The 26.Telecommunications Market Analysis Germany 2025

Results of a survey of VATM member companies in the first quarter of 2025





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- Information between the columns = annual growth rate of the segment.

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Chapter I

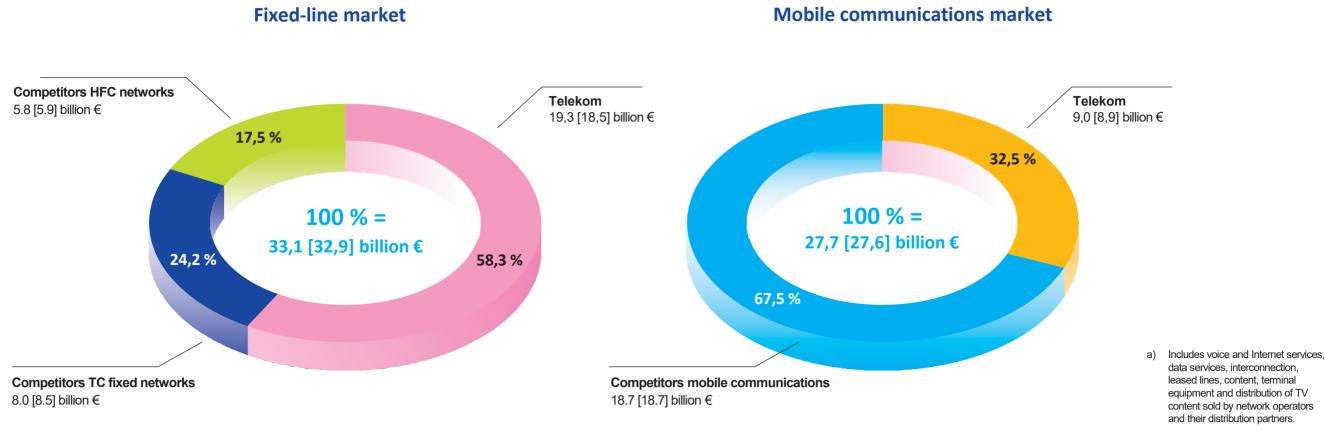
Markets for telecommunications services





In the fixed network market, Telekom continues to grow despite its high market share - at the expense of its competitors

Fig. 1: Fixed-line and mobile communications market^a (External sales, estimate for 2025)



Total market 60.8 [60.5] billion €



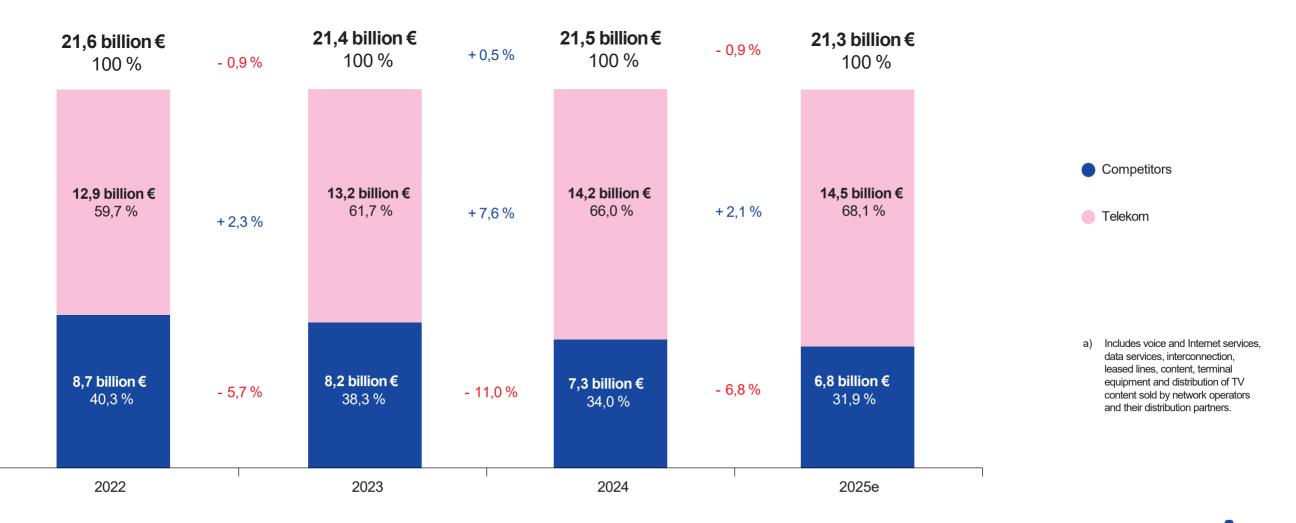


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In the business customer market, which is heavily dependent on regulation, Telekom has steadily gained market share and is set to reach nearly 70 percent by 2025

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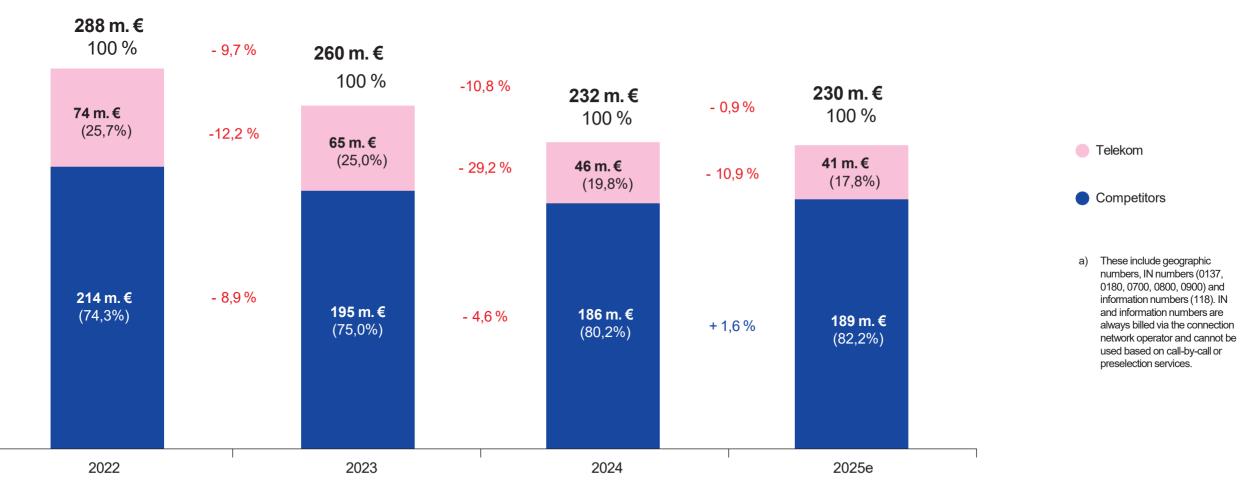
Fig. 2: Market for telecommunications services for business customers by providers^a (external sales, estimate for 2025)





Al and chatbots are widely used in customer service; customer interactions via service numbers and service SMS remain essential and revenue stable

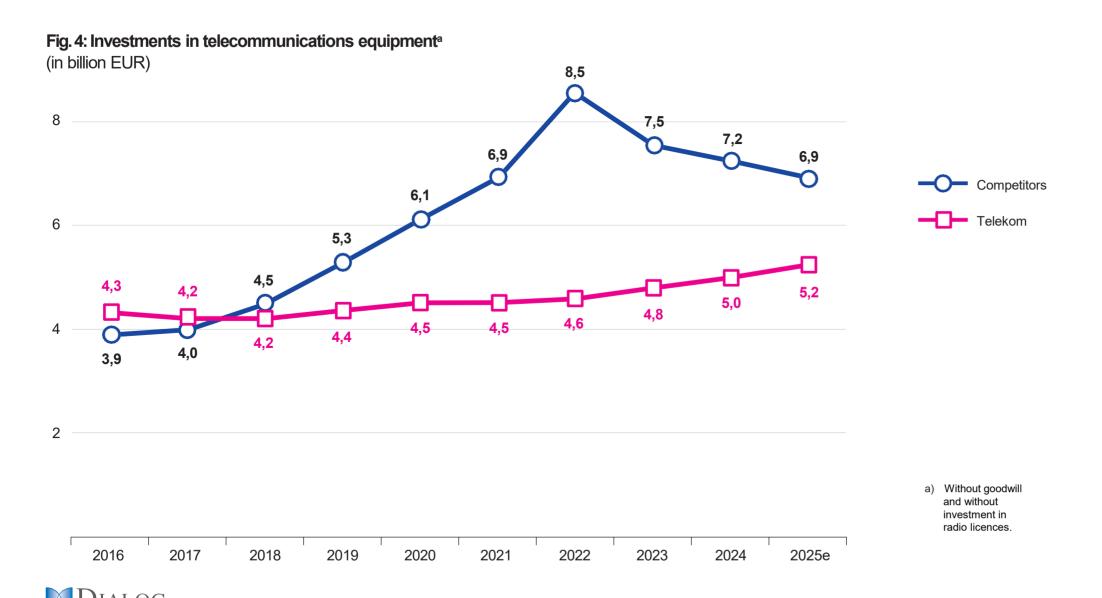
Fig. 3: Market for service numbers and service SMS^a (Revenue, estimates for 2025)







Infrastructure roll-out continues to be driven primarily by competitors, who are investing significantly more than Telekom – Telekom's investments are a reaction to competition



Source: Company information



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Chapter II

Civil engineering planning for broadband rollout

Development of enquiries in Germany





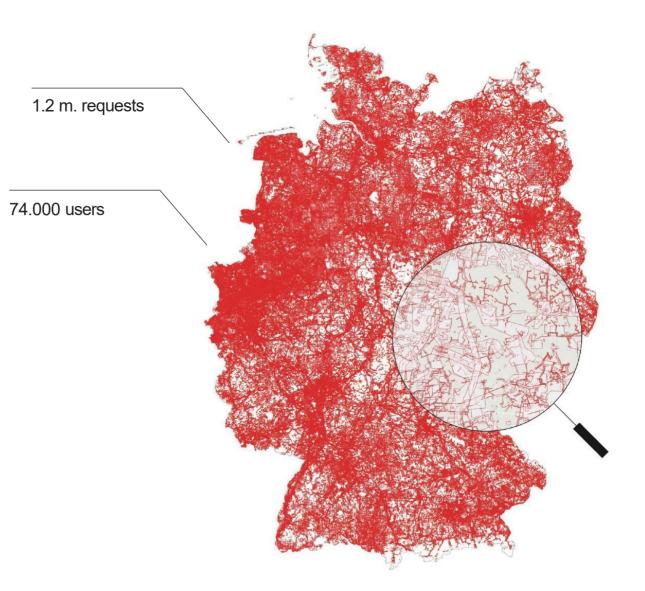
BIL portal: key platform for utility location, infrastructure planning and safety management

Fig: BIL portal – Statistical analysis 2016 – 2024

BIL portal is the central tool for identifying and coordinating potential risks in the field of underground infrastructure. It is of great importance given the growing demand for communication, energy generation, transportation, and distribution.

Particularly in the context of network rollout, the portal for enquiries about underground cables is used by approx. 1,000 users every day, primarily from the civil engineering sector. In 2024, a total of 194,000 enquiries from 74,000 registered users were processed, resulting in an extensive database of 1.2 m. planning and construction enquiries since its inception in 2016.

As a cooperative of operators of mostly underground pipeline/network infrastructure systems or other hazardous areas, BIL eG supports its members in informing third parties about their location. The aim is to prevent damage to underground pipeline systems and other vulnerable infrastructure belonging to the cooperative's pipeline operators by the actions of third parties.

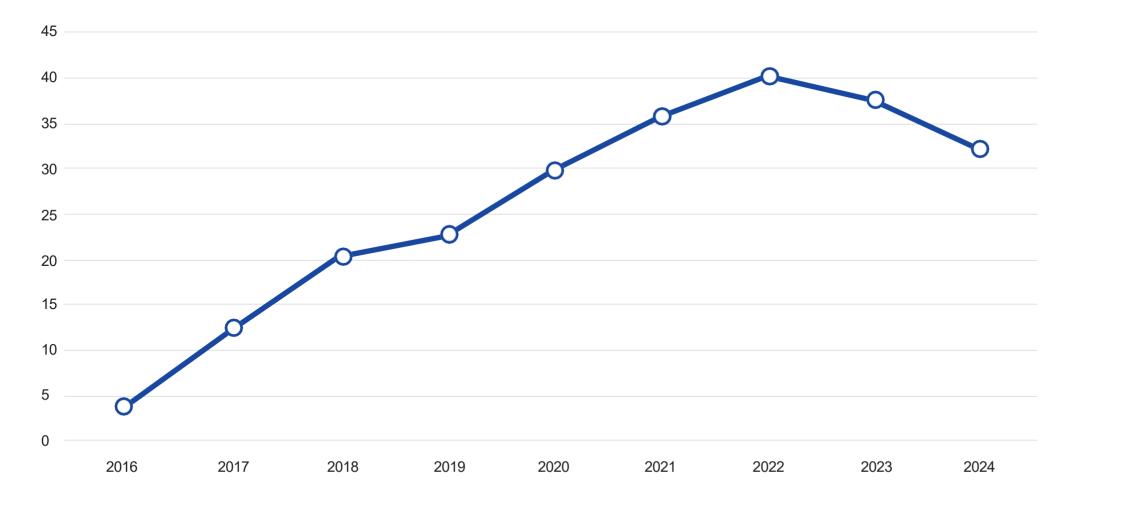






The declining momentum in fibre optic deployment (Fig. 4) is also reflected in the decline in enquiries about broadband deployment on the BIL portal

Fig. 5: Enquiries^a regarding broadband deployment in thousands (Source: BIL eG)



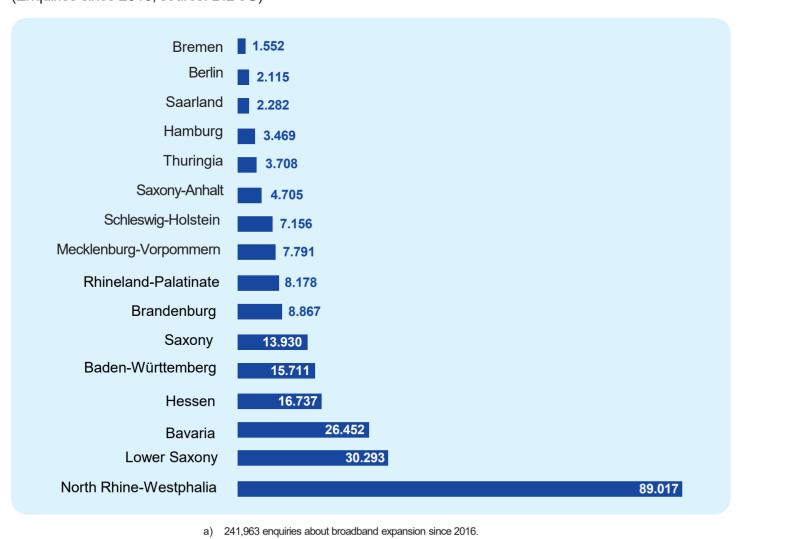
 a) 241,963 enquiries for broadband expansion since 2016. Broadband infrastructure deployment projects (laying of telecom and control cables, as well as ducts) account for a significant 17% of all planning and construction requests submitted to the BIL portal in 2024.

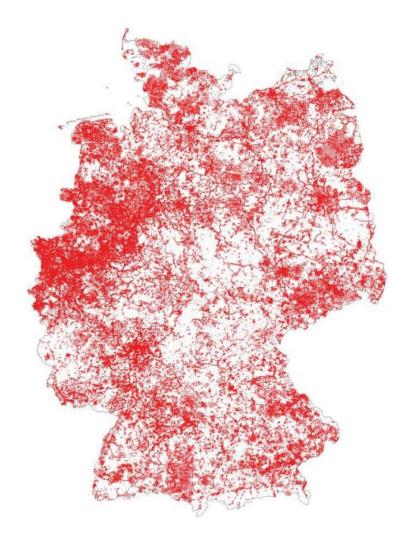




Over 60 per cent of requests for broadband deployment come from the three federal states of North Rhine-Westphalia, Lower Saxony and Bavaria

Fig. 6: Enguiries^a regarding broadband deployment in thousands (Enquiries since 2016, source: BIL eG)





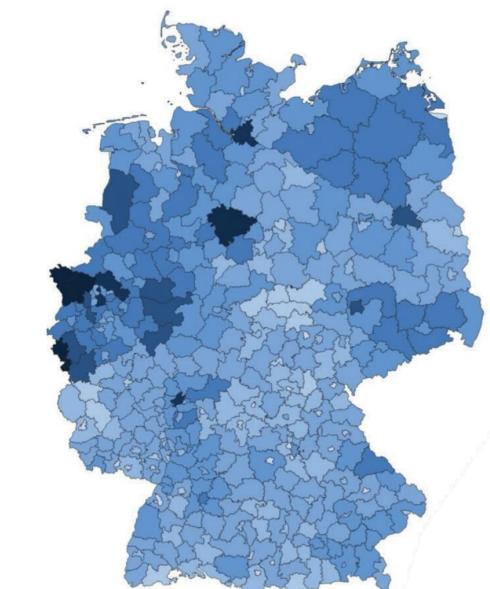
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The top 25 areas account for 30 per cent of all enquiries – both in urban centres and in rural areas

Fig. 7: Regional priorities for broadband roll-out^a



Broadband expansion – TOP 10 requests district/county vs. independent cities

District	Kleve	9563
District	Wesel	6093
District	City region Aachen	5685
County	Region Hannover	4398
District	Recklinghausen	3539
District	Düren	2980
District	Siegen-Wittgenstein	2504
District	Hochsauerland District	2491
District	Soest	2350
District	Euskirchen	2193

Independent city	Frankfurt am Main	3771
Independent city	Dortmund	3486
Independent city	Essen	3485
Independent city	Hamburg	3465
Independent city	Dusseldorf	2909
Independent city	Berlin	2112
Independent city	Leipzig	2029
Independent city	Duisburg	2018
Independent city	Bochum	1844
Independent city	Cologne	1669

a) The figures are not always directly comparable, as the areas covered by the measures requested may be recorded very differently by the users.



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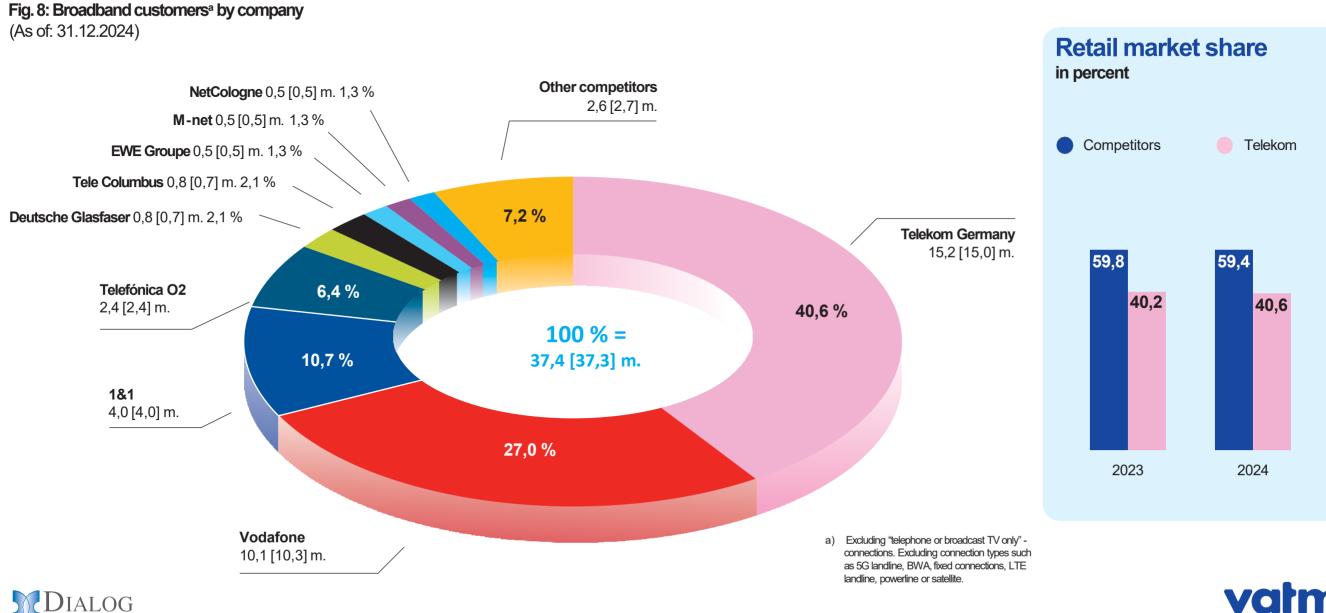
Chapter III

Fixed-line broadband connections





Deutsche Telekom expands its retail market share to 40.6 per cent

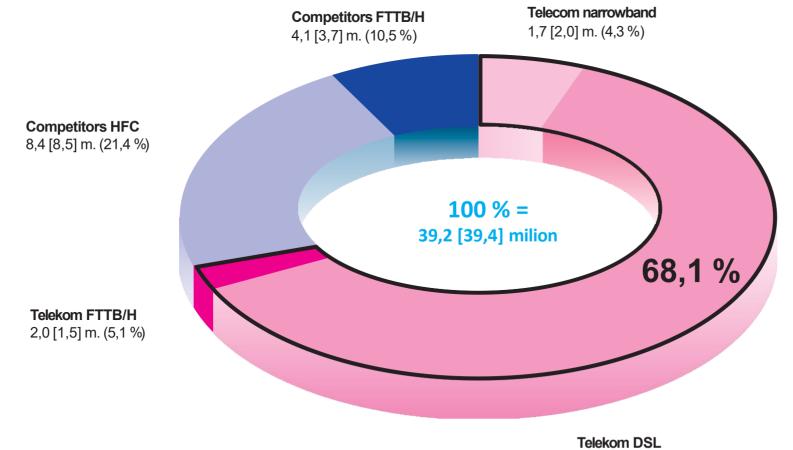


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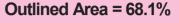
Source: Company information

Telekom dominates the german broadband market - nearly 70 per cent of all connections run over Deutsche Telekom's access networks: Effective regulation by BNetzA more important than ever

Fig. 9: Actively used narrowband and broadband connections^a by line ownership (Estimate for the end of 2025)



^{23,0 [23,7]} m. (58,7%)



- Predominantly depreciated copper lines
- 26.7 m. actively used access lines owned by Deutsche Telekom
- Deutsche Telekom earns money from its own end customers and from wholesale services

 Excluding pure broadcast TV connections. Excluding connection types such as 5G landline, BWA, fixed connections, LTE landline, powerline or satellite.





Demand for high-speed internet is growing significantly to over 28 per cent - yet there are still 2.2 m. connections with a maximum speed of 16 Mbps

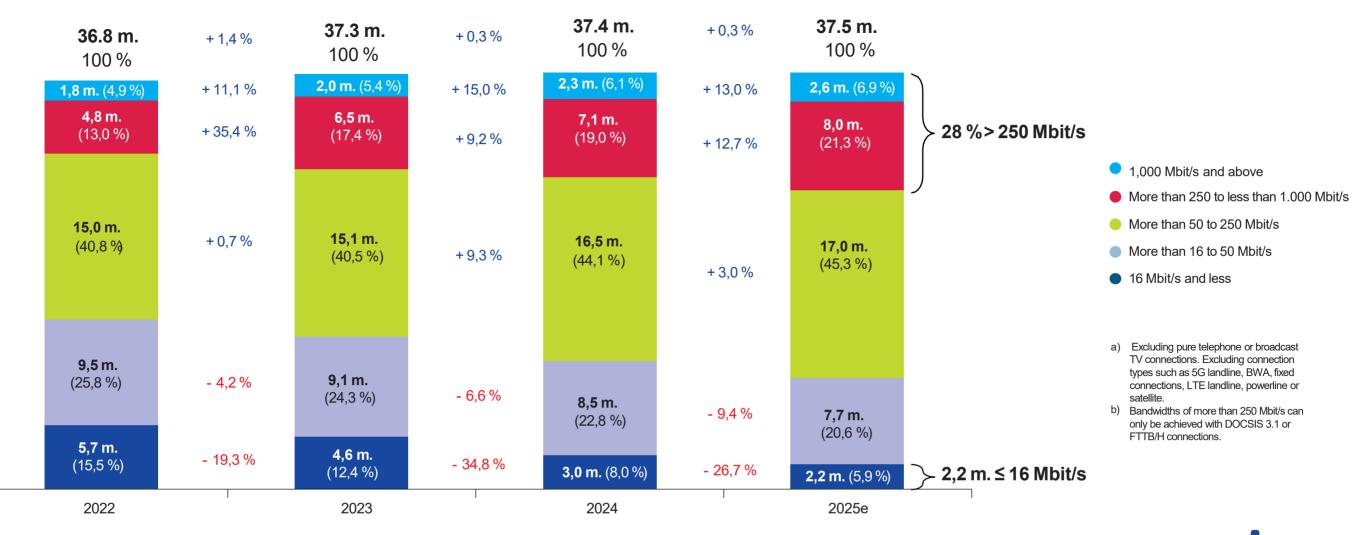
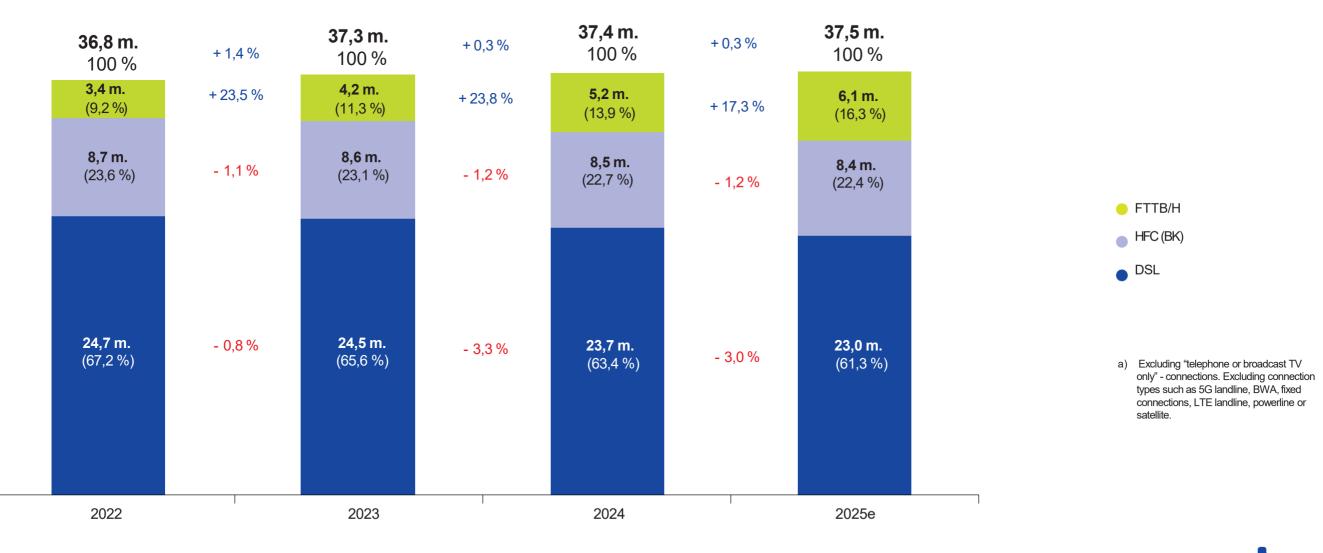


Fig. 10: Demand for broadband connections^a by downstream bandwidth^b



FTTB/H is growing significantly in the broadband market - copper-based DSL connections being replaced by fibre connections

Fig. 11: Demand for broadband connections by network technology^a





Telekom is continuing to expand its market share in the DSL market, which will continue to dominate in the medium term – making pro-competitive regulations regarding the copper network shutdown by BNetzA more important.

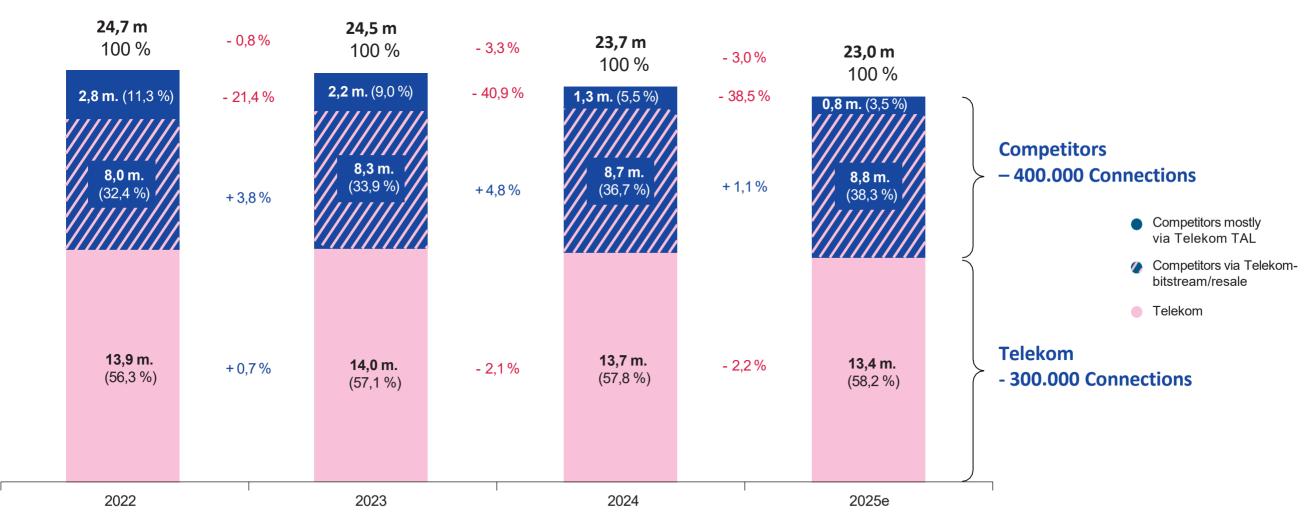


Fig. 12: Demand for DSL connections



Chapter IV

Fibre connections





By the end of 2025, over 86 per cent of all private households/SMEs in Germany will be connected to a gigabit-capable network (Homes Passed) – 24.8 m. households/SMEs will be accessible via fibre

Fig. 13: Households/SMEs with Gigabit access (homes passed) at the end of 2025 (estimated for 2025)

Coaxial cable HFC: 27,2 [27,0] m. households accessible

> **Fibre optic FTTB/H:** 24,8 [21,1] m. households accessible

HFC networks 14,8 [16,2] m. households that can only be accessed with DOCSIS 3,1

- 8,6 %

FTTB/H- und HFC networks 12,4 [10,8] m. households with FTTB/H and DOCSIS 3.1 accessible

+ 14,8 %

FTTB/H networks 12,4 [10,3] m. households accessible only with FTTB/H

+ 20,4 %

 a) 45.7 m. units supplied. 42.0 m. private households (primary and secondary residences) and 3.7 m. small and medium-sized enterprises.

39.6 [37.3] m. households and SMEs can be supplied with gigabit-capable connections

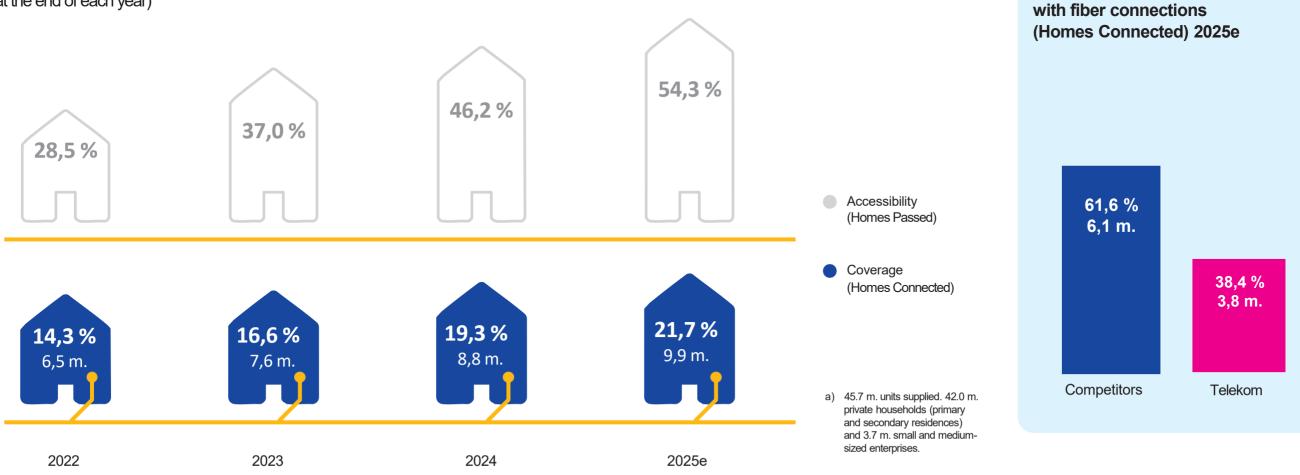
(= 86.7 [81.6] % of all 45.7 m. private households/SMEs)





The coverage rate of fibre (Homes Connected) will be 21.7 per cent by the end of 2025 – 61.6 per cent of these almost 10 m. fibre connections will be build by competitors

Fig. 14: Accessibility rate Homes Passed and Supply rate^a Homes Connected Total number of households supplied (at the end of each year)

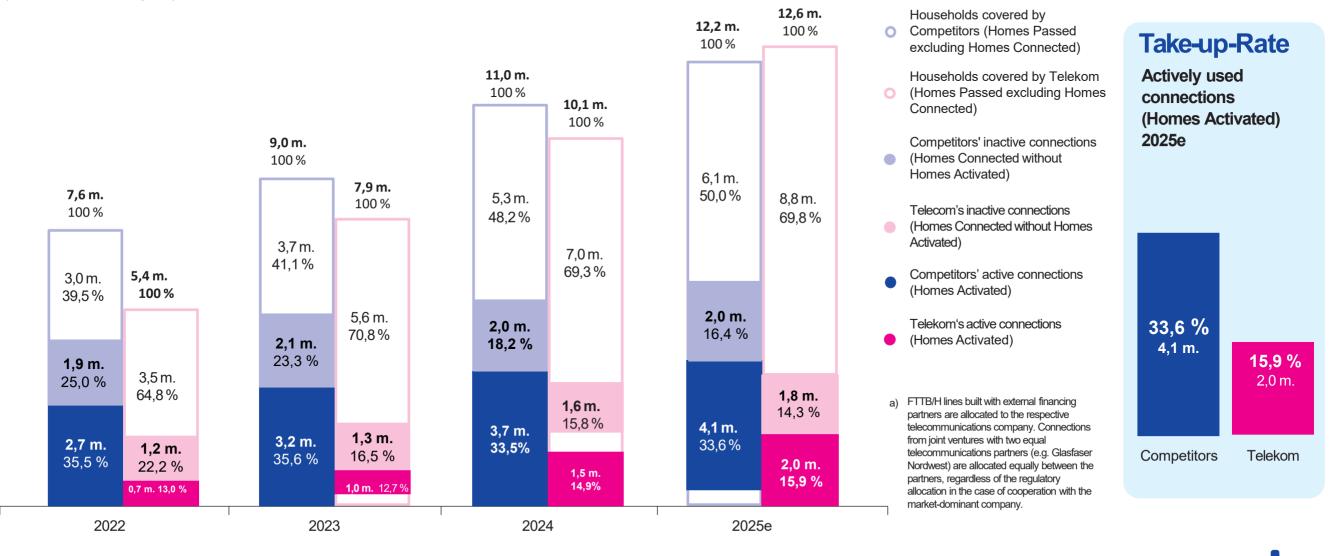




Coverage rate

Competitors have more than twice as many fiber customers as Telekom – Telekom relies on Homes Passed without connecting citizens

Fig. 15: Households with fibre optic connectivity, coverage and take-up by providers^a (at the end of each year)



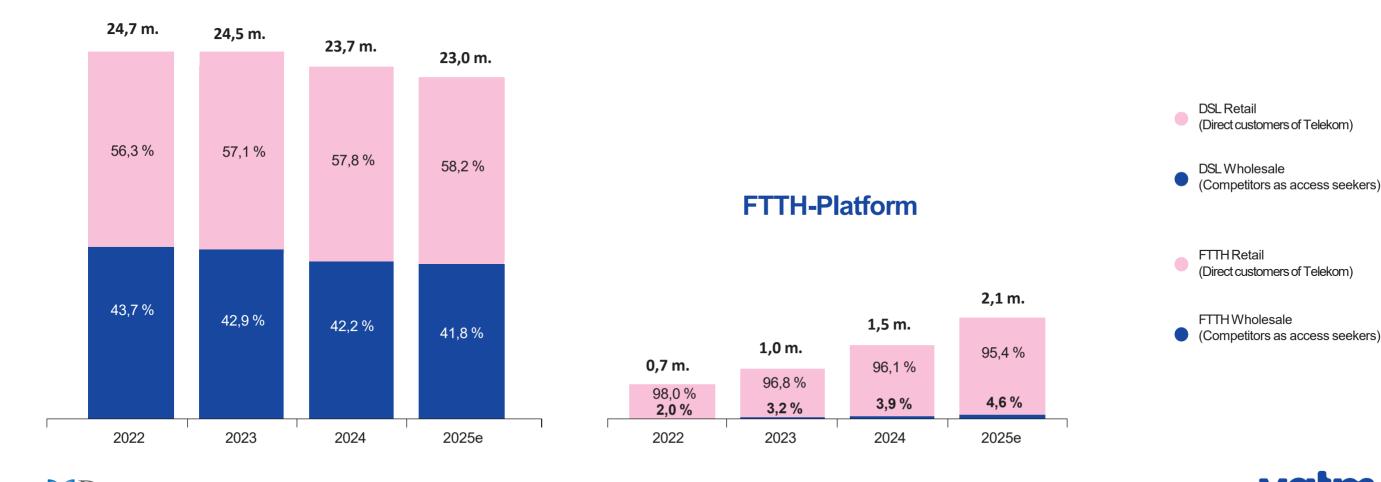




The FTTH and DSL platforms of the market-dominant Telekom are insufficiently regulated – Telekom continues to expand its market share putting competitors under pressure

Fig. 16: End-customer market shares on Telekom's DSL and FTTH platforms (Homes Activated, at the end of each year)

DSL-Platform





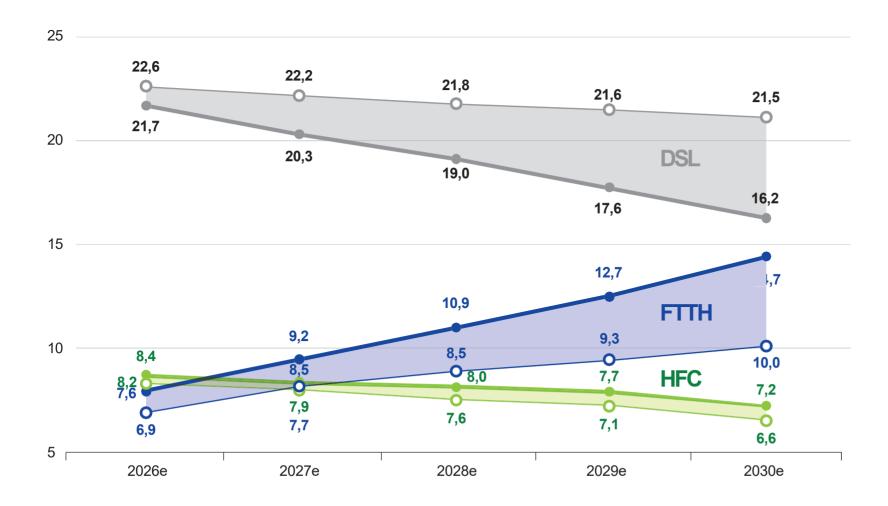
DIALOG CONSULT ^{GM} Source: Company information

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Even in an optimistic scenario of a 'fibre push' with 1.5 to 2.0 m. new FTTB/H connections (Homes Activated) per year, just under 15 m. connections will be in use by the end of 2030 -DSL will remain the most widely used connection technology until the end of the decade

Fig. 17: Forecast of actively used broadband connections in the fixed network by technology (Homes Activated, at the end of each year)

Source: DIALOG-CONSULT forecasts



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Pessimistic scenario Sticking with copper

- FTTB/H growth < 1 m. p.a.
- Restrained growth of connection bandwidths
- Focus on expanding homes passed coverage (meets political expectations)

Optimistic scenario Fibre Push

- FTTB/H growth 1.5 2.0 m. p.a.
- · Significant growth in connection bandwidths (also slightly boosting HFC)
- Emphasis on expanding homes connected infrastructure and the marketing of activated homes (meets citizens' expectations)



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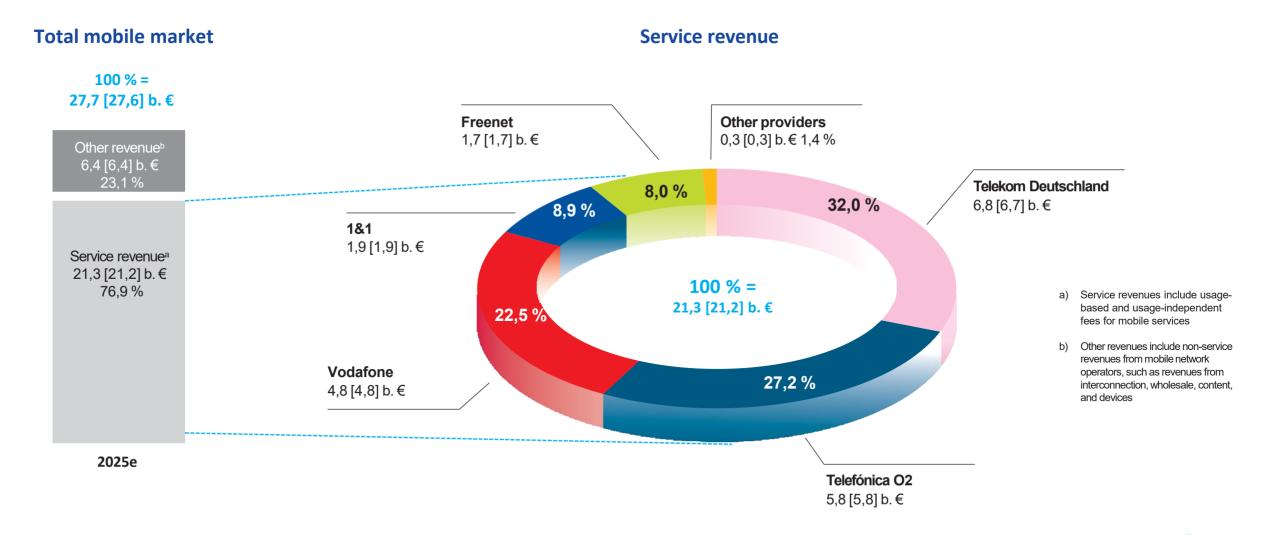
Chapter V Mobile communications market





More than three quarters of mobile phone revenues are generated by services – revenues remain stable

Fig. 18: Structure of mobile communications revenues (Estimate for the full year 2025)

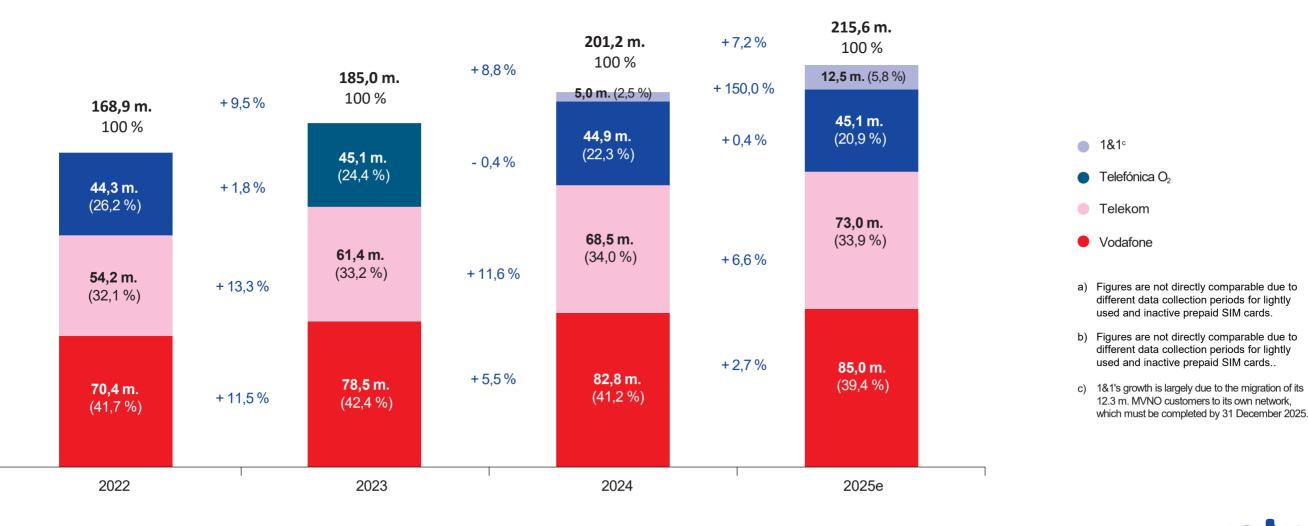




Number of SIM cards continues to grow, with an increase of 14.4 m. – the new entrant 1&1 is expected to reach a market share of just under 6 per cent this year

Fig. 19: Number of SIM cards by mobile network^a

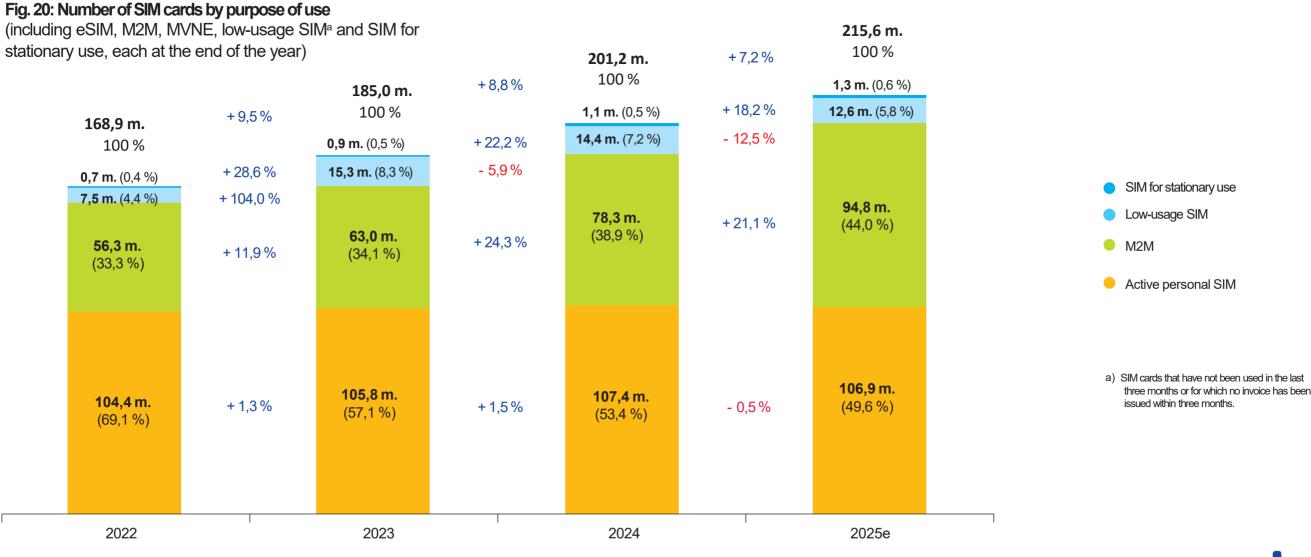
(including eSIM, M2M, MVNE, low-usage SIMb and SIM for stationary use, each at the end of the year)







SIM card growth in the mobile market is driven by M2M applications – fixed wireless based on LTE/5G is still a niche application, but growing





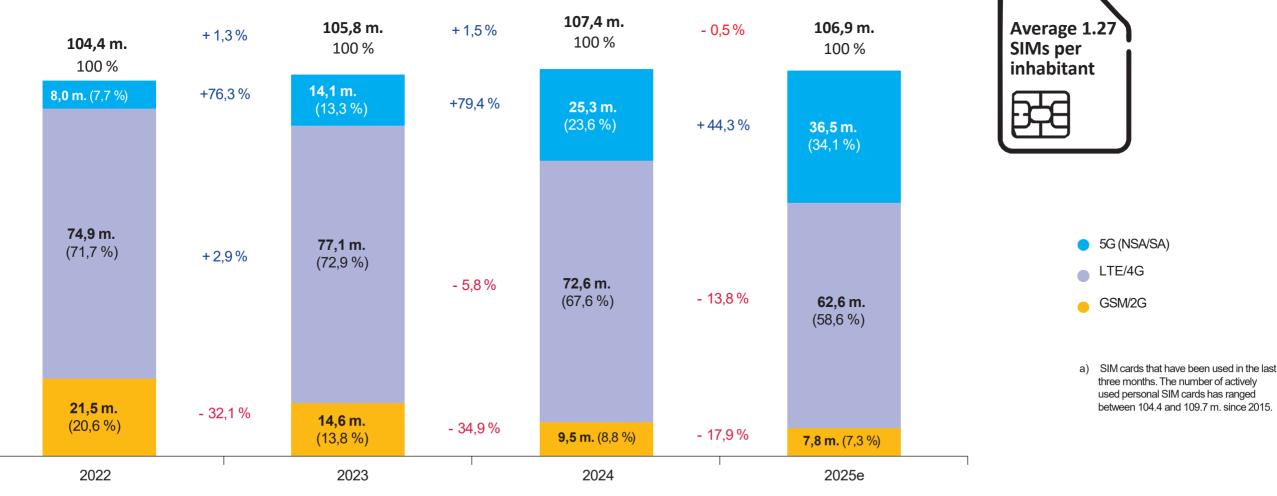
Source: Company information

ALOG

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For personally used active SIM cards, a saturation point will be reached when there are more than 1.2 cards per inhabitant – by the end of 2025, more than 90 per cent of all SIM cards will be broadband-capable

Fig. 21: Number of active^a **SIM cards for personal mobile use by network generation** (including eSIM and MVNE, at the end of each year)



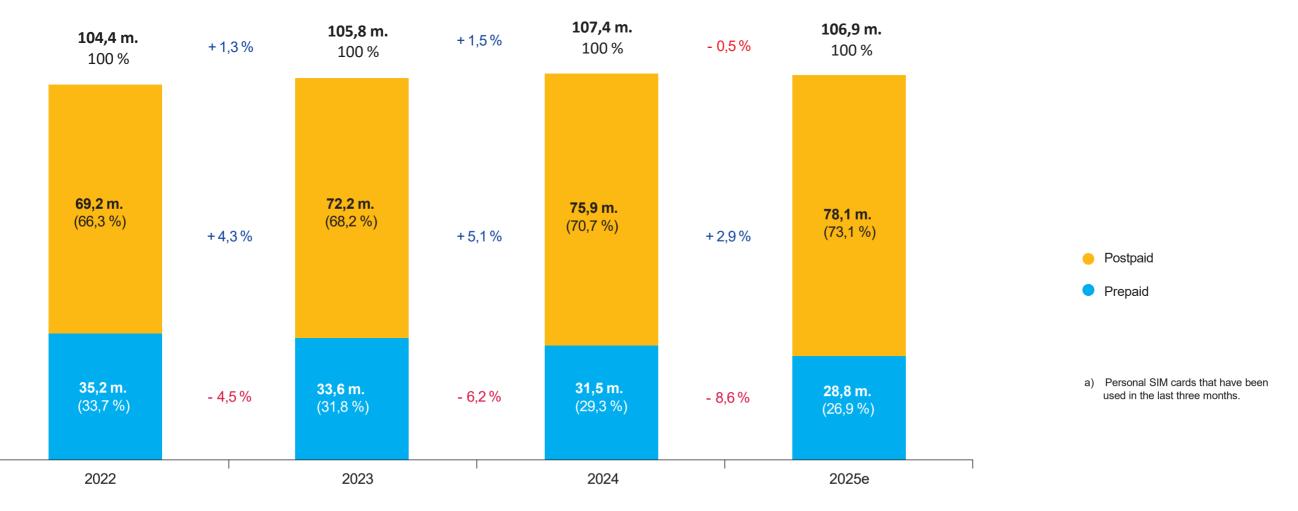




With constant data availability, postpaid contracts continue to gain in attractiveness

Fig. 22: Number of active^a personal SIM cards by contract type

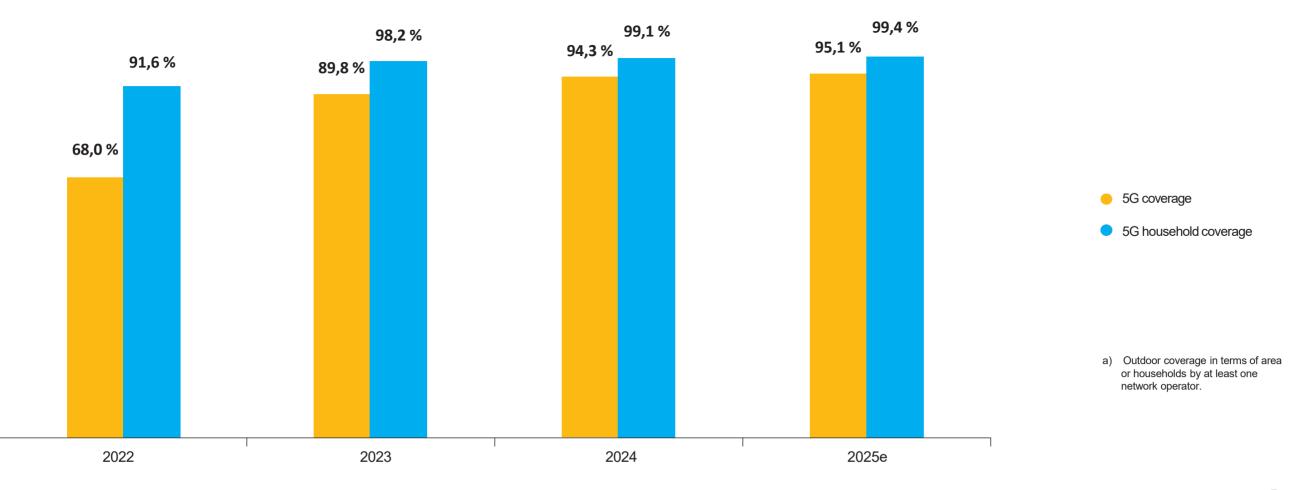
(including eSIM and MVNE, excluding M2M SIM, low-volume and stationary use, at the end of each year)





5G offering covers almost all households and most of Germany

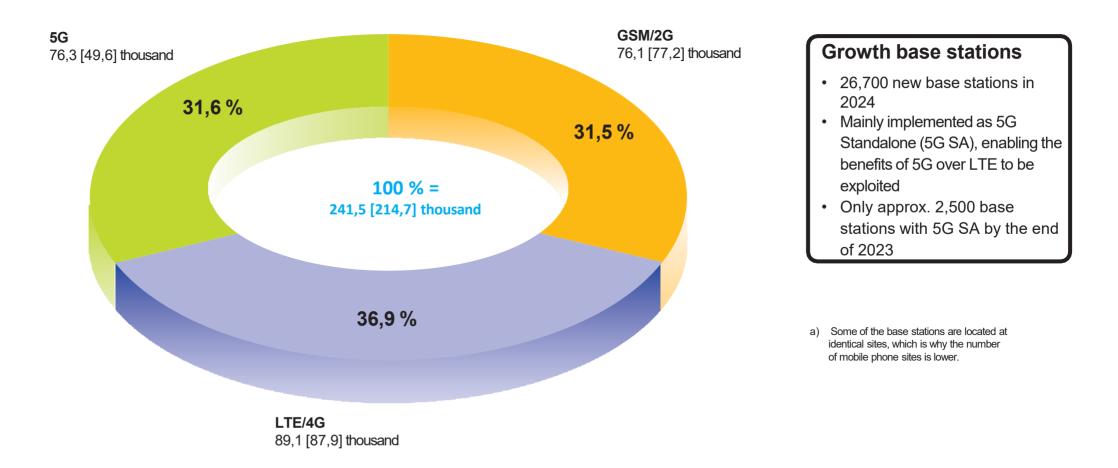
Fig. 23: Network coverage^a with 5G mobile communications (at the end of each year)





The number of 5G base stations continues to grow – the pace of deployment is heavily dependent on approval processes

Fig. 24: Number^a of mobile phone base stations by technology (at the end of each year)

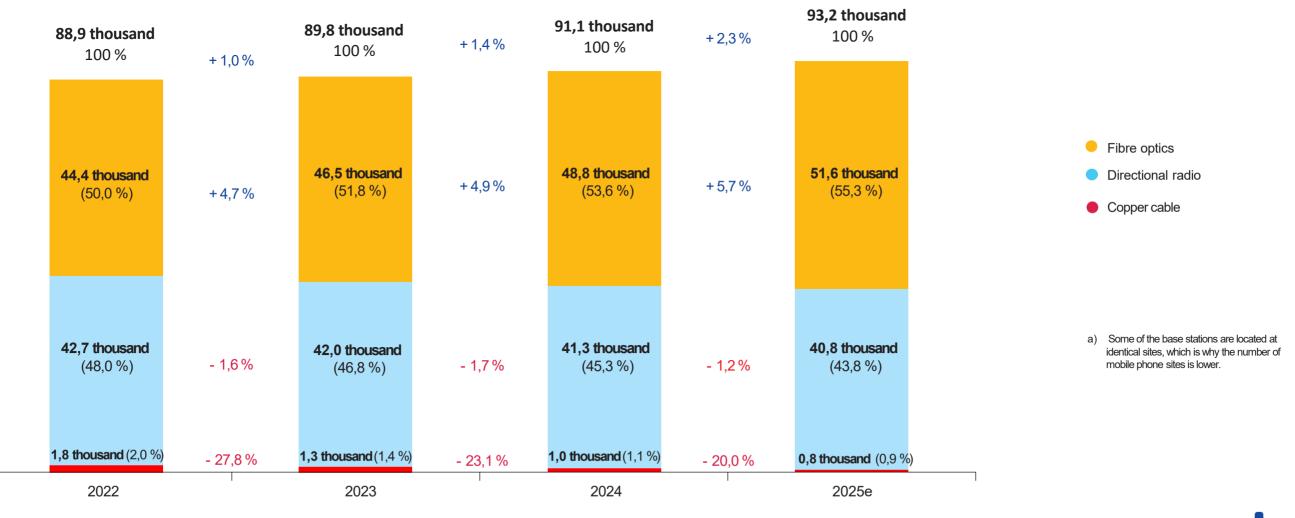






Mobile network operators are continuously investing in connecting antenna sites with fibre – directional radio remains a fundamental technology for connectivity

Fig. 25: Number^a of mobile phone base stations by network connection (at the end of each year)





Chapter VI Audio, video, and data transmission

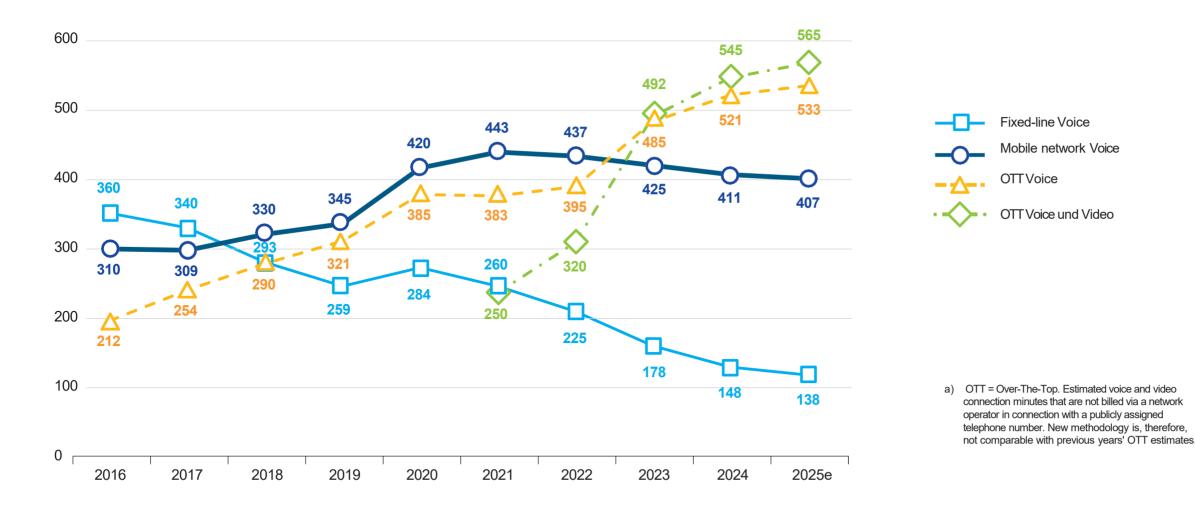




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Most voice connections are made from non-phone number-based OTT apps

Fig. 26: From landline, mobile and OTT apps^a outgoing voice and video connection minutes

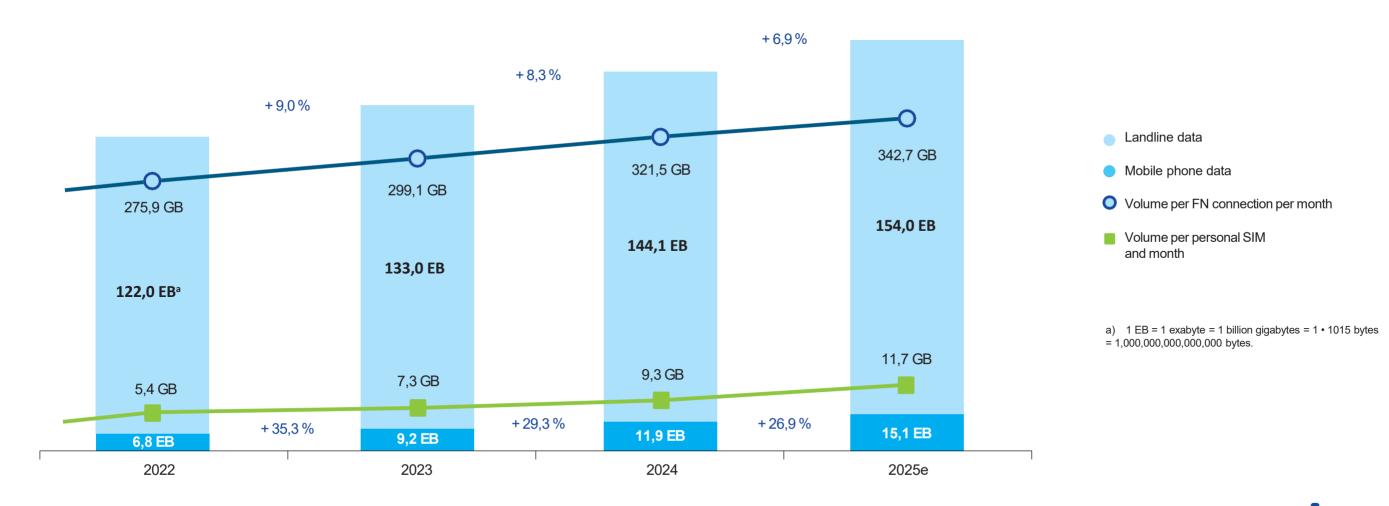






The amount of data transferred over fixed networks will increase by 21.2 gigabytes to 343 gigabytes per broadband connection – in mobile networks 11.7 gigabytes will be transferred per personal active SIM

Fig. 27: Volume development of broadband Internet traffic on fixed and mobile networks





Instant messaging via apps has become the most important form of communication for personal messaging





DIALOG CONSULT^{GM}_{BH} Source: Bitkom, Cisco, Company information Chapter VII

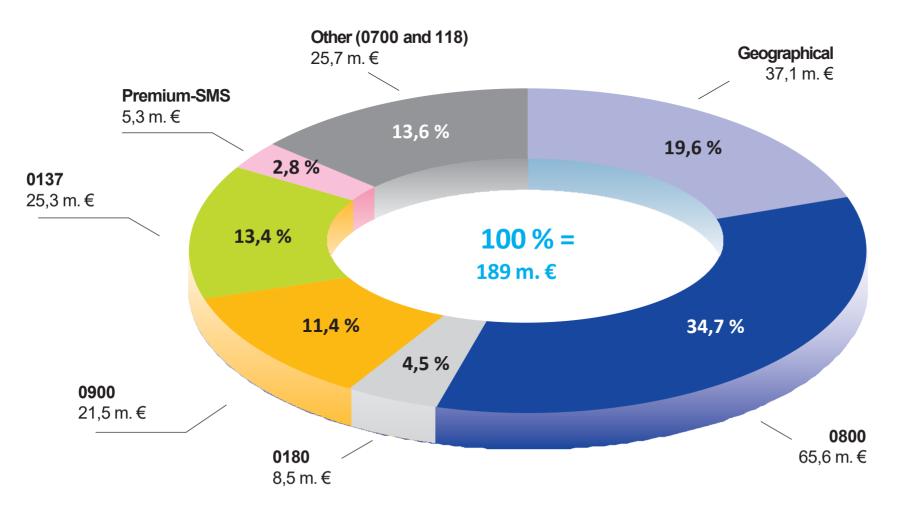
Digital services





Nearly 55 percent of revenue from service numbers comes from 0800 numbers, which are free for end customers, and geographic numbers.

Fig. 29: Competitors' revenues from service numbers, broken down by number ranges (Estimate for 2025)

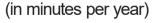


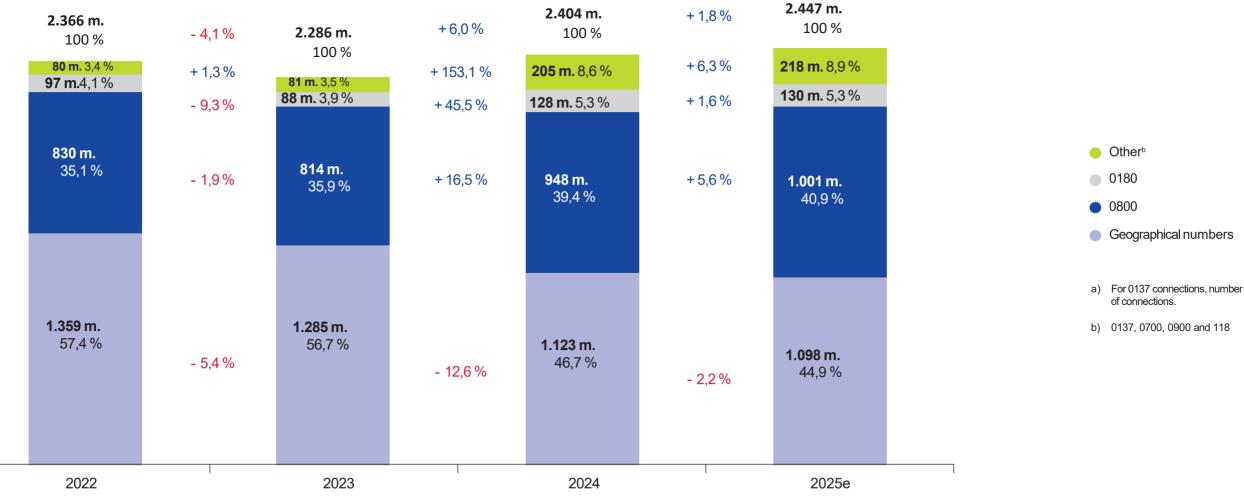




Demand for number-based services appears to have stabilised at a solid level, with minutes of use rising slightly and growing business applications helping to sustain the market

Fig. 30: Competitor minutes^a with service numbers by number type







Appendix





Background to the 26th TK Market Analysis Germany 2025

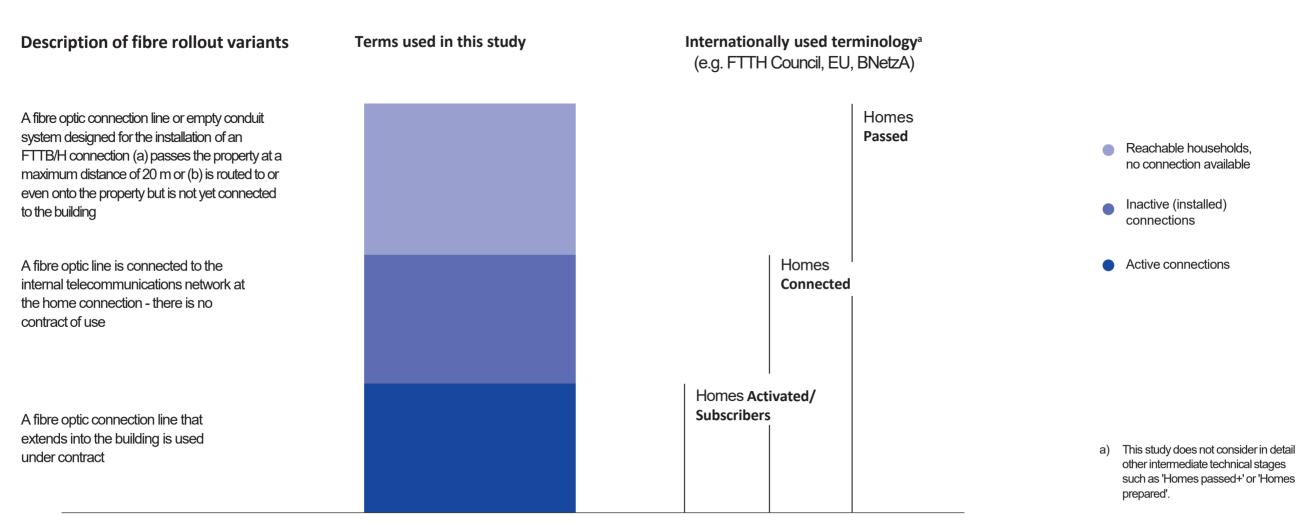
- The 26th TK Market Analysis Germany 2025 analyses the most important areas of the German telecommunications market
- The analysis is based on the evaluation of the following sources:
 - Written survey of VATM member companies and other major telecommunications network operators in February and March 2025
 - Company publications, financial reports and press releases
 - Publicly available studies (e.g. FTTH Council Europe, BNetzA)
 - Press articles and expert interviews
- Among competitors in the German telecommunications market, VATM member companies provide more than 85 per cent of fixedline connections and all mobile connections of all competitors
- VATM member companies account for more than 90 per cent of the capital expenditure of all competing companies
- Competing companies in the German telecommunications market generate more than 97 percent of mobile revenues and more than 90 percent of fixed-line revenues of all competing companies
- The companies' revenues include service revenues, inter-carrier revenues and revenues from hardware and content
- **Gigabit-capable connections** can technically offer downlink bandwidths of at least **1 Gbit/s** this includes HFC connections using the DOCSIS 3.1 standard and FTTB/H connections, but not (V)DSL and mobile connections
- A connection is considered gigabit-capable based on **its ability to deliver** speeds of at least 1Gbit/s, **regardless** whether customers actually subscribe to that bandwidth

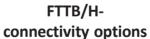




Definitions

Fig.: Definitions for the FTTB/H range



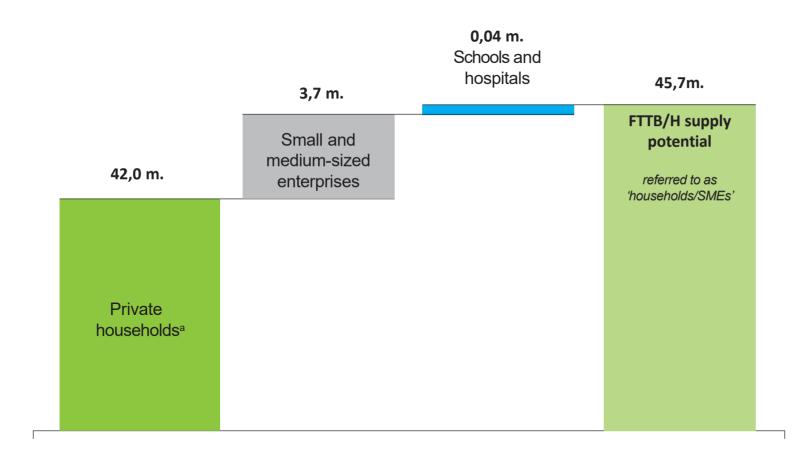






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FTTB/H supply potential



Explanation:

In addition to private households, small and medium-sized enterprises (SMEs), schools and hospitals are also potential customers for FTTB/H connections – large companies and public authorities are already supplied with dedicated fibre optic connections

a) Main and secondary residences





FTTB/H key figures (at the end of each year, in millions)

HP	6,0	8,9	13,0	16,9	21,1	24,8	
- Competitors	3,8	5,6	7,6	9,0	11,0	12,2	49,2%
- Telekom	2,2	3,3	5,4	7,9	10,1	12,6	50,8%
HP without HC	1,5	3,4	6,5	9,3	12,3	14,9	
- Competitors	0,5	1,8	3,0	3,7	5,3	6,1	
- Telekom	1,0	1,6	3,5	5,6	7,0	8,8	
НС	4,5	5,5	6,5	7,6	8,8	9,9	
- Competitors	3,3	3,8	4,6	5,3	5,7	6,1	61,6%
- Telekom	1,2	1,7	1,9	2,3	3,1	3,8	38,4%
HC without HA	2,6	2,9	3,1	3,4	3,6	3,8	
- Competitors	1,8	1,7	1,9	2,1	2,0	2,0	
- Telekom	0,8	1,2	1,2	1,3	1,6	1,8	
НА	1,9	2,6	3,4	4,2	5,2	6,1	
- Competitors	1,5	2,1	2,7	3,2	3,7	4,1	67,2%
- Telekom	0,4	0,5	0,7	1,0	1,5	2,0	32,8%
Availability rate HP	13,1%	19,5%	28,4%	37,0%	46,2%	54,3%	
Supply rate HC	9,8%	12,0%	14,2%	16,6%	19,3%	21,7%	
Take-up-Rate	31,7%	29,2%	26,2%	24,9%	24,6%	24,6%	
- Competitors	39,5%	37,5%	35,5%	35,6%	33,6%	33,6%	
- Telekom	18,2%	15,2%	13,0%	12,7%	14,9%	15,9%	
	2020	2021	2022	2023	2024	2025e	



WETTBEWERB VERBIND

List of abbreviations

NIPL	National Infrastructure Pipeline Locator
FMDT	Federal Ministry for Digital and Transport
BNetzA	Federal Network Agency for Electricity, Gas, Telecommunications, Post and Railway
BWA	Broadband Wireless Access
DOCSIS	Data Over Cable Service Interface Specification
е	estimated
EB	Exabyte
EU	European Union
EW	Einwohner (residents)
FTTB	Fiber-to-the-Building
FTTH	Fiber-to-the-Home
FTTC	Fiber-to-the-Curb
	(VDSL)

Gbit	Gigabit
GB	Gigabyte
HFC	Hybrid Fibre Coax
IM	Instant Messaging
SME	Small and Medium-sized Enterprises
LTE	Long Term Evolution
M2M	Machine-to-Machine
Mbit	Megabit
m.	million
b.	billion
MVNE/O	Mobile Virtual Network Enabler/Operator
VAT	Value Added Tax
OTT	Over-The-Top
NSA	Non stand alone (5G)
S	second

SA Stand alone (5G) SIM Subscriber Identity Module SMS Short Mesage Service LLU Local Loop Unbundling t thousand VDSL Very High Speed Digital Subscriber Line



