

City of Milan: Air Quality and Sustainable Mobility commitment

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Milan, an inclusive city

Actions to reduce sources of air pollution
and get citizens to adopt aware lifestyles



1.4 million
inhabitants

7,518
Inh./km²

800,000
Commuters/day

6,8 millions
Tourists in 2018 (ISTAT)

3,1 tonnes/capita
GHG in 2020

Source: Flickr Ale Desiderio



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Comune di
Milano

The involvement of the Municipality of Milan within the PrepAIR project, specifically concerns two actions:

- **E.4 promotion of electric mobility**
- **C9.2 cycling workshops in schools**

confirming and consolidating the policy vision of the Administration towards a new and sustainable model of urban mobility management.



Comune di
Milano



Action E.4 - Promotion of electric mobility

The action **E.4 - Promotion of electric mobility**, will be realized in a few days in the context of '**E_Mob 2021**', an institutional event promoted by **Regione Lombardia** and **Comune di Milano**, dedicated to the diffusion of knowledge about electric mobility and its social value.

MILANO
Duomo

Prepair will participate in the event with two different initiatives, in line with the City of Milan interpretation of the project aimed at **promoting sustainable mobility among the younger generations**, especially through **the use of bicycles for urban commuting**.

The participation will be through the coordinated visual identity, specifically designed for action E.4 city events **"ELETTRICITTA' _colora di verde la tua città"**

LIFE PREPAIR@E_MOB 2021:
ELETTRICITTA', COLORA DI VERDE LA TUA CITTA'



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Action E.4 - Promotion of electric mobility



e



Comune di
Milano

presentano:



Carica e pedala!

Vieni a conoscere e provare le e-cargo bike



SAVE THE DATE!

**Sabato e Domenica
16 e 17 ottobre 2021
dalle 10:00 alle 18:00
in Piazza Duomo**

Vieni a conoscere e provare in
presenza le **e-cargo bike**, bici da
carico a **pedalata assistita!**
Un'alternativa all'automobile, per
andare in **ufficio**, portare a **scuola** i
bambini, fare la **spesa**, **lavorare...**

Con il contributo del
programma LIFE
dell'Unione Europea



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CARICA E PEDALA

October, 16th and 17th, 2021

Presence at the
E_MOB 2021 exhibition
in the city streets
with a stand dedicated to the
illustration and testing of
e_cargobike set up
for the management of
family mobility.





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Action E.4 - Promotion of electric mobility



e



Comune di
Milano

presentano:



E-Mozioni Varietà



SAVE THE DATE

Martedì 19 ottobre 2021

dalle **10:00** alle **11:00**

Canale **YouTube «Life Prepair»**

E-Mozioni Varietà

Una **surreale** diretta streaming dedicata alle **scuole**, di e con **Paolo «Il Comicista» Franceschini**, sulla **mobilità elettrica** più **sostenibile** che c'è, quella **a pedali!!** Il video sarà disponibile **anche in seguito**, sullo **stesso canale**.

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programma LIFE
dell'Unione Europea



DrinDrin
scuolainbici



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E_MOZIONI VARIETA'

World Premiere

October 19th, 2021,

10:00 AM



Written and performed by the "comicista" Paolo Franceschini, - a bit of a comedian and a bit of a cyclist - who is also the **testimonial of the Prepair communication campaign** - a "Variety TV" version of his cabaret on electric mobility, **written specifically for the most sustainable Prepair project** there is: the one with pedals!

A bit of history, the funniest anecdotes and the most up-to-date scientific data on the revolution that is changing the way we move around cities and territories.

Interviews, quizzes with phantom characters and lots of useful information, with a lot of lightness and light-heartedness.

The premiere is specifically for **students**, but **the recording will remain available on the various Prepair channels** as an additional tool for dissemination and citizen involvement.



Action C 9.2 - Laboratories of cycling in schools

For the realization of the action **C 9.2 - Laboratories of cycling in schools**, the City of Milan in collaboration with the civic school of graphic design 'Arte&Messaggio' has promoted a competition for ideas for the realization of an identity dedicated - given the plurality of the offer "Prepair" on the territory of Milan.

Thus was born "**DrinDrin_scuolainbici**", the logo that well represents the workshops that promote the **daily use of bicycles on the home-school routes** and in **everyday life**, involving in an educational path both primary and middle schools, as well as school staff and families.



DrinDrin
scuolainbici

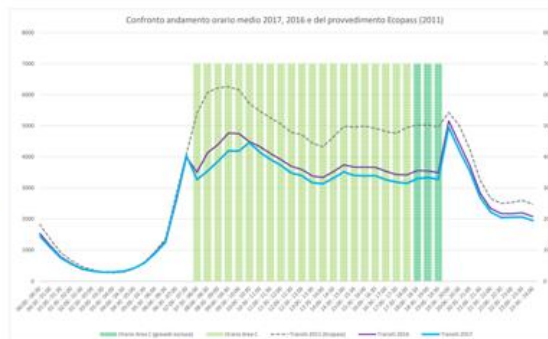
DrinDrin sees involved in its first edition (**February-November 2022**), about thirty classes of the first cycle of education in Milan: **specially trained operators** will participate **in nine meetings per class**. In addition to the values and contents of sustainable mobility, public space and cycling, students will learn basic cyclomechanics, road behavior and road safety regulations, in class and during **bike rides during school hours**. Likewise, **adults** will be taken on an awareness journey about the benefits and opportunities of bicycling for children and youth.



Milan Sustainable Mobility commitment

'Area C': the Milan Congestion Charge

- 30% traffic;
- 28% road accidents
- 49% most polluting vehicles
- 19% PM₁₀ exhaust emissions
- 10% NO_x emissions
- 22% CO₂ emissions



'Area B': the Milan Low Emission Zone

- 50% PM₁₀ exhaust emissions within 4 years
- 50% NO_x traffic emissions within 10 years



Starting from
October 1st, 2021
Area B is fully coordinated
with the **MoVe-In**
Lombardy Region initiative

Milan: Air Quality and the Climate Change

Annual average 2020

PM₁₀ : 34 µg/m³

PM_{2,5} : 24 µg/m³

NO₂ : 39 µg/m³

O₃ : 116 exceeding days



WHO 2005 Guidelines

20 µg/m³

10 µg/m³

40 µg/m³

0 exceeding days

Source: AMAT data processing on Arpa Lombardia data

+2°C

Average Annual Temperature
(1901-2017)

over 2°C _ Summer

over 1°C _ Winter

Projection to 2050 of the maximum and minimum temperature increase

Source: Profile Climatico Locale, Arpa Lombardia e Arpa Emilia Romagna, Comune di Milano

**The City Council declared
a Climate and Environmental Emergency
in May 2019**



City of Milan 'Air Quality and Climate Plan'

Targets

→ Air Quality Goals:

Short term

- ✓ **By 2021** fix an AQ strategy for compliance with WHO Guidelines for all pollutants on long term

Medium Term

- ✓ **By 2025** compliance with EU AQ Limit Values for PM₁₀, PM_{2.5} and NO₂

Long Term

- ✓ **By 2050** approach WHO AQ Guidelines

→ Climate Change Goals:

- ✓ **By 2030** -45% CO₂ emissions vs 2005
- ✓ **By 2050** Carbon neutrality

Integrated approach



Air Quality and Climate Plan

Vision to 2050, for a City of Milan:

- 01 **Healthy and Inclusive Milan:** a healthier, safer and more equitable City.
- 02 **Connected and highly accessible Milan:** a well connected and flexible City, with smooth and sustainable mobility
- 03 **Positive Energy Milan:** a City that consumes less and consumes energy better
- 04 **Cool Milan:** a greener city, cooler and liveable, which adapts to climate change
- 05 **Aware Citizens:** a City which adopts an aware and sustainable lifestyle

Health Benefits of the AQC Plan: 5,5 Billions Euro reduction of External cost for air pollution vs BAU scenario at 2030

Source: AMAT elaboration



Air Quality and Climate Plan

1. Healthy and inclusive Milan

A healthier, safer and more equitable City

1. Reducing environmental impacts of city time-management
2. Protecting most sensitive people from traffic-related pollution
3. Air Quality monitoring for proximity scale intervention impacts assessment (highly advanced multi-parameter sensors network)
4. Implementing an air quality modelling system to support planning activities
5. Regulating highly polluting activities other than traffic-related
6. Developing sustainable techniques for agriculture
7. Air quality Fund project
8. Circular economy actions
9. ...

Air Quality and Climate Plan

2. Connected and highly accessible Milan

A well connected and flexible City with smooth and sustainable movements.

Vision 2050: transform personal mobility in active mobility giving priority to bicycles and pedestrians.

Goal 2030: highly reduce motorised private traffic

1. Strengthening existing LEZs (Low Emission Zone) to reduce air emissions
2. Planning actions and agreements for sustainable mobility (promote sharing at urban scale, policy for public transport, etc)
3. Setting a Zero Emissions Zone
4. Implementing a Carbon-neutral area

European and Global Networking on Air Quality



<https://futurium.ec.europa.eu/en/urban-agenda/air-quality/news/partnership-air-quality-delivers-tools-help-cities-and-member-states-overcome-challenge-air>

EU Urban Agenda - Partnership on Air Quality

4 Member States, 6 cities, 2 ONG, European Commission as an observer

Development of Air Quality management tools

Milan Actions leader for:

Action 2 - Better Air Quality Planning (Governance)

- **A Code of Good Practices for designing and implementing Air Quality Plans**

in compliance with Dir. 2008/50/EU



Action 3 - Better Air Quality Funding

- **A Guidance for financing Air Quality Plans**

in cooperation with the European Investment Bank



WG Air Quality, WG Mobility



WG Air Quality

- Fossil-Fuel-Free Streets Declaration/Green and Healthy Street Declaration (*October 2017*)
- **Clean Air Cities Declaration (*October 2019*)**
- Divesting from Fossil Fuels, Investing in a Sustainable Future Declaration (*September 2020*)



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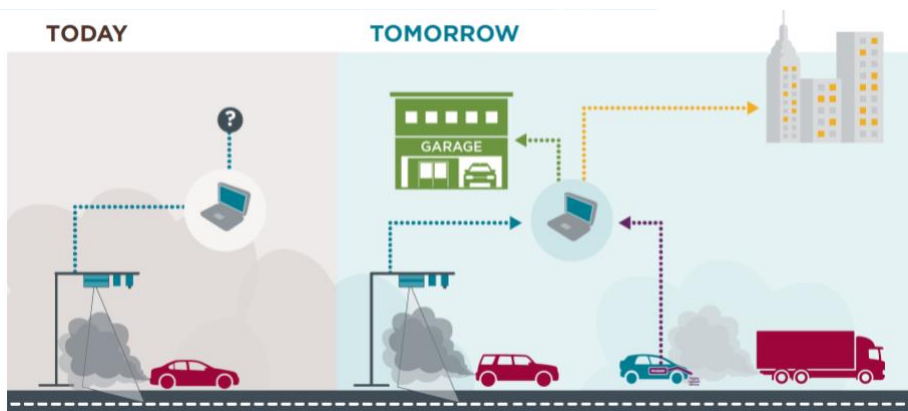
CARES
CITY AIR REMOTE EMISSION SENSING



Milan as a pilot city for new concept remote emission sensing systems

TODAY

TOMORROW



Reducing Emission Modelling uncertainty



www.LifeREMY.eu



Milan for improvement of air quality modeling in urban planning





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With the contribution
of the LIFE Programme
of the European Union

Thank you



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ARSO ENVIRONMENT
Slovenian Environment Agency

