Monitoring
the
5G "Path to the Digital Decade"

2030 DIGITAL COMPASS

BEREC workshop on NRA experiences with 5G
23 September 2021

P. Lefebvre, Connect E1

2030 Digital Decade Targets

DIGITAL SKILLS

Adults with basic digital skills
NOW — 56%
TARGET — 80%

Employed ICT specialists
NOW — 8.4 million
TARGET — 20 million

DIGITAL INFRASTRUCTURES

Gigabit network coverage
NOW — 59%
TARGET — 100% of households

5G coverage
NOW — 14%
TARGET — 100% of populated areas

The EU production of semiconductors, including processors, makes up
NOW — 10%
TARGET — ≥20% of world production in value

There are **10,000 edge nodes** in the EU for **better, secure and sustainable data processing.**

By 2025, the first EU computer with **quantum acceleration** is paving the way for cutting-edge quantum capabilities.

DIGITAL TRANSFORMATION OF BUSINESSES

BUSINESSES USING

Cloud computing services
NOW — 26%
TARGET — 75%

Big data
NOW — 14%
TARGET — 75%

Artificial Intelligence
NOW — 25%
TARGET — 75%

SMEs with at least a basic level of digital intensity
NOW — 60%
TARGET — >90%

There are
NOW — 112
TARGET — **Double** the number of unicorn startups in Europe

DIGITALISATION OF PUBLIC SERVICES

Online access to key public services (related to career, studying, family, regular business operations, moving)
NOW — 75/100 citizens   84/100 businesses
TARGET — **All** citizens and business

5G "Path to the Digital Decade"
Proposed collaboration scope re. 5G deploy. monitoring

- **Operationalize vision** of Digital Decade with regard to 5G deployment

- **Follow-up** recommendations 2019 **Cocom Working Group** on Exchange of Best Practices regarding National 5G Deployment Strategies:

  o *Common approach in Europe for measuring the quality of broadband services, including next generation*

  o *Develop more reliable statistical data for the benchmarking and assessment of supporting policies and regulations*

- Provide **tool to Member States** for definition of national **5G "trajectories"**

- Support implementation of the **EU Connectivity Toolbox**

- **Sharing costs** and **know-how**

- Possibly serve as a **platform** to foster new **policy ideas**?

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- Need for appropriate **5G indicators**:

  o Allowing comparison and benchmarking

  o Relevant for policy development (annual only, or also intermediate reporting)

  o Reasonable / i.e. feasible (economic/red tape)

- What do we **monitor** ?

  o Quality of Service levels (link with mapping!)

  o New geographical deployment patterns (transport path, landmass, future 3D ?, etc)

  o "Declared" versus "measured/experienced"?

  o How do we monitor private network deployments ?
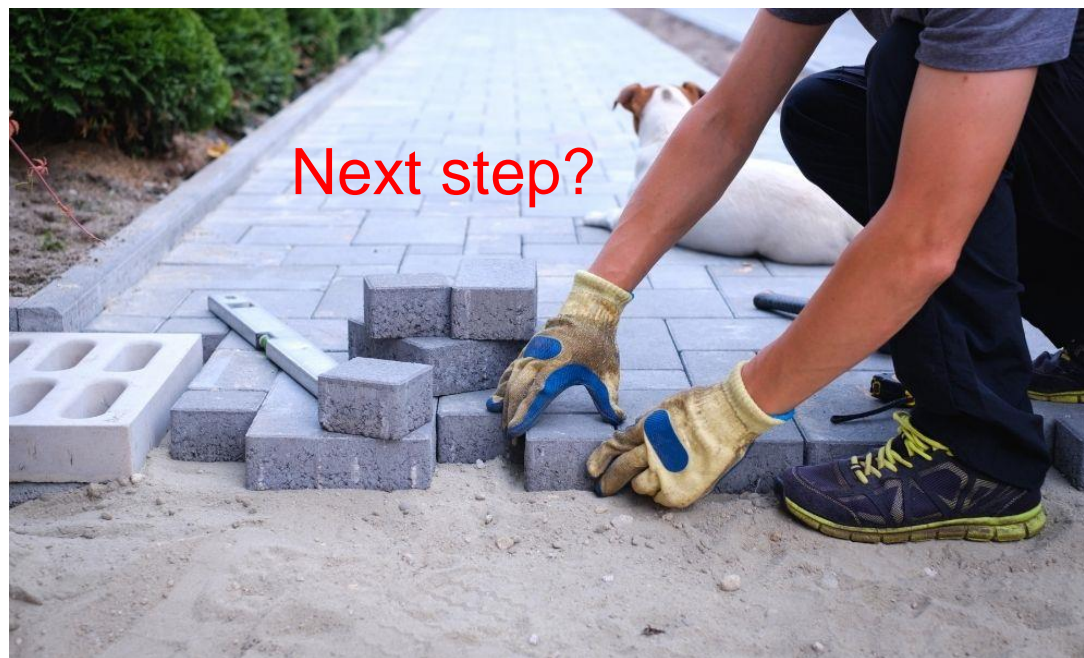
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- How do we organise (and cooperate on the) **data collection channels**:

  - DESI's direct sub-contractors

  - Via national regulators

  - Via third parties

  - Role of the European 5G Observatory

- Pitfalls ?

  - Fragmentation between our respective approaches (national/EU)

  - Lack consensus/standard definition regarding the data

  - Weak data validation (e.g. lack spot checks)

  - Starting too late / better timely than perfect !

  - Important to keep it simple and pragmatic

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Next step?

Contributions / ideas welcomed : Philippe.Lefe**b**vre @ ec.europa.eu