

DEFINING ADEQUATE BROADBAND INTERNET ACCESS SERVICE

- Romanian approach -

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Fixed access coverage

| | Romania 2024 | | Romania 2023 | | Romania 2022 | | Romania 2021 | |
|------------------------------------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|
| Technology | Total | Rural | Total | Rural | Total | Rural | Total | Rural |
| DSL | 28.5% | 23.8% | 37.5% | 36.1% | 53.1% | 54.4% | 55.1% | 56.7% |
| VDSL | 4.5% | 0.5% | 5.5% | 0.8% | 9.1% | 2.3% | 9.1% | 2.3% |
| VDSL2 Vectoring | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| FTTP | 95.7% | 93.5% | 95.0% | 92.5% | 95.6% | 90.1% | 87.1% | 75.7% |
| Cable modem DOCSIS 3.0 | 32.8% | 14.3% | 32.9% | 14.3% | 40.2% | 17.8% | 43.7% | 24.5% |
| Cable modem DOCSIS 3.1 | 8.5% | 7.7% | 8.5% | 7.7% | 0% | 0% | 0% | 0% |
| FWA | 53.0% | 18.7% | 52.6% | 18.2% | 58.0% | 25.3% | 58.0% | 25.3% |
| 5G | 46.8% | 14.5% | 32.8% | 6.3% | 26.8% | 2.9% | 24.9% | 2.0% |
| 5G in the 3.4–3.8 GHz band | 32.8% | 3.3% | 28.9% | 2.6% | 25.7% | 2.2% | - | - |
| Satellite | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| Overall fixed broadband | 98.0% | 95.4% | 97.8% | 95.2% | 97.8% | 95.1% | 94.1% | 89.0% |
| Overall NGA broadband | 96.6% | 94.2% | 95.9% | 93.2% | 97.2% | 93.7% | 93.3% | 84.7% |
| Fixed VHCN (FTTP & DOCSIS 3.1) | 95.9% | 93.6% | 95.0% | 92.5% | 95.6% | 90.1% | 87.1% | 75.7% |
| VHCN (as defined by BEREC) | 95.9% | 93.7% | 95.7% | 92.9% | - | - | - | - |
| At least 30Mbps | 96.6% | - | 95.8% | - | 96.1% | - | 93.7% | - |
| At least 100Mbps | 96.4% | - | 95.7% | - | 94.5% | - | 88.6% | - |
| At least 1Gbps | 95.9% | - | 95.0% | - | 91.8% | - | 85.2% | - |
| At least 1Gbps upload and download | 0% | - | 0% | - | 0% | - | 0% | - |

Source: Broadband Coverage in Europe 2023 & 2024 reports

Adequate broadband internet access service at a fixed location

- Order of the Minister of Research, Innovation and Digitalization for establishing **the characteristics of the functional broadband internet access service** for individuals, via a fixed-point connection in **2022**
- Taken into consideration:
 - the connections speeds available to majority of end users in Romania
 - technological neutrality
 - Annex V of the EECC
 - EU Digital Decade targets (100 Mbps networks reaching all European households)
- Maximum download speed for broadband access at a fixed location → **100 Mbps**
- Maximum speed as defined in OIR (Regulation EU 2015/2120)
 - *“The maximum speed is the speed that an end user could expect to receive at least some of the time (e.g. at least once a day). An ISP is not required to technically limit the speed to the maximum speed defined in the contract.”*

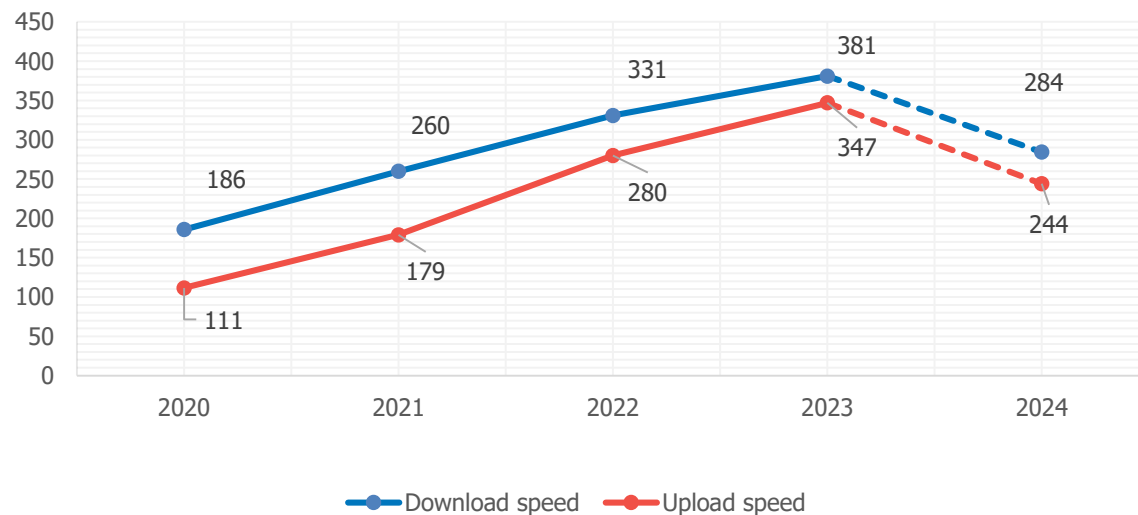
(para 145 – BEREC Guidelines on the Implementation of OIR BoR (22)81)

Universal service obligations

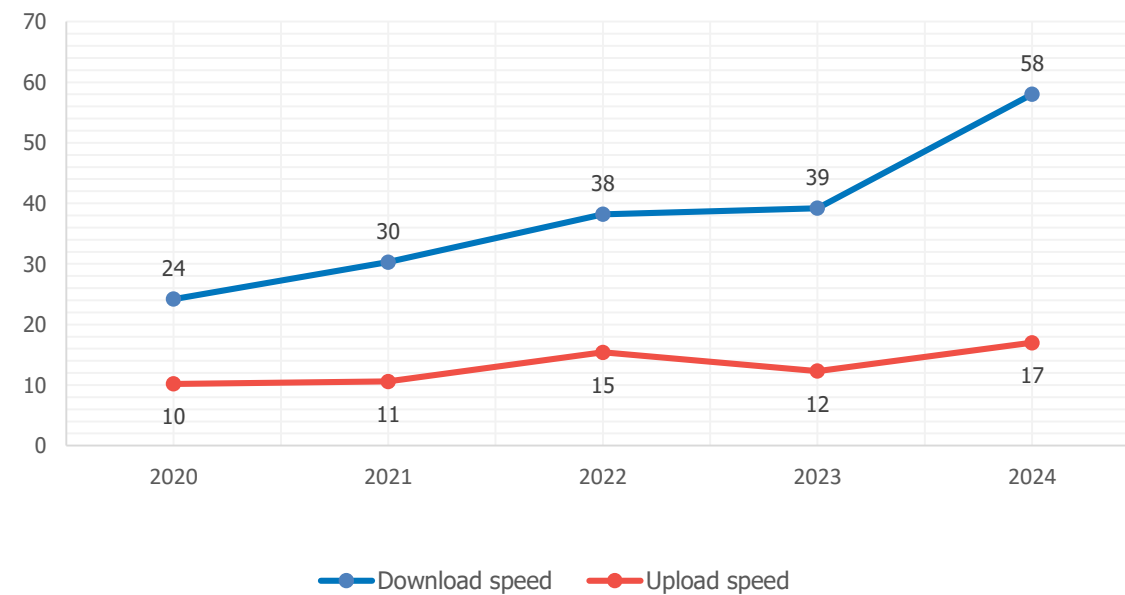
- Order of the Minister of Research, Innovation and Digitalization on **the actions to be taken for implementing the universal service in 2023**
- ANCOM assessed the affordability of broadband internet access
- ANCOM defined the reasonable criteria for ensuring access to a functional broadband internet service for consumers
- **NO** Universal Service Provider designated yet
- **NO** designation foreseen in the near future
- broadband deployment projects on-going via structural funds and National Recovery and Resilience Plan
- USO → only as a **last resort**

Speeds evolution

Evolution of the average download and upload speed (Mbps) at national level during 2020-2024 for the fixed internet access services



Evolution of the average download and upload speed (Mbps) at national level during 2020-2024 for the mobile internet access services



Actual speed tests made via Romanian national monitoring tool – www.netograf.ro

Thank you for your attention!

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