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CLIMATE PROOFING  
URBAN MUNICIPALITIES

## **Italian Tour 2018**

**Meeting with regional & local authorities to  
collect information and experience of  
adopted climate change adaptation measures**

# Partners

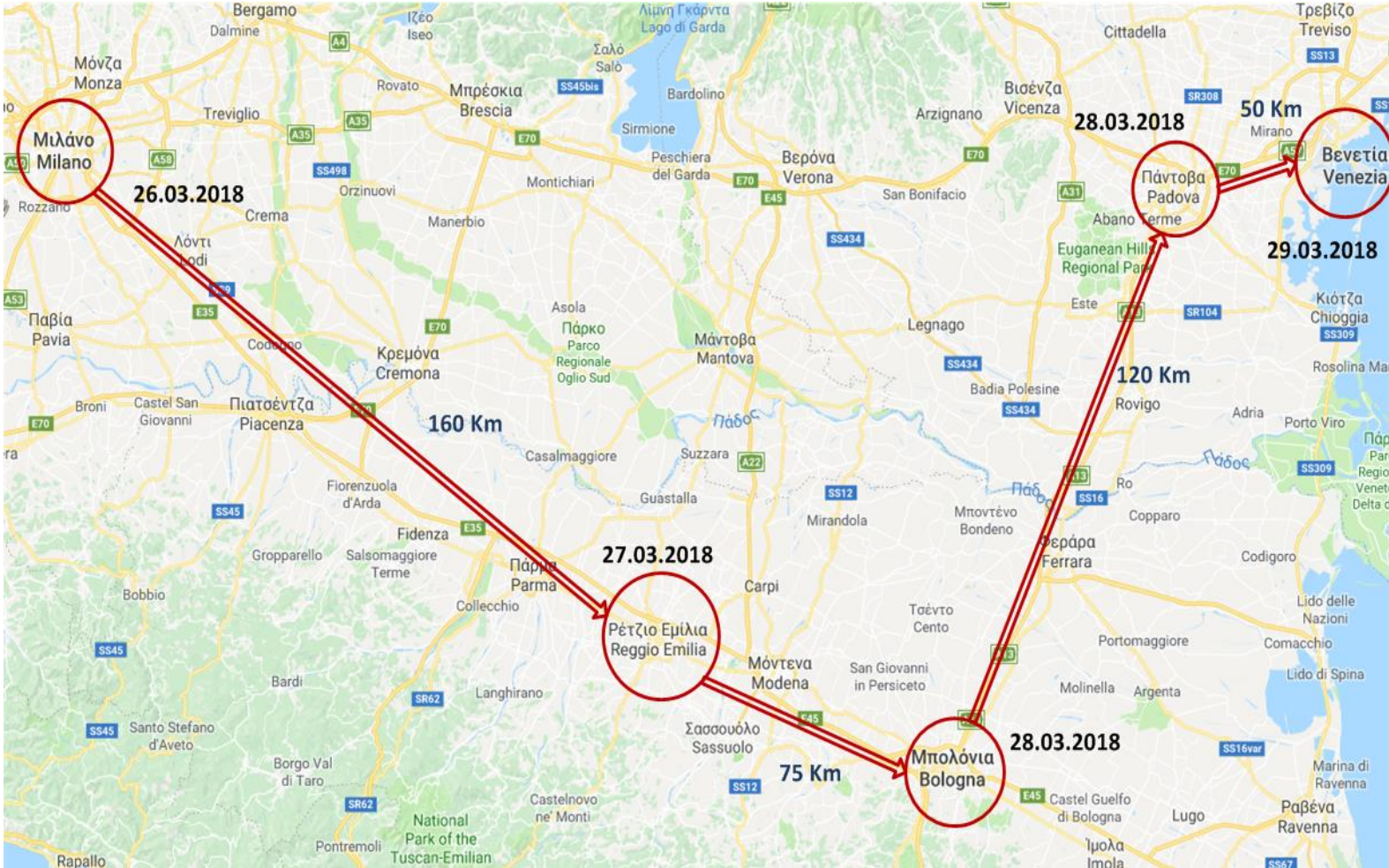
## Coordinating beneficiary

- Department of Environment, Ministry of Agriculture, Rural Development and Environment of Cyprus (CY) [MANRE]

## Associated beneficiaries

- Municipality of Reggio Emilia (IT) [EMILIA]
- Municipality of Lakatamia (CY) [LAKATAMIA]
- Municipality of Strovolos (CY) [STROVOLOS]
- Municipality of Peristeri (GR) [PERISTERI]
- National Technical University of Athens (GR) [NTUA]
- National Observatory of Athens (GR) [NOA]
- University of Venice (IT) [IUAV]

# Italian Tour Meeting Map



# Italian Tour Meeting Agenda

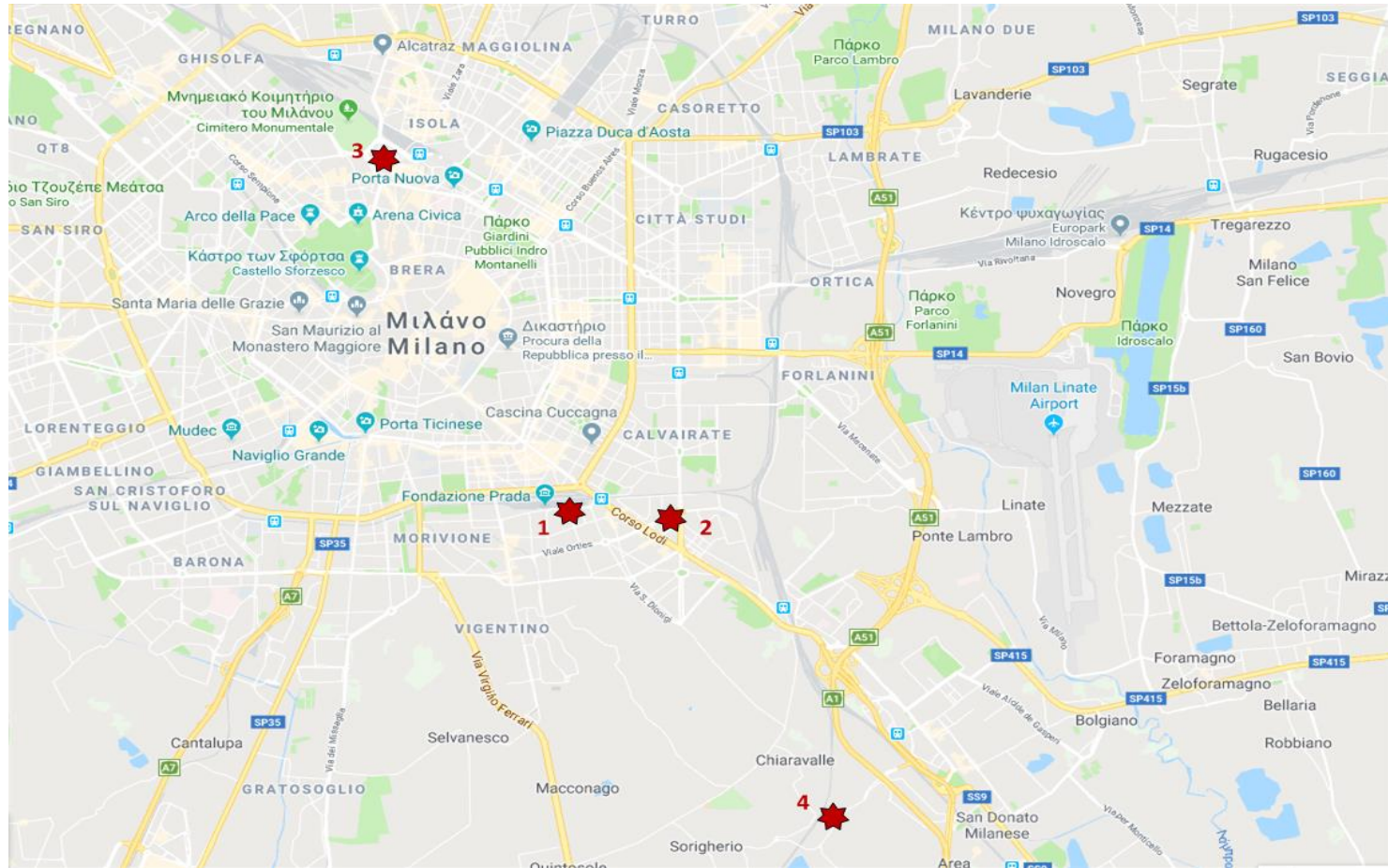
Date :	Time :	Town :	Meeting place :
26.03.2018	10.00-15.30	Milan	<ul style="list-style-type: none"> <li>•How to transform a railway yard into a green area, mitigating the heat waves (Scalo Porta Romana - in front of the Fondazione Prada)</li> <li>•Private Building Retrofitting in Porta Romana District (Via Tito Livio 8)</li> <li>•Milan Resilient Cities (Under the Bosco Verticale Isola Porta Garibaldi)</li> <li>•Social Housing retrofitting in Chiaravalle (Via San Bernardo 29A)</li> </ul>
27.03.2018	09.00-17.00	Reggio-Emilia	Reggio Emilia Municipality, 1, Prampolini Square - Hall "Gruppi Consiliari"
28.03.2018	10.00-12.15	Bologna	Municipality of Bologna, Piazza Liber Paradisus, 10, Torre A - Milan
28.03.2018	15.00-17.00	Padua	Palazzo Sarpi, via Frà Paolo Sarpi, 2, Padova
29.03.2018	10.30-17.30	Venice	Palazzo Ca' Tron, Santa Croce 1957, 30135 Venezia

## Site visits

1. **How to transform a railway yard into a green area, mitigating the heat waves (Scalo Porta Romana - in front of the Fondazione Prada)** – Bramati – Urban Planning Department
2. **Private Building Retrofitting in Porta Romana District (Via Tito Livio 8) Co-Design for a liveable place-** Cecilia Hugony– TEICOS
3. **Milan Resilient Cities: the future adaptation strategy for the City of Milan (Under the Bosco Verticale Isola Porta Garibaldi)** - PieroPelizzaro Chief Resilience Officer City of Milan
4. **The Bosco Verticale and Urban Forestation for Milan** – Maria Chiara Pastore – POLIMI/Stefano Boeri Studio
4. **Social Housing retrofitting in Chiaravalle (Via San Bernardo 29A). Improving energy efficiency and natural ventilation in time of Heat Waves** - Fabrizio Manzoni - Facility Management Department City of Milan

# Milan

26.3.2018



# 1. Digital Areas (Scalo Porta Romana - Fondazione Prada) Isole Digitali – Web page



## I SERVIZI / THE SERVICES



**WI-FI**  
*Free WiFi*



**RICARICA ELETTRICA  
APPARATI**  
*Recharging for private  
electric devices*



**INFO TURISMO, CULTURA, MOBILITÀ**  
*Info on tourism, culture urban mobility*



**RICARICA ELETTRICA  
VEICOLI PRIVATI**  
*Recharging for private  
electric vehicles*



**ILLUMINAZIONE  
INTELLIGENTE**  
*Smart lighting*



**MONITORAGGIO  
TERRITORIO**  
*Territory surveillance  
station*

## LE ISOLE / THE DIGITAL AREAS

Porta Venezia | Amendola Fiera | Gioia M2 | Hoepli | Loreto Argentina | Pagano | Cadorna | Centrale FS | V Giornate | Porta Vittoria | Cusani | XXV Aprile | Università Bocconi | Sant'Agostino | Bisceglie

**Dal 9 dicembre 2014 nuove Isole Digitali / From 9 December 2014 new Digital Areas:** Bande Nere Orsini | Bovisa | Certosa | Famagosta | Imbonati | Lambrate | Larga Unimi | Leonardo da Vinci | Medaglie d'oro | Monza Precotto | Niguarda | Segrino

<https://www.comune.milano.it/dseserver/isoledigitali/index.htm>

# 1. Digital Areas (Scalo Porta Romana - Fondazione Prada) Isole Digitali - Bicycle rental system



# 1. Digital Areas (Scalo Porta Romana - Fondazione Prada) Isole Digitali - Electric car charging system and electronic devices, free wi-fi



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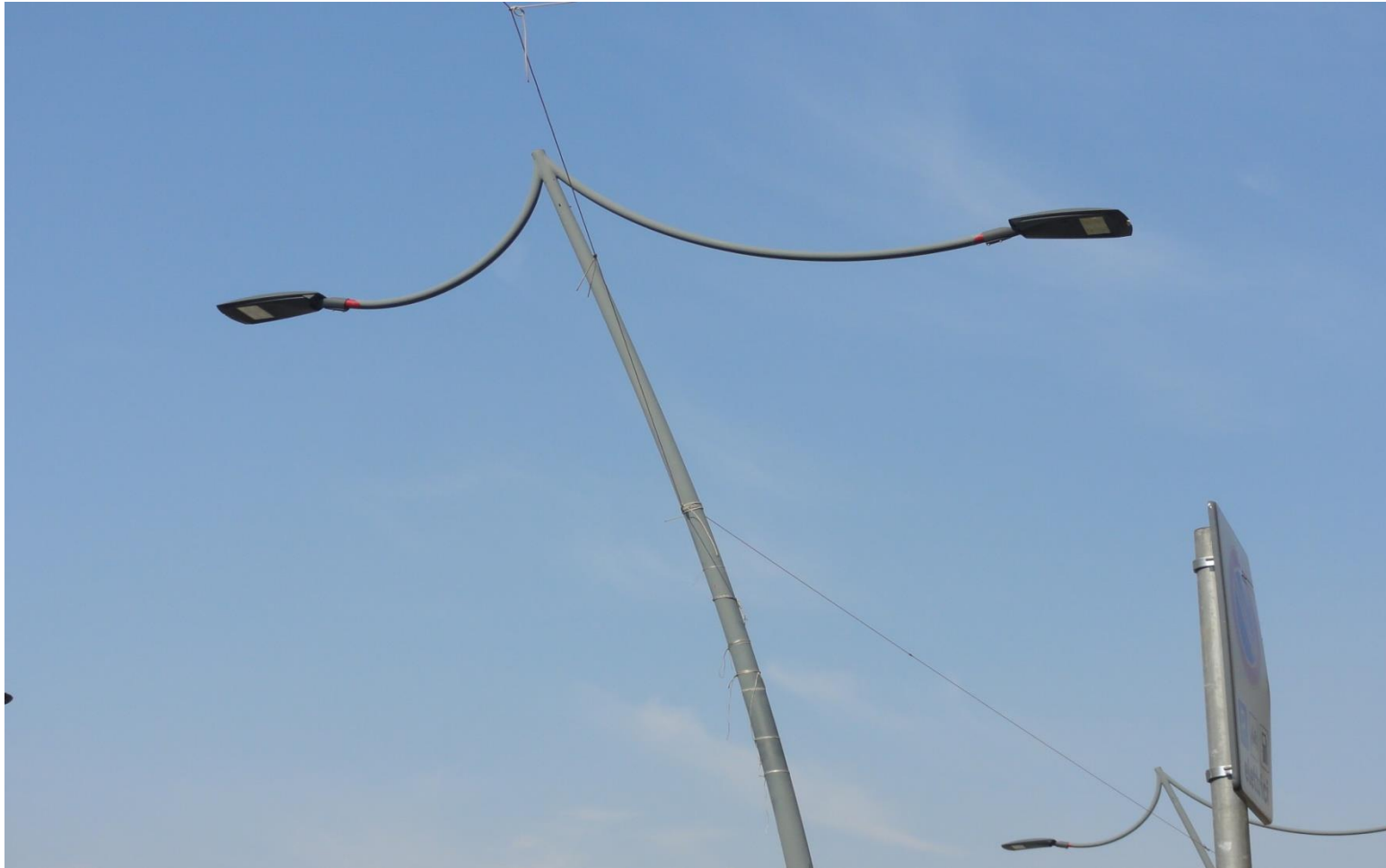
# 1. Digital Areas (Scalo Porta Romana - Fondazione Prada) Isole Digitali - Environmental data logging system



# 1. Digital Areas (Scalo Porta Romana - Fondazione Prada) Isole Digitali - Smart waste bins



# 1. Digital Areas (Scalo Porta Romana - Fondazione Prada) Isole Digitali - Led Lamps



# 1. Digital Areas (Scalo Porta Romana - Fondazione Prada) Isole Digitali - Surveillance System



## 2.Private Building Retrofitting in Porta Romana District (Via Tito Livio 8) Co-Design for a liveable place

Energy upgrade of a private apartment building. Reduced energy consumption by 55%  
Sponsors: Future Energy - TEICOS Group



<http://www.teicosgroup.com/it/home/sharing-cities>

## 2. Private Building Retrofitting in Porta Romana District (Via Tito Livio 8) Co-Design for a liveable place

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### 3. Milan Resilient Cities: the future adaptation strategy for the City of Milan (Under the Bosco Verticale Isola Porta Garibaldi)



<https://www.stefano-boeri-architetti.net/>

### 3. Milan Resilient Cities: the future adaptation strategy for the City of Milan (Under the Bosco Verticale Isola Porta Garibaldi)



### 3. Milan Resilient Cities: the future adaptation strategy for the City of Milan (Under the Bosco Verticale Isola Porta Garibaldi)



## 4. Social Housing retrofitting in Chiaravalle (Via San Bernardo 29A). Improving energy efficiency and natural ventilation in time of Heat Waves – Energy renovation of social houses

BUILDING SMART CITIES TOGETHER

# SHARINGCITIES

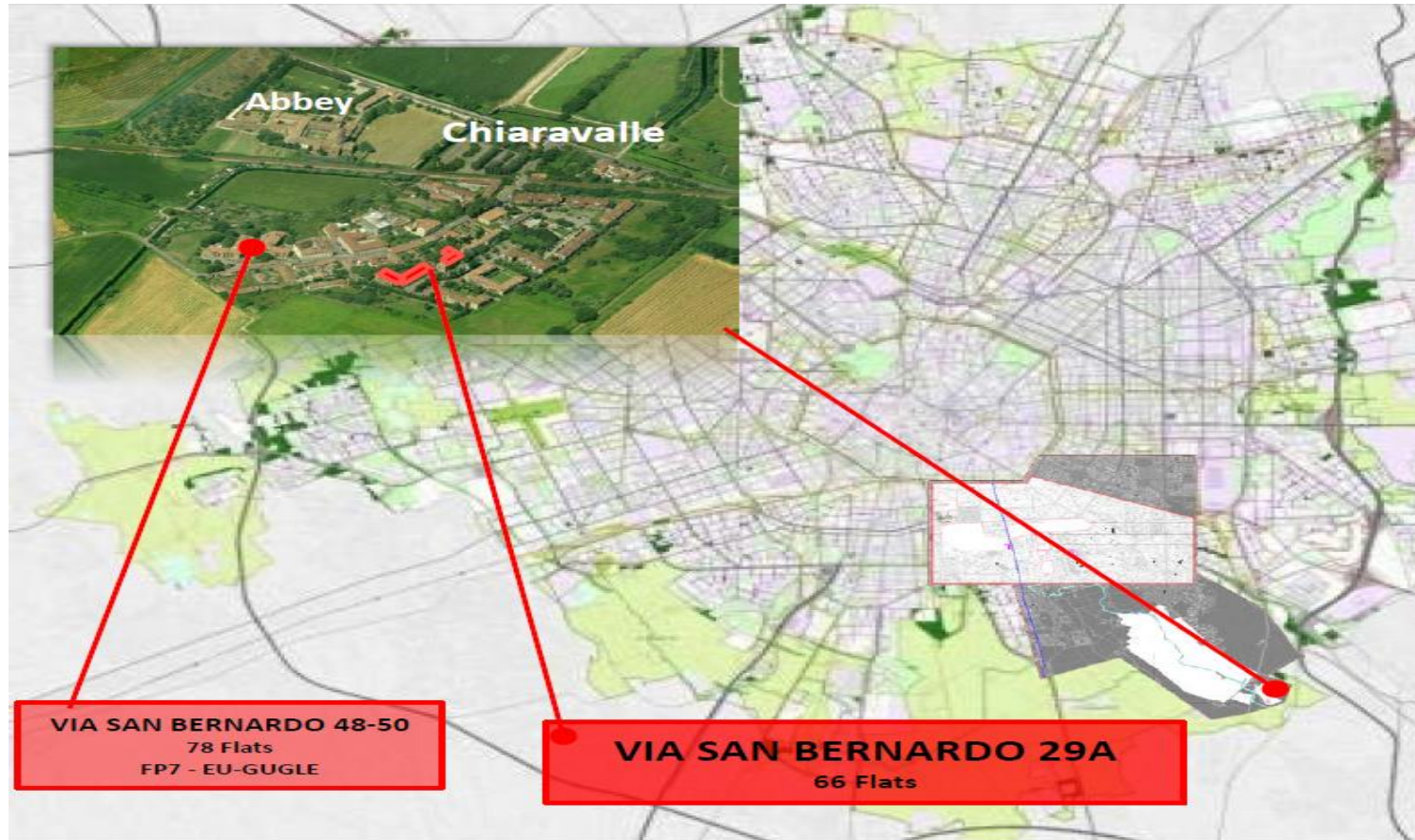
Public building: objectives set and status of building retrofit developments in Milan

Francesco Causone  
Politecnico di Milano  
Energy Department

This project has received Funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement N° 698895

The image shows a map of Europe with several cities highlighted by red and green circles. The cities are LISBON, BORDEAUX, LONDON, MILAN, VARSAN, and BURGAS. A red circle connects LISBON, BORDEAUX, LONDON, and MILAN. A green circle connects MILAN, VARSAN, and BURGAS. There is also a small icon of a building in the top right corner.

# 4. Social Housing retrofitting in Chiaravalle (Via San Bernardo 29A). Improving energy efficiency and natural ventilation in time of Heat Waves – Energy renovation of social houses



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## Energy retrofit design

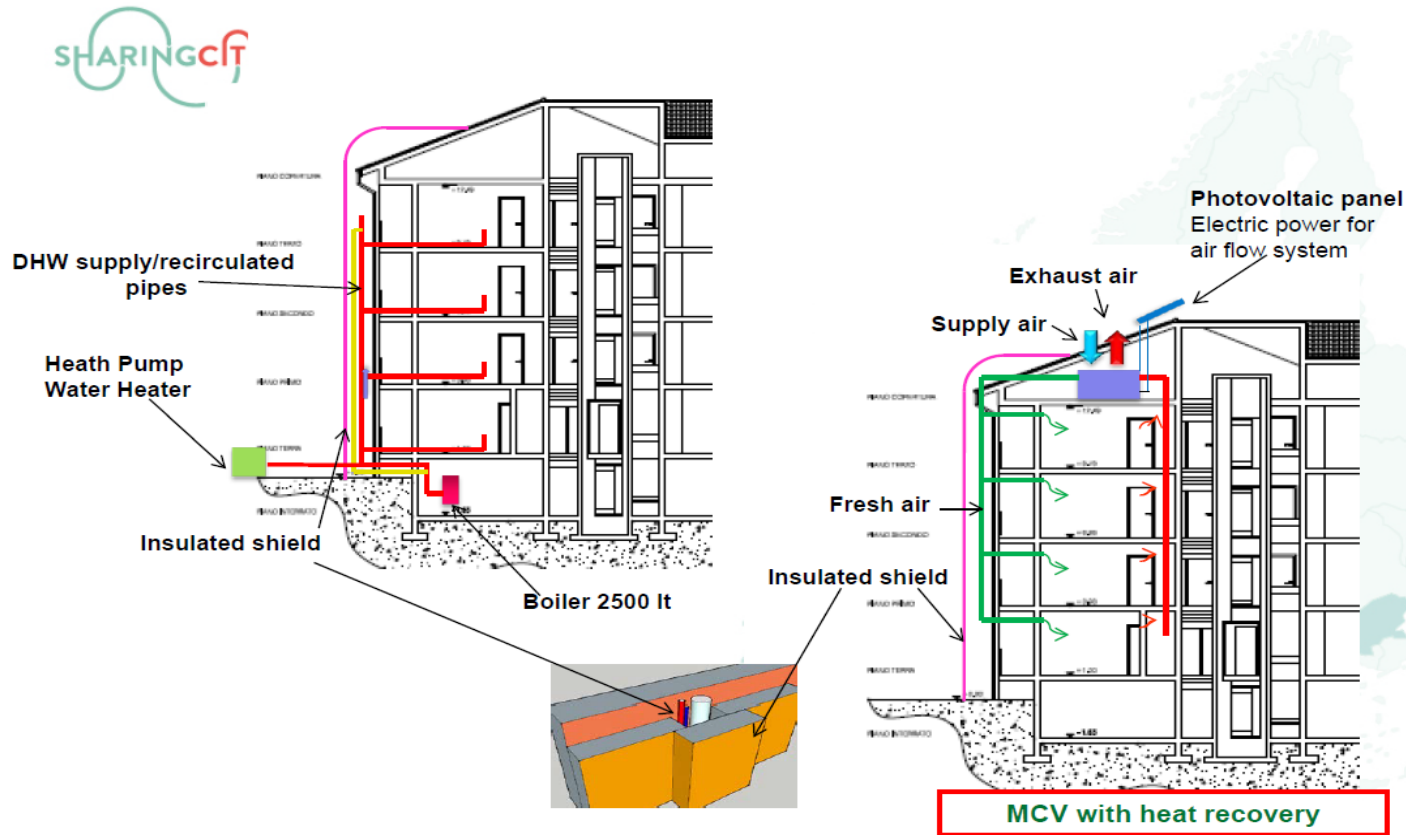
- Opaque envelope insulation
- Thermal bridges correction
- Transparent envelope improvement
- Solar shading and MC ventilation
- Heating and DHW systems renovation
- Lighting system renovation in public areas
- PV and thermal solar panels



# 4. Social Housing retrofitting in Chiaravalle (Via San Bernardo 29A). Improving energy efficiency and natural ventilation in time of Heat Waves – Energy renovation of social houses



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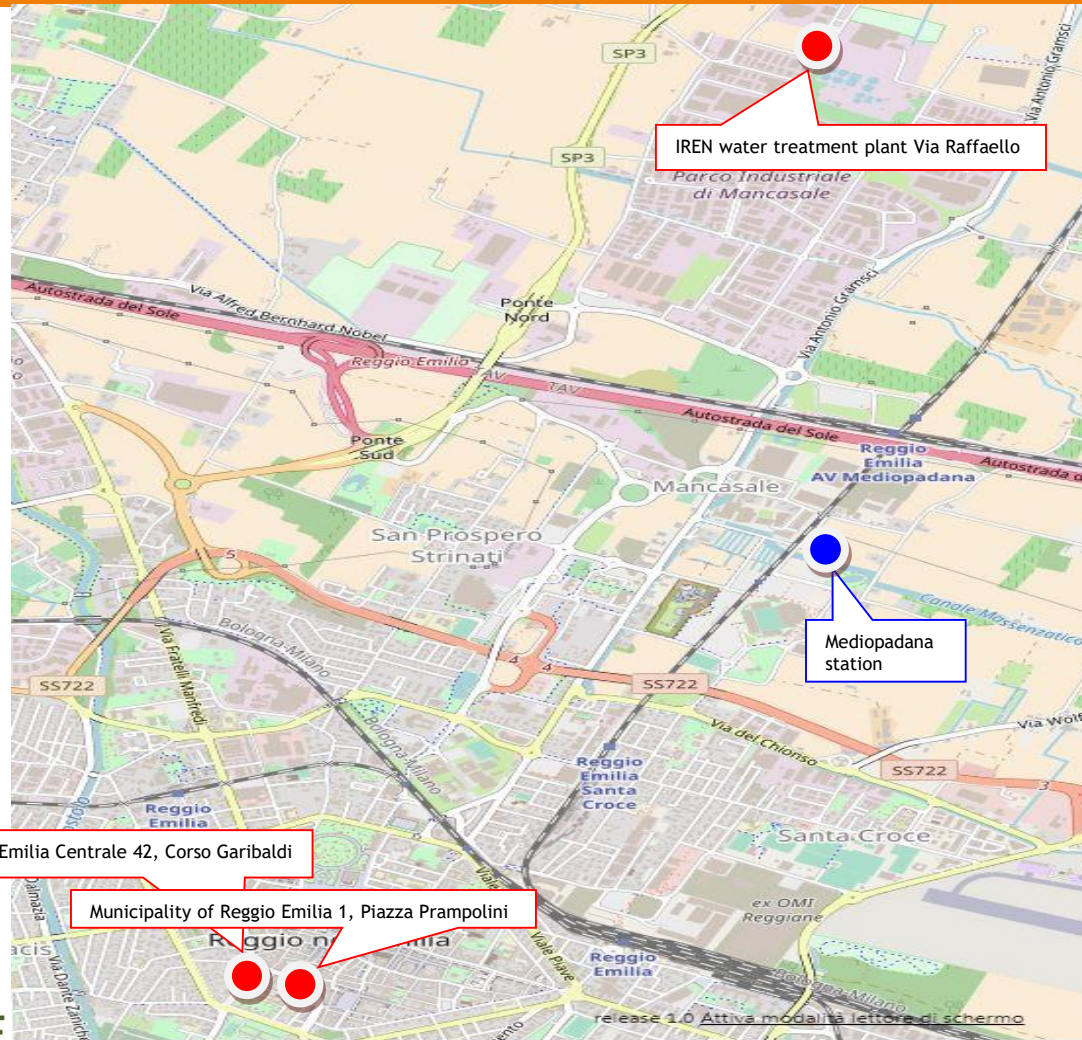


- **Reggio Emilia and the sustainable policies - Serena Foracchia**, International City Councillor
- **UrbanProof project in Reggio Emilia: how we work and ongoing actions – Giovanni Ferrari**  
– Environment Service contractor

## **Adaptation actions of Reggio Emilia Municipality:**

- **Redevelopment of the parking areas of Mediopadana station** – David Zilioli – Mobility Service
- **Tree plantings and climate changes** – Susanna Ferrari - Environment Service
- **Beneficial effects of green areas on microclimate and on ozone concentrations in urban environment** - Luca Torreggiani and Carla Barbieri - Regional Agency for the Prevention, Environment and Energy of Emilia-Romagna
- **Discussion and debate**
- **Visit 1 - Bonifica Emilia Centrale: Management of water emergencies and telecontrol system** – Paola Zanetti and Guido Ruini - Bonifica Emilia Centrale
- **Visit 2 - Plant in Mancasale: Reuse of wastewater for irrigation** – Luca Santoprete - IREN s.p.a. Water Service

# Reggio Emilia – Meeting places



# Reggio Emilia - City Hall



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# Reggio Emilia - City Hall Room

Where the Italian tricolor flag was established

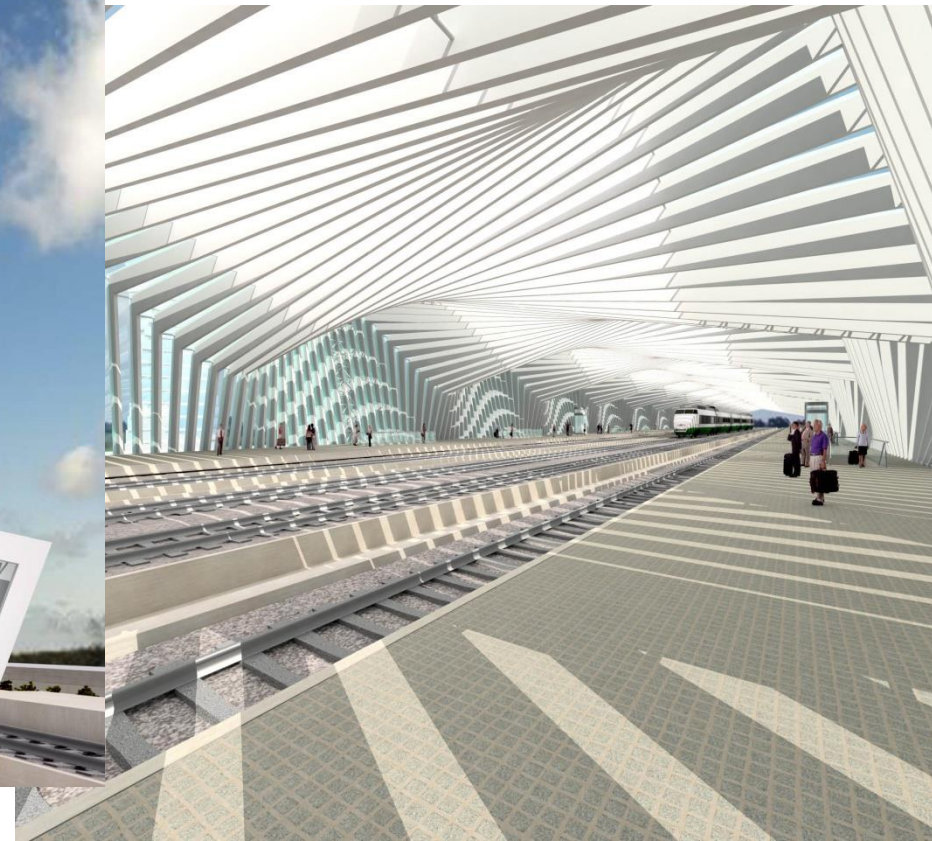


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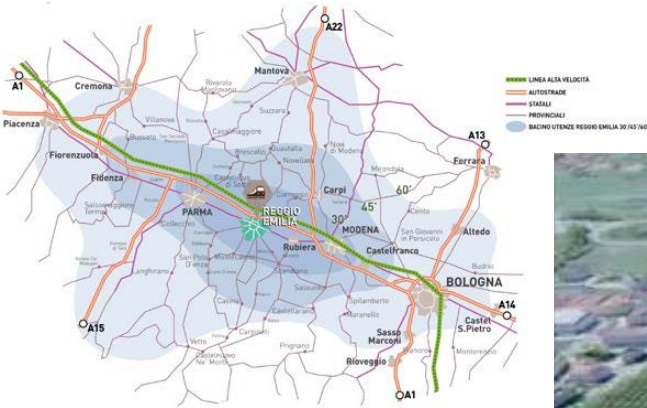
# Reggio Emilia - Mediopadana railway station

## Formation of outdoor and parking spaces



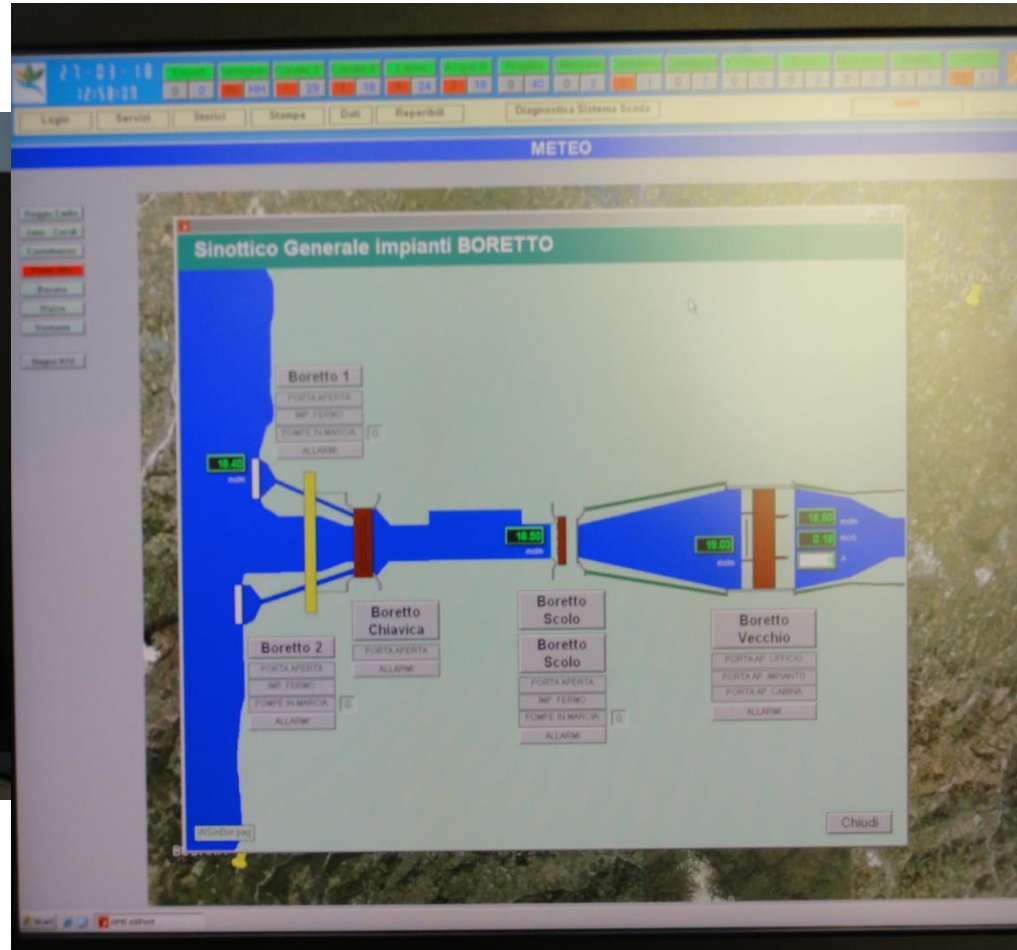
# Reggio Emilia - Mediopadana railway station

## Formation of outdoor and parking spaces



# Reggio Emilia - Bonifica Emilia Centrale

Control room, monitoring & management of water resources



# Reggio Emilia – IREN

## Electromechanical equipment



# Reggio Emilia – IREN

## 2° Stage – Organic carbon removal - Oxygenation



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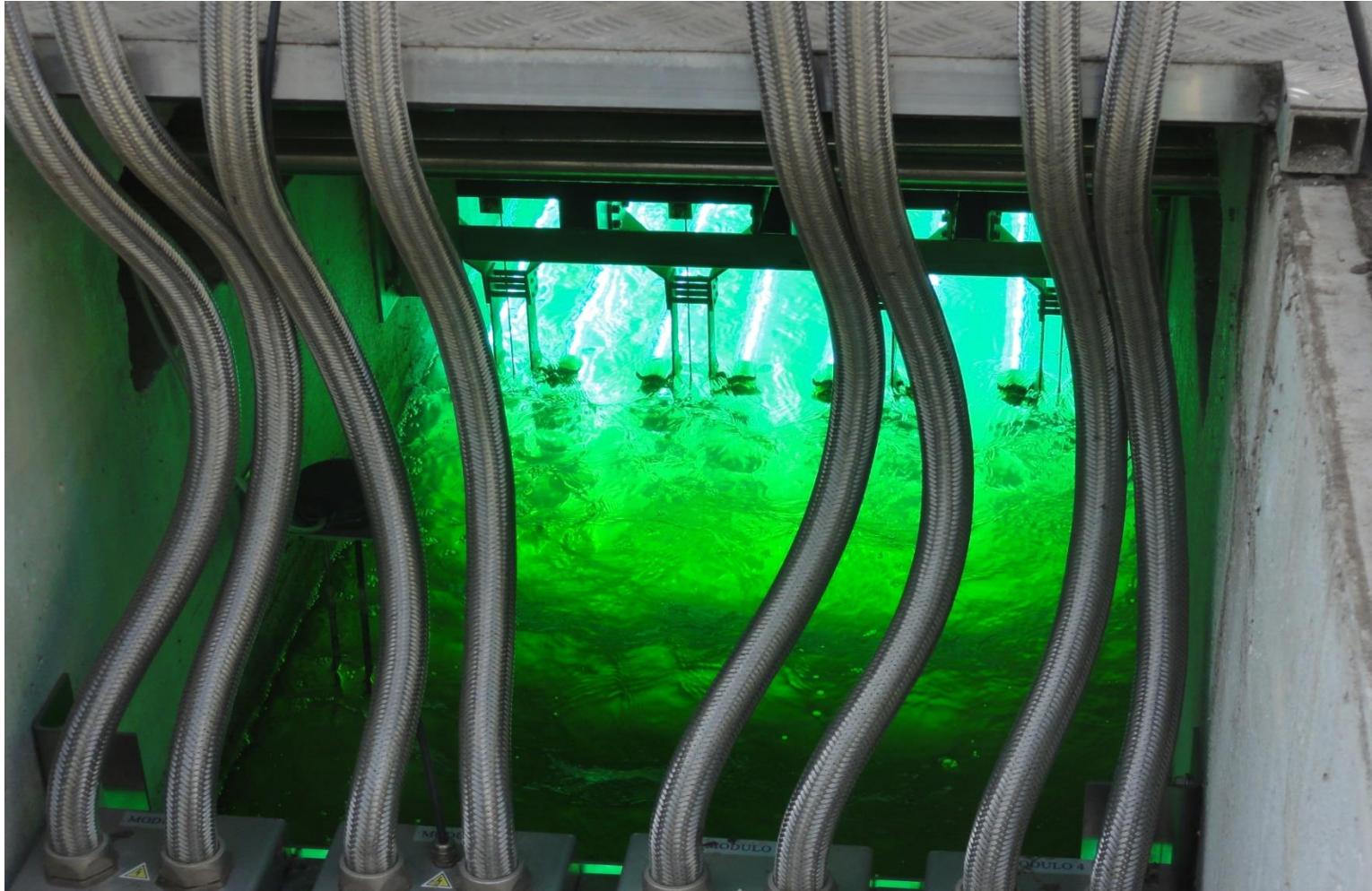
# Reggio Emilia – IREN

## 3° Stage – Heavy Metal Removal - Filtration



# Reggio Emilia – IREN

4° Stage – Exposure to UV radiation



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# Reggio Emilia – IREN

Final stage – Grey water production



**Meeting : Municipality of Bologna, Piazza Liber Paradisu, 10. Settore Ambiente ed Energia, Tower A, 7th floor, room 703**

- **Introduction about Bologna environmental policies** - Giovanni Fini - City of Bologna
- **The Bologna Adaptation Plan – BlueAp Project**- Raffaella Gueze - City of Bologna
- **Other ongoing policies and projects on climate adaptation in Emilia Romagna Region** - Lucio Boterelli - ARPAE t.b.c.
- **First results from Rainbo LIFE project** - Franco Cima – Lepida

<http://www.comune.bologna.it/news/bologna-resiliente-pianificazione-e-adattamento-ai-cambiamenti-climatici>

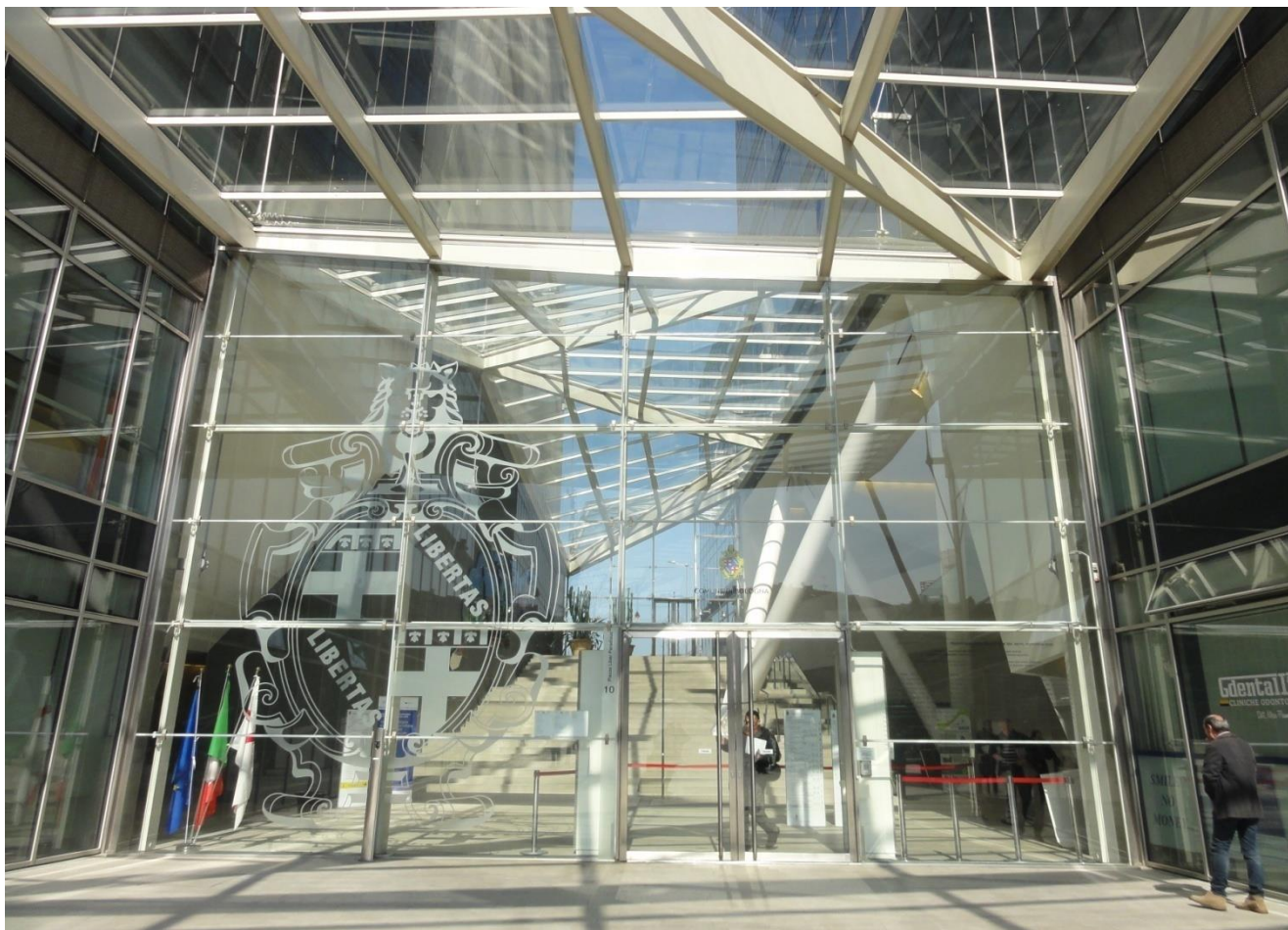
# Bologna - City Hall



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# Bologna - City Hall (Entrance)



# Bologna – BlueAp Project

<https://www.blueap.eu/site/>

## BLUEAP

Bologna adaptation plan  
for a resilient city  
Bologna città resiliente

ENG ITA

Notizie » Chi siamo » Il Progetto » Scientific Board Documenti PlayBlueap Calendario Forum Contatti



26 marzo 2018

Commissione Europea: Blue Ap è migliore pratica di adattamento climatico per altre città



22 marzo 2018

Bologna, avviata la seconda fase del processo partecipativo al PUMS



13 marzo 2018

Milano Smart City, il ruolo delle imprese nel disegnare la città di domani

Twitter



*#BigData e #SmartCities, anche #Italia si evolve: a #Venezia messo a punto sistema di telecamere e sensori laser ca... [twitter.com/i/web/status/9...](https://twitter.com/i/web/status/9...)*

*About 2 months ago - BLUE AP*

*#tettiverdi multifunzionali, il progetto ROOFmatters. Leggi l'intervista sul sito del LIFE+ [#progettoblueap blueap.eu/site/tettiver...](https://www.blueap.eu/site/tettiver...)*

*About a year ago - Kyoto Club*

Calendario

Il Progetto

**BLUE AP**

**Bologna Local Urban Environment Adaptation Plan for a Resilient City**

BLUE AP (Bologna Local Urban Environment Adaptation Plan for a Resilient City) è un progetto LIFE+ (LIFE11 ENV/IT/119) per la realizzazione del Piano di Adattamento ai Cambiamenti Climatici per il Comune di Bologna.

Il Progetto BLUE AP nasce con l'obiettivo di dotare la città di Bologna di un piano di adattamento al cambiamento climatico,

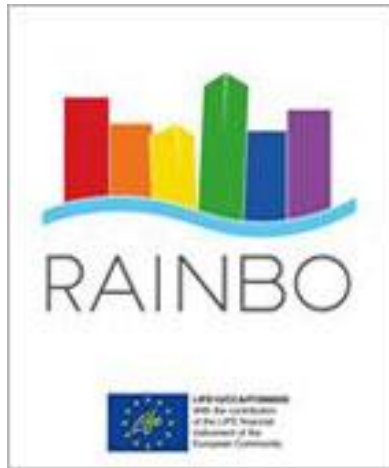
Il lavoro di pianificazione e sperimentazione svolto con BLUE AP nella città di Bologna, permetterà la realizzazione di linee guida per la definizione di analoghi Piani di Adattamento, che potranno essere adottati da tutte le città italiane di medie dimensioni.

Bologna sarà quindi la città – pilota che per prima in Italia avrà gli strumenti per affrontare la sfida del cambiamento climatico, ritenuta ormai una priorità a livello europeo e nazionale.

Il progetto prevede inoltre l'elaborazione di uno schema economico, che costituirà uno strumento utile per valutare le

# Bologna – RainBo LIFE Project

<https://www.rainbolife.eu/en>



**Comune di Bologna**



**Meeting point: Palazzo Sarpi, via Frà Paolo Sarpi, 2, Padova**

- **Urban Green Belt project (Interreg Central Europe). Sustainable management of urban green areas.** – Maurizio Minicuci - Municipality of Padova.
- **Resilient Padua. Local policies for climate change adaptation-** Daniela Luise – Municipality of Padova.
- **Veneto Adapt project. Local cooperation for regional adaptation** –Mattia Bertin - IUAV University of Venice.

<http://www.interreg-central.eu/Content.Node/Camera-di-commercio-Padova.html>

# Padova – Urban Green Belts Project

<http://www.padovanet.it/informazione/progetto-europeo-ugb-urban-green-belts>



**PADOVANET**

rete civica del  
Comune di Padova

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## Progetto europeo "UGB (Urban Green Belts)"

Gestione sostenibile degli spazi verdi urbani

Ultimo aggiornamento: 04/10/2017

Indice

- » [Il progetto](#)
- » [Obiettivi](#)
- » [Il ruolo di Padova](#)
- » [Studi e pubblicazioni](#)

Il progetto



### Documenti

[Urban Green Belts - opuscolo](#)  
.PDF 372.13 KB

### Link

[Interreg Central Europe](#)

[Media Gallery](#)

[Novità dal progetto - News](#)  
[UGB - Urban Green Belts](#)



# Padova – Veneto Adapt Project

<https://www.venetoadapt.it/en/progetto/>



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PROJECT

PROGRESS AND RESULTS

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ENGLISH



## Project

The general objective of Veneto ADAPT is to produce and test knowledge-based instruments and policies for a more climate-resilient Europe. The project aims at developing and testing a coherent approach for enhancing the regional capacity to respond to the impact of climate change, with focus on hydrogeological risk, through a networking initiative developed in the central Veneto conurbation (3.5 million inhabitants) among the territories of Metropolitan City of Venice and the Municipalities of Padova, Vicenza, Treviso, Cadoneghe, Curtarolo, Vigodarzere.

## Veneto ADAPT numbers

5 territorial realities with a total population of 3.5 million inhabitants (Metropolitan City of Venice, Union of Municipalities of Medio Brenta, Municipalities of Padua, Treviso and Vicenza) that share strategies and a multilevel approach to territorial governance for



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Palazzo Ca' Tron, Santa Croce 1957, 30135 Venezia

## Project Meeting

- **Discussion of project progress since last management meeting (3/2017):**
  - Action A.2 - presentation by LAKATAMIA with input from all partners,**
  - Action C.2 - presentation by NOA,**
  - Action C.3 - presentation by NTUA,**
  - Action C.4 - presentation by NOA,**
  - Action C.5 - presentation by NTUA,**
  - Dissemination actions - presentation by IUAV with input from all partners,**
  - Management actions - presentation by MADRE with input from all partners**
- **Preparation for the 2nd progress report and the 2nd visit of the external monitoring expert**
- **Upcoming actions**
- **Other issues/questions raised by project partners**

# Venice – Palazzo Ca' Tron - IUAV

## Project Meeting



# Venice – Palazzo Ca' Tron - IUAV

## Project Meeting

