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IMPROVE LIFE

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





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1. DISSEMINATION OF PROJECT RESULTS IN THE MEDIA

The launching of the measuring campaigns regarding air quality in Barcelona's metro environment was widely announced in the local and national media (links to all these news are in the web page of the project <http://improve-life.eu/categoria/news/>), including:

✓ Digital press

- TMB analyses the quality of the air we breathe in the metro. BTV.CAT, 10/02/2015.
- CSIC will measure the quality of the air we breathe in the Barcelona metro. EFEVERDE, RADIOINTERECONOMIA.COM, 10/02/2015.
- CSIC will measure the quality of the air breathed by metro travellers. EL PERIÓDICO DE CATALUNYA, ELCONFIDENCIAL.COM, NEGOCIOS.COM, 10/02/2015.
- Barcelona installs equipment to analyse the air quality in the metro. ELECONOMISTA.ES, EUROPA PRESS, GENTE DIGITAL, 10/02/2015.
- IMPROVE, a project to breathe better underground. HORAPUNTA.TMB.CAT, 10/02/2015.
- The project IMPROVE LIFE for analysing and improving air quality in the Barcelona metro has been launched. PRESSPEOPLE.COM, 10/02/2015.
- Barcelona installs equipment to analyse the air quality in the metro. Teinteresa.es, 10/02/2015.
- The project IMPROVE LIFE for analysing and improving air quality in the Barcelona metro has been launched. LOCAMPUSDIARI.COM, 11/02/2015.
- Barcelona installs equipment to analyse the air quality in the metro. NACIÓ DIGITAL, 11/02/2015.
- The project IMPROVE LIFE. VIALIBRE-FFE.COM, 11/02/2015.
- Barcelona installs equipment to analyse the air quality in the metro. CORRESPONSABLES.COM, 12/02/2015.
- Good air in Barcelona metro. OBRASURBANAS.ES, 12/02/2015.
- Barcelona installs equipment to analyse the air quality in the metro. COMPROMISORSE.COM, 13/02/2015.
- IMPROVE LIFE studies the air quality in the Barcelona metro. ECOMOVE.ES and ESMARTCITY.ES, 13/02/2015.

✓ Newspapers:

- CSIC will measure the quality of the air we breathe in the Barcelona metro. ABC, 10/02/2015.
- Barcelona installs equipment to analyse the air quality in the metro. Diario Barcelona, 10/02/2015.
- CSIC will measure the quality of the air breathed by metro travellers. EL DIA, 10/02/2015 & LA VANGUARDIA, 10/02/2015.
- A project to improve the air quality in the metro. EL PUNT AVUI, 11/02/2015 page 34.
- A study detects the pollution in metro stations. LA VANGUARDIA, 11/02/2015 page 5.



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- A project will measure the quality of air in the metro. 20 MINUTOS BARCELONA, 11/02/2015 page 2.
- What are we breathing in the metro? EL PERIODICO DE CATALUNYA, 15/02/2015 pages 44-45.
- Holly screen. EL PERIODICO DE CATALUNYA, 15/02/2015 page 45.



✓ **Radio**

- CSIC is analysing the air quality in subway stations to know the origin of contaminants and propose measures to achieve cleaner air. Interview with Teresa Moreno. Cadena Ser Catalunya EL BALCO, 10/02/2015.
- CSIC analyse the air quality of the metro. Interview with Teresa Moreno. COPE, 10/02/2015.
- A group of researchers examine the air we breathe in subway stations. The results of the study will propose changes to reduce pollution. Interview with Teresa Moreno. RAC 1 EL MON A RAC 1 (INFORMATIVO), 11/02/2015.
- CSIC is analysing the air quality of Barcelona's metro. Interview with Teresa Moreno. Cadena Ser Catalunya HOY POR HOY CATALUNYA, 11/02/2015.
- CSIC and TMB start IMPROVE LIFE project to measure the air quality in the Barcelona's subway system. Interview with Teresa Moreno. RADIO 4. 10/02/2015.
- Through "IMPROVE", researchers from CSIC are analysing the degree of contamination that permeates the Barcelona metro. Interview with Teresa Moreno. RADIO NACIONAL ESPAÑA, R1. 18/02/2015.



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✓ Television

- The Sagrera station in L5 is being studied for improving air quality in the metro system. Interview with Teresa Moreno (CSIC) and Eladio de Miguel (TMB-TB). BTV NOTICIES MIGDIA, 11/02/2015 and BTV NOTICIES VESPRE, 11/02/2015.
- Barcelona is the base for an environmental European project that will help subway systems worldwide. Interview with Teresa Moreno (CSIC) and Eladio de Miguel (TMB). TV3 TN COMARQUES, 12/02/2015.
- The project was also announced regularly in the internal TV channel of TMB (MouTV), with 20 seconds adverts shown several times per week at monitors both inside trains and on the platforms.





2. OTHER PRESENTATIONS

- Presentation of the project in the FERIA del Student for the Saló de l'Ensenyament, 18-22 March 2015. The Saló de l'Ensenyament held in the framework of the Week of Training and Work of Fira de Barcelona, is one of the biggest events in Barcelona, including Masters and Postgraduate students, and attracts over 250 Exhibitors. (http://www.fundaciorecerca.cat/ca/projecte_detall.asp?id_projecte=1187).
- Organisation of an Expert's Workshop: Special Session on "Commuter air quality in rail subway systems: current understanding and future mitigation" within the Society of Environmental Toxicology and Chemistry (SETAC) Europe 25th Annual Meeting. 6th of May 2015 in Barcelona, Spain (<http://barcelona.setac.eu/>).

PROGRAMME FOR SPECIAL SESSION SS01

Commuter air quality in rail subway systems: current understanding and future mitigation

Wednesday 6th May 2015 from 13:55 to 16:00

14:00 - 14:25	Lidia Morawska. Queensland Univ., Brisbane, Australia <i>Public transport and infection spread: is this a problem?</i>
14:25 - 14:50	Caroline Duchaine. Université Laval, Canada <i>Bioaerosol exposure in subway trains and stations</i>
14:50 - 15:10	Teresa Moreno. IDAEA-CSIC, Barcelona, Spain. <i>Subway particles: what do we breathe on platforms and in trains?</i>
15:10 – 15:35	Frank Kelly. King's College London, UK <i>The London Underground: a comparison of particulate concentrations across the network</i>
15:35 – 16:00	Alberto Giretti. Polytechnic Univ. Marche, Italy <i>Air Quality in Subway Stations with Dynamic Control of Energy</i>

- Organisation of an Open –Forum on air quality in subway systems, 7th of May 2015 in the CSIC central offices in Barcelona City Centre. The agenda can be seen in the events web page of IMPROVE (<http://improve-life.eu/en/event/open-access-experts-workshop-on-air-quality-in-subway-systems/>). This meeting was open to researchers, stakeholders, public and private organisations and the public in general.



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Air quality in rail subway systems

7th May 2015

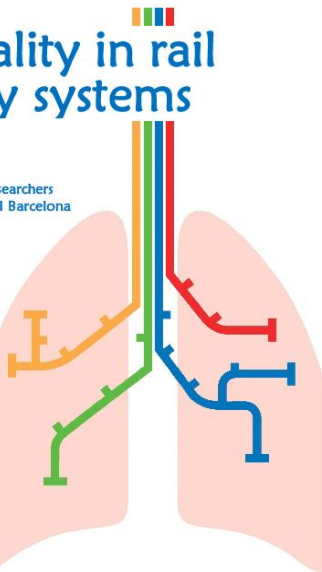
CSIC Residence for Researchers
C/Hospital, 64 - 08001 Barcelona

Distribuir la contaminació procedent del trenat
Tributar la quantitat de l'aire en una secció de túnel,
és un dels principals reptes de la nostra activitat.
El treball de les últimes setmanes ha consistit en
gestionar i coordinar un gran nombre de persones de
diversos països i institucions.
El resultat del projecte serà un informe tècnic,
on CSIC i TMB estan treballant conjuntament per
definir la metodologia i les eines que s'utilitzaran
per a la gestió de la qualitat de l'aire en les
estacions del Metro de Barcelona i dels futurs
de projectes d'investigació i recerca de mitjà.

També es treballarà per a la definició de les
condicions de treball de les persones que
s'ocupen de la gestió de la qualitat de l'aire en
les estacions del Metro de Barcelona i dels
futurs projectes d'investigació i recerca de mitjà.

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<http://improve-life.eu/>



Air quality in rail subway systems

7th May 2015 - Barcelona
Programme

- 9.00 - 9.30 Registration
- IMPROVE LIFE Session 1: The Barcelona Metro. Chairperson Teresa Moreno
 - 9.30 - 9.50 Teresa Moreno (IDAEA-CSIC, Spain)
Welcome and introduction to the IMPROVE LIFE project
 - 9.50 - 10.10 Vania Martins (IDAEA-CSIC, Spain)
Personal exposure to PM during commuting in a subway system
 - 10.10 - 10.30 Maria Cruz Minguillón (IDAEA-CSIC, Spain)
Main particle sources in underground rail systems
 - 10.30 - 10.50 Barend van Drooge (IDAEA-CSIC, Spain)
Air quality in old and new subway systems of Barcelona from analysis of organic tracer compounds
 - 10.50 - 11.10 Marc Veillette (Université Laval, Canada)
Molecular methods for indoor air microbial content description
 - 11.10 - 11.20 Further questions for speakers
 - 11.20 - 11.50 Coffee break
- IMPROVE LIFE Session 2: Wider perspectives. Chairperson Lidia Moravska
 - 11.50 - 12.10 Violeta Múgica (Univ. Autón. Metropolitana-Azcapotzalco, Mexico)
Microbiological and chemical pollution at different depths in the Mexico City subway.
 - 12.10 - 12.30 Luis García (Ingenieros Aseores SA, Spain)
H₂S measurements in the Paris subway
 - 12.30 - 12.50 Patrice Blondeau (Université de La Rochelle, France)
Optimal ventilation and filtering strategies for indoor air quality in carriages
- IMPROVE LIFE Session 3: Open Forum. Chairperson Xavier Querol (IDAEA-CSIC, Spain)
 - 12.50 - 13.30 Discussion panel with:
Caroline Duchaine (Université Laval, Canada),
Alberto Ciretti (Polyt. Univ. Marche, Italy),
Frank Kelly (King's College London, UK),
Lidia Moravska (Queenstand Univ., Australia)
 - 13.30 - 14.30 Lunch break
 - Optional visits:*
 - 15.00 - 16.30 Visit to subway air quality monitoring site (IMPROVE LIFE project)
 - 16.30 - 17.30 Visit to ambient air quality monitoring site (Palau Reial, IDAEA-CSIC)