

A Digital infrastructure

This chapter provides data on subscriptions in **fixed and mobile networks for voice and data services** (digital infrastructure) in Czechia and other EU countries. It also includes information on fixed and mobile voice and data traffic, as well as broadband subscription speeds by technology. Both voice and data services are broken down by type of subscriber. This information comes directly from **providers** of these services.

All data refer to **31 December of the given year** and only to services provided at the retail level to **end users** (households, individuals, businesses).

Definitions (in alphabetical order)

- **A subscriber** to publicly accessible electronic communications services is a natural person or legal entity that has concluded a contract with a service provider for the use of such services. Subscriptions are broken down by: (i) **household/individual subscriptions**, and (ii) **business subscriptions**, which include legal entities (entrepreneurs, organisations, enterprises) engaged in business activities.
- **A subscriber** to publicly accessible electronic communications services is an individual or legal entity that has concluded a contract for the use of such services with a provider. Subscriptions are broken down by subscriber type into two main categories: (i) **household/individual subscriptions**, and (ii) **business subscriptions** that include any legal entity (entrepreneur, organisation, enterprise) engaged in business.
- **Fixed broadband subscriptions** are measured as the number of active access points (connections) of subscribers that have a contract for fixed-location internet access with a minimum advertised downstream speed of 2 Mbps (256 Kbps before year 2020).
- **Fixed telephone voice subscriptions** are measured as the number of active subscriber stations connected via traditional copper landlines, together with telephone numbers assigned for voice services provided through Voice over Internet Protocol (VoIP) technology within the public switched telephone network (PSTN).
- **Fixed Wired Access** to the internet includes connections over following technologies and networks: i) digital subscriber line DSL (ADSL, VDSL, FTTC) using fixed telephone networks, ii) cable modem (DOCSIS) using coaxial cable TV networks (CATV) and iii) optical fibre networks (FTTH/B).
- **Fixed Wireless Access (FWA)** refers to internet connectivity provided over a radio network, where the receiving end-user device is installed at a fixed location (typically within a building or dwelling). FWA includes access delivered in both licensed frequency bands (e.g., fixed LTE/5G) and unlicensed bands (e.g., fixed Wi-Fi).
- **Machine-to-Machine (M2M)** subscriptions are measured as the number of active SIM cards used for automated, direct communication between devices, machines, or sensors, without requiring human intervention.
- **Mobile broadband subscriptions for data-only services** are measured as the number of active data SIM cards (including eSIMs) or USB modems used for dedicated mobile data services in laptops, tablets and similar devices purchased separately from voice plans. *This does not include fixed-location internet access via LTE/5G networks, which falls under fixed wireless access (FWA), nor SIM cards used for M2M services.*
- **Mobile broadband subscriptions for voice and data services** are measured as the number of active SIM cards (including eSIMs) in mobile phones that provide internet access through data services, whether bundled with voice services or purchased as an add-on to a voice plan.
- **Mobile telephone voice subscriptions** are measured as the number of active SIM cards in mobile phones that have been used at least once in the past three months for voice traffic. Voice services may be provided independently or bundled with data services.
- **SIM cards** are **prepaid** ones, where services are paid in advance by credit, and **postpaid** ones, where contracted services are billed monthly.

Further information on this theme can be found at:

<https://csu.gov.cz/digital-infrastructure>

A Digital infrastructure

Table A1 Fixed telephone voice subscriptions in Czechia

	Thousands		
	2022	2023	2024
Total	1 240,7	1 201,2	1 163,2
Household subscriptions - residential lines/stations	356,0	302,1	260,5
Business subscriptions - business lines/stations	884,7	899,1	902,7

Note: The indicator "fixed telephone voice subscriptions" comprises active subscriber stations connected via traditional copper landlines, together with telephone numbers assigned for voice services using Voice over Internet Protocol (VoIP) technology within the public switched telephone network (PSTN).

Chart A1 Fixed voice subscriptions in Czechia, total

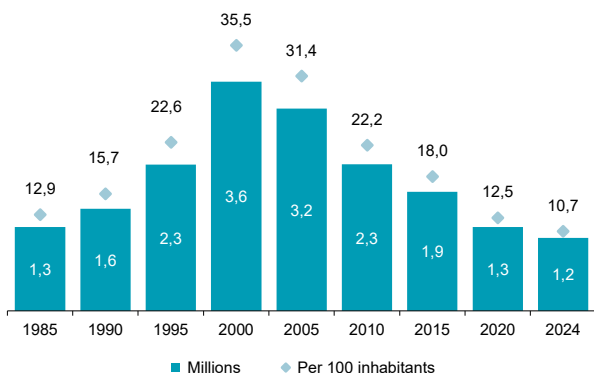
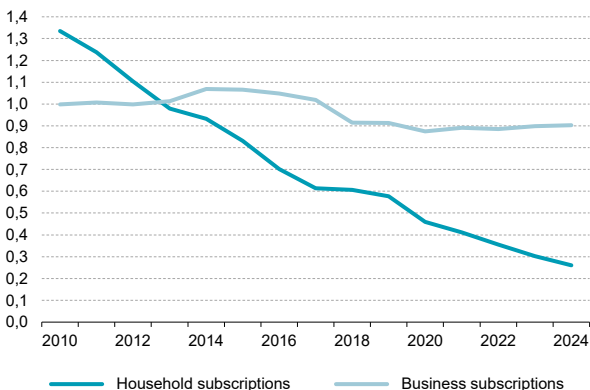


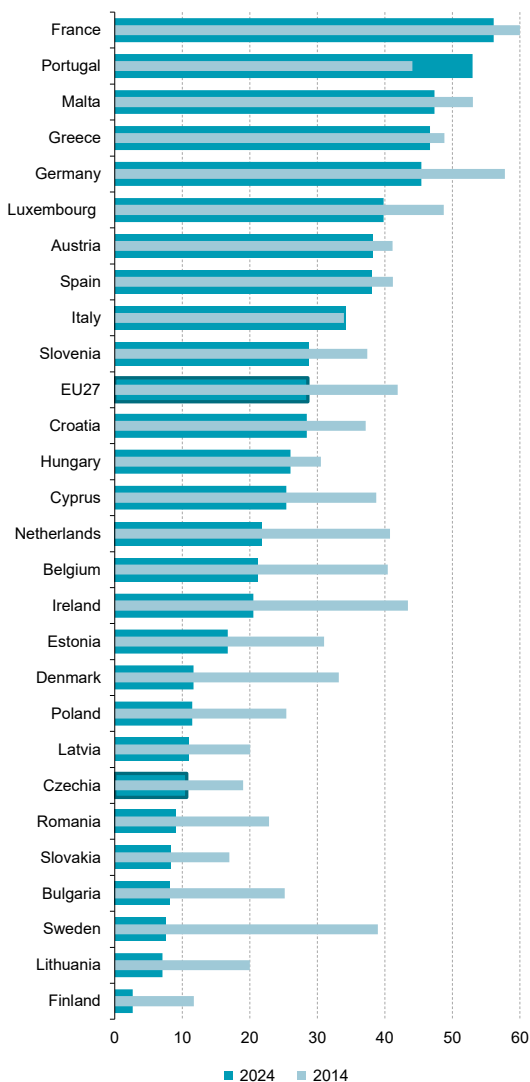
Chart A2 Fixed voice subscriptions in Czechia by type of subscriber (millions)



Source: Czech Telecommunication Office and Czech Statistical Office own calculations

A Digital infrastructure

Chart A3 Fixed telephone voice subscriptions in EU countries (per 100 inhabitants)



Note: The indicator "fixed telephone voice subscriptions" comprises active subscriber stations connected via traditional copper landlines, together with telephone numbers assigned for voice services using Voice over Internet Protocol (VoIP) technology within the public switched telephone network (PSTN).

Source: International Telecommunication Union and Czech Statistical Office own calculations

A Digital infrastructure

Table A2 Mobile telephone voice subscriptions in Czechia

SIM cards in mobile phones used for voice services (thousands)

	2022	2023	2024
Total	13 673,0	13 620,8	13 591,7
Individual subscriptions	9 044,1	8 835,5	8 661,6
Business subscriptions	4 628,9	4 785,2	4 930,1
Type of service			
Voice service only	2 963,8	2 460,6	2 312,1
Voice and data service	10 709,2	11 160,2	11 279,6
Type of contract (SIM card)			
Prepaid SIM cards	4 016,6	3 709,6	3 460,3
Postpaid SIM cards	9 656,4	9 911,1	10 131,4

Chart A4 Mobile voice subscriptions in Czechia, total

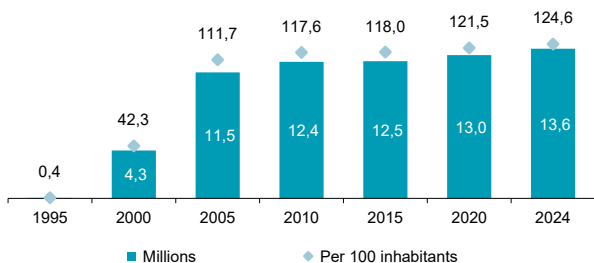


Chart A5 Mobile voice subscriptions in Czechia by type of service (millions)

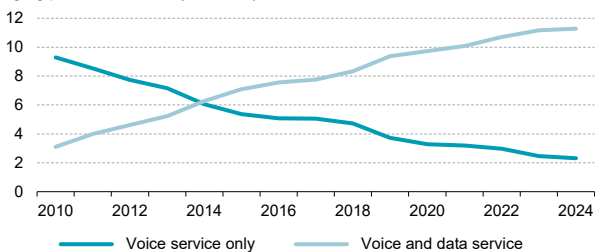
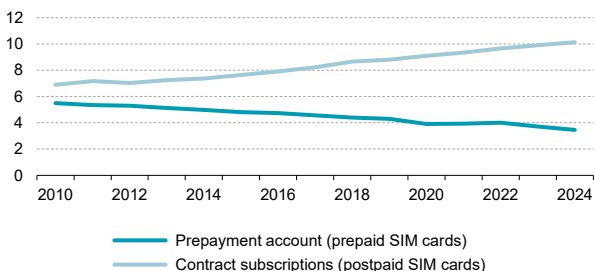


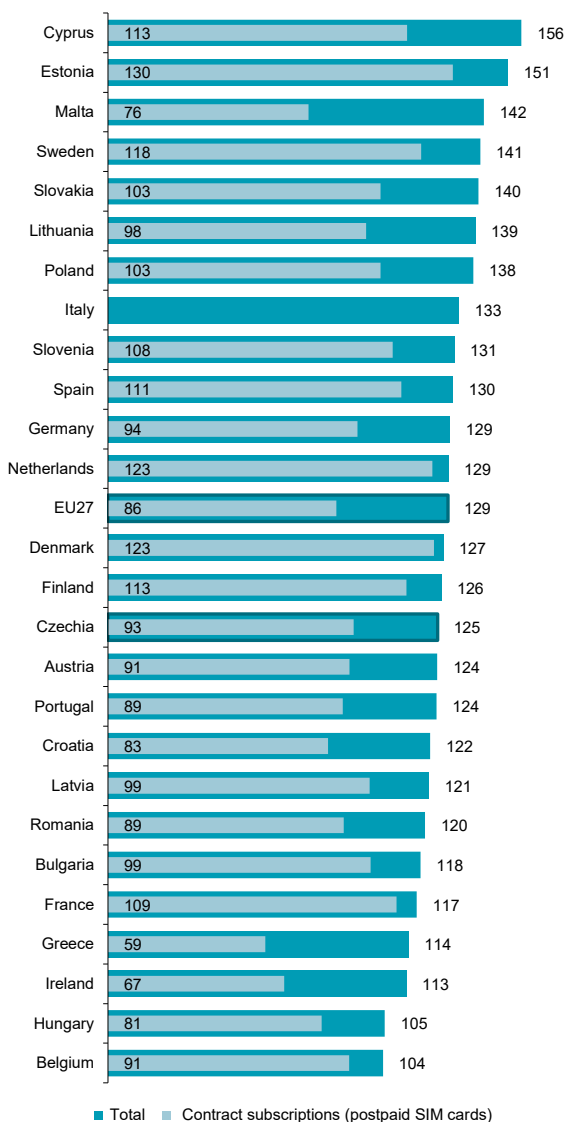
Chart A6 Mobile voice subscriptions in Czechia by type of contract/active SIM cards (millions)



Source: Czech Telecommunication Office and Czech Statistical Office own calculations

A Digital infrastructure

Chart A7 Mobile telephone voice subscriptions in EU countries; 2024 (per 100 inhabitants)



Note: Mobile telephone voice subscriptions are measured by the number of active SIM cards in mobile phones that have been used at least once in the past three months for voice traffic. Voice services may be provided independently or bundled with data services.

Source: International Telecommunication Union and Czech Statistical Office own calculations

A Digital infrastructure

Table A3 Fixed telephone voice traffic in Czechia

Outgoing calls from the fixed network (millions of minutes)

	2022	2023	2024
Total	1 058,0	958,1	896,2
Calls originating from household telephones	433,9	390,4	343,0
Calls originating from business telephones	624,1	567,7	553,2
Call destination and network			
Domestic calls, total	975,7	886,6	830,0
Calls to fixed networks	400,3	342,6	286,4
Calls to mobile networks	575,4	544,0	543,6
International and other calls	82,3	71,6	66,2

Chart A8 Fixed telephone voice traffic in Czechia (minutes)

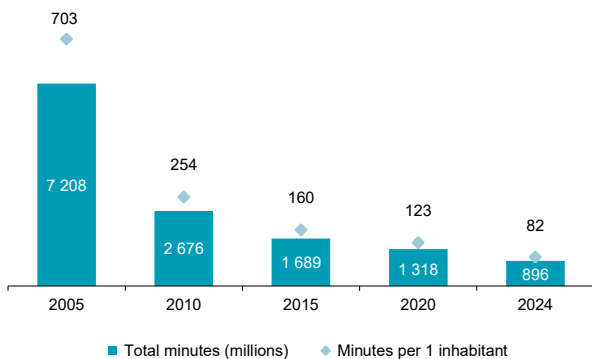
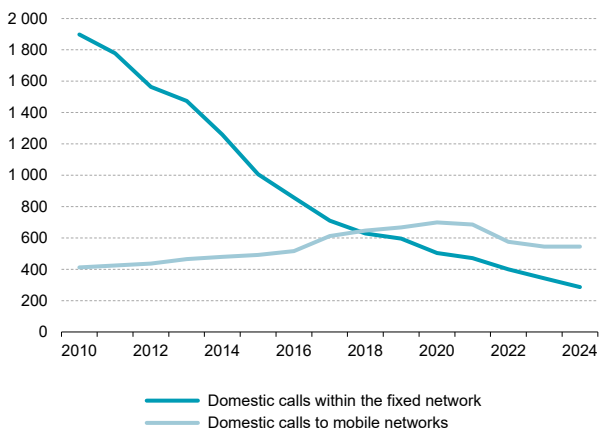


Chart A9 Fixed telephone voice traffic in Czechia by destination network (outgoing calls in millions of minutes)



Source: Czech Telecommunication Office and Czech Statistical Office own calculations

A Digital infrastructure

Table A4 Mobile telephone voice traffic in Czechia

Outgoing calls from the mobile network (millions of minutes)

	2022	2023	2024
Total	26 968,0	27 279,3	28 010,6
Calls originating from personal SIM cards	15 122,5	15 952,3	16 537,4
Calls originating from business SIM cards	11 845,5	11 327,0	11 473,2
Call destination and network			
Domestic calls, total	25 883,6	26 268,2	26 998,5
Calls to the same mobile network	13 432,9	13 302,7	13 464,5
Calls to other mobile networks	11 612,5	12 149,4	12 749,0
Calls to fixed networks	838,2	816,1	785,0
International calls	339,3	255,4	238,8
Outbound roaming calls¹⁾	745,2	755,7	773,3

1) Calls made by subscribers of a domestic mobile operator while they are connected to a foreign (visited) mobile network. This includes calls placed to the home country, within the visited country, or to third countries.

Chart A10 Mobile telephone voice traffic in Czechia

(outgoing calls in minutes)

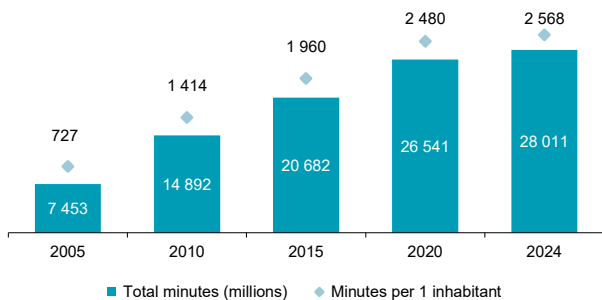
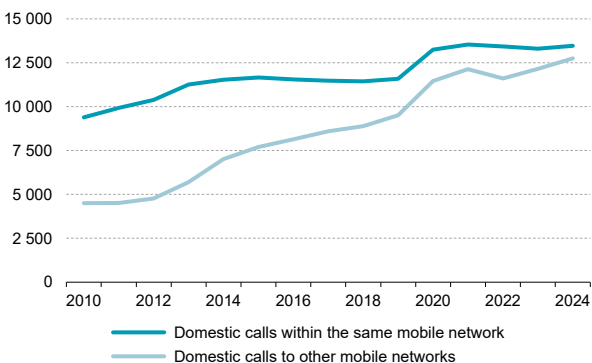


Chart A11 Mobile telephone voice traffic in Czechia

by destination network (outgoing calls in millions of minutes)



Source: Czech Telecommunication Office and Czech Statistical Office own calculations

A Digital infrastructure

Table A5 Total fixed broadband subscriptions in Czechia

	Thousands		
	2022	2023	2024
Total	3 992,8	4 072,3	4 147,6
Household subscriptions	3 311,4	3 376,4	3 442,1
Business subscriptions	681,4	696,0	705,5
Contracted download speed tier			
2–29,9 Mbps	1 032,1	886,0	723,1
30–99,9 Mbps	1 443,0	1 397,9	1 225,5
100 Mbps–999,9 Mbps	1 420,4	1 640,0	1 962,3
1 Gbps and more	97,3	148,5	237,1
Access type and technologies			
Fixed wired access, total	2 425,7	2 503,7	2 550,7
DSL (ADSL, VDSL, FTTC)	1 003,9	1 014,5	991,4
Fibre (FFTH/B)	808,9	884,2	956,8
Cable (DOCSIS)	613,0	605,1	602,5
Fixed wireless access (FWA), total	1 567,1	1 568,6	1 596,9
WiFi based FWA	1 114,6	1 115,0	1 120,8
LTE/5G based FWA	452,5	453,6	476,1

Chart A12 Fixed broadband subscriptions in Czechia

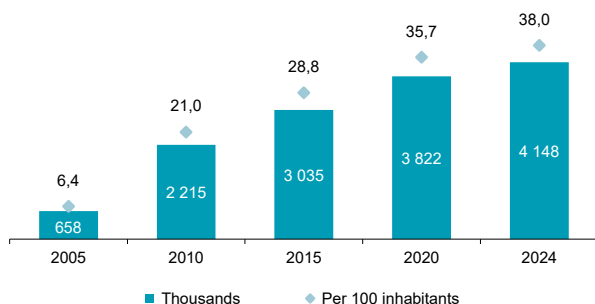
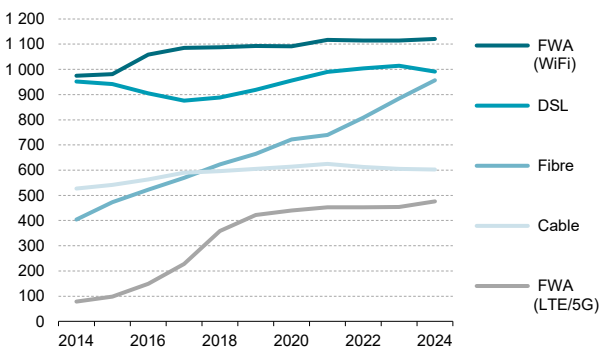


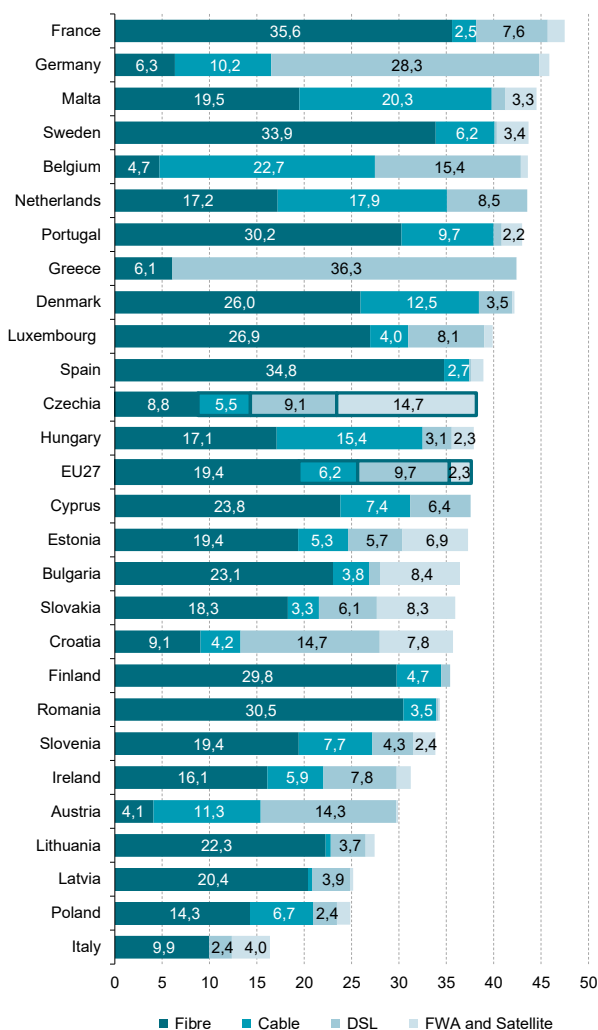
Chart A13 Fixed broadband subscriptions in Czechia by technology (thousands)



Source: Czech Telecommunication Office and Czech Statistical Office own calculations

A Digital infrastructure

Chart A14 Fixed broadband subscriptions in EU countries by technology; 2024 (per 100 inhabitants)



Note: Indicator "Fixed broadband subscriptions" is measured by the number of active access points (connections) of households and businesses that have a contract for fixed-location internet access with a minimum advertised downstream speed of 256 kbit/s, using specified technologies.

Fixed Wireless Access (FWA) refers to internet connectivity provided over a radio network, where the receiving end-user device is installed at a fixed location (typically within a building or dwelling). FWA includes access delivered in both licensed frequency bands (e.g., fixed LTE/5G) and unlicensed bands (e.g., fixed Wi-Fi).

Source: International Telecommunication Union, OECD and Czech Statistical Office own calculations

A Digital infrastructure

Table A6 Household fixed broadband subscriptions in Czechia

	Thousands		
	2022	2023	2024
Total	3 311,4	3 376,4	3 442,1
Fixed wired access, total	2 043,8	2 108,0	2 150,0
DSL (ADSL, VDSL, FTTC)	737,7	746,0	728,7
Fibre (FFTH/B)	733,7	801,3	867,5
Cable (DOCSIS)	572,4	560,7	553,8
Fixed wireless access (FWA), total	1 267,6	1 268,4	1 292,1
WiFi based FWA	943,9	944,3	945,5
LTE/5G based FWA	323,7	324,0	346,6

Chart A15 Household fixed broadband subscriptions in Czechia

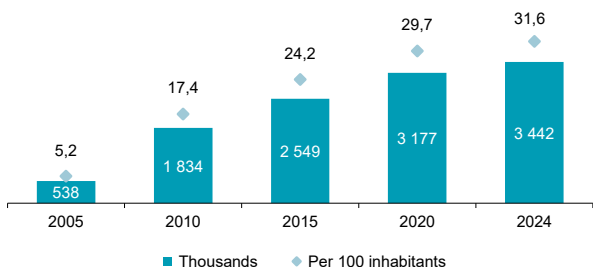


Chart A16 Household fixed broadband subscriptions in Czechia by technology (thousands)

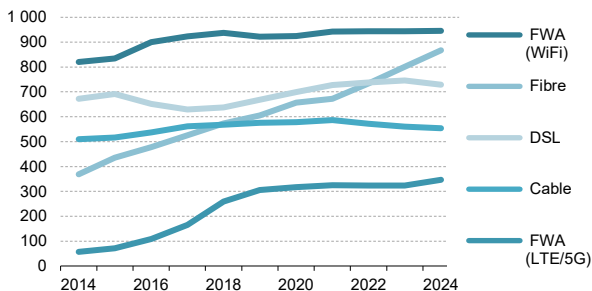
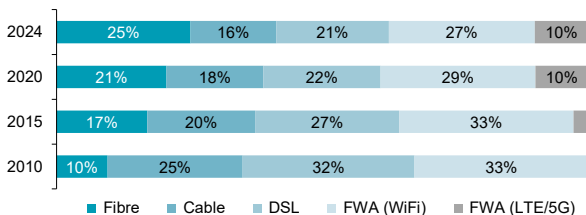


Chart A17 Household fixed broadband subscriptions in Czechia by technology (percentage)



Source: Czech Telecommunication Office and Czech Statistical Office own calculations

A Digital infrastructure

Table A7 Business fixed broadband subscriptions in Czechia

	Thousands		
	2022	2023	2024
Total	681,4	696,0	705,5
Fixed wired access, total	381,9	395,7	400,7
DSL (ADSL, VDSL incl. FTTC)	266,2	268,5	262,7
Fibre (FFTH/B)	75,1	82,9	89,3
Cable (DOCSIS)	40,6	44,4	48,7
Fixed wireless access (FWA), total	299,5	303,9	303,9
WiFi based FWA	170,7	170,7	175,3
LTE/5G based FWA	128,7	129,6	129,5

Chart A18 Business fixed broadband subscriptions in Czechia

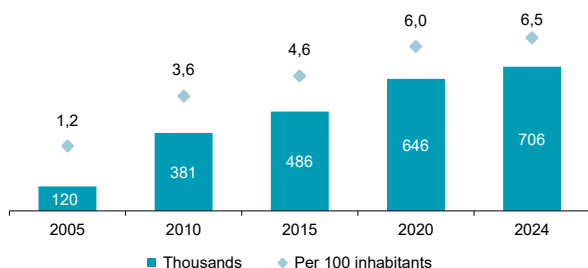


Chart A19 Business fixed broadband subscriptions in Czechia by technology (thousands)

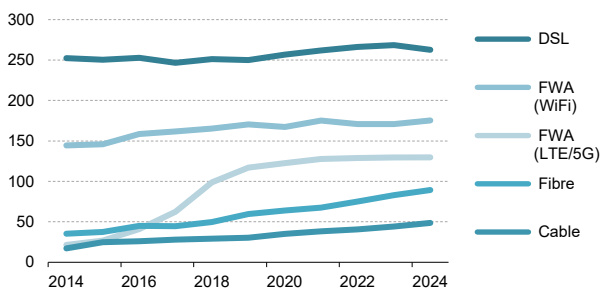
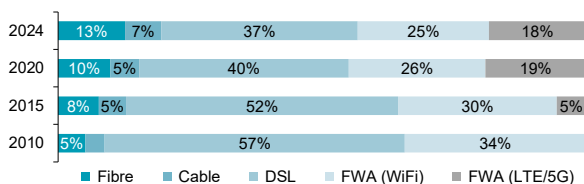


Chart A20 Business fixed broadband subscriptions in Czechia by technology (percentage)



Source: Czech Telecommunication Office and Czech Statistical Office own calculations

A Digital infrastructure

Table A8 Fixed broadband in Czechia by speed tiers; 2024

Subscriptions by contracted download speed tier (thousands)

	2–29,9 Mbps	30–99,9 Mbps	100–999,9 Mbps	1 Gbps and more
Total	723,5	1 225,3	1 962,3	237,1
Fixed wired access	206,4	471,2	1 638,4	235,3
ADSL	20,4	.	.	.
VDSL incl. FTTCab	156,1	333,5	481,0	0,4
Fibre to the home (FFTH)	7,8	40,5	433,9	137,8
Fibre to the building (FTTB)	17,2	66,8	225,8	26,6
Cable (DOCSIS)	4,1	30,3	497,6	70,5
Fixed wireless access (FWA)	517,1	754,1	323,9	1,8
WiFi based FWA	260,1	627,0	231,3	1,8
LTE/5G based FWA	256,4	127,1	92,6	.

Chart A21 Fixed broadband subscriptions in Czechia with contracted speed faster than 100 Mbps

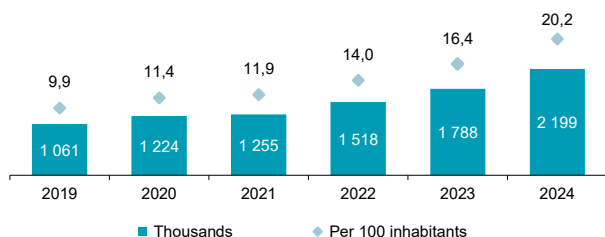


Chart A22 Fixed broadband subscriptions in Czechia by technology and speed tier; 2024 (percentage)

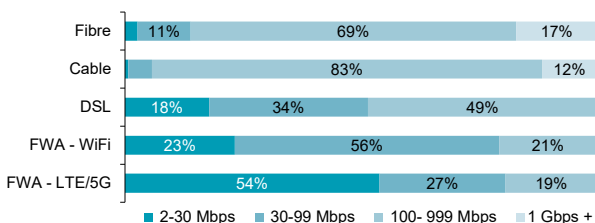
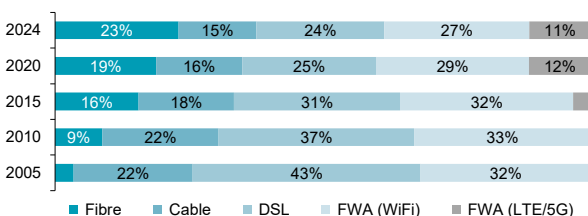


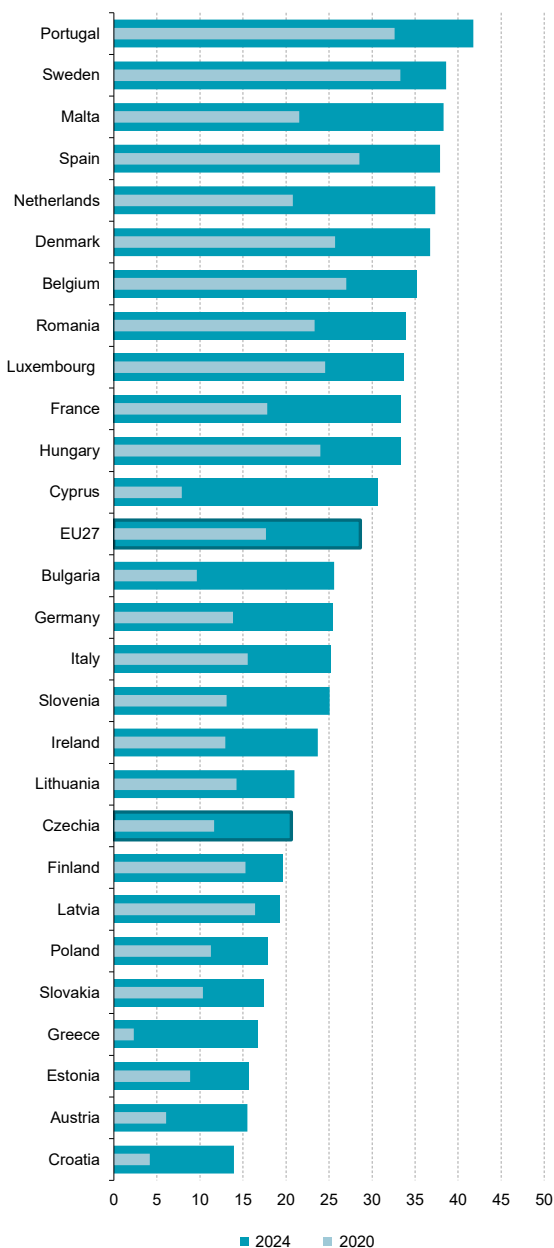
Chart A23 Fixed broadband subscriptions in Czechia by technology (percentage)



Source: Czech Telecommunication Office and Czech Statistical Office own calculations

A Digital infrastructure

Chart A24 Fixed broadband subscriptions in EU countries with speed faster than 100 Mbps; 2024 (per 100 inhabitants)



Source: International Telecommunication Union, OECD and Czech Statistical Office own calculations

A Digital infrastructure

Table A9 Mobile broadband subscriptions in Czechia, total

	Thousands		
	2022	2023	2024
Total	11 021,9	11 477,3	11 575,0
Individual subscriptions	6 440,7	6 586,0	6 545,7
Business subscriptions	4 581,2	4 891,3	5 029,3
Type of service and contract			
Data and voice subscriptions for smartphones, total¹⁾	10 709,2	11 160,2	11 279,6
Prepaid or pay-per use plans	1 959,4	1 833,5	1 724,3
Postpaid monthly plans/tariffs	8 749,8	9 326,6	9 555,3
Tariffs with a data limit	.	2 693,6	3 197,4
Tariffs with unlimited data	.	6 633,1	6 357,9
Data only subscriptions for laptops or tablets²⁾	312,7	317,2	295,4

1) These subscriptions are measured by the number of active SIM cards (including eSIMs) in mobile phones that provide Internet access through data services, whether bundled with voice services or purchased as an add-on to a voice plan.

2) These subscriptions are measured by the number of active data SIM cards (including eSIMs) or USB modems used for dedicated mobile data services in laptops, tablets and similar devices purchased separately from voice plans. Excludes subscriptions for LTE/5G-based fixed location internet access (FWA LTE/5G) and M2M/IoT subscriptions.

Chart A25 Total mobile broadband subscriptions for voice and data services in Czechia

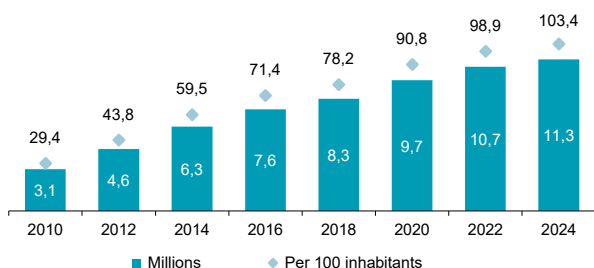
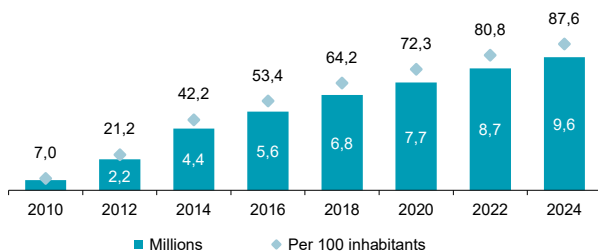


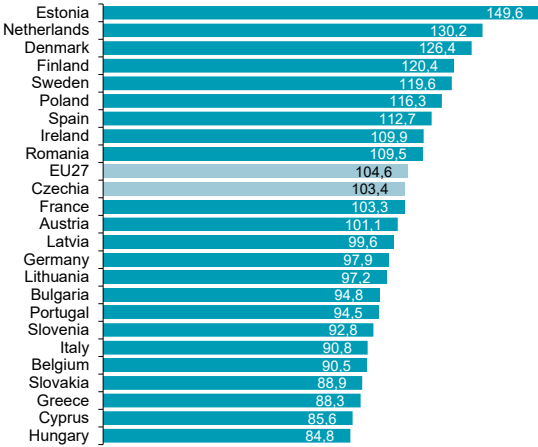
Chart A26 Postpaid mobile broadband subscriptions for voice and data services in Czechia



Source: Czech Telecommunication Office and Czech Statistical Office own calculations

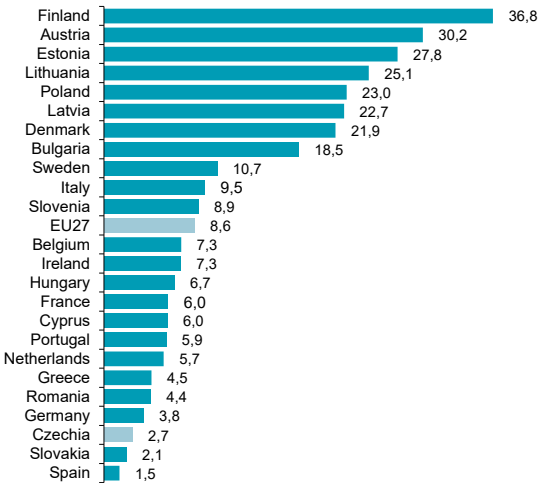
A Digital infrastructure

Chart A27 Mobile broadband voice and data subscriptions in EU countries; 2024 (per 100 inhabitants)



Note: These subscriptions are measured by the number of active SIM cards (including eSIMs) in mobile phones that provide broadband internet access, whether bundled with voice services or purchased as an add-on to a voice plan.

Chart A28 Mobile broadband data-only subscriptions in EU countries; 2024 (per 100 inhabitants)



Note: These subscriptions are measured by the number of active data SIM cards (including eSIMs) or USB modems used for dedicated mobile data services in laptops, tablets and similar devices purchased separately from voice plans. Excludes subscriptions for LTE/5G-based fixed location internet access (FWA LTE/5G) and M2M/IoT subscriptions.

Source: International Telecommunication Union, OECD and Czech Statistical Office own calculations

A Digital infrastructure

Table A10 Broadband data traffic in Czechia

Data transmitted over the internet in petabytes (PB)

	2022	2023	2024
Fixed broadband data traffic	14 079,7	16 218,8	18 145,7
Mobile broadband data traffic, total	941,7	1 329,4	1 732,8
Mobile data traffic over 4G networks	903,2	1 225,0	1 423,3
Mobile data traffic over 5G networks	38,5	104,4	309,5

Chart A29 Fixed broadband data traffic in Czechia

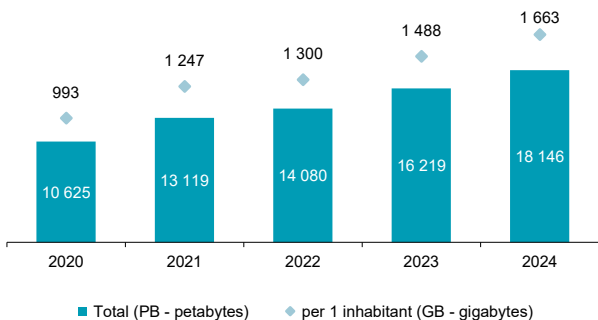


Chart A30 Mobile broadband data traffic in Czechia

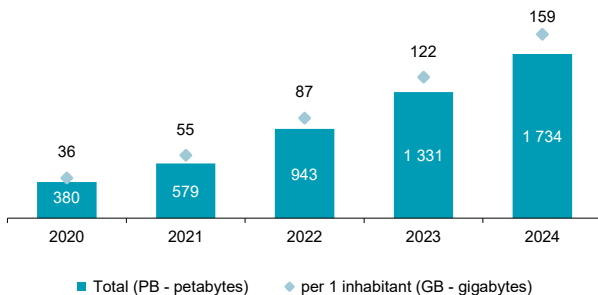
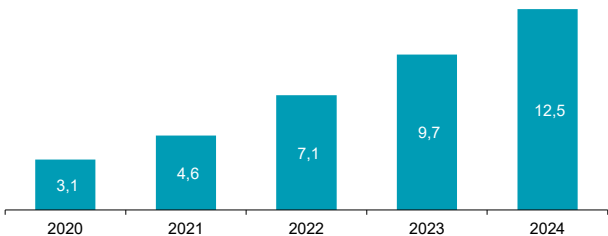


Chart A31 Mobile data usage per month in Czechia

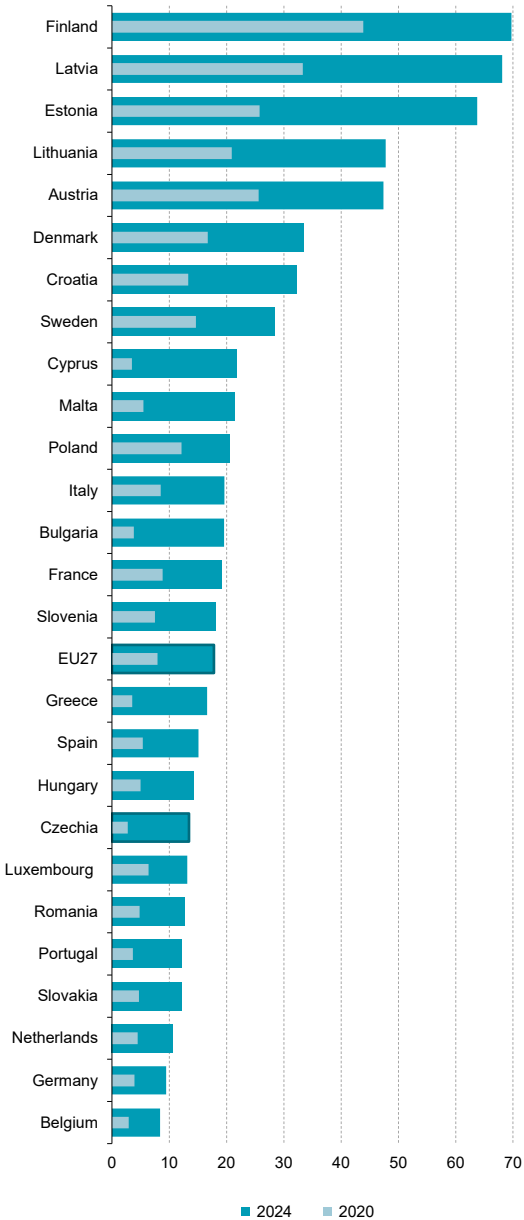
(GB per mobile broadband subscription)



Source: Czech Telecommunication Office and Czech Statistical Office own calculations

A Digital infrastructure

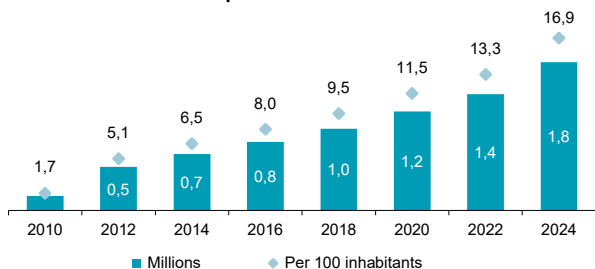
Chart A32 Mobile data usage per month in EU countries (GB per inhabitant)



Source: International Telecommunication Union, OECD and Czech Statistical Office own calculations

A Digital infrastructure

Chart A33 M2M subscriptions in Czechia



Note: Machine-to-Machine (M2M) subscriptions are measured as the number of active SIM cards used for automated, direct communication between devices, machines, or sensors, without requiring human intervention.

Chart A34 M2M data traffic in Czechia

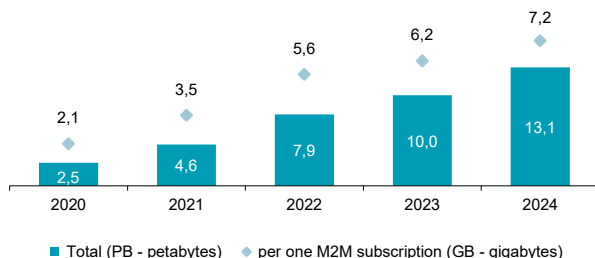
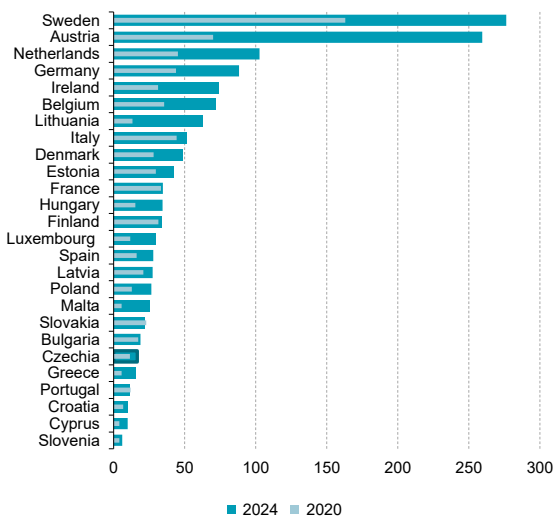


Chart A35 M2M subscriptions in EU countries (per 100 inhabitants)



Source: Czech Telecommunication Office, OECD and Czech Statistical Office own calculations