

## Broadband in Luxembourg

The development of a communication infrastructure with a target of gigabit broadband access throughout the country is one of the priorities in the governmental programme of Luxembourg.

### Summary of broadband development in Luxembourg

Broadband coverage already reaches almost 100% and Luxembourg is among the European leaders in terms of broadband coverage and penetration. The national broadband plan aims for networks with ultra-high-speed rates of 1 Gbps download and 500 Mbps upload for 100% of the population in 2020. A 5G taskforce and strategy was established to keep Luxembourg at the forefront of connectivity.

### National broadband strategy and policy

#### Responsible authorities

- The Department of Media, Telecommunications and Digital Policy (Service des Médias, des Communications et du Numérique) of the Ministry of State (Ministère d'Etat) is in charge of broadband strategy, its coordination as well as implementation in Luxembourg.
- Digital Luxembourg, an initiative of the Ministry of State, is the uniting force and collaborative government initiative that strengthens and guides digital developments in Luxembourg.
- The Luxembourg Regulation Institute (Institut Luxembourgeois de Régulation) acts as the NRA with explicit regulatory mission for safeguarding market competition.

#### Main aims for broadband development

The national strategy for very high-speed networks is being implemented since April 2010 with targets for 2020. Luxembourg's broadband deployment follows the fibre based technology and especially the FTTH networks. Besides the target of full coverage of 1 Gbps download and 500 Mbps upload connections by 2020, objectives are to connect all public administrations, academic institutions and research centres to high-speed broadband as soon as possible and to create economic activity zones connected to high-speed broadband.

The national policy framework is based on the European electronic communications policy framework, which aims at fostering competition among networks. Mobile and satellite networks will continue to play an important role in moving towards full coverage of high-speed broadband infrastructure.

A 5G taskforce was established to keep Luxembourg at the forefront of connectivity. 5G was launched by Post Luxembourg, Orange and Tango in October 2020. Testing of 5G technology is currently underway, but full commercial deployment is unlikely before 2022. Luxembourg has drafted a 5G Strategy.

## **Main measures for broadband development**

- Broadband mapping: the government has developed a Broadband service mapping tool that shows the level of broadband coverage for each municipality in Luxembourg. The map is based on fixed network operators' data (Docsis, VDSL and Fibre). Coverage is indicated for each of the three target levels of Luxembourg's national strategy for very high speed networks (30 Mbps, 100 Mbps, 1 Gbps). Another important tool developed by the government is the National Road Works Register. This register contains all the applications for road and roadside permits, which have been submitted by businesses. It also contains information concerning public infrastructure works planned by communes and public administrators on telecommunications, gas, electricity and water networks, etc.
- Other measures:
  - Introduction of an obligation to provide reception infrastructure for fibre optic (municipalities have been asked to make reception infrastructure compulsory),
  - Introduction of an obligation to provide high speed broadband-ready in-house cabling in new dwellings (appropriate in-house cabling is compulsory for all newly constructed buildings, and already existing multi-dwelling buildings in the event of major renovation works, for which applications for building permits have been submitted after 31 December 2016),
  - Access of alternative operators to the network of the incumbent.

## **Data on broadband development and technologies in Luxembourg**

For the latest data on broadband coverage, subscriptions and penetrations, coverage of different broadband technologies and costs check the scoreboard reports and the country reports of the Digital Economy & Society Index (DESI).

## **Spectrum assignments for wireless broadband**

For details on harmonised spectrum assignments consult the European 5G Observatory.

## **National publications and press documents**

- National strategy for very high-speed networks
- Luxembourg's 5G Strategy
- Broadband service mapping system (GEOPORTAIL.LU)
- Carte de la couverture Internet ultra-haut débit
- National Road Works Register
- Study on National Broadband Plans in the EU-28
- Broadband Connectivity Reports and Analyses
- Guide to High-Speed Broadband Investment
- Mobile and fixed broadband prices in Europe at the end of 2019
- Study on broadband coverage in Europe 2019

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## **Related Content**

### **Big Picture**

Broadband in EU countries

Find current information on broadband development in each country, as well as national strategies and policies for developing broadband.

### **See Also**

Broadband in Sweden

Sweden's national broadband plan, adopted in 2016, has the vision of an entirely connected Sweden and has goals for both mobile coverage and for high-speed broadband connections for households and businesses. By 2020, 95% of all households and companies should have access to...

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Broadband in Spain

Digital connectivity and 5G rollout are among the ten strategic priorities of the Spain Digital 2025 Agenda.

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Broadband in Slovenia

Slovenia's broadband aims are in line with the gigabit society targets.

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#### Broadband in Slovakia

Slovakia has set the long-term objective of achieving access to high-speed internet connection with at least 30 Mbps for all households by the end of 2020.

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#### Broadband in Romania

Romania's broadband plan focuses on building up a national broadband network as a first step towards achieving the targets set by the Digital Agenda for Europe.

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#### Broadband in Portugal

Portugal's NGA coverage is slightly below EU average. The Agenda Portugal Digital aims at development of a digital infrastructure that allows citizens to take advantage of the new opportunities offered by technologies.

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#### Broadband in Poland

Poland's national broadband plan foresees that 100% of households should have access to internet connectivity of at least 30 Mbps by 2020. 50% of households should have internet connectivity of 100 Mbps by 2020.

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#### Broadband in the Netherlands

The Dutch government supports the Gigabit Society targets. All households should have the opportunity to access broadband networks of at least 100 Mbps and a vast majority should be taking advantage of 1 Gbps by 2023. Mobile networks must also be able to access basic services at...

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#### Broadband in Malta

Malta's broadband policy is technology neutral and favours a competitive market environment.

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#### Broadband in Lithuania

Lithuania's Next Generation Internet Access Development Plan focuses on direct state contribution to long-term infrastructure development, supports measures promoting private sector investments and seeks to foster an increase in demand for fast broadband access.

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#### Broadband in Latvia

Broadband facilitates the development of e-services for government, schools, commerce, health and business besides providing high-speed internet to residents, businesses and public administrations in Latvia.

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#### Broadband in Italy

The Italian strategy for next generation access network aims at developing a high-speed access network to maximise the take-up of an infrastructure able to guarantee services of 100 Mbps for at least 85% of households by 2020. Italy adopted a national state aid scheme to support...

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#### Broadband in Ireland

The national broadband plan for Ireland foresees that by 2026 all premises in Ireland will have access to high-speed broadband.

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#### Broadband in Hungary

Hungary's National Digitization Strategy 2021-2030 aims at 95% of households covered by gigabit networks by 2030.

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#### Broadband in Greece

The Greek Digital Transformation Bible 2020-2025 highlights connectivity as one of the five strategic axes and acknowledges the Gigabit Society 2025 targets.

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#### Broadband in Germany

The 2018 coalition agreement of the German Federal Government identifies the priority goal of a nationwide expansion of gigabit networks by 2025. The federal government has also developed a 5G Strategy for Germany.

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#### Broadband in France

The national broadband programme France Très Haut Débit sets out the targets of fast broadband access for all households by 2022 and fibre for all by 2025.

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#### Broadband in Finland

The Finnish authorities go for a competition-driven, fibre-based network roll-out assisted by public funds for underserved areas and advice for local municipalities on how to deploy broadband networks.

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## Broadband in Estonia

Estonia has established basic broadband coverage throughout the country, and has brought its broadband targets for 2020 in line with those of the Digital Agenda for Europe.

## Broadband in Denmark

A number of political initiatives aiming at nation-wide fixed and mobile broadband coverage support Danish broadband goals. The Government works towards making Denmark a digital frontrunner by creating a foundation for Danish businesses to exploit digital technologies.

## Broadband in the Czech Republic

The National Plan for the Development of Very High Capacity Networks, approved in March 2021, defines the strategic approach of the Czech Republic to the construction of VHCN.

## Broadband in Cyprus

Cyprus' broadband plan sets strategic objectives for 2016-2020 and is aligned with the Gigabit Society objectives and the 5G Action Plan. It aims at Internet coverage with at least 30 Mbps for all households and businesses by 2020. In order to achieve the 2020 take-up target of...

## Broadband in Croatia

Croatia's strategy contains basic principles such as service and technological neutrality, net neutrality and inclusion of broadband internet access among universal services.

## Broadband in Bulgaria

The National Broadband Infrastructure Plan for Next Generation Access "Connected Bulgaria" and the Policy in the field of electronic communications have been updated and adopted in August 2020.

## Broadband in Belgium

Belgium's broadband strategy is incorporated into a broader policy strategy "Digital Belgium 2015-2020". The aim is to provide speeds of up to 1 Gbps to half of the country by 2020 and to facilitate a proactive 5G roll-out. By lowering costs and reducing administrative burdens...

## Broadband in Austria

Austria's broadband strategy focuses on the nationwide supply of Gigabit connections by 2030. By the end of 2025, almost nationwide availability of 5G should have been realised.

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