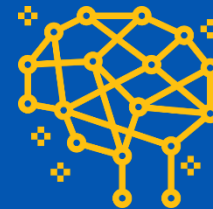




CEF Digital 2023 - 3rd Calls for Proposals - Bulgarian Info Day

29 November 2023



CEF Digital - Policy Context

*Stavros Kalapothas, Policy Officer
Investment in High-Capacity Networks
European Commission, DG CONNECT*

CEF Digital Calls 3 – policy context

- Underpinning Digital Decade targets (5G & Gigabit)
- Strengthening EU connectivity with the rest of the world (Global Gateway)
- Ensuring EU resilience in a tense geopolitical context
- Supporting the transformation of the telecom sector

CEF Digital Calls 3: building on Calls 2 lessons

- More time for applicants to prepare proposals
- More time for MSs to provide support/approvals
- Continuity with exclusion clauses and guarantees
- Size of calls and readiness of topics
- Indicative grant size of proposals

Calls 3: opened 17 Oct 2023

Accelerating 5G deployment

- 5G corridors (EUR 100 million):
 - 95M€ for works
 - 5M€ for studies
- 5G communities (EUR 51 million)
 - 51M€ for works
 - We expect around 15 new 5G standalone best practices

Strategic backbones

- Global gateways (EUR 90 million)
 - 75M€ for works, key strategic projects based on Global gateway priorities
 - 15M€ for studies

Total budget: 241M€

Submission deadline 20 February 2024

Quality of proposal is key for success of calls!

5G and Edge Cloud for Smart Communities



The 5G “continuum”

Large-scale 5G deployments

Local 5G systems



Major transport paths



Urban areas



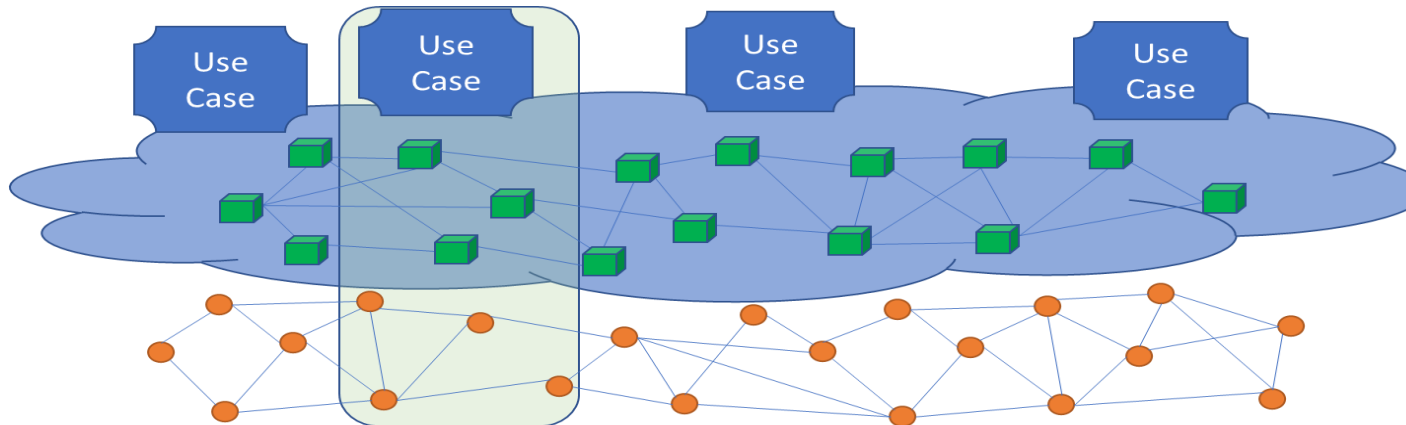
Rural areas



Geographical continuum:
From main corridors and cities
to local communities and
villages

Cloud Edge
infrastructure

Connected objects
and devices (IoT)



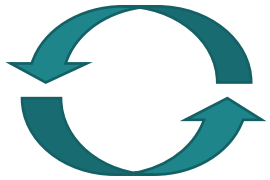
Technological continuum:
Application-driven vertical
integration, stimulus to EU
digital supply chain

5G deployment and take up (bundling connectivity to applications via cloud-to-edge/data/IoT)

5G connectivity for Smart Communities



Application-pull



Technology-push

- Use cases to develop or improve public services for a local community ...
- Stimulating European digital supply chain and standards
- Gigabit and 5G rollout linked to use cases and enabling digital capacities' interconnection

Pooling resources to support local digital transition

Public resources

Private resources

Local digital transition plan

Use Case

Use Case

Use case

Digital enablers and capacities
(Cloud, Data, HPC, QCI, AI,...)

5G infrastructure (Base Stations,
fibre backhaul, connected IoT)

CEF Grant
Blending

CEF Digital contribution

Examples of use cases:

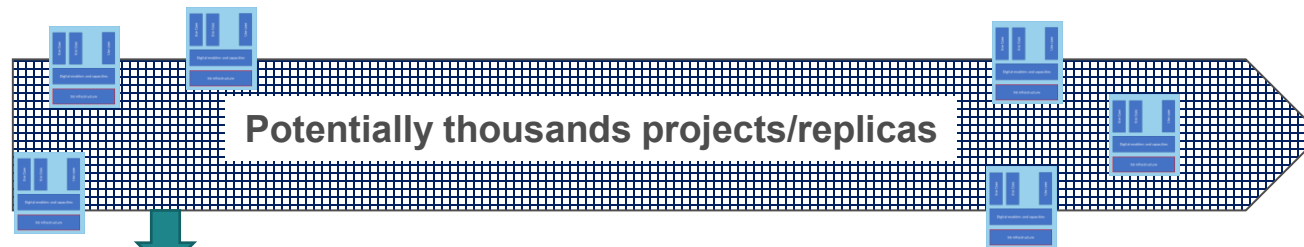
- Healthcare: patient monitoring and assistance at home
- Disaster prevention: geo-environmental data, predictive modeling
- Immersive virtual education and smart working environments
- Smart agriculture and precision farming
- Industry 4.0, manufacturing and logistics

Synergy between programmes (sharing of best practices, knowledge...)



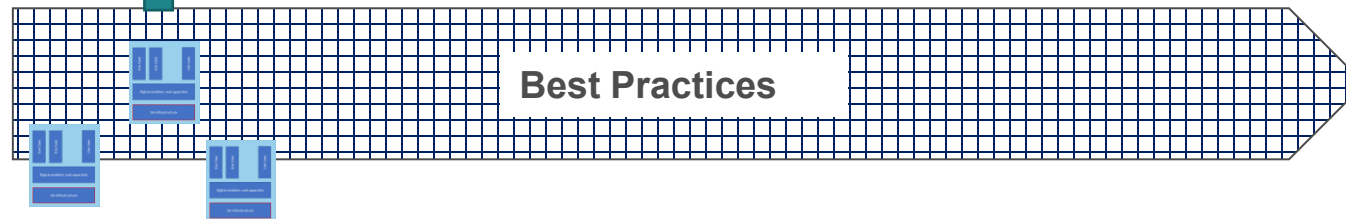
RRF or National
programmes

CEF
Digital



Facilitate replicability at EU level: common projects characteristics technical, procedural,...

Includes synergy with BCO network (co-funded by CEF)



2021

2022

2023

2024

2025

Coordination & Support

Sharing of:

- Requirement analysis
- Technical specs
- Reference architectures
- UX tests and reports
- SA notification best practices
- Business models
- Impact assessment models
- Investment models
- Partnership agreements
- Technical assistance
-

Terms &
conditions, licence
models,....

5G and Edge Cloud for Smart Communities



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

Funding

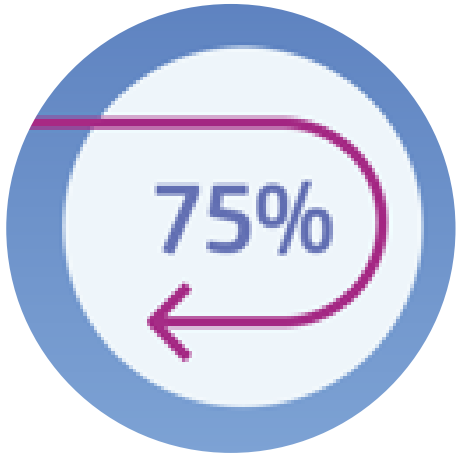
- Call-3: **51 million euros**
- Deployment of 5G and Edge infrastructure elements that enable innovative use-cases for services of general interest or public authorities

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

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



- 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

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



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

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



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-1 projects



● Call-1 (ongoing projects)



Call-1 projects



≈ € 4.00 M



5G for a Smart Academic
Campus in Sicily



≈ € 3.34 M



5G for the Frankfurt
University Hospital



≈ € 4.00 M



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



≈ € 0.4 M



A 5G network in a
Mosonmagyaróvár farm



≈ € 2.8 M



5G Connectivity for Smart City
Services in Toulouse



≈ € 2.98 M



A 5G Network for Emergency
Responses in Wavre



≈ € 4.13 M



5G Coverage for Healthcare
& Education in Flanders Fields

*The amounts refer to the max EU financial contribution

5GSC Call-1 & -2 trends



- **From projects' portfolio**
 - Public Operators - Alternative Operators - Tower Companies
 - Public & Private 5G Networks (MPN)
 - Transitional flexibility: 5G Standalone (SA) & 5G non-Standalone (NSA) (RF upgrade, 4G core)
 - **Edge Cloud** network integration (with EU-based cloud solutions)
 - Key benefits:
 - Densification: increase of the connected objects & devices
 - Reduced power consumption
 - Variety of IoT applications (port safety, city recycling, city traffic, precision agriculture)
 - Multiple verticals (health, education, energy, transport)
 - Positive impact in environmental transition and energy consumption

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).

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



**3rd Call is
now open!**



More info



5G AND EDGE FOR SMART COMMUNITIES

Available budget: **51M Euro**

Application deadline: **20 February 2024**

Questions & Answers