

# 5G for Smart Communities Support Platform

**Nordic Baltic Region**

**5G innovation in healthcare**

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**5GSC**

5G for Smart Communities

# Introduction

5GSC Support Platform

# Introduction

5G for Smart Communities is part of the Connecting Europe Facility (CEF) Digital programme

The CEF2 Digital programme grants funds for the rapid deployment and take up of 5G for smart communities and innovative applications

The 5GSC programme finances the 5G infrastructure for Services of General Interest (SGI)

Use cases in such fields as health, education and other services of general interest



## ...what is a Smart Community?

By offering enhanced, smart, digital services, « 5G for Smart Communities » aim at the well-being of citizens, businesses, organisations and public administrations. Smart services, for example, can help make public services more easily accessible, provide more effective emergency response mechanisms, automate the agricultural and food value chain, improve healthcare services or monitor and streamline local mobility.

# Introduction – THE 5GSC Support Platform

The 5G for Smart Communities Support Platform is an EU project dedicated to supporting stakeholders of the European Commission's funding programme, 'Connecting Europe Facility – Digital', under the calls for project proposals for '5G for Smart Communities'.

December 2022- December 2025

Partners:

- Schuman Associates – leader
- ETNO
- IDATE



**5GSC**

5G for Smart Communities

# 5GSC objectives

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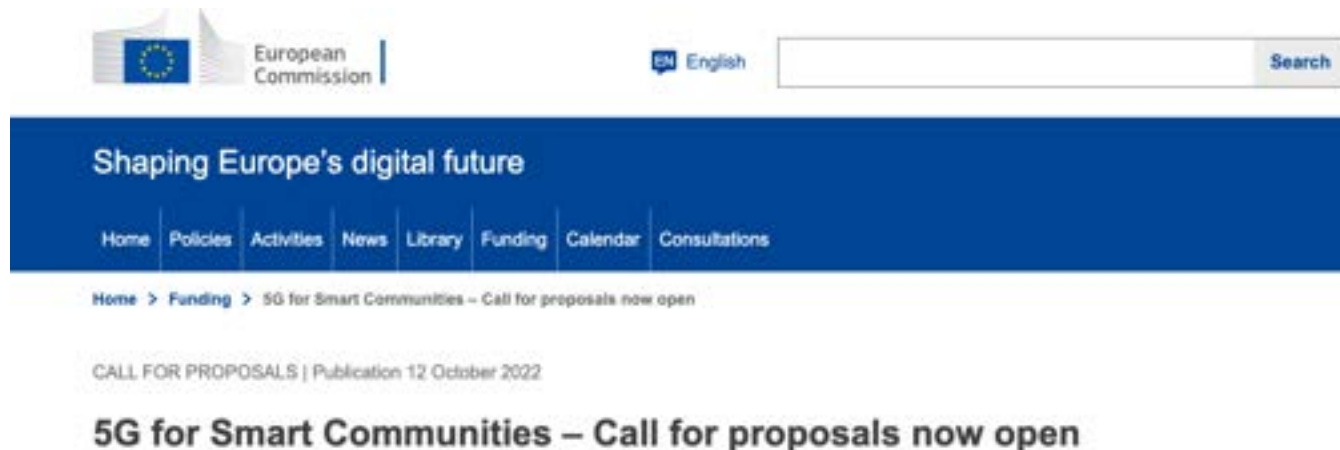
# 5GSC Support Platform objectives (1/2)

- 5GSC SP will play a key role as a “one-stop-shop”
- Animate the cluster of 5GSC projects
  - Facilitate information exchange, knowledge sharing, ongoing collaboration between 5G Smart Community projects
  - Develop and maintain a knowledge base of Use Cases targeted at specific sectors and stakeholder groups
  - Facilitate the replicability of good practices



# 5GSC Support Platform objectives (2/2)

- Engage stakeholders of 5G Smart Communities
  - Raise awareness of the 5GSC projects among the wider Smart Community ecosystem
  - Provide guidance and support to applicants
  - Foster synergies with smart cities initiatives and organisations funded under other programmes
- Maximise the number of applications for each 5GSC CEF call
- Support the European Commission in policy conception and stakeholder consultation
  - Collect insights, ideas and inputs from key 5G SC stakeholder groups
  - Support the design and implementation of 5G SC policy and CEF work programmes by the EC





# 5GSC Call#1 projects – 5G innovation in healthcare

5GSC Support Platform

# 5GSC Call #1 projects

	5G4ASSAC	5G4UH	5GAGRIHUB	CONNECTOW	Flanders Smart Fields	Hi5	PPDR 5G
Project	5G for a Smart Sicilian Academic Campus	5G for University Hospital	5G MPN AgriTech HUB	5G Connectivity for Wavre	5G rural coverage for innovative healthcare services in the Westhoek	High Connectivity via 5G	5G based PPDR broadband services
Country	Italy	Germany	Hungary	Belgium	Belgium	France	Hungary
Coverage area	Campus	Hospital	Farm	City (Wavre)	Rural area	City (Toulouse)	EU external Schengen border
Vertical	Education	Health	Agriculture	Emergency services + Energy	Connectivity for healthcare and education	Connectivity to public services, smart city	Emergency services
Private network	Yes	Yes?	Yes	Yes	No	Yes?	Yes

PPDR: Public Protection and Disaster Relief

# 5GSC call #1 projects

## 5G4UH: 5G for University Hospital (Germany)



Vodafone (MNO) together with Frankfurt University hospital will deploy a leading-edge 5G infrastructure.



### 6 use cases enabled:

- ✓ mobile ultrasound examinations
- ✓ telemedical concept for Covid-19 diagnosis
- ✓ digital health records
- ✓ optimising internal and external logistic processes
- ✓ comprehensive alarm systems
- ✓ wearable biosensors that allows healthcare providers to monitor patients in the hospital and at home



# 5GSC call #1 projects

## 5G based Public Protection and Disaster Relief broadband - PPDR 5G services on the Hungarian-Ukrainian border (Hungary)



The Pro-M Professional Mobilradio Private Company Ltd., a special Public Protection and Disaster Relief (PPDR) telecommunications service provider, in cooperation with 4 socio-economic drivers (National Ambulance Service, National Police Headquarters, Hungarian Defence Forces Command) and the public IdomSoft Zrt (Ltd), key player in the development of electronic public services and systems will implement a 5G-based disaster-resilient mobile network along the 136.7 km Hungarian-Ukrainian border



**At least 15 use cases with primary areas of use:**

- ✓ health services,
- ✓ law enforcement and
- ✓ border protection



# 5GSC call #1 projects

## FlandersSmartFields: 5G coverage for innovative healthcare services in the Westhoek (Belgium)



E-BO Enterprises (MNO), Jan Yperman hospital and the Province of West-Flanders will deploy a high-end 5G infrastructure in the Westhoek region (Flanders Fields)

### 3 use cases enabled:




- ✓ remote assistance for connected emergency response vehicles
- ✓ transportation of blood samples by drone
- ✓ remote classroom for students unable to attend classes (bednet)



# 5GSC call #1 projects

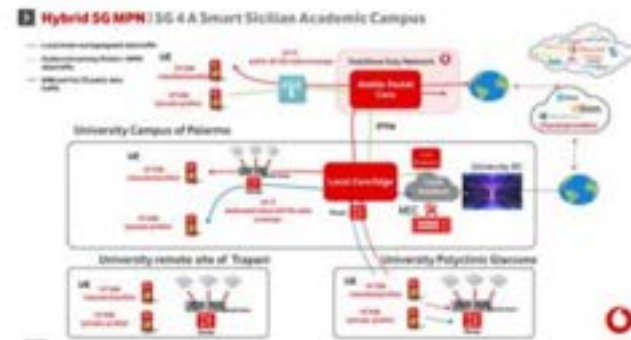
## 5G4ASSAC: 5G for a Smart Sicilian Academic Campus (Italy)

 Vodafone (IT) together with UNIPA, University of Palermo (SGI provider) will implement a 5G Private Mobile Network (MPN) in the cities of Palermo and Trapani



### 2 use cases enabled:


- ✓ new functional approaches to education training in universities and hospitals
- ✓ creation of a continuous care system



# 5GSC Call #1 projects




## CEF CALL 1 - 5G FOR SMART COMMUNITIES PROJECTS

 ≈ 4.00 MM €




5G for a Smart Academic Campus in Sicily

 ≈ 3.34 MM €




5G for the Frankfurt University Hospital

 ≈ 4.00 MM €




A 5G network for Disaster Relief & Public Protection along Hungary-Ukraine border

 ≈ 0.4 MM €




A 5G network in a Mosonmagyaróvár farm

 ≈ 2.8 MM €




5G Connectivity for Smart City Services in Toulouse

 ≈ 2.98 MM €



A 5G Network for Emergency Responses in Wavre

 ≈ 4.13 MM €



5G Coverage for Healthcare & Education in Flanders Fields

Source: HaDEA

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5G for Smart Communities

# 5GSC SP Events

5GSC Support Platform



# 5GSC SP Planned Events

## Your participation in the 5G Smart Communities:

- CEF Call 3, 4 & 5 Launch and Promotion of CEF Call 1-4 Projects
  - 5GSC Community Launch Event: 25 April 2023 in Brussels
  - CEF Call 3 Launch and Promotion of Call 1 projects.
- 5GSC Cluster Collaboration Meetings: 2 per annum. Online workshops to exchange knowledge between projects and facilitate matchmaking via B2Match platform
- 6 x online Capacity Building Sessions per year
- 5GSC public authorities meetings

## Maximise Participation in CEF 5GSC calls:

- Call Teaser Webinars
- Online Info Day Webinars

## Interactions with applicants:

- Community Survey to collect stakeholder feedback (Advisory board, BCO network 5G WG, surveys with past applicants)
- 5GSC Support Centre on the Digital Strategy Website to provide information and resources for potential applicants

# 5GSC SP Capacity building workshops

## Online workshops 2023 – draft agenda

The overall objective is twofold:

- Share good practices and examples among the 5GSC community
- Empower potential applicants in the project plan and application writing process

Draft agenda: 60-90-minute online sessions every first Thursday of the month at 10:00 CET

Session	Date <i>tbc.</i>	Content
1	6 April 2023	Exploring 5G Use Cases
2	4 May 2023	Smart Communities health care use cases
3	1 June 2023	Introduction to Campus Networks for Smart Communities
4	7 September 2023	5G Infrastructure sharing for CEF 5G Smart Community Projects
5	5 October 2023	Consortium Planning and Management for Smart Community Projects
6	2 November 2023	Co-funding and Procurement Obligations for contractors
7	7 December 2023	Bid writing process for CEF 5GSC

# Contact us

## 5G for Smart Communities Support Platform

*Connect with us*  
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#5G4SC #connectivity4EU