

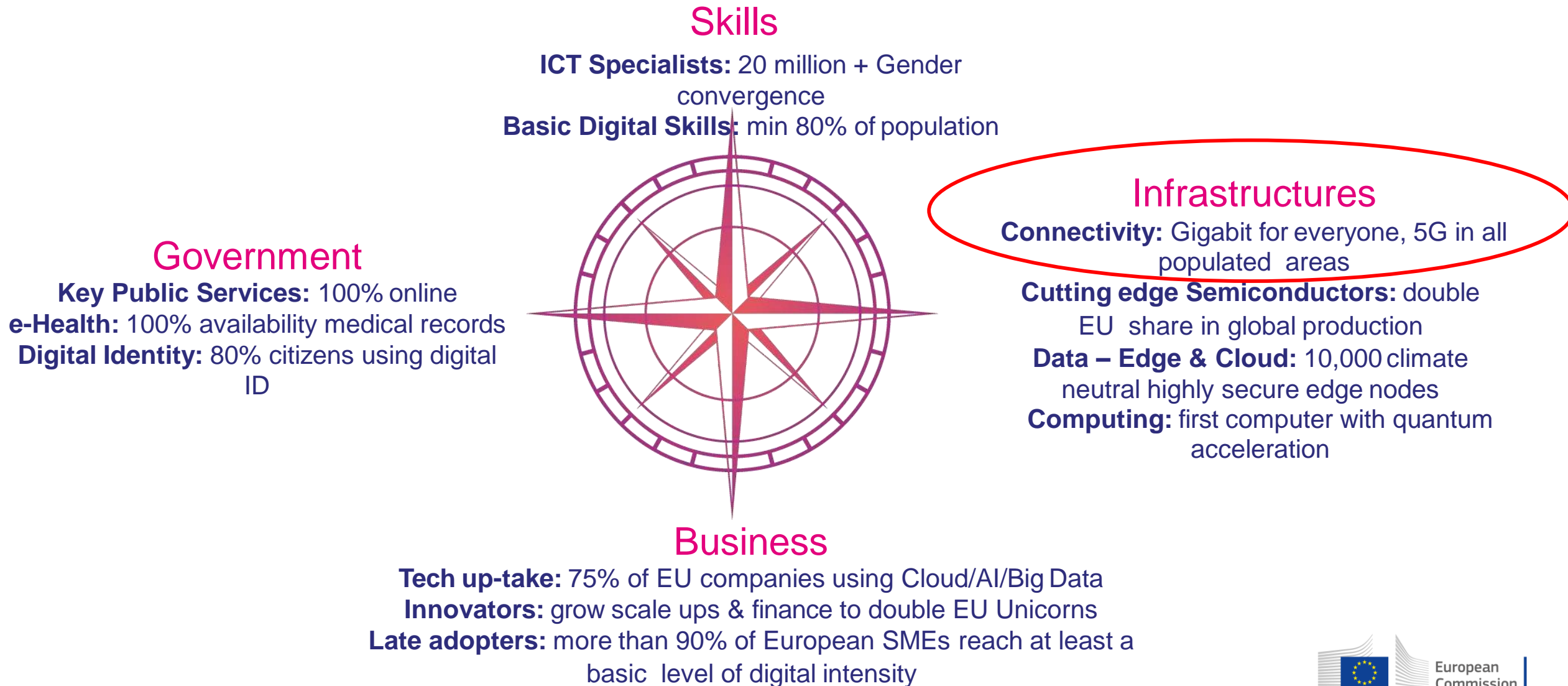


5G for Smart Communities capacity building:

*Why uses cases? How they matter in the
CEF2 Digital Smart Communities calls*

*Eric Gaudillat & Bernadett Koteles-Degrendele
Investment in High-capacity Networks Unit (B.5)
DG CONNECT – European Commission*

5G in Europe's Digital Compass towards 2030



5G & 5G4SC

5G is a new technology offering **faster**, **reliable** & **secure connectivity** for many devices

5G contributes to the development of **Smart Communities** that aim to provide **digital innovative services** for its citizens



ADVANTAGES OF 5G4SC: Some examples

Stable & efficient connectivity



Teleworking in remote areas

More reliable network



Remote patient monitoring

Greater network capacity



Immersive learning & virtual reality in classrooms

Device interconnection



Sharing of electronic health records in emergency situations

Secure networks



Easily identifying users & flows to prevent cyber risks & threats

Connecting Europe Facility - CEF DIGITAL

Actions supporting 5G infrastructure deployments

5G corridors along transport paths

5G for Smart Communities: 5G connectivity for socio-economic drivers

Actions supporting pan-EU backbone infrastructures

Connectivity for Digital Global Gateways

Pan-European cloud federation

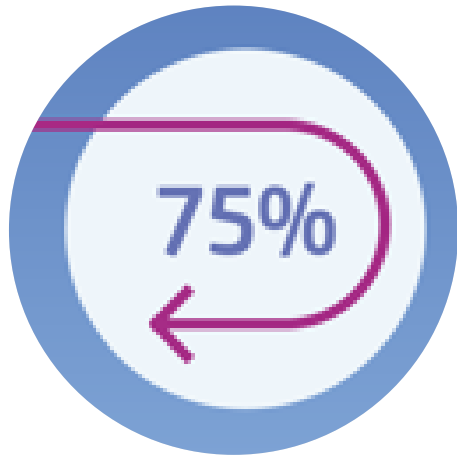
Quantum Communication Infrastructure

Terabit connectivity for HPC

Operational Digital Platforms

CEF DIGITAL & 5G4SC

How can the Commission support the development of 5G4SC?



1. Reimbursing **up to 75%** of the infrastructure costs



2. Facilitating an online **community for stakeholders 5GSC.eu**
(CSA, workshops, **capacity building**)



3. Organising webinars to promote **matchmaking** between service providers & end-users

Reimbursing infrastructure costs

5G4SC calls for proposals

Call 1: *Results*

- 7 projects
- EUR 21 million
- BE, DE, FR, HU, IT
- Health, Education, Agriculture, PPDR, smart cities

Call 2: *Closed, waiting for results*

- Call 2 closed on 21 March 2023
- EUR 50 million
- 75% co-funding
- End-user eligible costs: antennas, connected sensors, use-case definition

Scope of the calls

What can (& cannot) be funded under 5G4SC?

Eligible Costs

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

End-User

During the lifetime of the project, the end-user must be:

- ✓ Public authority
- ✓ Provider of SGI/SGEI

Security Requirements

- ✓ A **self-declaration** must be submitted by all participating legal entities & **approved by the Member State** in which they are established, on the basis of national law (See call text)

Participants

Who can participate in the call for proposals?



2 requested participants (*ok if from one Member State*):

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)



CEF CALL 1 - 5G FOR SMART COMMUNITIES PROJECTS



≈ € 4.00 M



5G for a Smart Academic
Campus in Sicily



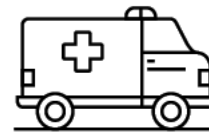
≈ € 3.34 M



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

Smart city example 1: Hi5: High Connectivity via 5G (France)



Toulouse Métropole together with Alsatis (MNO) will deliver leading-edge connectivity to public services, building on the existing fibre-optic network and data centres, in the Toulouse metropolitan area



5 use cases enabled:

- ✓ “City Services” – traffic management and supervision of public space
- ✓ “Event Connectivity” – recording and communication equipment during outdoor events
- ✓ “Mobility Lab” – net-based ultra high-speed services for start-ups and small enterprises
- ✓ “Education” - teaching and academic research at the University of Blagnac
- ✓ “High-speed video data offloading” for more safe and user-friendly public transport

SmartCity example 2: CONNECTOW: 5G Connectivity for Wavre (Belgium)



Citymesh (MNO) and the City of Wavre will build a city-wide state-of-the-art 5G private network



6 use cases enabled for:

- ✓ Amusement park (Walibi)
- ✓ Police department
- ✓ Fire department
- ✓ Business parks on the edges of the city
- ✓ University research
- ✓ Public transportation



Facilitating an online community & organising Capacity Building meetings

Purpose

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

Target audience

- Examples: operators, end users, industry, public authorities and service providers
- Open to all

Registration and information

- www.5GSC.eu

Capacity building sessions (online)

Nr	Date	Time slot	Topics/ Titles
1	1 June	10-11:30	5G use cases
2	22 June	10-11:30	Health
3	6 July	10-11:30	Education
4	7 Sept	10-11:30	5G infrastructure sharing
5	5 Oct	10-11:30	Consortium planning and project management
6	19 Oct	10-11:30	Co-funding and procurement
7	7 Dec	10-11:30	Bid writing (CEF)



More Information

- Check the [5G4SC webpage](#) for regular updates and past calls
- Contact HADEA-CEF-DIGITAL-CALLS@ec.europa.eu for questions related to implementation
- Join our [5GSC online community](#): 5GSC.eu (to get updates on the future calls, benefit from matchmaking, get to know the projects and attend capacity building sessions)



THANK YOU!

