

## **INTERREG MED Programme**

**2014-2020**

### **ESMARTCITY**

#### **Enabling Smarter City in the MED Area through Networking**

**(3MED17\_1.1\_M2\_022)**

**Priority Axis 1. Promoting Mediterranean innovation capacities to develop smart and sustainable growth**

**Specific Objective 1.1 To increase transnational activity of innovative clusters and networks of key sectors of the MED area**

**WP3 – Testing**

**Activity 3.3 – Pilot Testing**

**Deliverable 3.3.2 – Pilot Capacity Building – Partner PP6**

Contractual Delivery Date: Staff

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<b>Dissemination Level</b>		
PU	Public	X
PP	Restricted to Programme Partners and MED Programme	
RE	Restricted to a Group defined by the Partnership and MED Programme	
CO	Confidential, only for members of the partnership and MED Programme	

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## **1. Introduction**

During the Work package 3 Metropolitana City of Milan carried out some use cases in the context of monitoring of the electricity consumption and buildings, as well as the purification of air inside of some relevant offices, already interconnected to its ultra-wideband fiber optic network, in order to encourage the introduction of innovative solutions that give value to the well-being of its students and citizens of the metropolitan area.

The project therefore goes in the direction of encouraging the city to become "Smart Cities" thanks to the collection and analysis of data coming from IoT sensors. Basically, it relieves the environment in order to decide how and when to act in relation to the to safety, environmental quality and the consumption generated.

The new data and technologies, used within the project, must be considered as a mean to solve the sustainability challenges of cities, especially economic, social and environmental issues.

The present document follows the activities within A3.3 on Pilot Testing and specifically describes D. 3.3.2 on offering Capacity Building services towards SMEs of the project networked community associated with the Smart City concept.

The main objective of the capacity building is the dissemination of the innovative pilot deployment in “Sala del Tiepolo” in Metropolitan City of Milan and in two rooms of the schools Cremona and Zappa as a test bed for a more systematic deployment by the SMEs of new applications and services.

At the event online organised by video-conferecing has been invited Italian SME’s, which are also involved in other approved projects of Interreg and its target is to present the Innovative solution which allows dynamic structural control of buildings, consumption monitoring and air purification. The operation of the solution is based on the fiber optic infrastructure of the MCM network.

21 participants attended the one-day local capacity building workshop, amounting to 13 innovative SMEs.

In order to achieve the objective and maximise the interaction with people and enterprises active in the energy efficiency field, the capacity building workshop was organised as it follows:

- introduction of the project ESMARTCITY in relation to its technical aspects and target;
- presentation of the Pilot set up in MCM and in the Schools Cremona and Zappa;
- discussion of the pilot choices considering different aspects as for example economic, technical and social points of view;
- sharing acquired knowledge by pilot;
- invitation to other SME's to interact and explain different perspectives;
- discussion the state of the art;
- giving feedback from the participant SMEs;
- brief illustration of the platform which collects data

The capacity building workshop is held on video-conferencing using Google Meet on May 13, 2020 from 10.45 to 12.30. Due to the emergency of COVID-19 the meeting was organised online.

The detailed schedule of the capacity building workshop has been appended in **Annex 1**.

The list of participants attending the one-day local capacity building workshop is appended in **Annex 2**.

## **2. Content of the capacity building workshop**

Pilot Capacity Building relevant to the Smart City concepts and the deployed Pilot has been developed and provided taking in account lessons learnt and acquired knowledge. The event has

been offered towards innovative SMEs and enterprises of the networked community of Metropolitan City of Milan. The event is organised in Italian in order to be more accessible for local and national SMEs.

The first part of the capacity building is devoted to the introduction of the following themes:

- ESMARTCITY project introduction
- brief description of the pilots of the whole project
- detailed description of the local pilot and to quantitative aspects gained

Then the workshop proceeded with the discussion of experts in similar research projects, one involving MCM and one involving a green company very active as CEO U-earth biotechnologies, specialised in equipment for the air purification. Another important company, CEO NTSG, which has a big experience in fiber optical monitoring, has illustrated its policy and work in this field and the added value of this meeting was given also thanks to the participation of the other 2 start-up which are involved in energy efficiency improvements and renewable energy.

This paved the way to:

- initiate a wide discussion on concrete future opportunities
- brainstorming regards the role of SME's in the process of building Smart Cities
- collect participant feedbacks
- evaluate their level of readiness in design and supply new applications and services.

More precisely, the first part of the presentations touched the following topics:

- Project Objective
- Improvement of the innovation capacities of the Mediterranean cities
- Smart City Application Areas
- ESMARTCITY Approach and Results obtained so far
- SME Change
- Policy Change
- Brief illustration of the digital platform

While for the MCM and schools Cremona and Zappa pilot the following topics were discussed:

- Description of the building of MCM and 2 schools
- IoT technologies adopted
- Data acquisition and analysis
- Data interpretation and Modeling of the system
- Development of simple and non intrusive control improvements
- Discussion of the results obtained

The discussion proceeded with external experts focusing on two topics. The first was on the positive points of measuring not only the final impact on the user but also the energy generation in order to deliver the right amount of energy in the right moment at the highest efficiency rate. The second one was on pushing digital technologies also in the phase of design of the buildings, from BIM technologies, to simulation ones to better anticipate the impacts and the costs of improvements.

During and after the presentations, many topics were debated, from the technology used, the adoption of an open data paradigm, the monetary seeds that could boost the innovation at smart city level. It was also discussed about how to involve SME's in design and supply of new applications and services.

The key findings and conclusions are as follows:

- strong appreciation to the ESMARTCITY project, for the concrete development of wide and interesting case studies;
- no practical objection to move towards the development of “green” business;
- innovation is also understood as a mandatory goal for SME’s to develop their own business;
- local SME’s are quite aware of the available technological solutions to improve energy efficiency and innovate city’s infrastructure;
- wide understanding of the quadruple helix approach;
- general expectation that local authorities and the national government push the overall process, with adequate incentives and “green” regulations;
- general threat that data protection and privacy issues may impair a fast growth of new market opportunities.

### **3. Selected photos from the capacity building workshop**

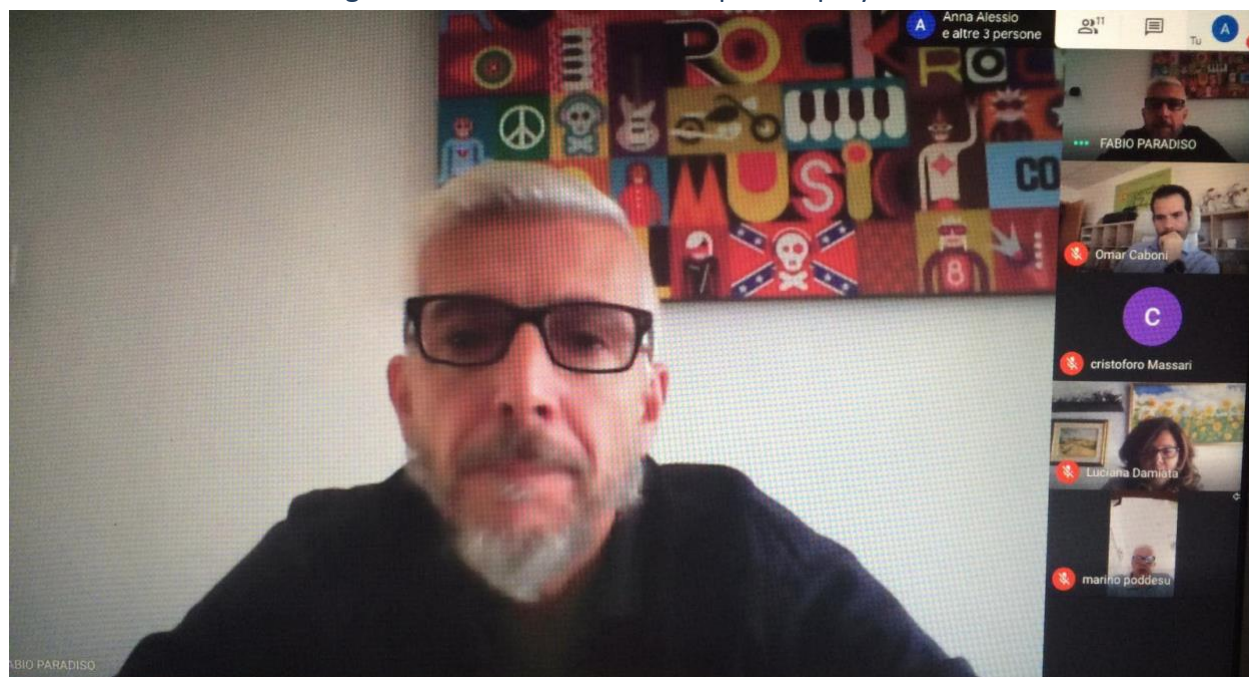


Figure 1: Presentation of ESMARTCITY project





Figure 2: Presentation of local pilot deployment



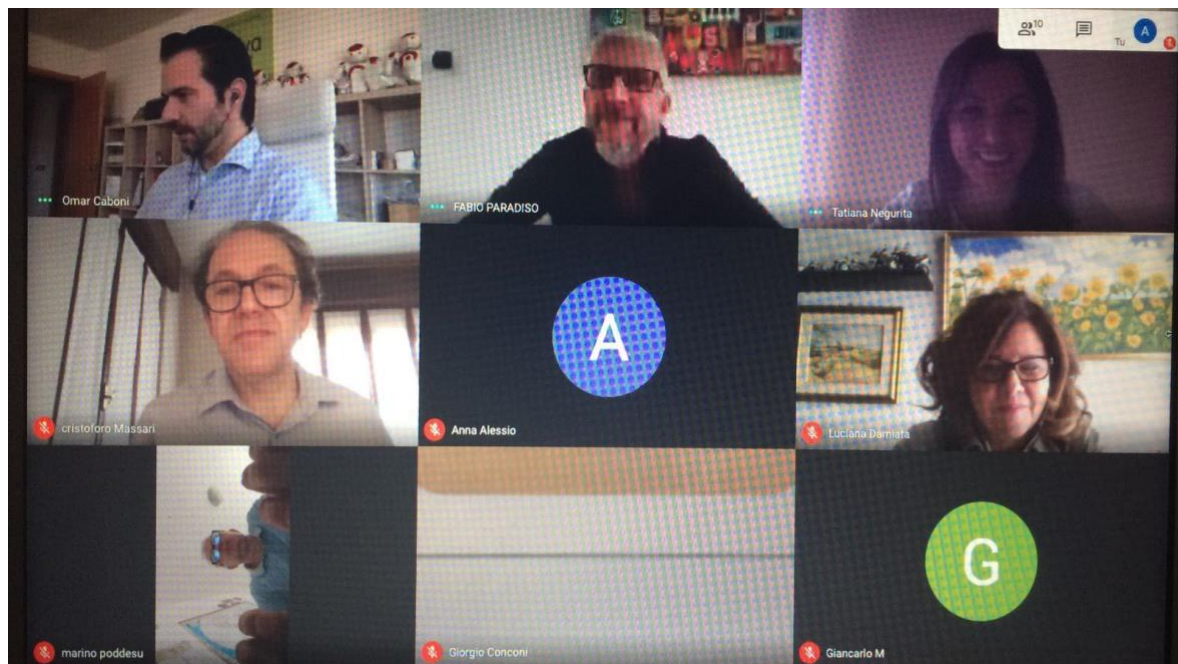


Figure 3: Participants engagement in the discussion





## 4. Publicity

The event was spread through different channels of MCM:

- Mailing to all MCM's staff (allusers@cittametropolitana.milano.it).
- Mailing to all SME's and other companies of their network.
- Mailing to other approved Projects of Interreg (GreenMind and CreaInnovation)
- Advertisement on different municipalities website:
  - [https://www.mi-lorenteggio.com/2020/05/11/milano-citta-metropolitana-progetto-esmartcity-med/109151/?fbclid=IwAR2cQnWhJmWcru9GtyNk2lstEspPmIr\\_vP7r-k7-olhrnk4r7qC\\_l4wfRzw](https://www.mi-lorenteggio.com/2020/05/11/milano-citta-metropolitana-progetto-esmartcity-med/109151/?fbclid=IwAR2cQnWhJmWcru9GtyNk2lstEspPmIr_vP7r-k7-olhrnk4r7qC_l4wfRzw)
  - <https://www.fuoridalcomune.it/2020/05/citta-metropolitana-presenta-i-dati-del-progetto-esmartcity/?fbclid=IwAR3GQPfu0abo0N5FGjGauhLrQuonySc-1Ux6iZ7QE0y2hfqjjnAY5K3zmvQ>

An example is in the following:

14/5/2020

Zimbra: Re: Invito partecipazione 12 maggio 2020 - evento ESMARTCITY

**A:** "chiara franceschini" <chiara.franceschini@siproferrara.com>  
**Cc:** "Anna Alessio" <anna.alessio@siproferrara.com>, "Maria Lucia Damiata" <ml.damiata@cittametropolitana.milano.it>, "a cellana" <a.cellana@cittametropolitana.milano.it>  
**Inviato:** Giovedì, 7 maggio 2020 15:40:18  
**Oggetto:** Invito partecipazione 12 maggio 2020 - evento ESMARTCITY

[Gent.me](#) buongiorno,

come da accordi intercorsi scorsa settimana, vi comunico che il **12 maggio alle ore 10.45** si terrà l'evento di **capacity building** del progetto **ESMARTCITY**, finanziato dal programma Interreg MED di cooperazione transnazionale nell'area mediterranea dell'Unione Europea. Con la realizzazione del progetto la Città metropolitana di Milano ha realizzato alcuni use cases nell'ambito del monitoraggio dei consumi elettrici e degli edifici e la purificazione dell'aria all'interno di alcune sedi di competenza, già interconnesse alla propria rete ad ultra larga banda in fibra ottica, al fine di favorire l'introduzione di soluzioni innovative che diano valore per il benessere dei propri studenti e dei cittadini del territorio metropolitano.

Lo scopo dell'evento è quello di illustrare che le tecnologie e dati intelligenti utilizzati all'interno del progetto, sia in Città metropolitana di Milano che nella scuola milanese Zappa-Cremona, devono essere considerati come mezzi per risolvere le sfide della sostenibilità delle città - questioni economiche, sociali e ambientali. Si evidenzia, infine, che l'implementazione delle attività del progetto ci ha consentito di raccogliere ed analizzare i dati dai sensori IoT, fondamentali per decidere come e quando agire rispetto alla sicurezza, qualità ambientale e consumi generati, ma anche per incrementare la sicurezza strutturale degli edifici e la qualità dell'aria al loro interno. Si prevede che i futuri investimenti per estendere a nuove aree urbane l'utilizzo di sistemi IoT potranno essere sviluppati grazie all'analisi dei dati raccolti ed elaborati all'interno di questo progetto pilota.

In allegato la locandina dell'evento con l'invito ad inoltrarla alle persone interessate e a comunicarmi eventualmente i nominativi e le mail delle stesse.

Grazie mille,  
Tatiana

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## 5. Annex 1 – Agenda

ESMARTCITY- MED

CAPACITY BUILDING

12 MAGGIO 2020 - Milano ore 10.45 – 12.30

Videoconferenza **Google Meet**

### Agenda:

10.45 Registrazione dei partecipanti

11.00 Saluti e apertura dei lavori – Dott. Carmine Pacente

11.10 Presentazione Progetto – Ing. Cristoforo Massari

11.20 Relazione tecnica e dimostrazione in tempo reale dell'applicazione sulle attività del progetto – Dott. Fabio Paradiso

11.40 Presentazione attività e domande

☐ Pradella Sistemi – Dott. Daniele Musazzi

☐ NesosNet – Dott. Gian Luca Rosetti

12.15 Sviluppi innovativi e prospettive progettuali future: Dott. Fabio Paradiso

12.30 Conclusione dei lavori

Moderata Dott.ssa Tatiana Negurita

Per iscrizioni scrivere a [t.negurita@cittametropolitana.milano.it](mailto:t.negurita@cittametropolitana.milano.it)



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## 6. Annex 2 – List of participants

