



MILESTONE B

INDICATORS OF PROGRESS

Action E2
Inception report June 2015

IMPROVE LIFE13 ENV/ES/000263



Coordinated by
idæ^a  CSIC





IMPROVE LIFE

Implementing Methodologies and Practices to Reduce
air pollution Of the subway enVironmEnt





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The progress of the project will be assessed every three months, with the state-of-play for each action in turn being critically analysed to highlight any signs of delay or inefficiency. The importance of close adherence to this protocol was emphasised during the celebration of the IMPROVE kick-off meeting. The frequency of such meetings is feasible because both partners are based in the same city, and at a close distance from each other. The indicators to assess the progress of the project had to be described and quantified according to action E2 by 30/11/2014, and will also be revised every 3 months during the rest of the project at every partners meeting. Thus the indicators of progress stated for each action are as follows:



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ACTIONS	INDICATORS OF PROGRESS					OUTCOMES	DEADLINE	DATE	
START	ACTIVITIES FOLLOW-UP	PLANNING			available on-line at:				
A. PREPARATORY ACTIONS									
A1						31/03/2015			
1-oct-14	Construction of 1 historical database of studies examining the methods/models used to identify and resolve the contribution of aerosol emission sources and their major results	31-ene-15				Deliverable 2 Historical source contribution	31-ene-15		
	Elaboration of 1 list of the main parameters identified to be considered in all studies	31-ene-15				Deliverable 4 Parameters to test	31-ene-15		
	Prioritisation of air pollution sources in subway systems	31-ene-15				Milestone D Main Air Pollution sources	31-ene-15		
B. IMPLEMENTATION ACTIONS									
B1						30-jun-16			
1-ene-15	Organisation and coordination of a campaign program	31-ene-15				Campaigns calendar	15-dic-14	31-dic-14	
	Presentation of Technical reports on the advance of:	Campaigns			Report 1	Report 2	Report 3		
	- sampling campaigns	sart	end	30-abr-15	31-oct-15	31-mar-16			
	obras (cambio de balasto, traviesas y vías)	20-ene-15	12-mar-15				Report 1 Campaigns	30-abr-15	
	aire acondicionado series 2000-3000	1-abr-15	30-abr-15						
	ventilación	9-jun-15	30-jun-15						
	aire acondicionado serie 5000	1-jun-15	29-jul-15	30%	70%	100%			
	cambio de carril	1-oct-15	30-nov-15				Report 2 Campaigns	31-oct-15	
	zapatas freno	18-ene-16	15-feb-16						
	ventilación	16-feb-16	7-mar-16						
	pantografo grafito	8-mar-15	23-mar-16						
	- chemical analysis								
	inorganic	20-ene-15	30-jun-16	60	240	600			
	PAH in PM filters								
	NO2 samples								
	- results of the chemical analyses			10%	40%	100%			
	- statistical analysis,	13-mar-15	30-jun-16						
	- results of source apportionment				30%	100%			
	Determination of the impacts of main air pollution sources				31-dic-15		Milestone G Impact of main air pollution	31-dic-15	
	Identification of the main pollutant tracers				31-dic-15		Milestone H Main pollution tracers	31-dic-15	
	Construction of 1 database with concentrations of chemical tracers for pollutant sources in subway systems and the impact of each of them on air quality					31-mar-16	Database 2 Chemical tracers concentration	31-mar-16	
	Characterisation of the emission sources					30-jun-16	Milestone K Characterisation emission sources	30-jun-16	
	Report on the overviewing and comparing the full impacts on air quality of each of the selected parameters					30-jun-16	Deliverable 8 Report sources contribution	30-jun-16	
B2. Testing						30-sep-16			
1-abr-15	Organisation and coordination of a campaign program	31-ene-15					Campaigns calendar	1-dic-14	31-dic-14
	Presentation of Technical reports on the advance of:	Campaigns			Report 1	Report 2	Report 3		
	- testing mitigation measures and estimated benefit in metro ambient air quality	sart	end	30-abr-15	31-oct-15	31-mar-16			
	aportación de balasto con agua	1-abr-15	28-abr-15				Report 1 Campaigns	30-abr-15	
	aire acondicionado series 2000-3000	1-abr-15	30-abr-15						
	aportación de balasto con polvo antiresuspensión	29-abr-15	28-may-15						
	ventilación	9-jun-15	30-jun-15	30%	70%	100%	Report 2 Campaigns	31-oct-15	
	aire acondicionado serie 5000	1-jun-15	29-jul-15						
	zapatas freno	18-ene-16	15-feb-16						
	ventilación	16-feb-16	7-mar-16						
	pantografo grafito	8-mar-15	23-mar-16						
	Proposal of mesures for air pollution emission reduction						Milestone I Propose mitigation mesures	31-may-16	
	Testing of mitigation mesures for emission sources						Milestone J Test mitigation mesures	31-may-16	
	Evaluation of mitigation measures						Milestone L Evaluate mitigation mesures	30-sep-16	
	Report on the results of mitigation measures in subway systems					30-sep-16	Deliverable 9 Report Mitigation measures	30-sep-16	
	Preparation of 1Technical Guidance documentation, identifying and comparing effective strategies for reducing the impact of each selected emission source. (The document will quantify the reduction in PM predicted to result from the application of the strategies, and apply a cost-benefit analysis to balance economic costs against potential health benefits.)					30-sep-16	Deliverable 10 Technical guide mitigation measures	30-sep-16	



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C. MONITORING ACTIONS										
C1										
1-abr-15	Defenition of (Management Team) a list of parameters/indicators to assess the impact of the project including: - initial situation regarding PM levels and sources (Action A1) - identification of air pollution sources during the campaigns (Action B1) - contribution of each of the emission sources identified	after completing action B2			31-dic-16	List 2 Impact indicators	31-dic-16	31-mar-18		
	Nomination of of an external committee to evaluate the progress of the project after 2 years	At expert's workshop	30-jun-15				Commitment of members	30-jun-15		
	Elaboration of 1 Quality plan for the political efectiveness of the project				31-dic-17	Deliverable 12 Report policy effectiveness	31-dic-17			
	Monitor of the impact of the project	During all project's life			Milestone P Monitor the impact of the project		31-mar-18			
C2 Assessment										
1-jul-16	Monitor of the awareness of the problem (annually <i>not every 6 months</i>) with auestionnaire to public: - Number of people participating.	Questionnaire : 30/09/2015	300	Questionnaire : 30/09/2015	300	Questionnaire : 30/09/2017	300	Deliverable 11 Questionairs for public / stakh.	31-dic-17	
	Incentive other metro systems, or local authorities to apply measures proposed by IMPROVE				With Technical Guide (Deliverable 3)	List 3 Replicated mesures	31-mar-18			
	Assessment of the socio-economic effect				During all action duration	Milestone M Assess Socio-economic effect	31-dic-17			
	Report on the socio-economic impact of the project				31-mar-18	Deliverable 18 Report Socio-economic Impact	31-mar-18			
D. COMMUNICATION AND DISSEMINATION ACTIONS										
D1 A Project										
1-oct-14	Design and maintenaince of the project website	Launch on dic-2014 and maintained 5 years after the end of the project			Deliverable 1 Project website	31-dic-14	22-dic-14	31-mar-18		
	Monitor of the number of visitors.	Every 6 months with summary reviews			6 Summary reviews	31-mar-18				
D2 LIFE+										
1-oct-14	Prepararion and placing of 10-15 information boards	31-ene-15				Deliverable 3 Information boards	31-ene-15			
	Maintenance of boards in the metro facilities	Monthly checking for any deterioration/vandalism noted on summary reviews			13 Summary reviews	31-mar-18				
D3										
1-oct-14	Design and elaboration of 300 leaflets.				30-jun-16	Deliverable 7 Informative leaflets	30-jun-16			
	Publication of articles (4-6) in local/national press (quantification of their readership), during actions B1 & B2 and at beginning/end of project	1 at start project	2-4 during actions B1 & B2		1 at end project	Deliverable 15 Articles in general/trade press	31-mar-18			
	Submission of 6 technical papers/presentations in international journals/conferences	During all project's life			Deliverable 13 Publications		31-mar-18			
	Organisation of 1 open-forum Stakeholders (around 80 people) private and public sector	With expert's workshop	30-jun-15				Milestone E Organize open-forum	30-jun-15		
	Publication of the forum's outcomes on the project's web site.				30-sep-15	Deliverable 5 Minutes of the open Forum	30-sep-15			
	Organisation of 1 international conference (200 people) with researchers, governmental institutions, public transport assoc. and public.				31-dic-17	Deliverable 17 Procedings of the conference	31-mar-18			
D4 Production										
1-jul-16	Production and dissemination of 2.000 copies to the stakeholders				31-mar-18	Deliverable 16 Layman's Report	31-mar-18			



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E. MANAGEMENT ACTIONS											
E1 Project										31-mar-18	
1-oct-14	Nomination of the Project Management Team	31-oct-14							Milestone A Project management team	31-oct-14	28-oct-14
	Elaboration of the Quality assurance plan	30-nov-14							Milestone C Quality assurance plan	30-nov-14	28-nov-14
	Submission of the Inception Report			30-jun-15					Inception Report	30-jun-15	
	Submission of the Mid-term Report					30-jun-16			Mid-term Report	31-dic-16	
	Submission of the Final Report						30-jun-18		Final Report	30-jun-18	
E2 Monitoring										31-mar-18	
1-oct-14	Revision the progress of the project, according to it's indicators .							Every 3 months	Milestone B Indicators of Progress	30-nov-14	28-nov-14
	Meeting between partners							Every 3months reported on summay reviews	Deliverable 19	31-mar-18	
	Implementation of corrective recommendations after each meeting if necessary							Every 3months reported on summay reviews	Summary reviews		
E3 Networking										31-mar-18	
1-oct-14	Organisation of 1 expert group workshop	With open-forum		30-jun-15					Deliverable 6 Minutes of the expert's workshop	30-sep-15	
	Organisation of 1 workshop with other european projects					30-jun-16			Milestone F Workshop with LIFE+ projects	30-jun-16	
	Participation in other LIFE+ project's meetings							During all project's life	Presentations of IMPROVE	31-mar-18	
E4 After-LIFE+										31-mar-18	
1-jul-16	Preparation of the After-Life communication plan						31-mar-18		Deliverable 14 After-Life communication plan	31-mar-18	