

Milano



Comune
di Milano

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100

RESILIENT CITIES

MILAN ACTING ON CLIMATE EMERGENCY: THE RESILIENCE STRATEGY

Smart City Expo World Congress & Smart Mobility Congress 2019

Barcelona 19th – 21° November 2019

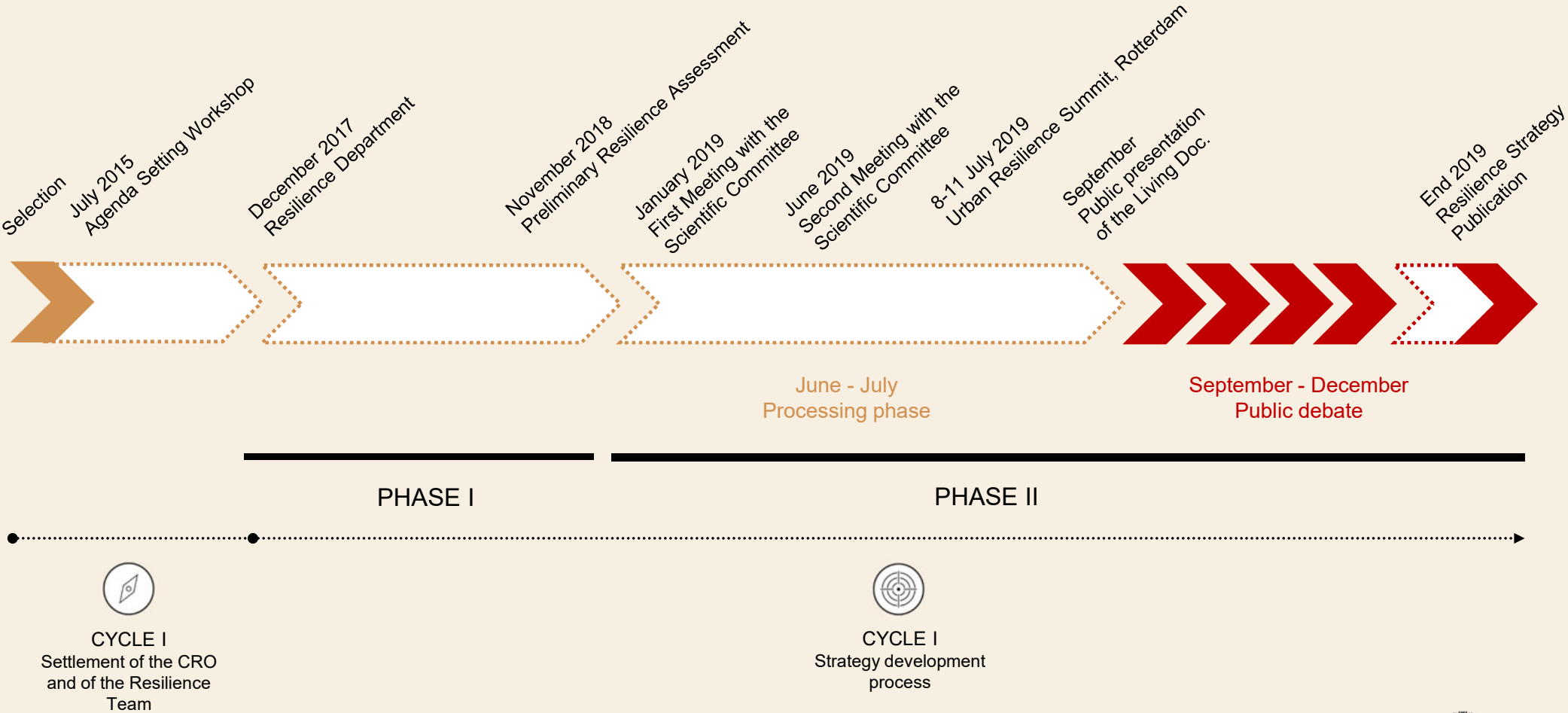
City Resilience Department

Milan Municipality

Lucina Meloni Tessitori



RESILIENCE STRATEGY | LIVING DOCUMENT



Shocks



Heavy rainfall - flood



Infrastructural failure



Social deprivation and poverty

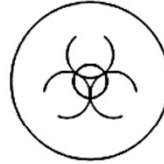


Phishing attacks

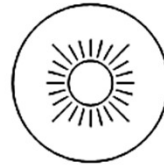


Accidents and hazardous materials

Stresses



Air and water pollution



Heatwaves



Lack of comfortable urban spaces



Temporary uses and site operations



Inequality – social segregation



Lack of affordable housing



Ageing population



Security and terrorism menace



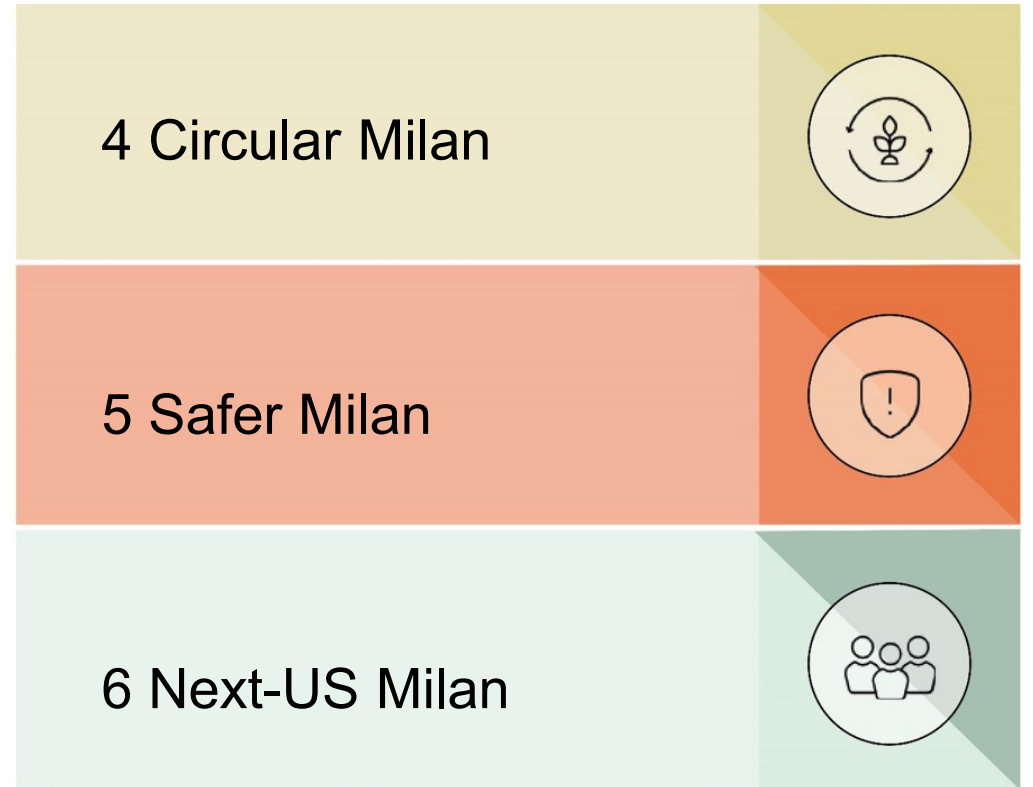
Migration waves



Outrages and civil disorders

100 RESILIENT CITIES

6 DISCOVERY AREAS



STRATEGY DEVELOPMENT PROCESS

6 Discovery Areas

3 Pillars

Actions



PILLAR 1 | EFFICIENT
AND PARTICIPATED
PROCEDURES FOR A
RESILIENT AND
SUSTAINABLE URBAN
DEVELOPMENT

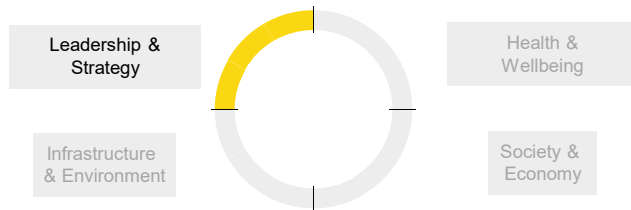


Establishment of a Resilience Department

Shocks & stress

- all

City Resilience Index



Stakeholders

General Department, Urban Planning Department, City Resilience Department

Status

Established and working

SDGs



Article 10 – Rules plan – City Government Plan

Shocks & stress

- Poor air and water quality
- Heat waves
- Flooding

Introduction of new standards for new construction and requalified building

Stakeholders

City Resilience Department, Urban Planning Department, AMAT (agency for mobility environment and the territory)

Status

On-going

SDGs



SPARE – Resilient Space

Shocks & stress

- Collapse of infrastructure
- Hazardous materials accidents
- Poor air and water quality
- Heat waves
- Construction site management and temporary uses
- flooding

Objectives: to improve the **response capacity** of **companies** in the Milan area **to extreme events** due to both natural risks and climate change and adaptation to them.

- Making companies aware, making known the types of risks to which they are subject
- Make companies pro-active _ what can they do to make themselves more climate proof?

Stakeholders

Municipality of Milan, Politecnico di Milano, Assolombarda
General Confederation of Italian Industry (Milan, Monza-Brianza, and Lodi)

Status

On going (5 years term)

SDGs



DERRIS DisastEr Risk Reduction InSurance

Shocks & stress

- Collapse of infrastructure
- Hazardous materials accidents
- Heavy rainfall - looding
- Heatwaves

Project co-financed by the European Commission under the Life program

Objective:

Reduction of risks caused by extraordinary climatic events

Area of interest: small and medium-sized enterprises in the Milan area.

Stakeholders

Unipol Gruppo S.p.A. (capofila), Città di Torino, Cineas, Anci, Coordinamento Agende 21 e UnipolSai.

Status

On going



SDGs



Sustainable Roof Project

Shocks & stress

- Poor air and water quality
- Heat waves

potential installation of SOLAR ENERGY plants and GREEN ROOF on roofs, in order to calculate the reduction of polluting emissions for the roofs of public buildings

Stakeholders

City Resilience Department,
IT Systems Department and Digital Agenda, ARUP, Agenzia
Mobilità Ambiente Territorio (AMAT)

Status

On-going

SDGs



H2020 CLEVER Cities Project

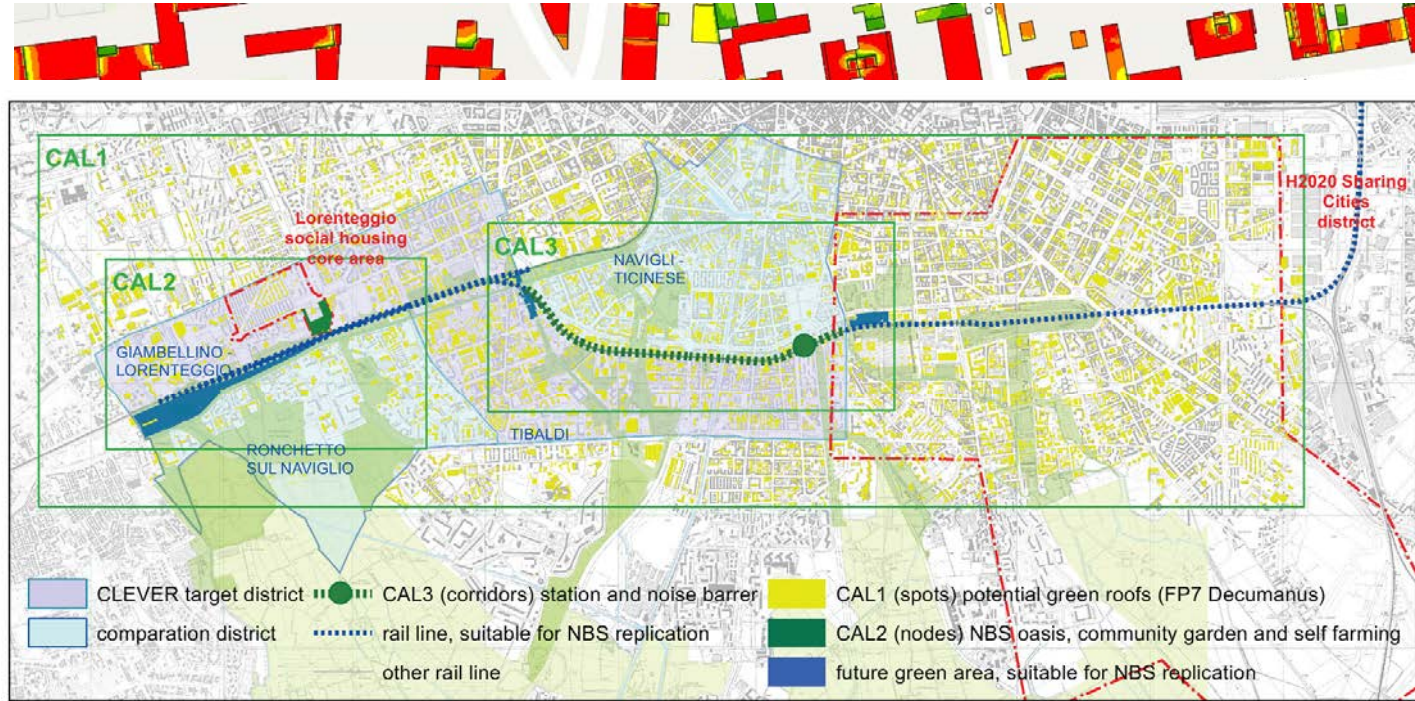


Co-designing Locally tailored Ecological solutions for Value-addEd urban Regeneration

Design and implementation of the interventions through a co-creation process that provides the setting up of the **Urban Innovation Partnership (UIP)** at urban level and of 3 more specific **CLEVER Action Lab (CAL)**.

- Milan CAL are focused on
1. promotional campaign, incentives and pilot projects on multifunctional **green roofs and walls**;
 2. innovative solutions for community gardens and farming;
 3. innovative plantations, water management on noise barriers: integration of NBS in a new railway station

Status
On-going: 2018/2023





PILLAR 2 |
A PUBLIC AND
PRIVATE SPACE,
LIVEABLE,
COMFORTABLE AND
ADAPTIVE AT THE
SERVICE OF
INHABITANTS

PAC – Climate Action Plan

Shocks & stress

- .Flooding
- .Poor air and water quality
- .Heat waves
- .Inequality and social exclusion
- .Decay of urban areas and spaces

A climate change mitigation plan with guidelines for adaptation to climate change, with a 2050 horizon and an intermediate target to 2030.

Priorities:

- . SLOW MILAN
- . POSITIVE ENERGY MILAN
- . COOL MILAN
- . INCLUSIVE MILAN
- . AWARE CITIZENS

Stakeholders

City Resilience Department, Air and Climate Unit, Agenzia Mobilità Ambiente e Territorio (AMAT)

SDGs



ForestaMI – Urban forestation plan

Shocks & stress

- Flooding
- Poor air and water quality
- Heat waves
- Decay of urban areas and spaces
- Construction site management and temporary uses



Stakeholders

Municipality of Milan, Metropolitan City of Milan, Milan North Park, Milan Agricultural South Park / PARTNERSHIP: Milan City Hall, Metropolitan City of Milan, Milan North Park, Milan Agricultural South Park / RESEARCH: Politecnico di Milano / RESEARCH SPONSOR: Falck Foundation

Status

On-going (vision and target to 2030)

SDGs



ForestaMI

FOCUS: school courtyards

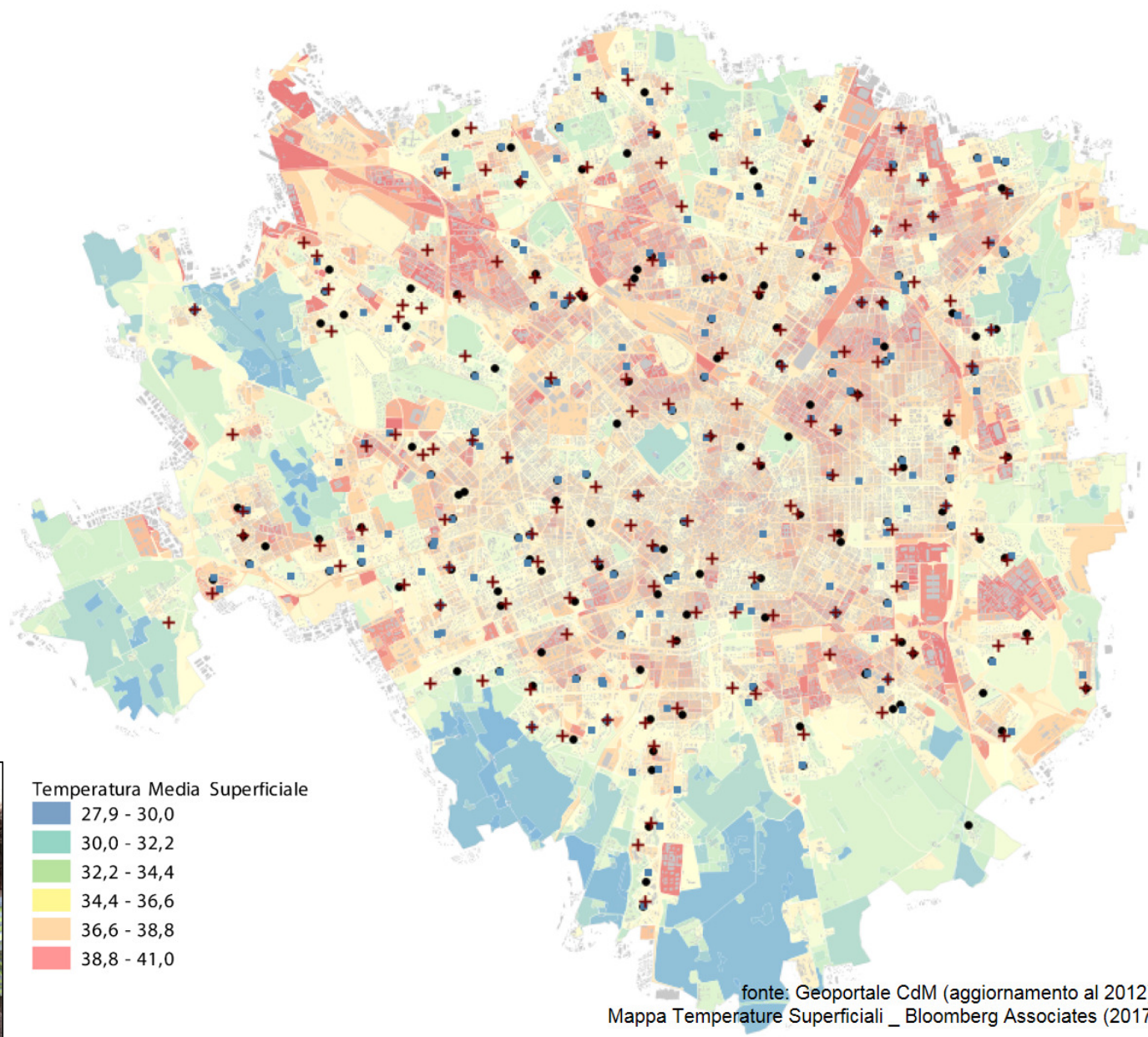
Forestami

Milano School OASIS

Greening opportunity
Adaptation to the changing climate
Sustainability
Cultural integration
Outdoor education

Status

On-going: call to be launch by the end of 2019
Financed by public/private sponsorship



LIFE VEG-GAP Project LIFE18 - PRE IT 3



Shocks & stress

- Poor air and water quality
- Heat waves

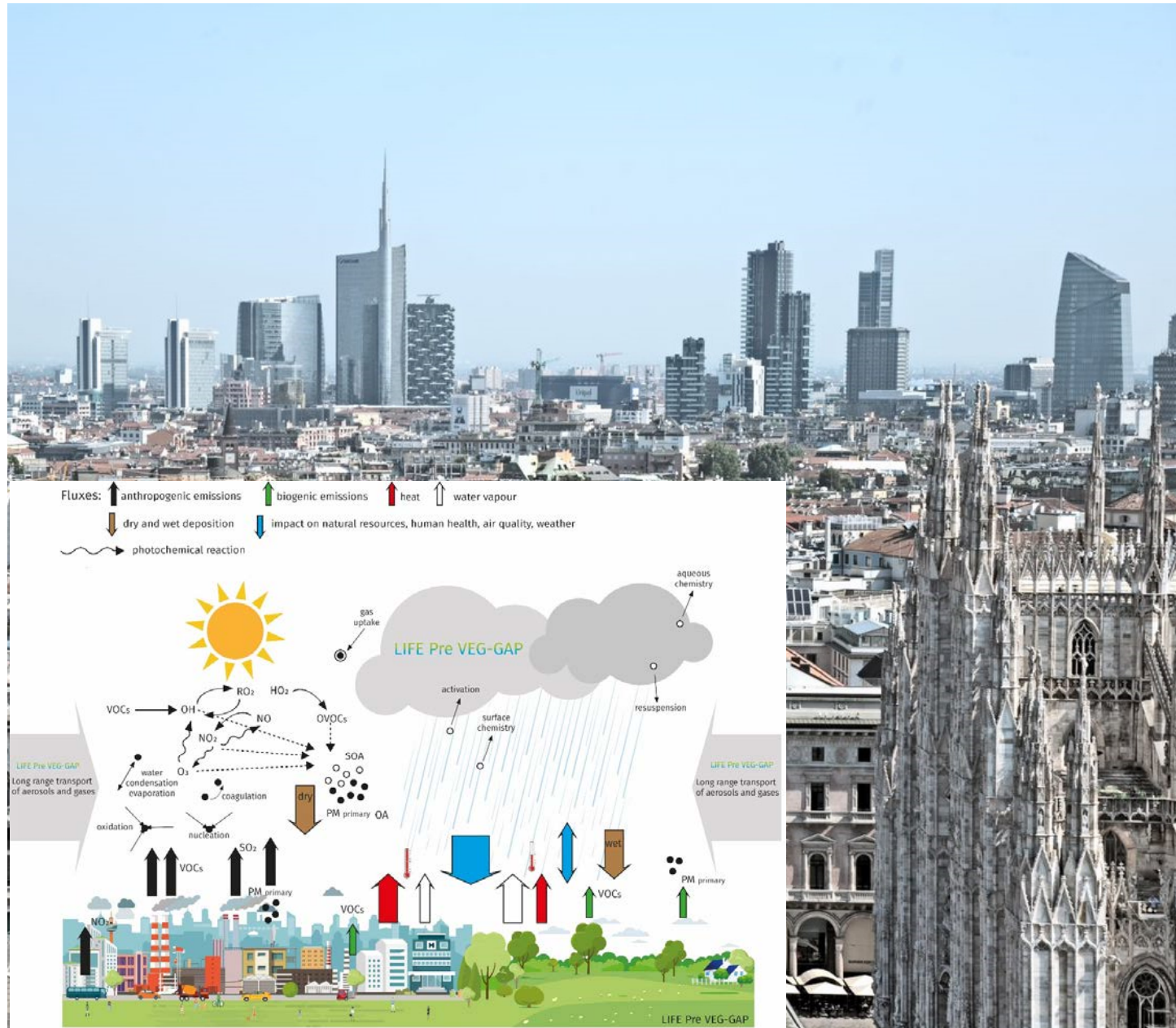
The first EU project studying the relationship between urban green, temperature and air quality in an integrated holistic way.

Stakeholders

Lead partner: ENEA
Milan Municipality
Madrid Municipality
Bologna Metropolitan city
ARIANET, CREA, MEEO and the University Polytechnic of Madrid

Status

On-going: 2019/2021



PILLAR 3 |
INCLUSIVE, AWARE
AND PROACTIVE
COMMUNITIES



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CITIES



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