

Chances and challenges of digitalisation in rural areas (CORA project)

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atene KOM GmbH | Agency for Communication, Organisation and Management

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- Management Consultancy and Project Management Company
- Headquarter in Berlin with offices in Brussels, Leipzig, Nuremberg, Hamburg, Wiesbaden
- Business Fields: Organisational Development, Technology and Funding Consultancy, Project Management, Studies, Evaluations
- Core Competencies: Broadband, Renewable Energy, Regional Development
- Public Bodies and Municipal Corporations as Customers
- „Federal Broadband Bureau“ on behalf of the German Federal Ministry of Transport and Digital Infrastructure and administrative body of federal funds for broadband roll-out

Digitalization, EU targets



Broadband

“... to deliver sustainable economic and social benefits from a digital single market based on fast and ultra-fast internet and interoperable applications”

2020



all Europeans should have access to internet speeds higher than 30 Mbps by 2020 (target II)

50 % or more of European households should subscribe to 100 Mbps or more by 2020 (target III)

Broadband

“... The Commission’s strategy on [Connectivity for a European Gigabit Society](#), adopted in September 2016, sets a vision of Europe where availability and take-up of very high capacity networks enable the widespread use of products, services and applications in the [Digital Single Market](#).”

2025



Gigabit connectivity for all main socio-economic drivers

Uninterrupted 5G coverage for all urban areas and major terrestrial transport paths

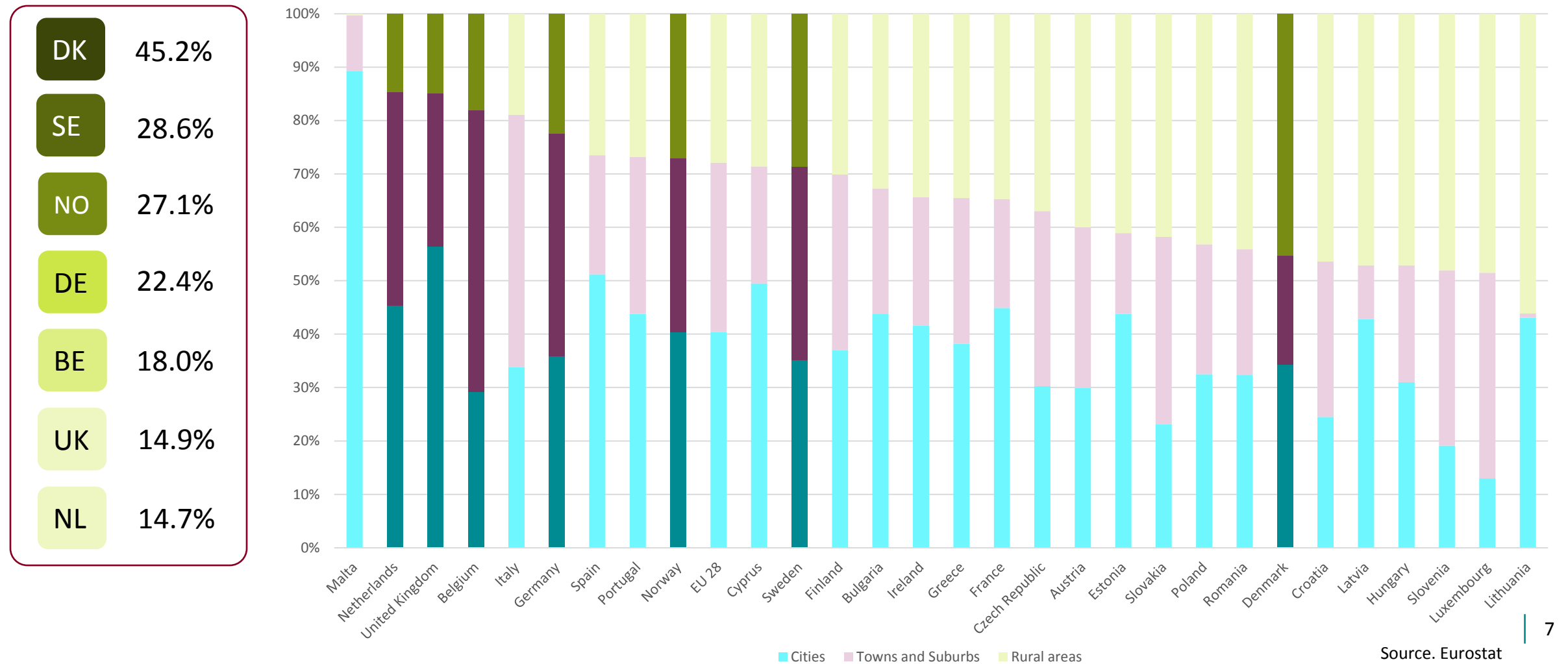
Access to connectivity offering at least **100 Mbps** for all European households

Digital divide and rural areas



Digital divide and rural areas

Distribution of population, by degree of urbanisation, 2015



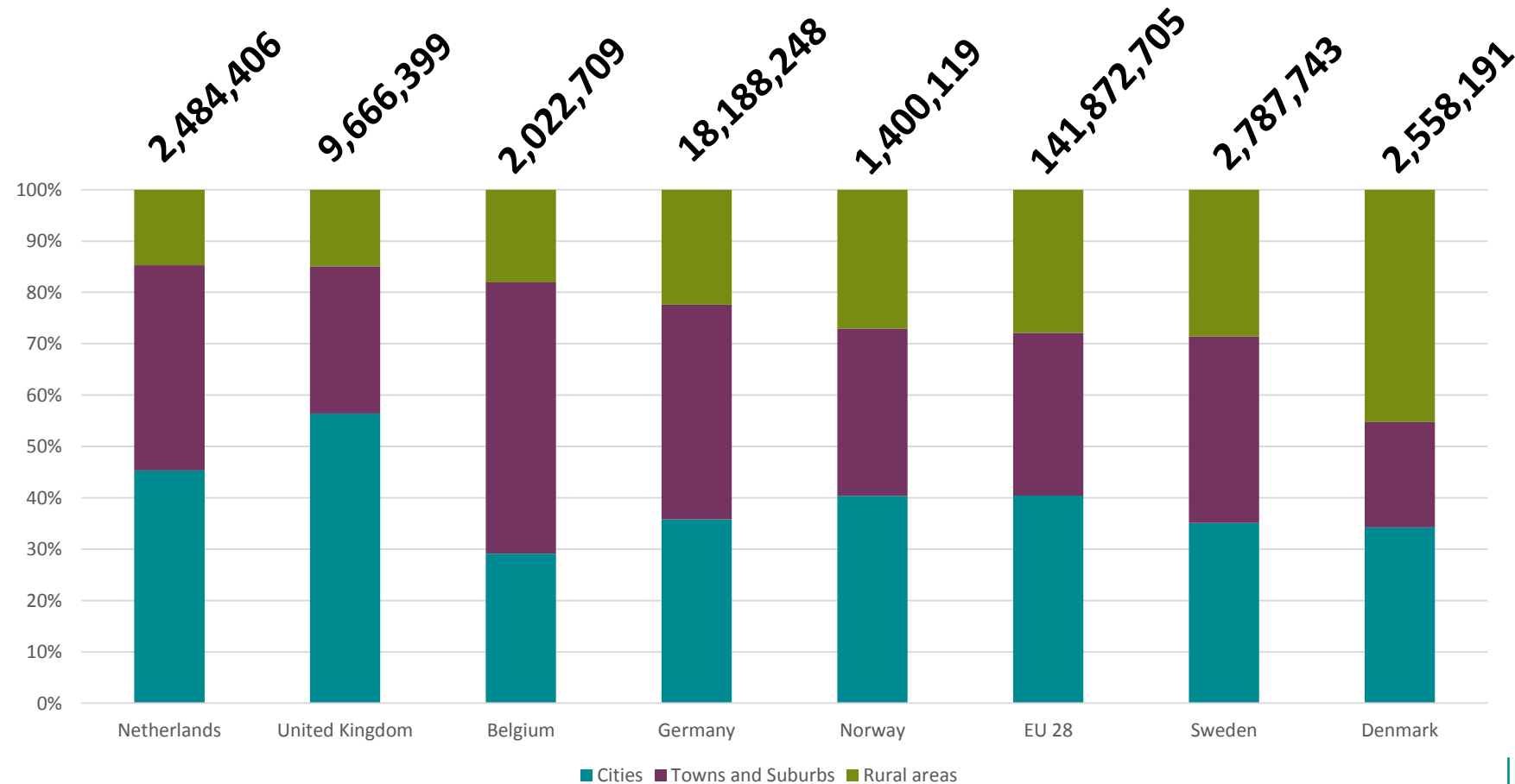
Digital divide and rural areas

Distribution of population, by degree of urbanisation, 2015

NSR → 39,107,818

EU 28 → 141,872,705

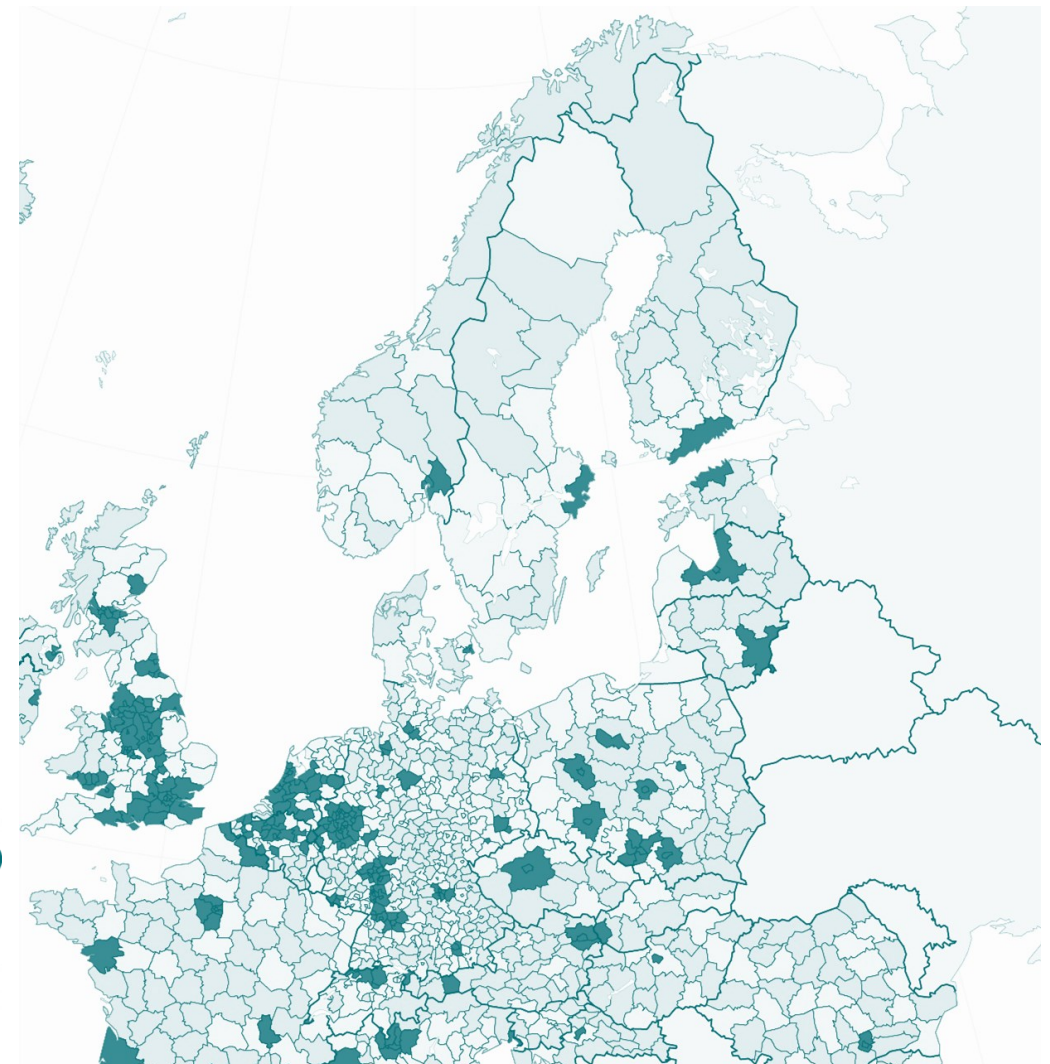
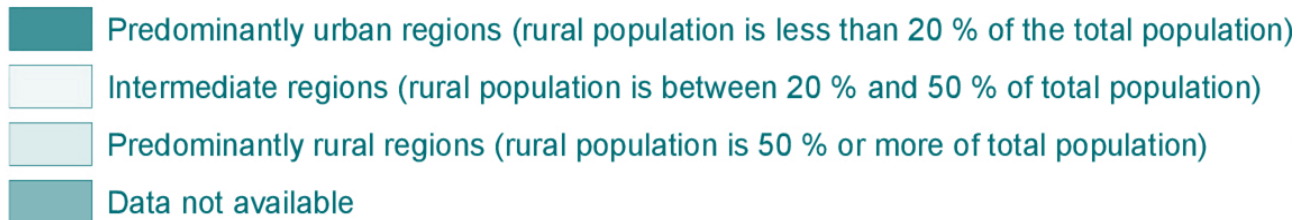
Rural areas matter!!!



Digital divide and rural areas

Settlements structure (urban-intermediate and rural) regions

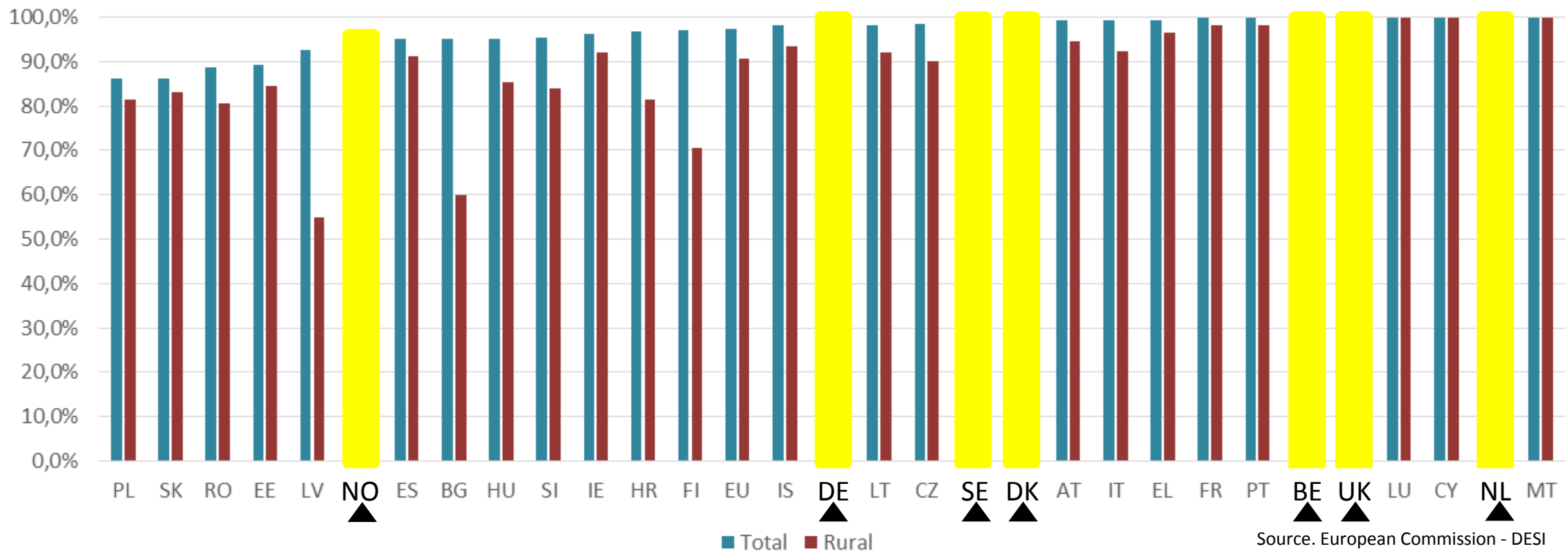
Rural areas matter!!!



Source. Eurostat, JRC, EFGS, REGIO-GIS

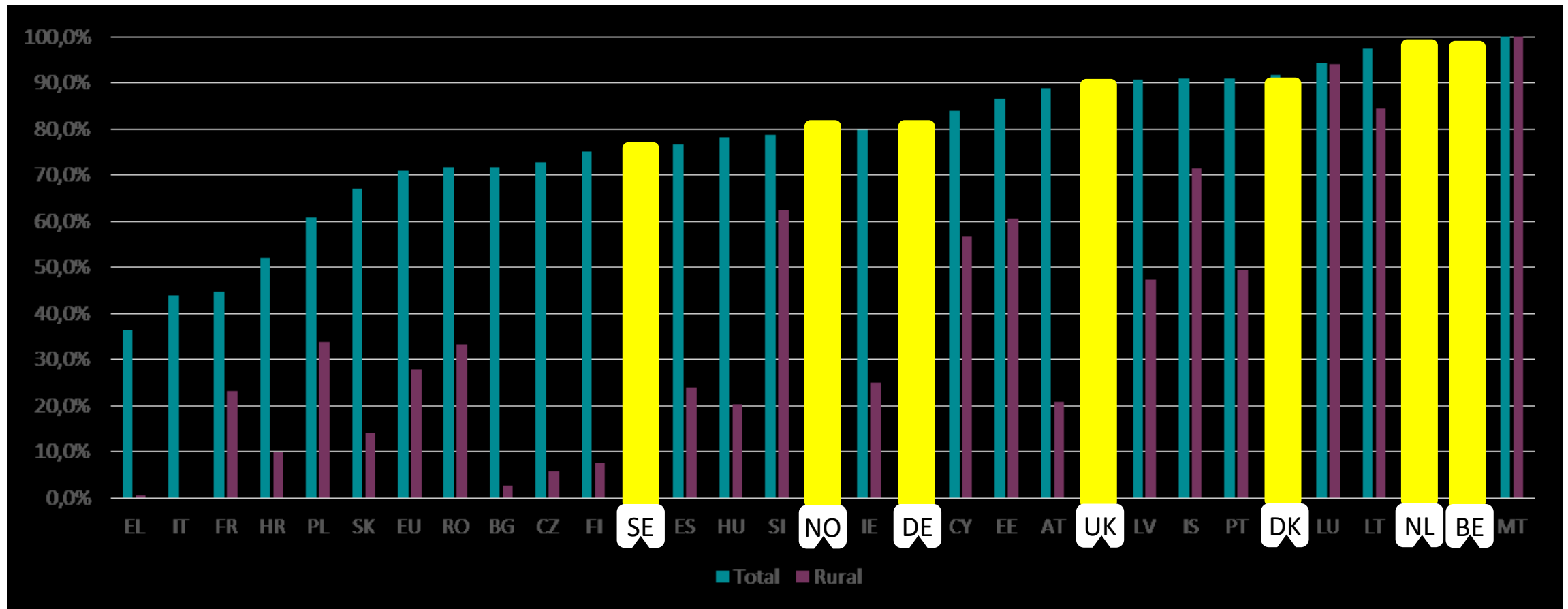
Digital divide and rural areas

Fixed broadband coverage Mid-2015



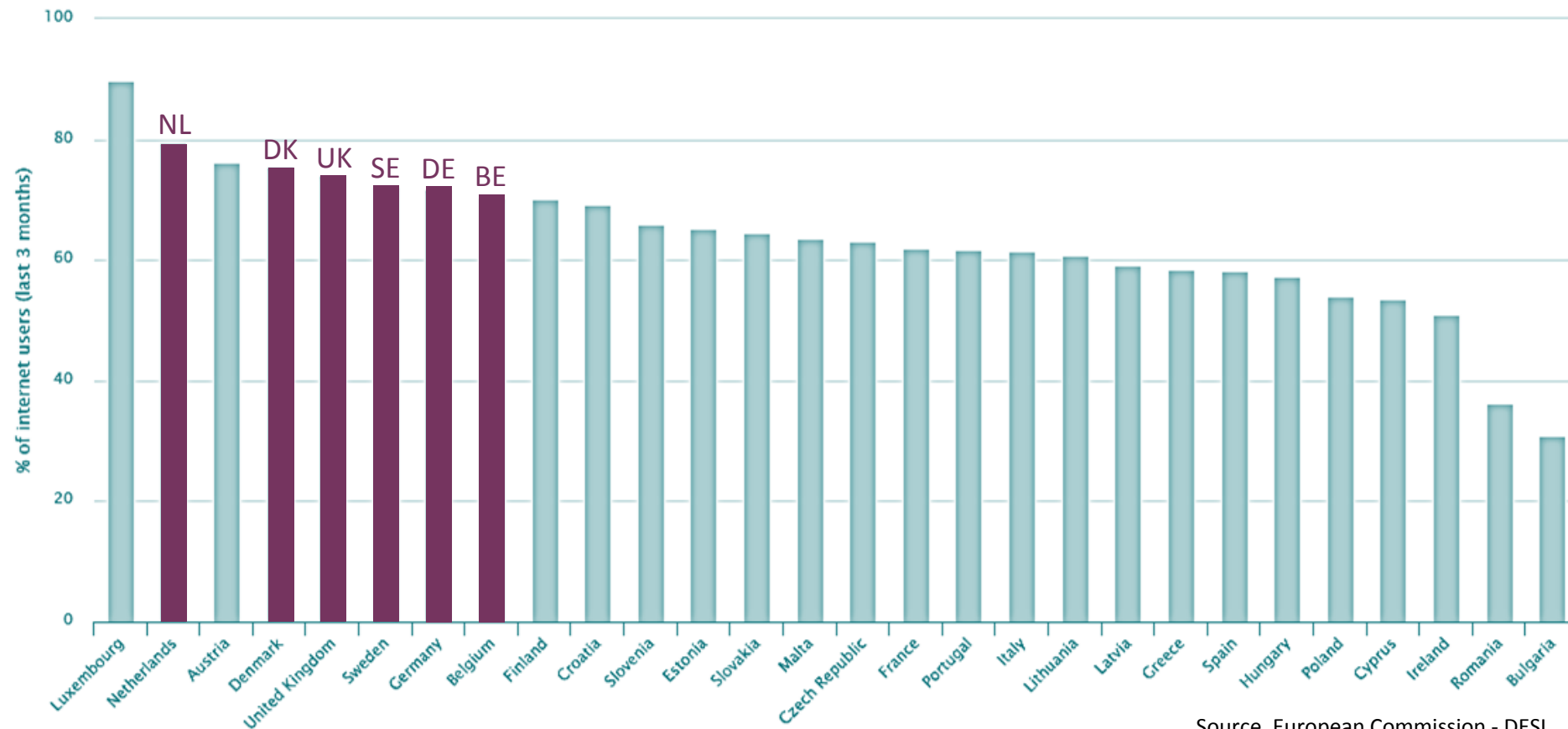
Digital divide and rural areas

NGA coverage in Mid-2015



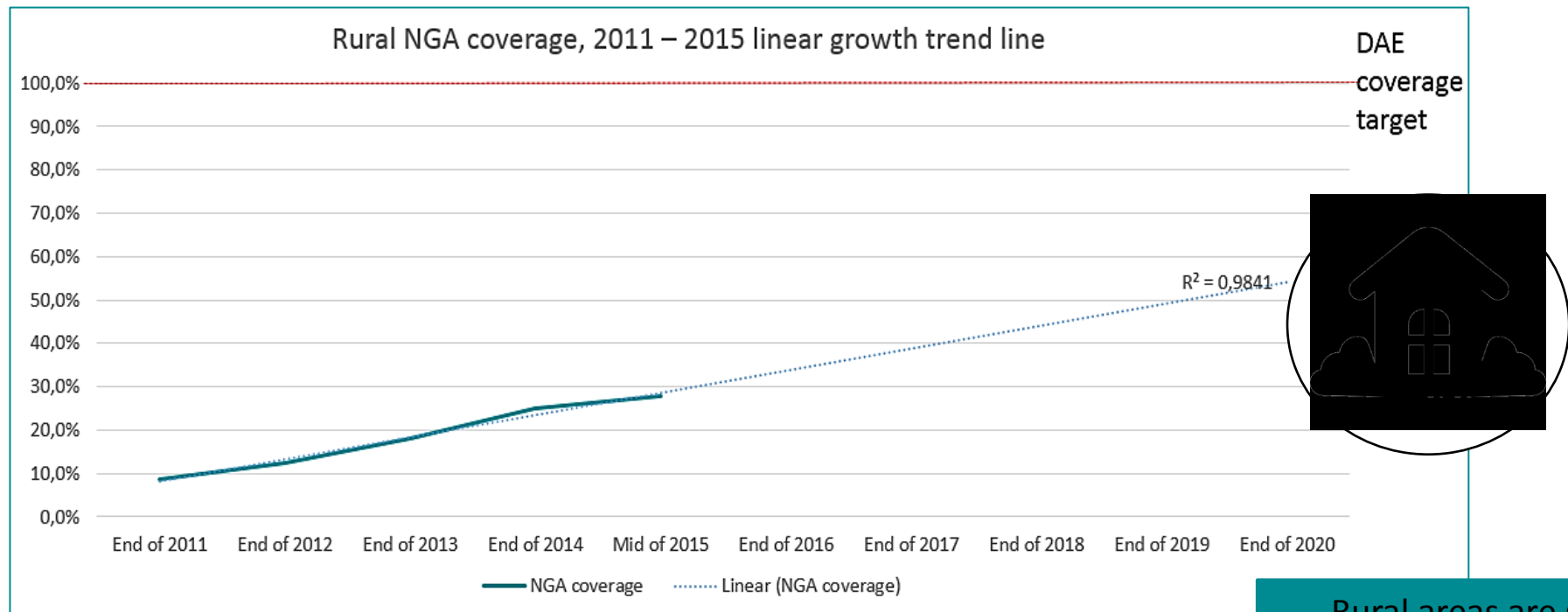
Digital divide and rural areas

Individuals with basic and above basic digital skills (in sparsely populated areas – 2016)



Source. European Commission - DESI

Next Generation Access (NGA): Rural areas



Rural areas are still lagging significantly behind



No chance left..?

CORA – COnnecting Remote Areas with digital infrastructure and services



- **Structural disadvantages of rural areas:**
 - Demographic transformation → people (especially youth) are leaving rural areas
 - Lack of business vision for enterprises
 - Geographical barriers in terms of access to public services

Digitalization & digital innovation as a solution, however!!!

- **Very slow development pace due to market failure in NGA** development in rural areas:
 - high upfront investment in net infrastructure
 - high risks in investments
 - service uptake
- Limited **knowledge about potential profits of NGA** among local actors (i.e. local authorities, businesses, and communities)
- Limited digital skills and competences
- New Gigabit society targets of the European Commission for 2025

Current development pace is too low!



A transnational
solution/initiative???

- Many regions believe that the only challenge is providing the required financial sources!
- Generally speaking → financial issues are essential component, but DO NOT GUARANTEE THE SUCCESS especially in rural areas with several many geographical and socio-economic challenges!

There are many project with adequate financial sources → which have not been successful

There are some local initiatives without direct financial sources → BUT SUCCESSFULLY IMPLEMENTED, with large socio-economic impact!

- Main challenges:



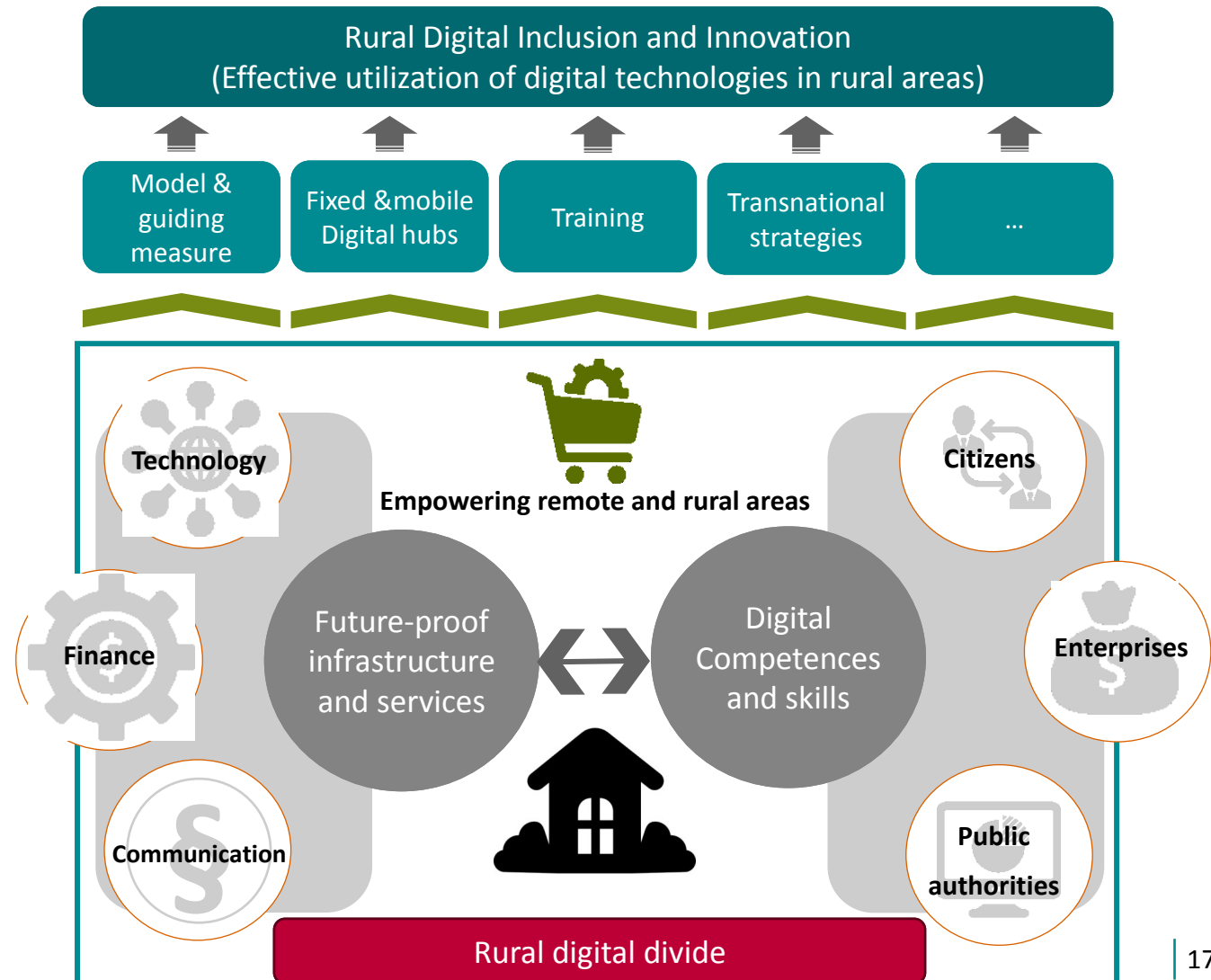
Infrastructural shortages

Lack of digital competences

Lack of know how for improving their condition

Work packages

1. Project management
2. Communication activities
3. Knowledge on digital inclusion
4. Enhancing digital skills and competences
5. CORA test beds
6. Mainstreaming CORA approach, policy briefing and know-how transfer



CORA - Partnership

18 Partners from 7 EU Member states

12 partners form **public** sector

3 partners form **academic** sector

3 partners form **private** sector

Share of Member States

DE

2

NL

3

SE

2

NO

4

BE

1

UK

1

DE

5

Belgium

Intercommunale Leiedal (Lead Partner)

Germany

atene KOM Agency for Communication, Organization and Management (atene KOM Grr
BürgerBreitbandNetz GmbH & Co. K

Sweden

Värmland County Administrative Bo
Torsby kommun

Denmark

Vejle Kommune
Middelfart Kommune
South Djurs Kommune
North Djurs Kommune
Aalborg University

The Netherlands

University of Groningen
Groningen Internet Exchange (GN-I)
Municipality of Oldambt

Norway

Hedmark County Council
Eidskog Kommune
Kongsvinger Kommune
Grue Kommune

United Kingdom

University of Lincoln



CORA – aim and expected results

Aim



- ✓ Bridging digital divide and stimulating digital innovation in rural areas.
- ✓ Enabling local authorities to fill in the digital gaps in terms of advanced infrastructure, digital skills as well as digital public services and empowers them to create an environment to facilitate digital innovation in rural areas.

Results



- ✓ Improved level of digital inclusion and public digital skills (local communities and enterprises) in rural areas.

Main activities in Work Packages

WP1 ■ Project management

WP2 ■ Communication strategy
■ Project conferences, workshops and seminars
■ Presenting CORA in transnational stages
■ CORA online platform
■ EU platforms

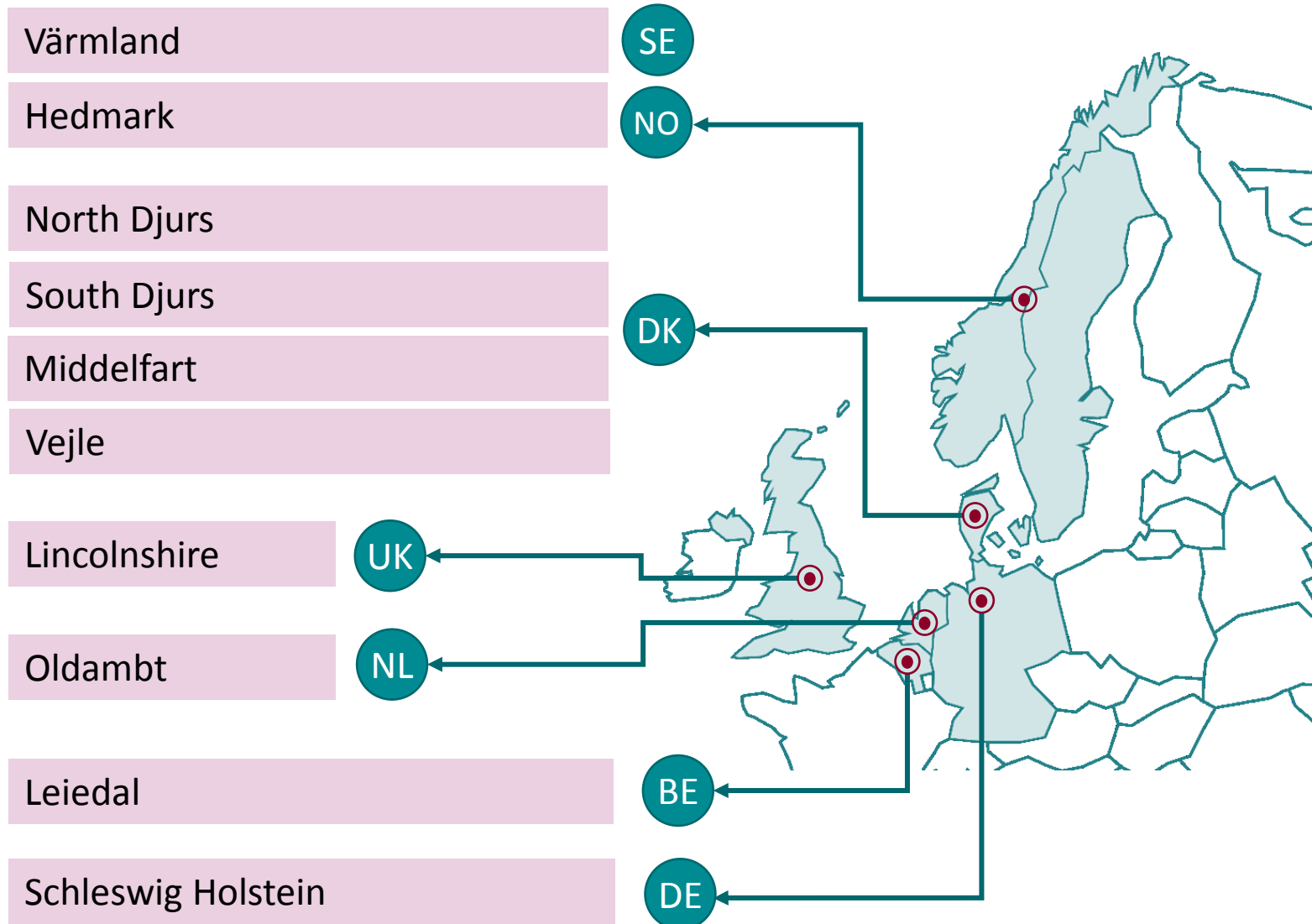
WP3 ■ Framework & methodology around rural digital divide
■ Diagnostic surveys
■ Transnational strategies and guiding measures
■ SSE Model & Digital Hub concept
■ Monitoring tool
■ Training concept

WP4 ■ Framework & methodology around digital skills
■ Diagnostic surveys
■ Transnational strategies and guiding measures (e-services and digital skills)
■ Training concept

WP5 ■ 10 pilot activities in 10 regions.

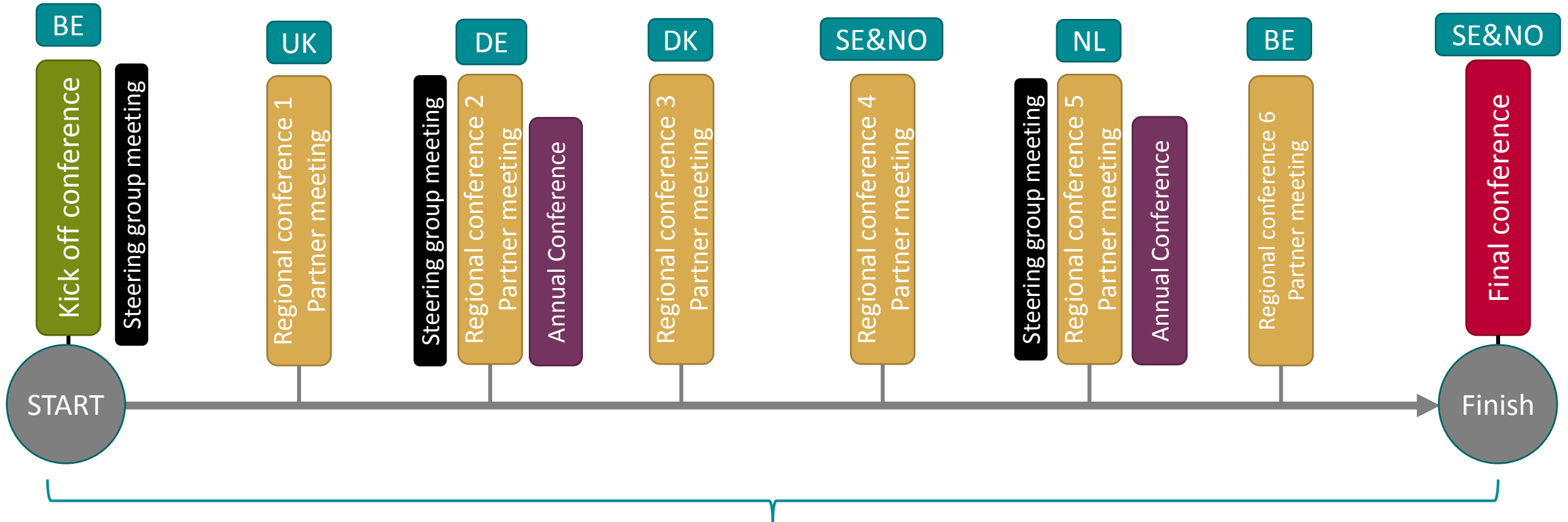
WP6 ■ CORA Policy Briefings together with communication and consultation with different levels of authorities (local, regional, national and EU)
■ Know-how transfer and mainstreaming CORA policy briefings, strategies and approach

CORA – Pilot demonstrations



- ✓ Cross-border fibre sharing model
- ✓ Superfast wireless internet for rural communities and enterprises
- ✓ Enhancing the take-up
- ✓ CORA training in rural areas
- ✓ Testing CORA fixed digital hub concept
- ✓ Testing CORA mobile digital hub concept
- ✓ New digital public services for rural communities and businesses

CORA – events



Synergies with the Europe wide events!!!

Transnationality – “learning & exchanging”!!!



Why a transnational cooperation needed?

- Existence of common challenges!
- Different approaches/solutions are being applied with different qualities!

Lack of an exchange
platform/community to share
knowledge and experience

Digital Infrastructure

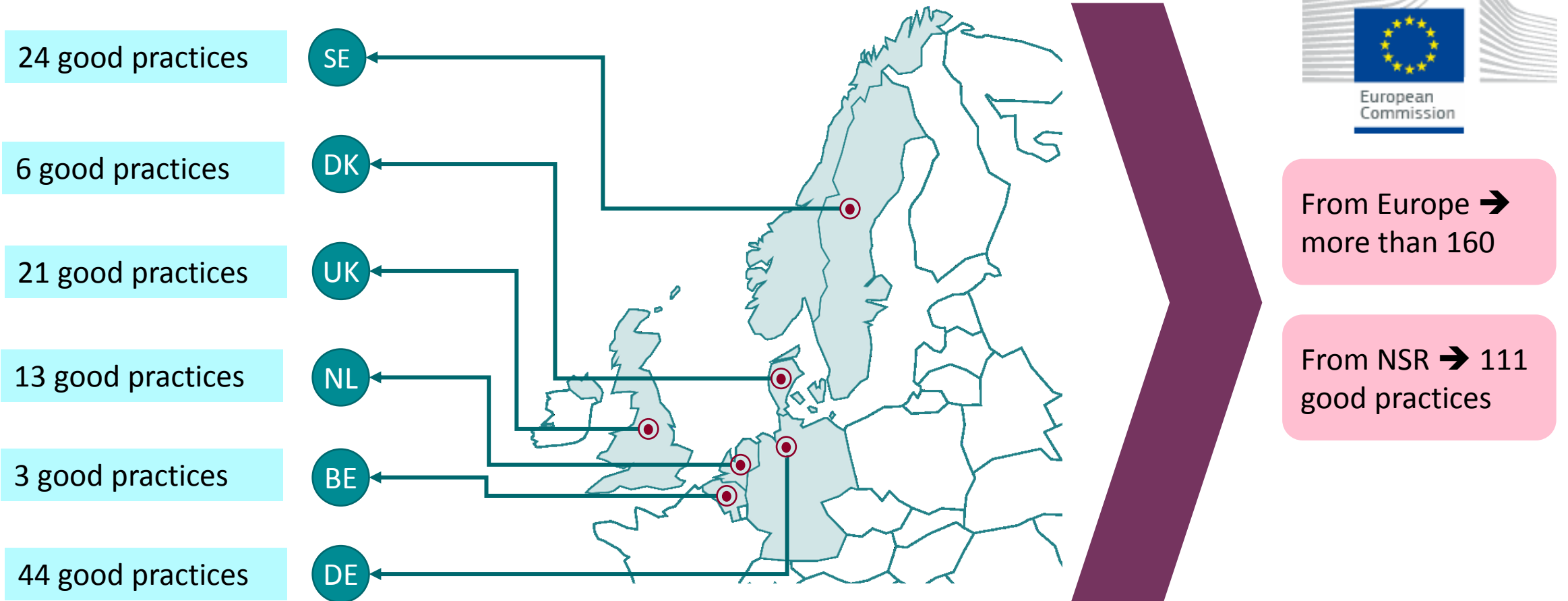
Digital skills

Digital enterprises

Digital public services

CORA - Transnationality

Good practices!!!



Project example: Glasvezel De Wolden, Netherlands

The bottom-up community driven initiative resulted in a super-fast fibre optic network connecting every home and company in the municipality

- 10.000 homes, 227 square kilometres
- for-the-people-by-the-people style initiative
- built own super-fast fibre optic network
- combination of market financing and governmental financing: EUR 16 million
- private companies, energy companies, municipalities & citizens worked together
- follow up investments in the upper layer (services)



A man with curly hair, wearing a purple sweater over a light-colored collared shirt, is seated in a room with wooden bookshelves in the background. He is looking slightly to his left with a thoughtful expression. A white text box is overlaid on the bottom left of the frame.

How did you make this grassroots initiative viable?

Project example: the Ludgate Hub, Skibbereen, Ireland

- Community bottom up initiative
- 1 GB town in Skibbereen
- Hub located in 10.000 square foot building
- Connection at the Hub used by over 100 businesses & individuals, and over 8 community groups
- Rollout to 1.800 premises in the town
- Positive impact on the economic competitiveness of the region



CORA - Transnationality

Exchanging successful
experiences!!!



Any Other Questions?

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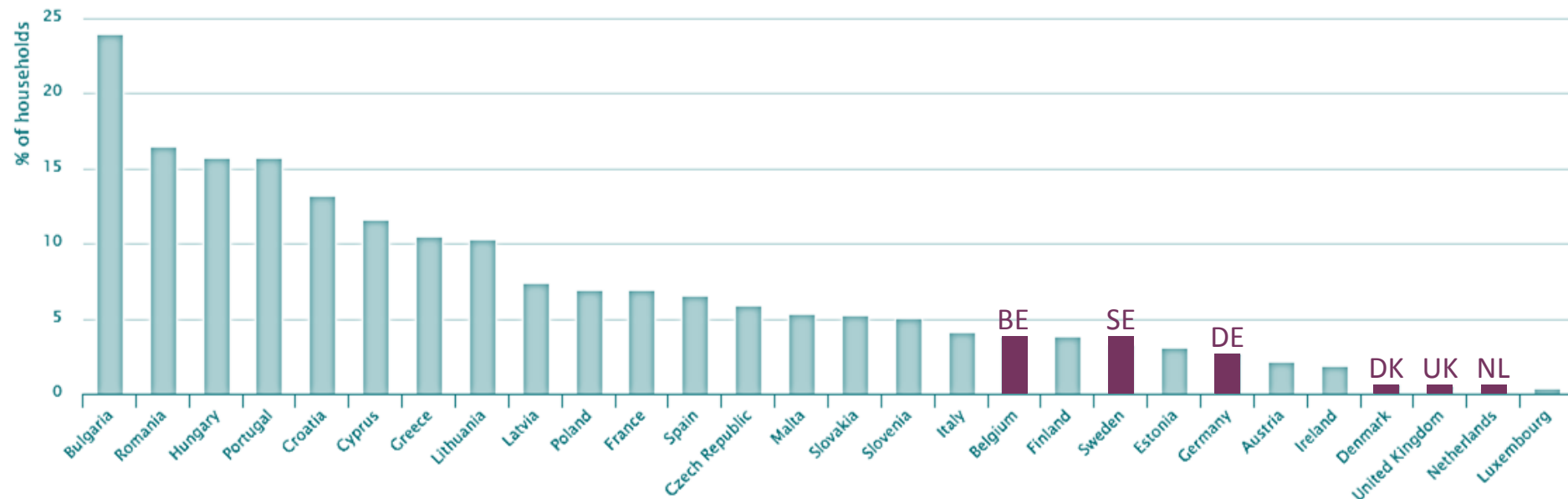
P.khodabakhsh@atenekom.eu

Additional slides



Digital divide and rural areas

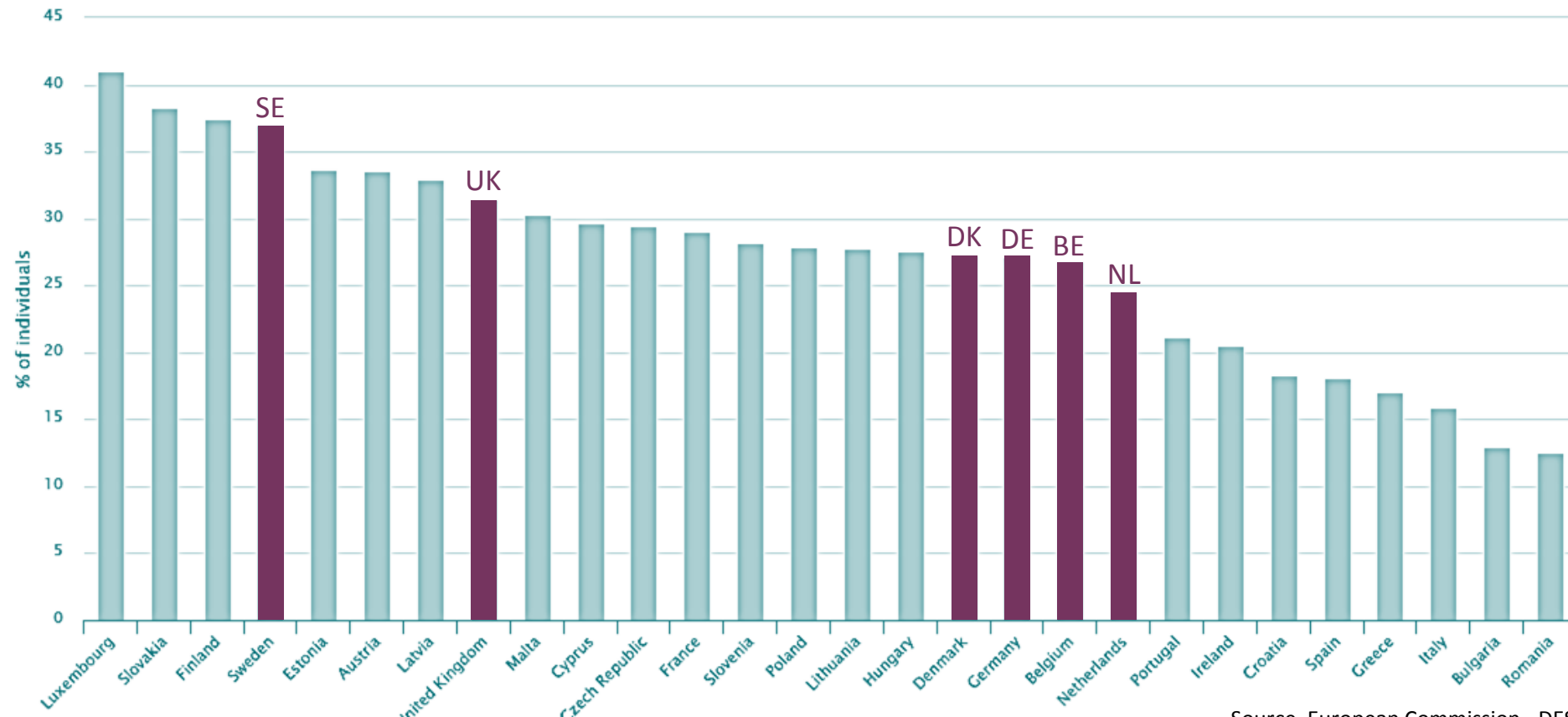
Households with no access to internet at home because the costs are too high (in sparsely populated areas – 2016)



Source. European Commission - DESI

Digital divide and rural areas

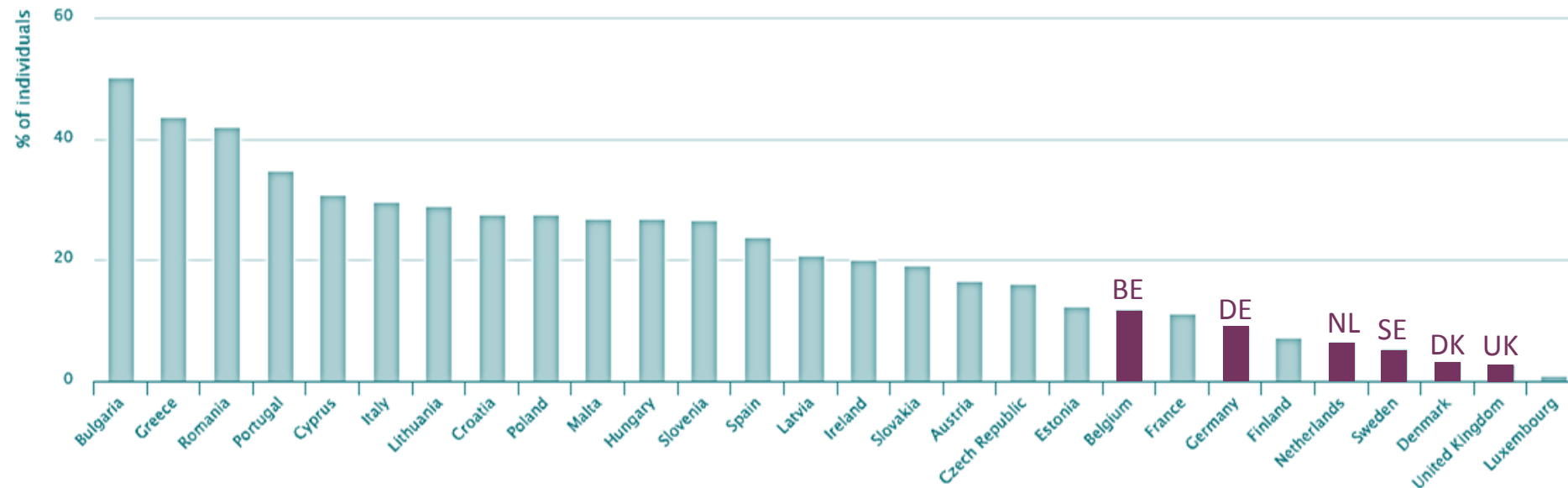
ICT skills obtained through formal educational institutions (in sparsely populated areas – 2011)



Source. European Commission - DESI

Digital divide and rural areas

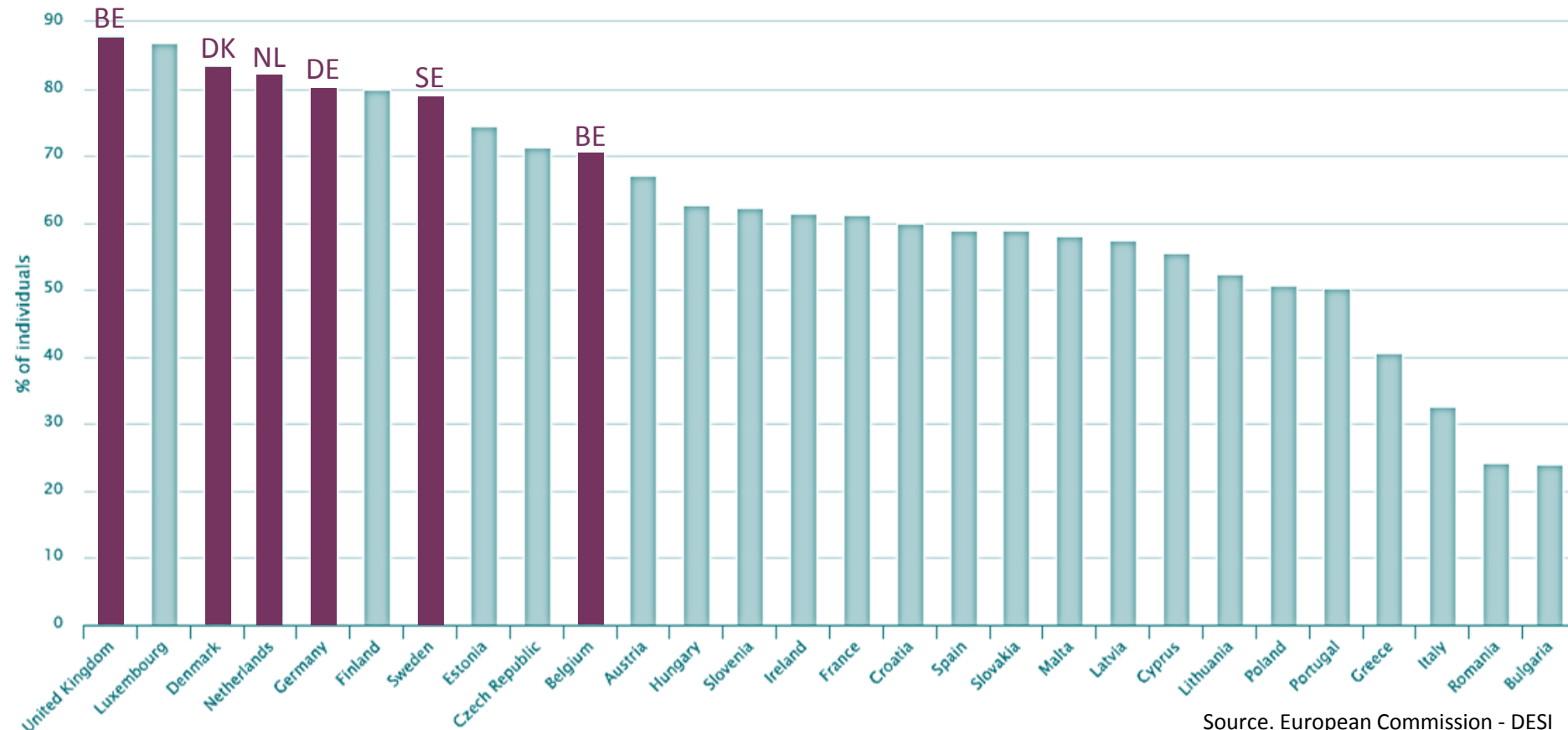
Individuals who have never used the internet (in sparsely populated areas – 2016)



Source. European Commission - DESI

Digital divide and rural areas

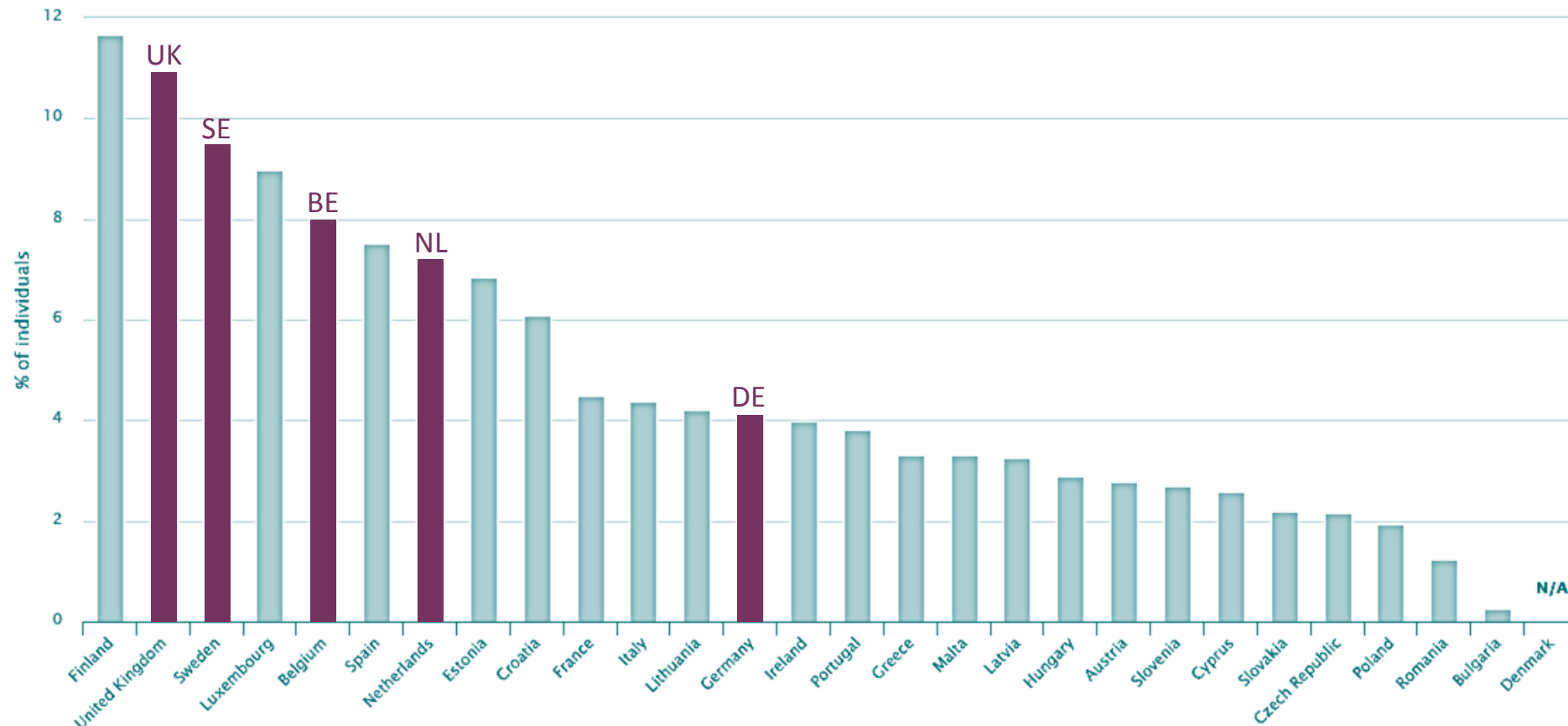
looking for information about goods and services online (in sparsely populated areas – 2016)



Source. European Commission - DESI

Digital divide and rural areas

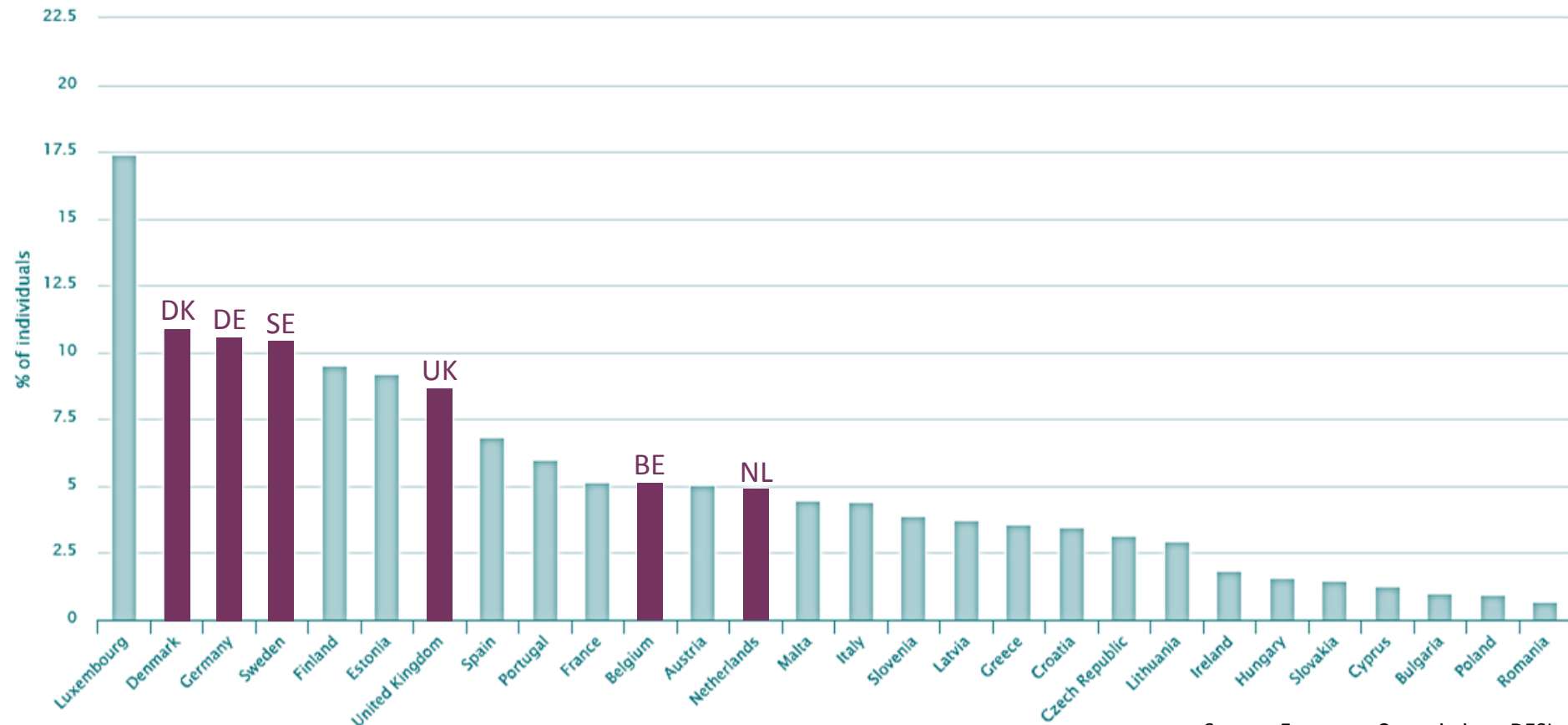
Doing an online course (in any subject, in sparsely populated areas – 2016)



Source. European Commission - DESI

Digital divide and rural areas

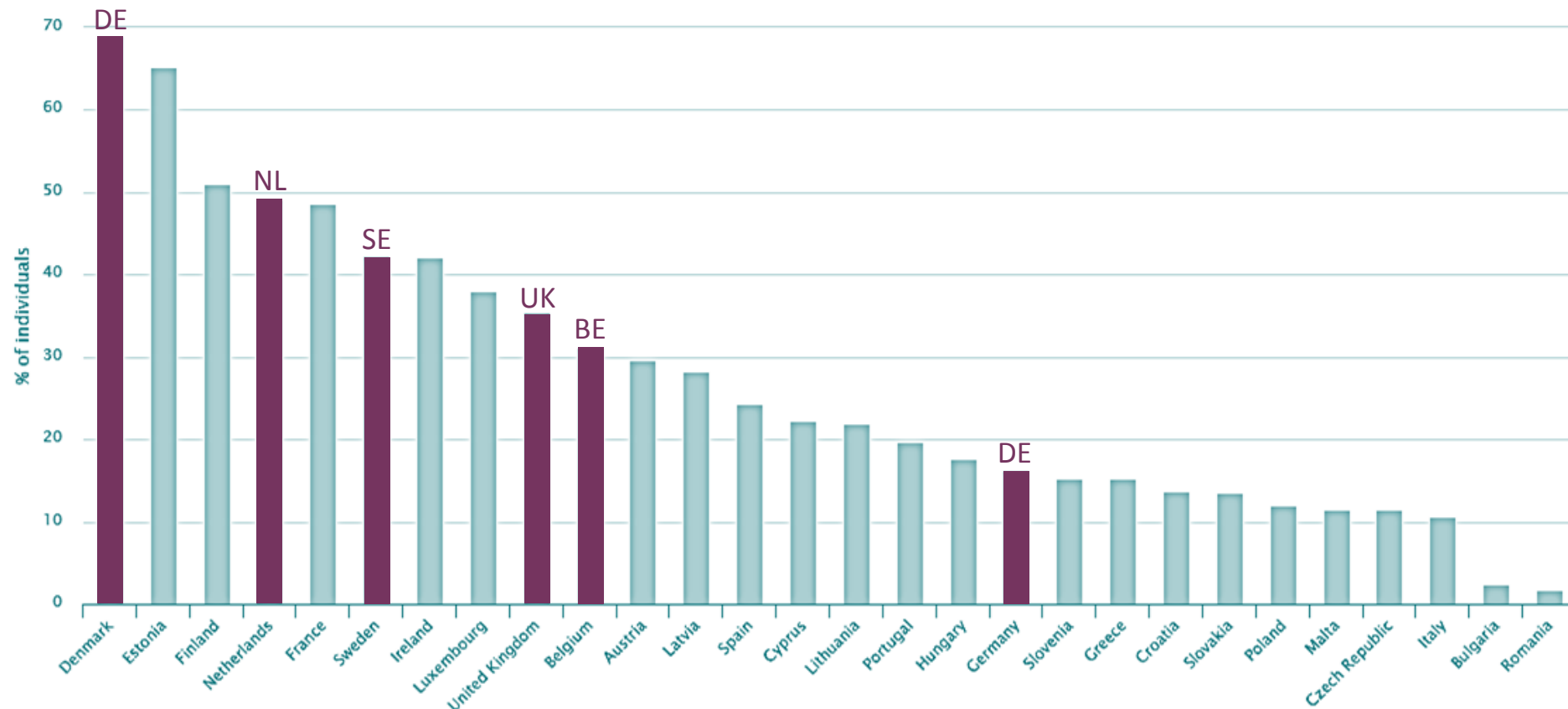
Taking part in on-line consultations or voting to define civic or political issues
(in sparsely populated areas – 2015)



Source. European Commission - DESI

Digital divide and rural areas

Individuals submitting completed forms to public authorities, over the internet, last 12 months (in sparsely populated areas – 2016)



Source. European Commission - DESI