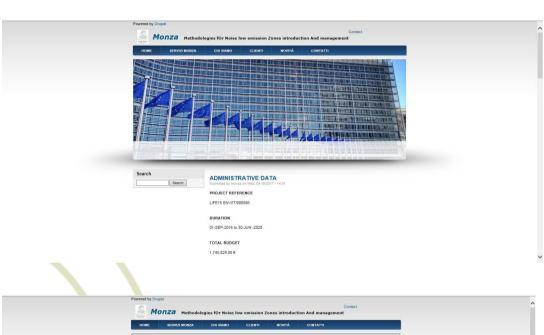
Noticeboards/leafleat producing - VIENROSE

Sub-action D1.3 – Information and awareness raising activities to the general public 3 press conference (1 project inception- svolta a dicembre 2016) – MONZA



Action D1 – Information and awareness raising activities regarding the project to the general public and stakeholders - VIENROSE

#### Sub-action D1.2 -Web-site - 03/2017 - ISPRA







Action D1 - Information and awareness raising activities regarding the project to the general public and stakeholders - VIENROSE

#### Collection of some articles that appeared in the press, related to the project

VIII CRONACHE

TT. CTORNO SARATO 17 DICEMBRE 2014

#### MON7A

#### Viale Libertà mette il silenziatore Fondi europei contro il rumore

Asfalti fonoassorbenti e semafori intelligenti

di MARTINO AGOSTONI MON7A -

ASFALTI sperimentali fonoassorbenti lungo viale Libertà, sensori «smart» di rumore, e control-lo e gestione del traffico con semafori intelligenti e servizi dedicati dei vigili, assieme a campagne di denti, e campagne di sensibilizzazione per abituarsi a comportamenti con minore impatto acustico. È il quartiere Libertà a candidarsi per diventare la prima zona

SPERIMENTAZIONE Zona urbana a basso impatto acustico Dall'Ue un milione

ranno applicati strumenti per la riduzione e il controllo dell'inquinamento acustico. È partito a settembre, ma svilupperà le prime azioni pratiche nell'arco del 2017, il progetto europeo «Life Mon-

per far sperimentare a Monza la creazione di una zona urbana «a basso impatto acustico» che possa fare da modello replicabile in altre città. L'assessorato alla Mobilità, assieme a Ispra, Università di Firenze e Vie En.Ro.Se, la società di ingegneria che nel 2013 ha fat-to la mappatura acustica di Monza, ha partecipato nel 2015 a Bru-xelles a un bando «Life» di promo-zione delle azioni a tutela dell'ambiente proponendo un progetto di «riqualificazione acustica» di za», un'iniziativa da 1,8 milioni di euro che ha ottenuto il ricono-to riconosciuto il finanziamento re, una «Noise Low Emission Zo- scimento dall'Unione Europea di 1 milione che verrà speso nel

quartiere attraversato da viale Li-bertà, lungo l'asse tra via Gallara-na e l'Istituto Mapelli e quindi al-largato alle aree tra via Ragazzi del '99 a nord e via Guerrina a sud. el rumore è la seconda causa di problemi tra le forme di inquidi problemi tra le forme di inqui-namento dopo quello atmosferico - spiega Raffaella Bellomini, della società Vie En.Ro.Se -VI e a Monza c'è l'occasione di sperimentare uno dei primi progetti che a livel-lo europeo ha l'obiettivo di contenerlo attraverso una serie di infrastrutture e interventi stradali, ma anche di diffusione della cultura ambientale». È ad aprile 2017 si svolgerà nelle scuole del quartiere

le emissioni di rumore in partico lare lungo viale Libertà, attraver sata da circa 30mila veicoli in me-dia al giorno. Saranno provati nuovi asfalti fonoassorbenti, saranno inseriti rallentatori come a Km/h, la Ztl per il transito del ca-mion e interventi mirati della Po-lizia locale. Entro fine 2019 saranno quindi valutati i risultati, con l'obiettivo che entro il 2020 il quartiere Libertà sia una «Noise Low Emission Zone».



#### il Cittadino

DA BRUXELLES Fondi al progetto ideato con Ispra, interventi anche contro l'inquinamento acustico

#### L'Europa finanzia il piano antismog: 280mila euro per l'area test al Cristo Re



euro dell'Unione europea per sperimentare progetti innovativi contro lo smog e l'inquinamento acustico.

bando Ue del programma Life+, dea tutela dell'ambiente. «L'area cittadina scelta per la sperimentazione è quella di viale Libertà, zona Cristo Re, importante asse viario di penetrazione fra i più trafficati in un contesto residenziale e di servizi. soprattutto scolastici», fa sapere

Da settembre monitoraggi costanti, nuove pavimentazioni stradale e la promozione di alternative all'auto per i percorsi di quartiere terveto è ideato con Ispra (l'Istituto superiore per la protezione e la ricerca ambientale, che ha sede an-

I finanziamenti arrivano dal che a Brugherio), l'Università di Firenze e la società di ingegneria Vie dicato alla promozione di iniziative En Ro Se di Firenze

«Durante la sperimentazione, oltre ai monitoraggi puntuali sui livelli di rumore, saranno testate tecnologie e prodotti per migliorare la pavimentazione stradale al fine di ridurre l'inquinamento acustico prodotto dal rotolamento degli pneumatici - informa piazza Trento - Poi interventi di restrizione stradale per ridurre la velocità. Una anche alla partecipazione e condidenti e fruitori dell'area, di comportamenti compatibili con la zona a ni-,

tale», come per esempio il ricorso al

Data

Foglio

21-07-2016

Al termine del progetto, che partirà a settembre di quest'anno er terminare nel 2019, «sarà crea o un dossier con linee guida utili a predisporre analoghi interventi in altre aree monzesi e soprattutto in altre città europee

«Siamo molto soddisfatti che Ispra, ente molto autorevole e rife rimento italiano ed europeo per la omozione di politiche ambienta i, nonché gli altri partner del pro alla mobilità Paolo Confalonieri abbiano scelto Monza come città pilota. Questo testimonia la capaci tà della nostra amministrazione d intercettare le opportunità che si presentano anche a livello europeo importante linea di azione è rivolta e la nostra volontà di proseguire nell'individuazione delle migliori visione da parte dei cittadini resi- pratiche per migliorare la qualità della vita e dell'ambiente cittadi

#### PROGETTI Piano antirumor



#### Con "Monza Life" un silenziatore per viale Libertà

 Posa di asfalto realizzato con materiali fonoassor henri relecontrollo dei semafori limite di velocità a 30 chilometri orari: sono alcuni dei provvedimenti che saranno introdotti nel quartiere Libertà per ridurre il rumore provocato dal traffico.

Le misure saranno adottate nei prossimi mesi nel proeetto Monza Life, cofinanziato dall'Unione Europea e attuato dal Comune in collaborazione con l'Ispra l'Università di Firenze e la società di ingegneria Vie En.Ro.Se. «Il rumore - spiega Raffaella Bellomini di Vie En.Ro.Se. - è il secondo grosso problema, dopo la contaminazione dell'aria causaro dagli inquinanti ma è ancora poco conosciuto. Noi abbiamo individuato la zona di viale Libertà per sperimentare l'efficacia di alcuni provvedimenti: se funzioneranno potremo definire le linee guida per le buone pratiche da applicare in altre città europee». «Si tratta - afferma l'assessore alla Viabilità Paolo Confalonieri - di un progetto molto importante, come dimostra il contributo concesso da Bruxelles, che interessa un'area in cui si trovano diverse scuo le, attraversata ogni giorno da 30.000 veicoli»

L'Unione ha messo sul tavolo circa un milione di euro su 1.800,000 euro necessari e in municipio ne arrivoranno 450,000. Il piano è stato avviato a sottombro e si concluderà a giugno 2020; nei prossimi mesi saranno creari alcuni arrraversamenti pedonali protetti ad aprile 2017 partirà il lavoro di coinvolgimento della consulta e delle scuole tra cui il liceo Porta e il Mapelli, fino a giugno proseguiranno i monitoraggi dei livelli di rumore e di trafficomentre nel 2018 viale Libertà sarà asfal tato con materiali all'avanguardia e saranno attuate alcune misure previste dal Biciplan. Il 2019 sarà impiegato per verificare gli esiti e i primi sei mesi del 2020 per trarre le conclusioni dell'intero programma.

I monitoraggi saranno condotti mediante la posa di spire che conteranno i veicoli in transito e un sistema di microfonini che misureranno il rumore. Gli interventi saranno accompagnati da iniziative di sensibilizzazio ne degli abitanti e degli studenti che saranno invitati a muoversi con i mezzi pubblici e le biciclette. Alcun sondaggi riveleranno se, al termine del progetto, qualcuno avra rinunciato ad auto e motorini per gli spostamenti. Al Mapelli la collaborazione compirà un passo ulteriore: gli esperti insegneranno agli aspiranti geometri a utilizzare il fonometro e spiegheranno l'imporranza dei materiali fonoisolanti.

36



Action D2 — Technical dissemination activities to stakeholders could useful benefit from project's experience - VIENROSE

D2.1 Promotion of the replicability and transferability of the project results among policy makers

D2.2 Publication of technical/scientific articles in journals and magazines and participation in national or international congresses

D2.3 Organization of events/activities devoted to the project





#### **Sub-Action D2.4 – Networking with other project**

#### **D2.4 Networking with other projects**









# FONOMOC – The main network for noise monitoring





#### Training Network under the FP7 People Programme

Object: LIFE MONZA - Methodologies fOr Noise low emission Zones introduction And management - LIFE15 ENV/IT/000586

Request for exchange and share information about the noise smart low-cost monitoring systems, in the context of LIFE MONZA - LIFE15 ENV/IT/000586 and LIFE DYNAMAP - LIFE13 ENV/IT/001254

Firenze, November 25th, 2016

Object: LIFE MONZA - Methodologies fOr Noise low emission Zones introduction And management -LIFE15 ENV/IT/000586

Request for exchange and share information about low noise pavings, in the context of LIFE MONZA -LIFE15 ENV/IT/000586 and LIFE NEREIDE - LIFE15 ENV/IT/000268.

Object: LIFE MONZA - Methodologies fOr Noise low emission Zones introduction And management - LIFE15 ENV/IT/000586 Request for exchange and share information about the noise smart low-cost monitoring systems, in the context of LIFE MONZA - LIFE15 ENV/IT/000586 and FONOMOC-FOcus group On NOise MOnitoring Cities.

The Project LIFE BATTLE-CO2 is focused on the technical, environmental and economic feasibility demonstration of biomass incorporation as alternative fuel in the asphalt mix manufacturing, typically linked to the use of fossil fuels

LIFE Capacity Building PT - LIFE14 CAP/PT/000004 - Agência Portuguesa do Ambiente

LIFE MONZA (LIFE15 ENV/IT/000586)



## **Sub-Action D2.4 – Networking with other project**

### **D2.4 Networking with other projects**









