



5G and the digital transition of local communities

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Connectivity for a post-COVID era

- ❑ New EU Digital Decade policy targets: 1Gbps to all households, 5G in all populated areas
- ❑ Connecting the “small”: IoT systems, towards a “zero-distance society”
- ❑ Connecting the “large”: pan-European, cross-border backbones and 5G corridors
- ❑ Geographical continuum : from main corridors and cities to local communities and villages
- ❑ Technological continuum: Vertical integration across EU digital ecosystem
- ❑ Strategic autonomy: foster the digital supply chain,



EU's 5G performance

- 5G coverage mid 2020: 14%
- 5G readiness: 39%
- 4G Mobile internet take up: 71%

Risks:

- deployment costs unaffordable for private sector
- mismatch coverage/take up (e.g. for lack of demand, skills, ...)
- rural areas will lag significantly behind, especially for standalone 5G (due to market failures, lack of proper backhaul,...)

The two most important instrument to reach the targets are:

- a) publicly supported infrastructure investments and
- b) sharing of knowledge to implement these investments



☐ Targets for 5G:

- ☐ **2025: Uninterrupted 5G coverage in all urban areas and all major terrestrial transport paths**
- ☐ **2030 (Digital Decade): 5G in all populated areas**

Funding instruments for digital connectivity



CEF 2021-2027 (million €)

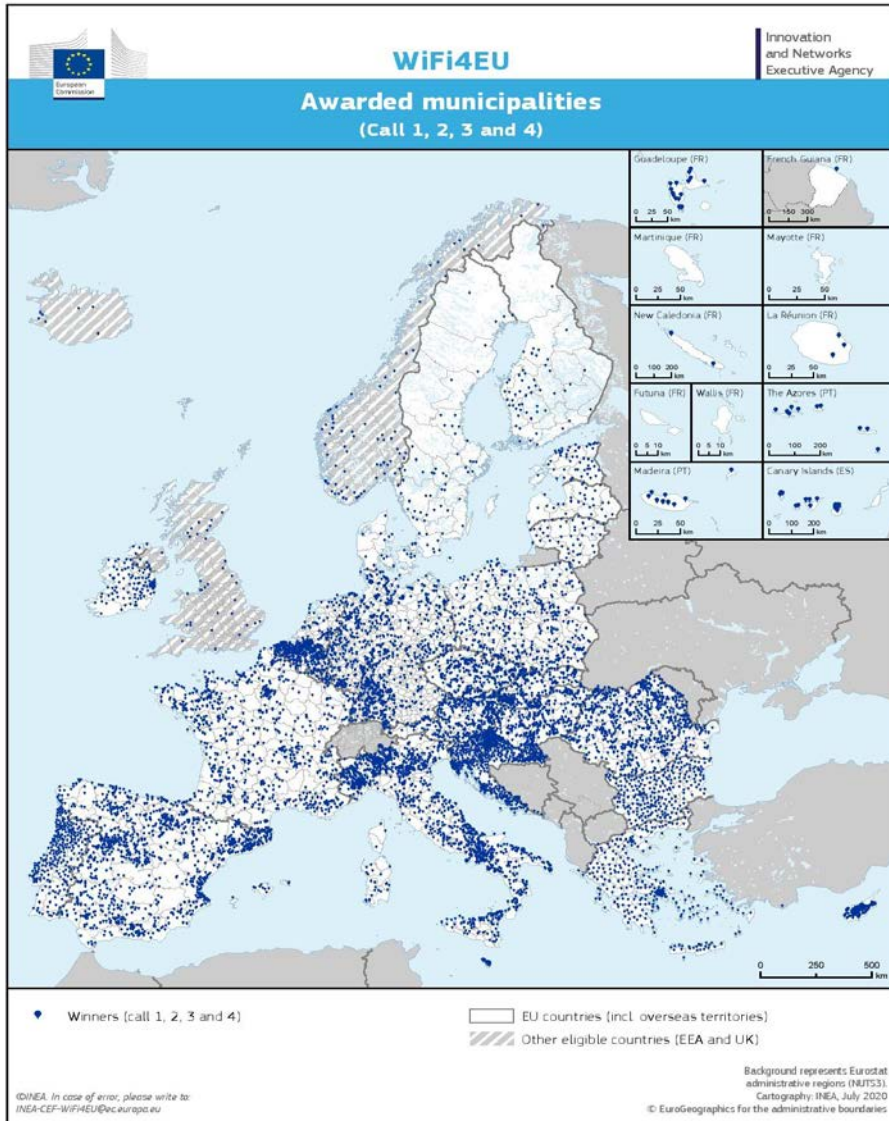
Connectivity objectives

- ❑ 2025: 100 Mbps to all households, upgradable to 1Gbps
- ❑ 2025: 1Gbps to all main socio-economic drivers
- ❑ 2025: Uninterrupted 5G coverage in all urban areas and all major terrestrial transport paths
- ❑ 2030 (Digital Decade): 1Gbps to all households; 5G in all populated areas

Next Generation EU Recovery and Resilience Facility

MS own investments

Private investments



WiFi4EU

- Wi-Fi connectivity in public spaces, including hospitals (37,5%) and schools (18%)
- 8900 local communities awarded
- More than 4500 rollouts completed

Question: How to engage local communities into the 5G (and digital) transition?



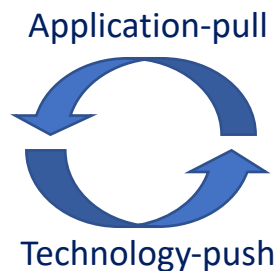
CEF Digital: 5G Communities

Work in progress

Early adoption initiative to boost 5G coverage & take up in Europe

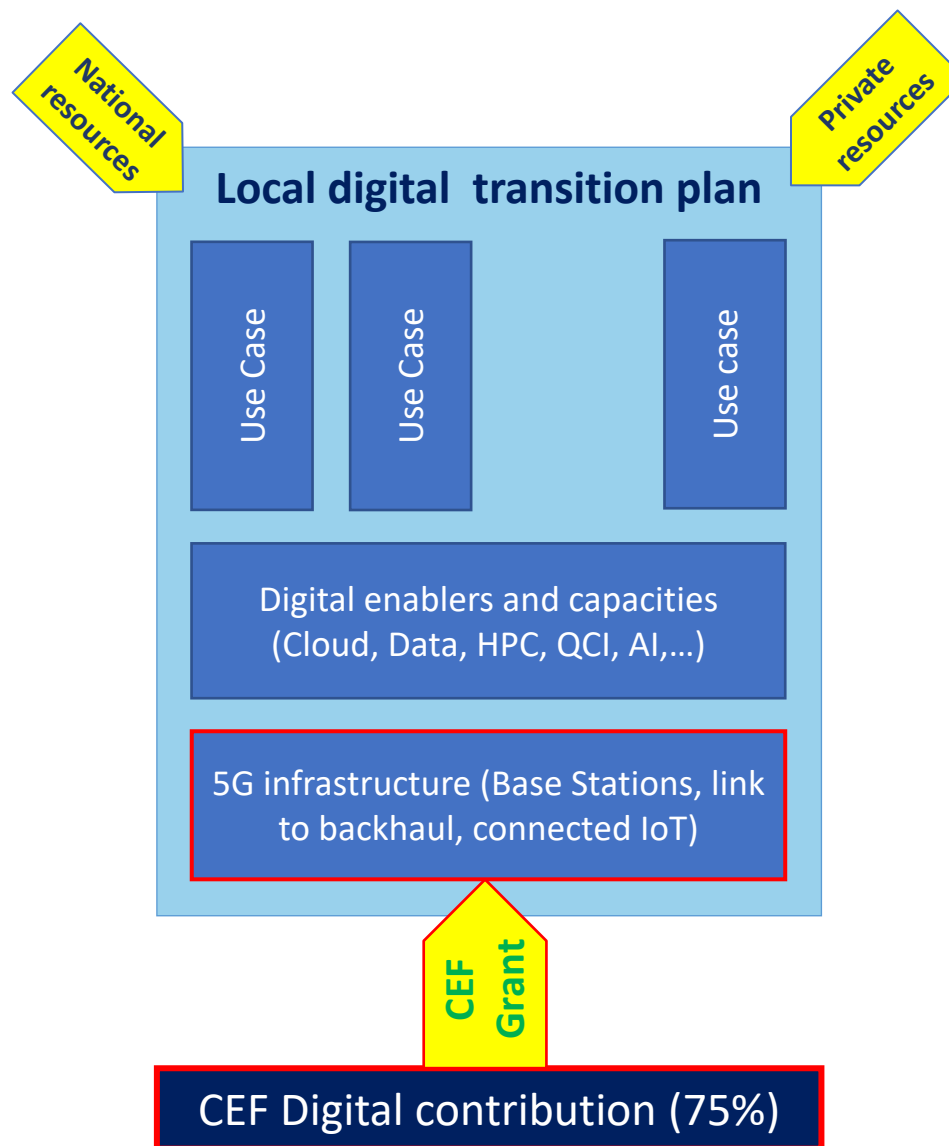
- ❑ Demand-driven: beneficiaries are providers of SGIs
- ❑ Focus on projects that do not involve state aid or aid that can be considered compatible without notification
- ❑ Innovative use-cases for which 5G is “indispensable”
- ❑ Fibre backhaul capacity available
- ❑ Best practice, blueprint for possible replication and/or co-funding under other programmes, including RRF
- ❑ Up to 75% co-funding from CEF (Art. 14 of CEF Reg.)





5G communities – pooling of resources

- 5G use cases to improve a Service of General Interest or develop new SGIs for a local community ...
- Stimulating European digital supply chain and standards
- 5G deployments linked to use cases and enabling digital capacities' interconnection



Work in progress

Examples of CEF use cases:

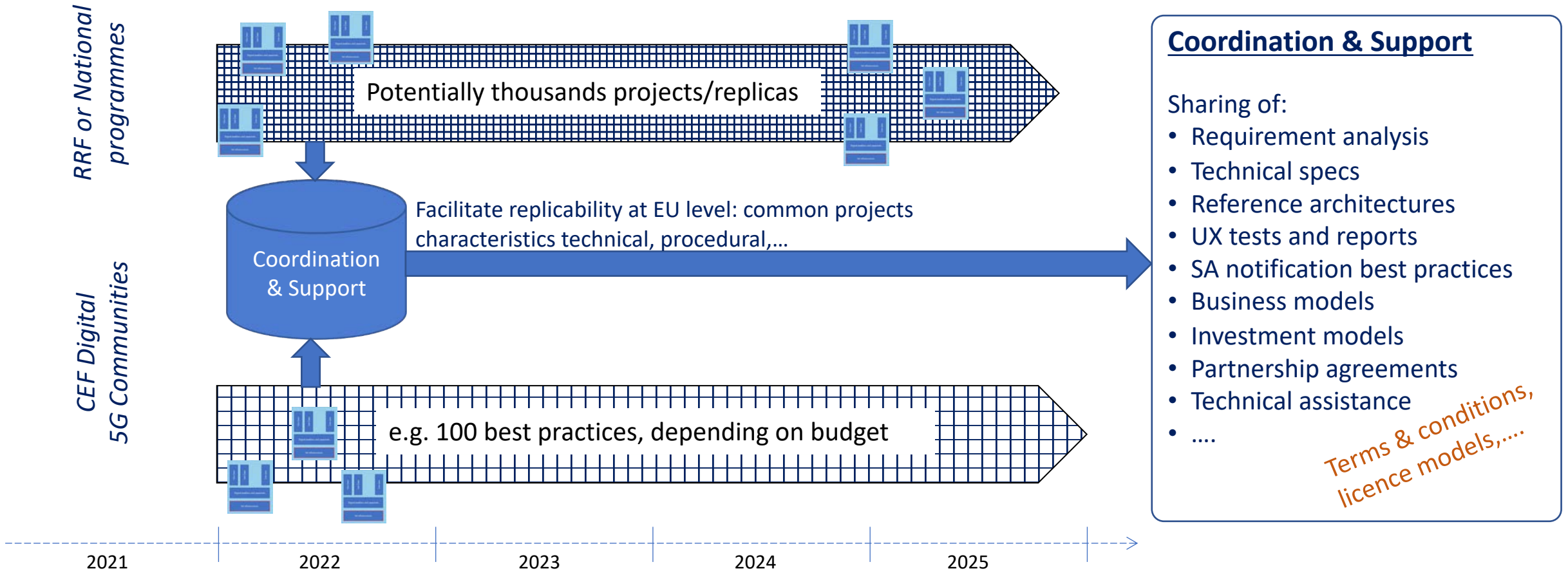
- Healthcare digitisation: patient monitoring and assistance at home/ambulance/hospital...
- Disaster prevention: geo-environmental data, predictive modeling,...
- Immersive virtual education and smart working environments in public administration...

Spreading to other scenarios:

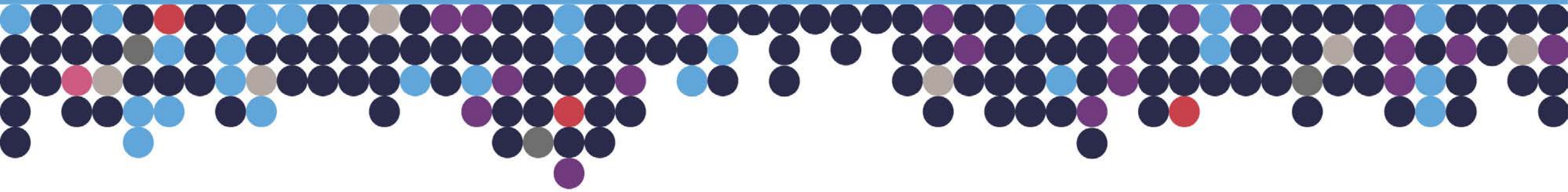
- Smart agriculture and precision farming
- Industry 4.0, manufacturing and logistics

5G communities: synergy between programmes

Work in progress



#CEF2digital



Your Feedback counts!

The CEF2 Digital non-paper is available here: <https://ec.europa.eu/digital-single-market/en/news/connecting-europe-facility-cef2-digital-draft-orientations-towards-implementation-roadmap>

Comments and/or suggestions regarding the indicative funding actions to: EC-CEF2DIGITAL@ec.europa.eu

Proposals of potential infrastructure projects: Please also inform the Broadband Competence Office (BCO) of your Member State: <https://ec.europa.eu/digital-single-market/en/bco-network-directory>

Thank you for your attention!

