

# 5G and Edge Cloud for Smart Communities

## Expectations from 5G for Smart Communities Call 3



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Gerasimos SOFIANATOS  
Deputy Head of Unit – Investment in High-Capacity Networks  
European Commission, DG CONNECT, Unit B5

# 5G and Edge Cloud for Smart Communities

**CEF-DIG-2023-5GSMARTCOM-EDGE-WORKS**



## Funding

- Call budget: **51 million euros**
- Deployment of 5G and Edge infrastructure elements that enable innovative use-cases for services of general interest or public authorities

## Raising Awareness

- [Benefits of 5G in populated areas](#) & the importance of reaching 5G targets
- FYI: The dedicated **Coordination & Support platform (CSA)** will gather good practices & disseminate results
- See also the call: CSA for edge cloud integration

# 5G and Edge Cloud for Smart Communities

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- Reimbursing **up to 75%** of the infrastructure costs



- Facilitating an **online community** for stakeholders (**5GSC.EU**)



- “partner search” function of the Funding & Tenders portal

# 5G and Edge Cloud for Smart Communities

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**At least:**

**The owners of the funded 5G infrastructure:**

the company that will operate the network infrastructure (possibly a private network and with unlicensed 5G spectrum)



**The providers of the use cases:**

public authorities or providers of **services of general interest** (*during the lifetime of the project*)

# 5G and Edge Cloud for Smart Communities

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## Eligible costs

- ✓ 5G passive & active infrastructure, including **5G connectivity software & services** and **connectivity hardware/software** for objects
- ✓ **Edge cloud hardware/software**
- ✓ Fibre backhaul, yet *not* the major focus (< about 10%)
- ✗ Individual applications, internet software services

## Security Requirements

- ✓ Applicants should fill in **self-declarations**, including **guarantees approved by the Member State** in which they are established, on the basis of national law  
(**Not applicable for the end-users of the consortium**)

# Call-3 in a snapshot



- **What's new**
  - Bundling 5G with **Edge Cloud** deployment.
  - Reimbursement of the Edge Cloud computing infra as an option (if deployed **at the same location** to take advantage of energy and time efficiencies).
- **What remains unchanged**
  - At least **2 partners**: the owner of the 5G infra & the provider of the SGI use-case.
  - **Up to 75%** reimbursement of the infra cost (passive & active).
    - **Fibre** backhaul (up to **10%**).
  - Total funding: **€51 million**.
  - Procurements should be **in line with 5G cybersecurity toolbox** (high-risk suppliers).
  - Duration **36 months** (extensions are possible).

# Closing the gap between 5G & Edge



## The premise?

- Slow rollout of Edge capacity in 5G. (DD target is 10 000 edge nodes by 2030)
- no infra deployment, no software developed



## The promise?

- Decreasing latency in 5G (6G) > added value in compute & storage attached
- Off-loading for battery operated and resource constraint (low CPU/RAM/storage) devices

## Hot to get there?

- CEF-DIG-2023-5GSMARTCOM-EDGE



5G for Connected and Automated Road Mobility in the European Union

## Experimental use case example:

- low latency, autonomous and assisted driving vehicle functions
- 5G connectivity and edge computing infra deployed by the network operators

# 5GSC Community Support Platform



- **Make sure to join the 5GSC Community Support Platform: 5GSC.eu**
- The platform is a networking & knowledge-exchange online platform where you can:
  - Meet like-minded stakeholders & project partners
  - Share good practices
  - Stay up to date with 5G events
  - Get information on call openings





# Questions & Answers