EU Connectivity goals (2025)

1,60

Main socio-economic drivers

Schools, universities, research centres, transport hubs, hospitals, PA, digital tech enterprises, etc.

- Download: > 1 Gbps
- Upload: > 1 Gbps
 - ∼fixed VHC speeds

Availability: 100%

Urban areas & major corridors

Roads and railroads

Uninterrupted 5G coverage

Households

Rural and urban

Download: > 100 Mbps:

~mobile VHC speeds

Availability: 100%

Subscription rate: 50%

Download: >1 Gbps

Upload: >1 Gbps

~fixed VHC speeds

Upgradability: 100%

2030 Digital Compass

Adnes.. All European households to be covered by a Gigabit network (59% in 2020), with all populated areas covered by 5G (14% in

2021).

| | | Current comn | nercial technology | Fundamen | nta properties of last-mile physical medium | | |
|----|--|---------------------------|----------------------------|---------------|---|------------------------------------|--|
| | | Top commercial technology | Top data rate (down/up) | Shared medium | Available bandw dth | Indicative transmission reach | |
| | 1. FTTH p2p | 10GbE | 10/10 Gbps | No | 50 000 GHz | 80 km | |
| | 2. FTTH p2mp (PON) | XGPON | up to 10/2.5 Gbps | Yes | 50 000 GHz | 20 – 45 km (32 – 8 users) | |
| | 3. Twisted pair with fibre in the backhaul | ADSL2+ | 24/3 Mbps | No | 0.05 GHz | 0.5 – 2 km (high – low speed) | |
| | 4. Twisted pair with FTTC | VDSL2 + vectoring | up to 90/40 Mbps | No | 0.05 GHz | 0.2 – 0.5 km (high – low speed) | |
| | 5. Twisted pair with FTTdb | G.fast | up to 500/500 Mbps | No | 0.05 GHz | <200m (high – low speed) | |
| | 6. Coaxial cable with FTTC | DOCSIS 2 | up to 40/30 Mbps | Yes | 1 GHz | 0.5 – 3.0 km (high – low speed) | |
| | 7. Coaxial cable with FTTdb | DOCSIS 3.1 | up to 10/2 Gbps | Yes | 1 GHz | <100m | |
| | wireless | | | | | | |
| | 10. FWA at mm-waves | 5G | up to 10/5 Gbps | Yes | 1 GHz | Less than 1 km | |
| | 9. FWA at mid-low waves 8. FWA with unlicenced | 3G, LIE/4G | 100 lylbps | ies | 0.05 GHz | Few km | |
| | spectrum | Wi-Fi 5 | up to 7/1.3 Gbps | Yes | 0.5 GHz | Less than 1km | |
| | 11. Satellite | Ka-band systems | up to 20/8 Mbps | Yes | 10 GHz | | |
| 21 | | | | | | | |

Čo na tieto ciele hovoria najväčšie krajiny EU?

Figure 3.5: National broadband plans in the six largest European countries [Source: Analysys Mason, 2020]

| Country | FTTP deployment target | Spend | | |
|---------|---|--|-----------------------------------|--|
| France | By 2022, essentially all parts of the country will have access to FTTP with speeds of at least 30Mbit/s, and >100Mbit/s in most areas. ⁹ | Public and private investments amounting to EUR20 billion. 10 | 2 kvízov okraj: | |
| Germany | Develop a gigabit network, with a preference for FTTP. | A public financing requirement of EUR10 to 12 billion. 11 | 1. Koľ inv | |
| Italy | By 2020, develop an NGA network able to provide speeds up to 100Mbit/s to at least 85% of households, with a preference for FTTP in urban areas. 12 | A state-aid budget of EUR4 billion has been made available. | doto Slov cieľ EU . | |
| Poland | By 2020, all households will have access to speeds of at least 30Mbit/s, with 50% coverage with speeds of 100Mbit/s. 13 | The government has dedicated around EUR1 billion to broadband upgrades. 14 | 2. Poro koľk obn | |
| Spain | The policy (PEBA300×100 ¹⁵) aims to achieve 95% fibre coverage by 2021. | Allocated EUR525 million for the period 2018–2021.16 | pôjo digi [.] koľk | |
| UK | Deploy gigabit-capable broadband to the most remote 20% of locations by 2025 according to an "outside-in" approach. | Allocated GBP5 billion (EUR6 billion). ¹⁶ | obn (ale | |

- 2 kvízové otázky na okraj:
- Koľko mil. €
 investovalo
 doteraz
 Slovensko do
 cieľov Gigabit
 EU ... ?
- 2. Porovnajte
 koľko % z Plánu
 obnovy SR
 pôjde do
 digitalizácie ... a
 koľko z Plánu
 obnovy DE
 (alebo AT) ... ?

