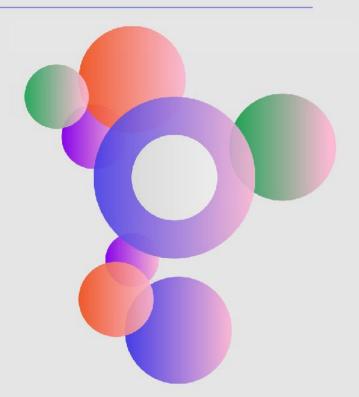
The Digital Divide in the City of Barcelona. 2020



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01

BIT HABITAT

BIT Habitat is a municipal foundation that works to promote **urban innovation** in Barcelona in **different dimensions** and through **collaboration** between different stakeholders in order to:

- 1. address the main **urban challenges** that the city has to face
- 2. improve the **quality** of **life** of citizens, having a **safer** city, more **resilient** and **sustainable**

Ca l'Alier, Urban Innovation Center of Barcelona managed by BIT Habitat



To achieve these goals, our scope of work focuses on 4 main lines:



TRANSFORMATION

MAKE CHANGE POSSIBLE



EDUCATION

GROWING THE CITIZEN OF THE FUTURE



DIVULGATIONMAKE KNOWN / INFORM

Information, knowledge dissemination, awareness raising and critical thinking about **urban innovation** and the relationship between **city**, **society** and **technology**.





02

DIGITAL DIVIDE



REPORT

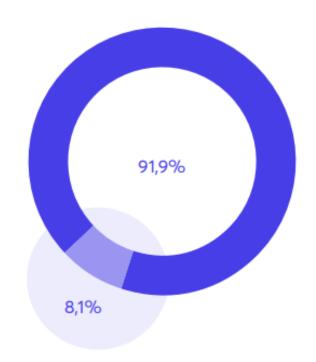
In autumn 2020, Barcelona City Council carried out a survey among **2.542 city residents** to analyse the digital divide in the city and the impact of the pandemic on the use of information and communication technologies (ICTs).

AIMS

- To assess the evolution of the digital divide since last available survey (2016)
- To analyse how the lockdown caused by the Covid 19 crisis has changed behaviour in the use of ICT



02.1. ACCESS



Base N: 2.542 people

- Most part of homes are connected to internet (91,9 %)
- Only 8,1 % of homes are not connected to internet and this percentage is mainly made up of people over the age of 74 (55 %)
- Digital divide has narrowed significantly in Barcelona in the last four years: + 10 points more today than in 2016



64,3 %

two thirds of the people without an internet connection state that they do not have internet because they do not use it or they don't know how to use it.

12,2 %

of the people without an internet connection state that they cannot afford it. It means only 1% of all surveyed do not have internet access for economic issues.



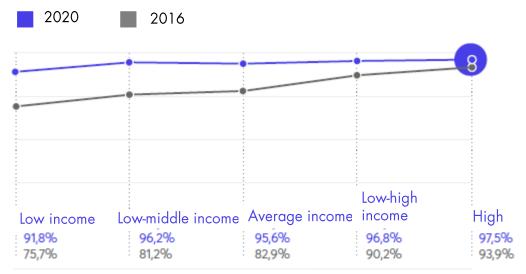
02.1. : ACCESS

However, the narrowing of the digital divide still shows some pre-existing factors which continue conditioning the type of access and use of ICTs:

- Income
- Educational level
- Employment situation
- Age



02.1.: ACCESS_INCOME

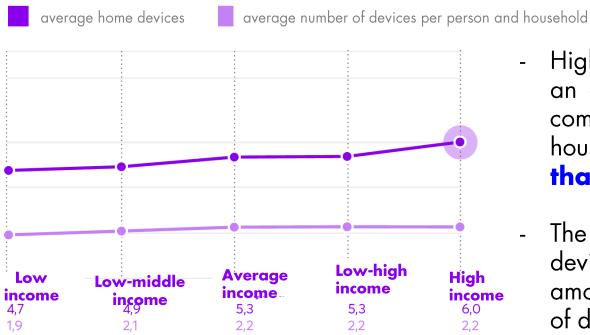


Population aged 16 to 74 years N = 2208

The degree of internet access among low-income households has increased from 75,7% to 91,8% in last 4 years, reducing the gap with high-income households to just 6 percentage points.



02.1.: ACCESS_ INCOME (DEVICES)

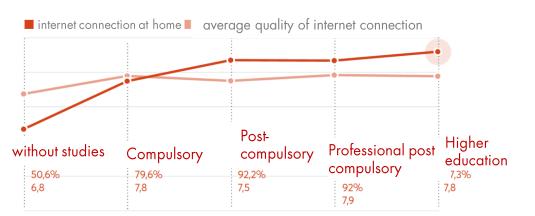


- High-income households have an average of 6 devices, in comparison with low-income households which have less than 5.
 - The distribution of touchscreen devices is more balanced among the population than that of devices with a keyboard.

Base: There is a smartphone, laptop, tablet and / or desktop computer in the home. N=2433

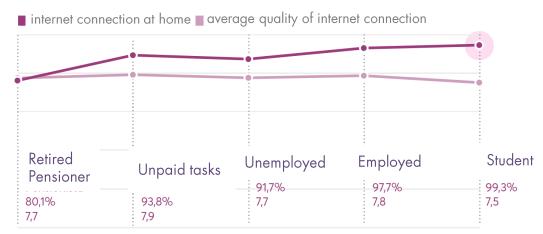


02.1.: ACCESS_ STUDIES AND EMPLOYMENT SITUATION



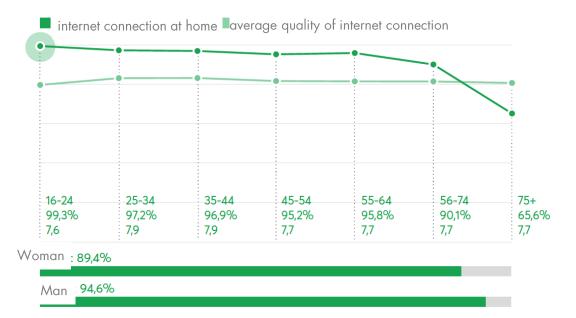
People with a university degree have a higher level of connection (97.3%) than those without studies (50.6%).

Students (99,3 %) and employed people (97,7%) are more connected than retired or pensioner people (80,1 %).



Base: there is internet connection in the home N=2334

02.1. : ACCESS_ **AGE**

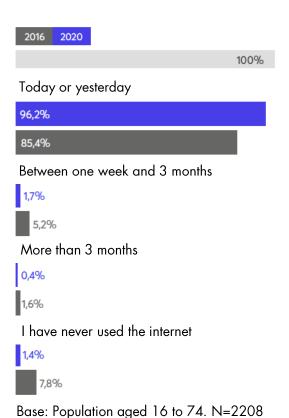


99.3% of young people between the ages of 16 and 24 live in a connected home, while only 65.6% of those over the age of 75 are connected.

Base: there is internet connection in the home N=2334

02.2. USE

LAST TIME THE INTERNET WAS USED



96.2% of people between the ages of 16 and 74 claim to have connected to the internet in the last 24 hours:

11 points more than 4 years ago.



02.2. USE

MOST COMMON ACTIVITIES

2016:

- E-mail
- News
- · Social Media



2020:

- Instant messaging (not foreseen in the 2016)
- E-mail



MOST INTENSIFIED ACTIVITIES

2016 - 2020

- Online courses (13,5 to 48,8 %)
- Health consultations (35,4 to 70,2 %)
- Administration Procedures (42 to 75,6 %)
- Purchase and sale of goods and services (53,6 to 76,2 %)



The health emergency has increased the use of ICT by 62%.

Remote work

58.3% of the employed population has been able to carry out their work from home during this period.

Distance education

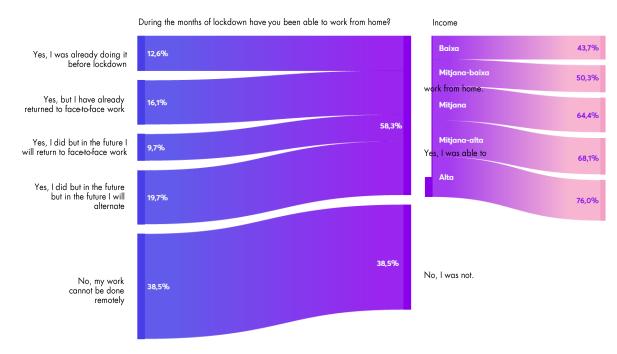
73.2% of school-aged children under 16 have been able to follow their studies during lockdown.

E-Government procedures

75.6% of the population (16-74 years) who have connected in the last 3 months have done a digital procedure.

02.3. THE IMPACT OF COVID 19

Remote work



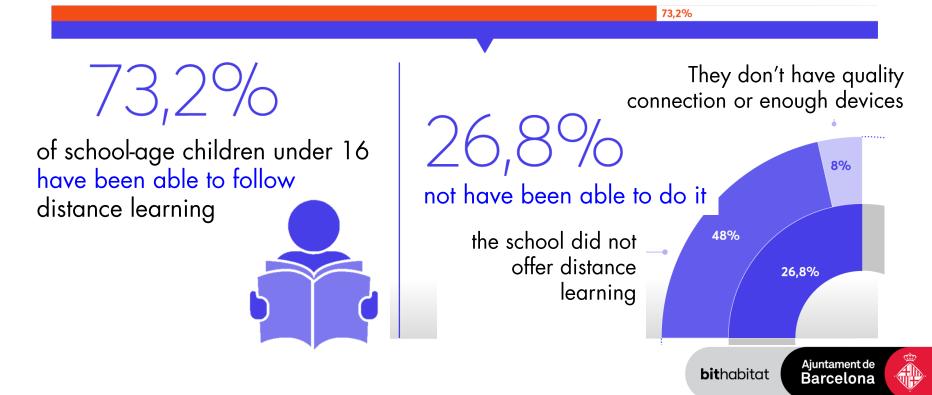
58.3% of the population have been able to work from home during the months of lockdown.

The remote work shows high differences between low (43,7 %) and high income areas (76 %).

Base: Employed. N=1300



Distance education



Distance education

REASONS WHY ONLINE EDUCATION COULD NOT BE FOLLOWED DURING LOCKDOWN

The school has not offered online education.

48,4%

The child is too young.

23,6%

We don't have time to help our kids.

11,8%

We don't have enough devices.

9,3%

We do not have the necessary training.

7,4%

We don't have a good connection.

7,1%

Other answers.

10,2%

In low-income households, those families who have not been able to follow online education point that they do not have the enough devices, quality connection or training.

High-income households claim that the school did not offer online education or that they did not have time to follow up their children.

Base: They were unable to continue their education. N=161



Procedures with e-administration

The situation of lockdown and the socio-sanitary crisis have generated an increase in procedures through e-government.

People carrying out electronic procedures

75% mid or high-income areas

63,7% low-income areas

The most vulnerable groups have been particularly affected by this new situation in which urgent needs have emerged.



Open access to the report



The report and the survey results can be viewed openly and permanently in the following places (available in Catalan and Spanish):

- The report is available on the website for BIT Habitat (bithabitat.barcelona/ bretxadigitalbarcelona)
- The data are available on Open Data BCN (<u>opendata-ajuntament.barcelona.cat</u>)
- The tables are available on the website for Statistics and Dissemination of Data (bcn.cat/ estadistica)

Thank you very much

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