

## European fibre rollout closes in on major milestone

Both consumers and businesses moved increasingly online during the Covid-19 pandemic. With this shift came an even bigger appetite for bandwidth at home for video calls, streaming and gaming. In 2020, the fibre rollout moved towards a major milestone of offering superfast connections to half of all homes, adding a record 8.4 million subscribers



### Not quite halfway home

In Europe's Gigabit Society, full-fibre networks will play a major role. The rollout of fibre across the 27 EU countries plus the UK, however, shows big differences in the percentage of homes with fibre access, the number of subscribers and the penetration rates. In the year to September 2020, full-fibre broadband became available for an additional 16 million homes in Europe, an increase of almost 20% on the previous period. The increase refers to where fibre is available to households even if they do not subscribe.

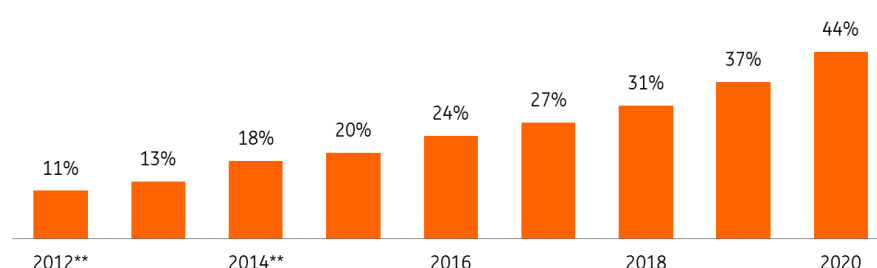
In 14 out of 28 European countries, 50% or more of all homes can be connected to fibre. As some of the bigger countries lag behind in rolling out fibre to the home (FTTH), only 44% of all European households can connect to fibre. However, if the current level of deployment is maintained, 2021 will see half of all households having access to full fibre.

## Altnets continued to drive rollout

The rollout in 2020 was again driven by alternative internet service providers (altnets), such as CityFibre and Deutsche Glasfaser, increasing their market share from 55% to 57% of homes. Incumbents now have a market share of 39% of homes that can be connected to fibre (without further installation of a substantial fibre optic cable plant). The trailing position of incumbents reflects the fact that most of them have to phase out their existing copper networks when deploying fibre.

## More and more households can access full fibre internet

Full fibre internet coverage rate of EU27 and UK households\*



Source: FTTH Council Europe \* homes passed as % of households \*\* per end of year, as of 2015 per September  
Note: FTTH Council Europe figures refer to both FTTH and FTTB

## UK and Germany trail in rolling out fibre

The state of FTTH rollout differs widely from country to country. The top five consist of both Nordic and Southern European countries. Latvia is in the lead with 92% of homes having access to full-fibre. Of the biggest countries, Spain leads the way (88%). The main reason for the quick fibre deployment in Spain has been the relatively low cost of deployment due to above-ground connections, the ability to use pre-existing physical infrastructure such as ducts, poles and manholes, and relatively low labour costs.

## Baltic countries lead full-fibre rollout

Top five and bottom five countries in ranking homes passed as a % of households

| Top 5     | Coverage rate | Bottom 5       | Coverage rate |
|-----------|---------------|----------------|---------------|
| Latvia    | 92%           | Austria        | 21%           |
| Lithuania | 90%           | Germany        | 16%           |
| Spain     | 88%           | United Kingdom | 15%           |
| Portugal  | 83%           | Greece         | 10%           |
| Sweden    | 81%           | Belgium        | 6%            |

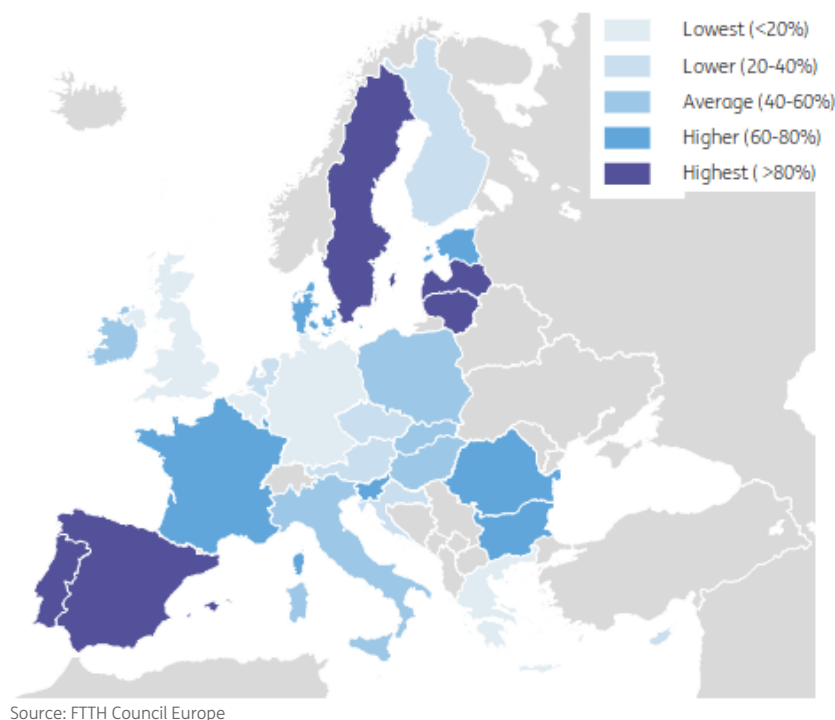
Source: FTTH Council Europe

Near the bottom of the rankings, we find Germany (16%), the UK (15%) and Belgium with less than 6% of homes connected to full-fibre broadband networks. The low rate of connected homes in

Germany and Belgium reflects widespread cable coverage and amongst other things, the high upfront costs to incumbents of deploying fibre networks, as existing infrastructure cannot easily be used and therefore new digging is required. In the UK, full-fibre rollout remains at a lower rate because of the earlier success of rolling out slower hybrid fibre.

## Fibre rollout across Europe shows diverse picture

Share of households that can access full-fibre internet

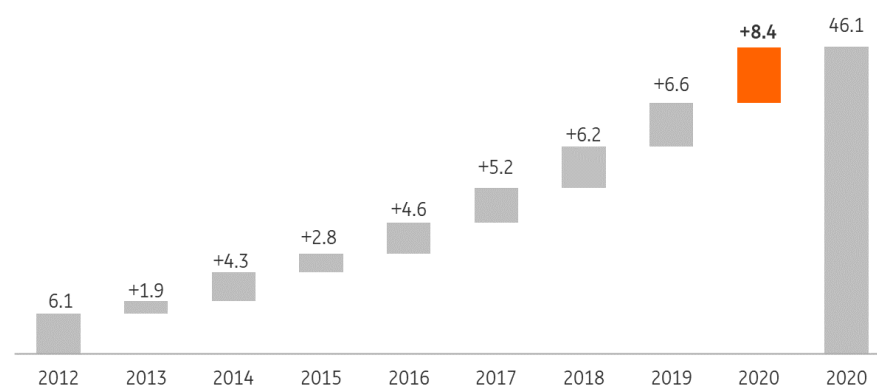


## More than eight million subscribers added

As of September 2020, Europe had some 46 million subscribers to full-fibre broadband, up 22% from the previous year. Partly driven by the pandemic, with working from home driving a need for stable, high bandwidth connections, fibre providers added a record 8.4 million additional subscribers. France and Spain show the biggest rise with 2.8 and 1.4 million subscribers added, respectively. Spain also has the highest number of subscriptions per 100 households: 63. With limited fibre deployment, Germany, the UK and Belgium also find themselves in the lower regions with five or fewer subscribers per 100 households.

## Highest growth in number of subscribers to fibre added in 2020

Overall number of subscribers and number of subscribers added



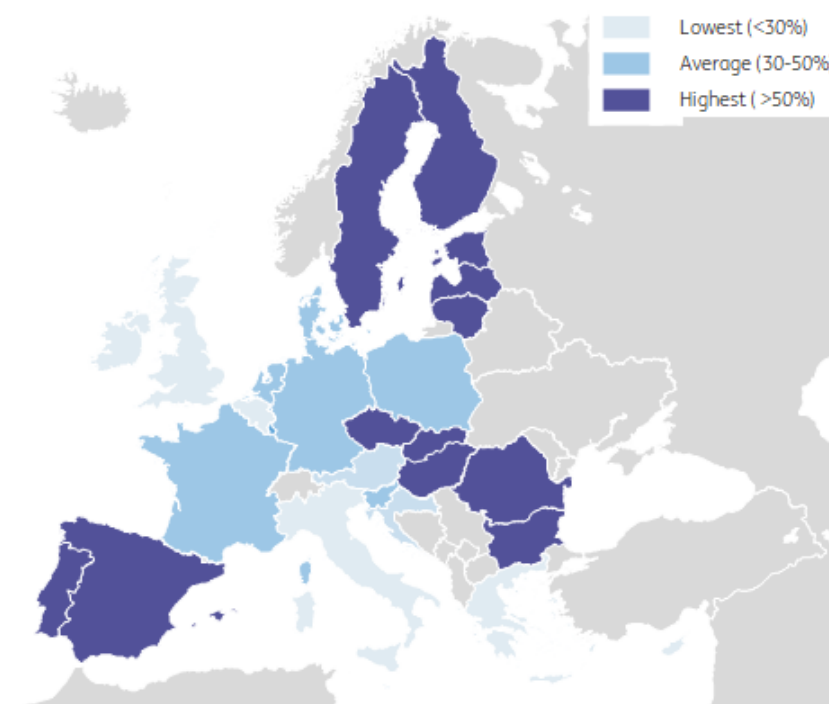
Source: FTTH Council Europe

## Take-up of fibre broadband moves towards 50%

Approximately 47% of all homes where access is offered subscribe to full-fibre broadband. This take-up rate has almost doubled since the end of 2012. Take-up also differs vastly between countries and is usually higher in countries where full-fibre has been around for a longer time and networks using intermediate technologies are (almost) absent. In Italy, only 14% of homes that can subscribe to full-fibre broadband actually do (with Spain and Portugal showing take up of 71% and 60%, respectively). Telecom Italia is replacing its hybrid fibre network with a limited number of clients switching to full-fibre. In Spain and Portugal, take-up was driven up by offering cross-subsidising bundles (quadruple-play; internet, TV, fixed telephony and mobile).

## Take-up rates highest in Nordic, Iberian and Central and Eastern European countries

Subscriptions to full fibre internet as a percentage of homes that can be connected (homes passed)



Source: FTTH Council Europe

## Future growth: expect more from incumbents

Multiple factors stimulate the further deployment of fibre networks in Europe. Infrastructure investors and pension funds are keen to invest in fibre, removing the investment limitations while governments stimulate further deployment.

National governments have their national broadband plans, while regional authorities also plan to lay fibre optic cables in remote areas. A fifth of the €672.5 billion EU Recovery and Resilience Facility (RRF) is directed to plans focused on improving digital capabilities, with a prominent role for fibre rollout. Take-up, meanwhile, is boosted by the desire for cloud access by companies and institutions and working from home, along with increased consumer demand for digital entertainment. Altnets have been driving fibre deployment across Europe in the past. In the current environment, however, incumbents are expected to pick up the pace in rolling out full-fibre to remain competitive. After all, more and more clients will want to benefit from the digital infrastructure of the future. Find out more about rollout plans in [this article](#).

### Author

**Amrita Naik Nimbalkar**

Junior Economist, Global Macro

[amrita.naik.nimbalkar@ing.com](mailto:amrita.naik.nimbalkar@ing.com)

**Mateusz Sutowicz**

Senior Economist, Poland

[mateusz.sutowicz@ing.pl](mailto:mateusz.sutowicz@ing.pl)

**Alissa Lefebre**

Economist

[alissa.lefebvre@ing.com](mailto:alissa.lefebvre@ing.com)

**Deepali Bhargava**

Regional Head of Research, Asia-Pacific

[Deepali.Bhargava@ing.com](mailto:Deepali.Bhargava@ing.com)

**Ruben Dewitte**

Economist

+32495364780

[ruben.dewitte@ing.com](mailto:ruben.dewitte@ing.com)

**Kinga Havasi**

Economic research trainee

[kinga.havasi@ing.com](mailto:kinga.havasi@ing.com)

**Marten van Garderen**

Consumer Economist, Netherlands

[marten.van.garderen@ing.com](mailto:marten.van.garderen@ing.com)

**David Havrlant**

Chief Economist, Czech Republic

420 770 321 486

[david.havrlant@ing.com](mailto:david.havrlant@ing.com)

**Sander Burgers**

Senior Economist, Dutch Housing

[sander.burgers@ing.com](mailto:sander.burgers@ing.com)

**Lynn Song**

Chief Economist, Greater China

[lynn.song@asia.ing.com](mailto:lynn.song@asia.ing.com)

**Michiel Tukker**

Senior European Rates Strategist

[michieltukker@ing.com](mailto:michieltukker@ing.com)

**Michal Rubaszek**

Senior Economist, Poland

[michal.rubaszek@ing.pl](mailto:michal.rubaszek@ing.pl)

**This is a test author**

**Stefan Posea**

Economist, Romania

[tiberiu-stefan.posea@ing.com](mailto:tiberiu-stefan.posea@ing.com)

**Marine Leleux**

Sector Strategist, Financials

[marine.leleux2@ing.com](mailto:marine.leleux2@ing.com)

**Jesse Norcross**

Senior Sector Strategist, Real Estate

[jesse.norcross@ing.com](mailto:jesse.norcross@ing.com)

**Teise Stellema**

Research Assistant, Energy Transition

[teise.stellema@ing.com](mailto:teise.stellema@ing.com)

**Diederik Stadig**

Sector Economist, TMT & Healthcare

[diederik.stadig@ing.com](mailto:diederik.stadig@ing.com)

**Diogo Gouveia**

Sector Economist

[diogo.duarte.vieira.de.gouveia@ing.com](mailto:diogo.duarte.vieira.de.gouveia@ing.com)

**Marine Leleux**

Sector Strategist, Financials

[marine.leleux2@ing.com](mailto:marine.leleux2@ing.com)

**Ewa Manthey**

Commodities Strategist

[ewa.manthey@ing.com](mailto:ewa.manthey@ing.com)

**ING Analysts**

**James Wilson**

EM Sovereign Strategist

[James.wilson@ing.com](mailto:James.wilson@ing.com)

**Sophie Smith**

Digital Editor

[sophie.smith@ing.com](mailto:sophie.smith@ing.com)

**Frantisek Taborsky**

EMEA FX & FI Strategist

[frantisek.taborsky@ing.com](mailto:frantisek.taborsky@ing.com)

**Adam Antoniak**

Senior Economist, Poland  
[adam.antoniak@ing.pl](mailto:adam.antoniak@ing.pl)

**Min Joo Kang**  
Senior Economist, South Korea and Japan  
[min.joo.kang@asia.ing.com](mailto:min.joo.kang@asia.ing.com)

**Coco Zhang**  
ESG Research  
[coco.zhang@ing.com](mailto:coco.zhang@ing.com)

**Jan Frederik Slijkerman**  
Senior Sector Strategist, TMT  
[jan.frederik.slijkerman@ing.com](mailto:jan.frederik.slijkerman@ing.com)

**Katinka Jongkind**  
Senior Economist, Services and Leisure  
[Katinka.Jongkind@ing.com](mailto:Katinka.Jongkind@ing.com)

**Marina Le Blanc**  
Sector Strategist, Financials  
[Marina.Le.Blanc@ing.com](mailto:Marina.Le.Blanc@ing.com)

**Samuel Abettan**  
Junior Economist  
[samuel.abettan@ing.com](mailto:samuel.abettan@ing.com)

**Franziska Biehl**  
Senior Economist, Germany  
[Franziska.Marie.Biehl@ing.de](mailto:Franziska.Marie.Biehl@ing.de)

**Rebecca Byrne**  
Senior Editor and Supervisory Analyst  
[rebecca.byrne@ing.com](mailto:rebecca.byrne@ing.com)

**Mirjam Bani**  
Sector Economist, Commercial Real Estate & Public Sector (Netherlands)  
[mirjam.bani@ing.com](mailto:mirjam.bani@ing.com)

**Timothy Rahill**  
Credit Strategist  
[timothy.rahill@ing.com](mailto:timothy.rahill@ing.com)

**Leszek Kasek**  
Senior Economist, Poland  
[leszek.kasek@ing.pl](mailto:leszek.kasek@ing.pl)

**Oleksiy Soroka, CFA**

Senior High Yield Credit Strategist  
[oleksiy.soroka@ing.com](mailto:oleksiy.soroka@ing.com)

**Antoine Bouvet**  
Head of European Rates Strategy  
[antoine.bouvet@ing.com](mailto:antoine.bouvet@ing.com)

**Jeroen van den Broek**  
Global Head of Sector Research  
[jeroen.van.den.broek@ing.com](mailto:jeroen.van.den.broek@ing.com)

**Edse Dantuma**  
Senior Sector Economist, Industry and Healthcare  
[edse.dantuma@ing.com](mailto:edse.dantuma@ing.com)

**Francesco Pesole**  
FX Strategist  
[francesco.pesole@ing.com](mailto:francesco.pesole@ing.com)

**Rico Luman**  
Senior Sector Economist, Transport and Logistics  
[Rico.Luman@ing.com](mailto:Rico.Luman@ing.com)

**Jurjen Witteveen**  
Sector Economist  
[jurjen.witteveen@ing.com](mailto:jurjen.witteveen@ing.com)

**Dmitry Dolgin**  
Chief Economist, CIS  
[dmitry.dolgin@ing.de](mailto:dmitry.dolgin@ing.de)

**Nicholas Mapa**  
Senior Economist, Philippines  
[nicholas.antonio.mapa@asia.ing.com](mailto:nicholas.antonio.mapa@asia.ing.com)

**Egor Fedorov**  
Senior Credit Analyst  
[egor.fedorov@ing.com](mailto:egor.fedorov@ing.com)

**Sebastian Franke**  
Consumer Economist  
[sebastian.franke@ing.de](mailto:sebastian.franke@ing.de)

**Gerben Hieminga**  
Senior Sector Economist, Energy  
[gerben.hieminga@ing.com](mailto:gerben.hieminga@ing.com)

**Nadège Tillier**

Head of Corporates Sector Strategy  
[nadege.tillier@ing.com](mailto:nadege.tillier@ing.com)

**Charlotte de Montpellier**  
Senior Economist, France and Switzerland  
[charlotte.de.montpellier@ing.com](mailto:charlotte.de.montpellier@ing.com)

**Laura Straeter**  
Behavioural Scientist  
+31(0)611172684  
[laura.Straeter@ing.com](mailto:laura.Straeter@ing.com)

**Valentin Tataru**  
Chief Economist, Romania  
[valentin.tataru@ing.com](mailto:valentin.tataru@ing.com)

**James Smith**  
Developed Markets Economist, UK  
[james.smith@ing.com](mailto:james.smith@ing.com)

**Suvi Platerink Kosonen**  
Senior Sector Strategist, Financials  
[suvi.platerink-kosonen@ing.com](mailto:suvi.platerink-kosonen@ing.com)

**Thijs Geijer**  
Senior Sector Economist, Food & Agri  
[thijs.geijer@ing.com](mailto:thijs.geijer@ing.com)

**Maurice van Sante**  
Senior Economist Construction & Team Lead Sectors  
[maurice.van.sante@ing.com](mailto:maurice.van.sante@ing.com)

**Marcel Klok**  
Senior Economist, Netherlands  
[marcel.klok@ing.com](mailto:marcel.klok@ing.com)

**Piotr Poplawski**  
Senior Economist, Poland  
[piotr.poplawski@ing.pl](mailto:piotr.poplawski@ing.pl)

**Paolo Pizzoli**  
Senior Economist, Italy, Greece  
[paolo.pizzoli@ing.com](mailto:paolo.pizzoli@ing.com)

**Marieke Blom**  
Chief Economist and Global Head of Research  
[marieke.blom@ing.com](mailto:marieke.blom@ing.com)

**Raoul Leering**

Senior Macro Economist

[raoul.leering@ing.com](mailto:raoul.leering@ing.com)

**Maarten Leen**

Head of Global IFRS9 ME Scenarios

[maarten.leen@ing.com](mailto:maarten.leen@ing.com)

**Maureen Schuller**

Head of Financials Sector Strategy

[Maureen.Schuller@ing.com](mailto:Maureen.Schuller@ing.com)

**Warren Patterson**

Head of Commodities Strategy

[Warren.Patterson@asia.ing.com](mailto:Warren.Patterson@asia.ing.com)

**Rafal Benecki**

Chief Economist, Poland

[rafal.benecki@ing.pl](mailto:rafal.benecki@ing.pl)

**Philippe Ledent**

Senior Economist, Belgium, Luxembourg

[philippe.ledent@ing.com](mailto:philippe.ledent@ing.com)

**Peter Virovacz**

Senior Economist, Hungary

[peter.virovacz@ing.com](mailto:peter.virovacz@ing.com)

**Inga Fechner**

Senior Economist, Germany, Global Trade

[inga.fechner@ing.de](mailto:inga.fechner@ing.de)

**Dimitry Fleming**

Senior Data Analyst, Netherlands

[Dimitry.Fleming@ing.com](mailto:Dimitry.Fleming@ing.com)

**Ciprian Dascalu**

Chief Economist, Romania

+40 31 406 8990

[ciprian.dascalu@ing.com](mailto:ciprian.dascalu@ing.com)

**Muhammet Mercan**

Chief Economist, Turkey

[muhammet.mercan@ingbank.com.tr](mailto:muhammet.mercan@ingbank.com.tr)

**Iris Pang**

Chief Economist, Greater China

[iris.pang@asia.ing.com](mailto:iris.pang@asia.ing.com)

**Sophie Freeman**

Writer, Group Research

+44 20 7767 6209

[Sophie.Freeman@uk.ing.com](mailto:Sophie.Freeman@uk.ing.com)

**Padhraic Garvey, CFA**

Regional Head of Research, Americas

[padhraic.garvey@ing.com](mailto:padhraic.garvey@ing.com)

**James Knightley**

Chief International Economist, US

[james.knightley@ing.com](mailto:james.knightley@ing.com)

**Tim Condon**

Asia Chief Economist

+65 6232-6020

**Martin van Vliet**

Senior Interest Rate Strategist

+31 20 563 8801

[martin.van.vliet@ing.com](mailto:martin.van.vliet@ing.com)

**Karol Pogorzelski**

Senior Economist, Poland

[Karol.Pogorzelski@ing.pl](mailto:Karol.Pogorzelski@ing.pl)

**Carsten Brzeski**

Global Head of Macro

[carsten.brzeski@ing.de](mailto:carsten.brzeski@ing.de)

**Viraj Patel**

Foreign Exchange Strategist

+44 20 7767 6405

[viraj.patel@ing.com](mailto:viraj.patel@ing.com)

**Owen Thomas**

Global Head of Editorial Content

+44 (0) 207 767 5331

[owen.thomas@ing.com](mailto:owen.thomas@ing.com)

**Bert Colijn**

Chief Economist, Netherlands

[bert.colijn@ing.com](mailto:bert.colijn@ing.com)

**Peter Vanden Houte**

Chief Economist, Belgium, Luxembourg, Eurozone

[peter.vandenhoute@ing.com](mailto:peter.vandenhoute@ing.com)

**Benjamin Schroeder**

Senior Rates Strategist

[benjamin.schroeder@ing.com](mailto:benjamin.schroeder@ing.com)

**Chris Turner**

Global Head of Markets and Regional Head of Research for UK & CEE

[chris.turner@ing.com](mailto:chris.turner@ing.com)

**Gustavo Rangel**

Chief Economist, LATAM

+1 646 424 6464

[gustavo.rangel@ing.com](mailto:gustavo.rangel@ing.com)

**Carlo Cocuzzo**

Economist, Digital Finance

+44 20 7767 5306

[carlo.cocuzzo@ing.com](mailto:carlo.cocuzzo@ing.com)