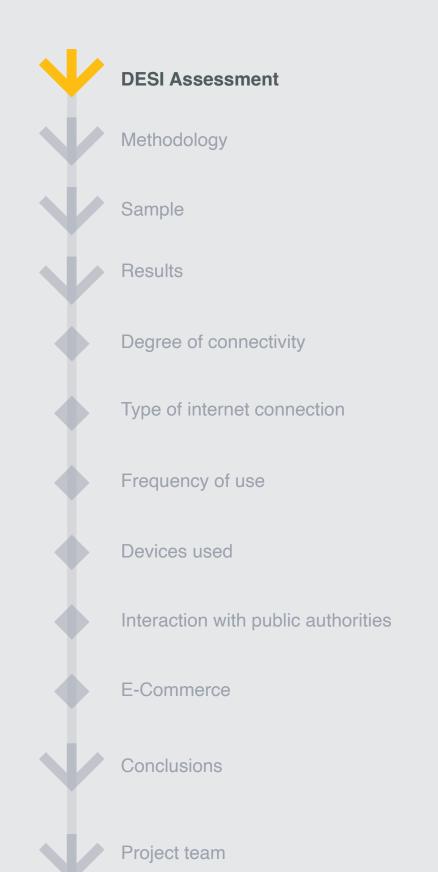


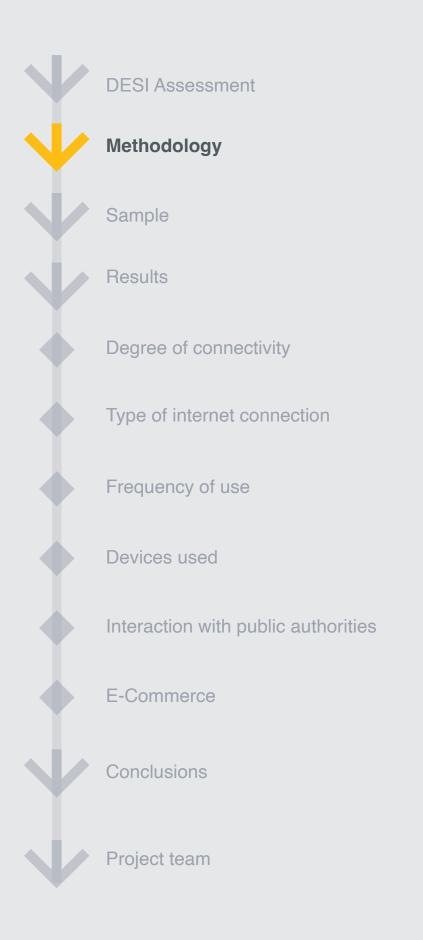
Assessment of the Digital Economy and Society Index (DESI)



- Identify the degree of connectivity at the level of Timişoara Municipality (Q23-Q24)
- Identify the frequency of the use of internet at the level of Timișoara Municipality (Q25-Q28)
- Identify the degree of on-line interaction with public authorities (Q29-Q30)
- Identify the behavior in terms of use of e-commerce (Q31-Q33)



Methodology



Research method:

public opinion survey

Investigated universe:

Persons of age 18+ from Timișoara Municipality

Volume of the sample:

1,413 persons

Means to collect data:

telephone, face2face, on-line.

Margin of error:

+/- 2,6%

Confidence interval:

95%

Period of data collection:

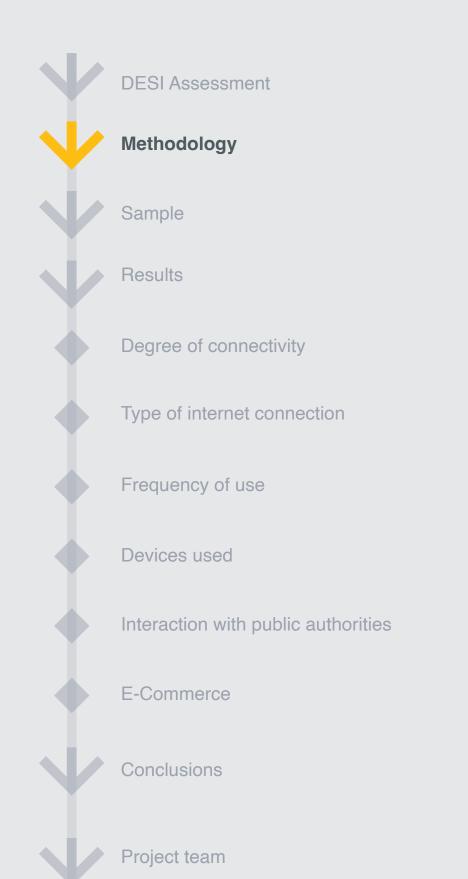
November 20, 2021 – January 23, 2022

Type of sample:

Stratified sampling, depending on gender and age

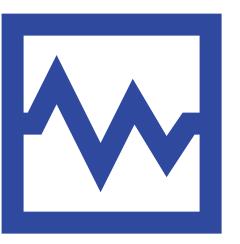


Methodology Principles of the analysis

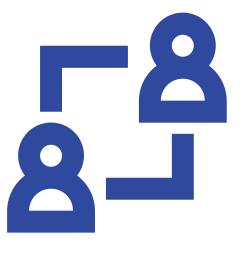




Reporting the value for each dimension



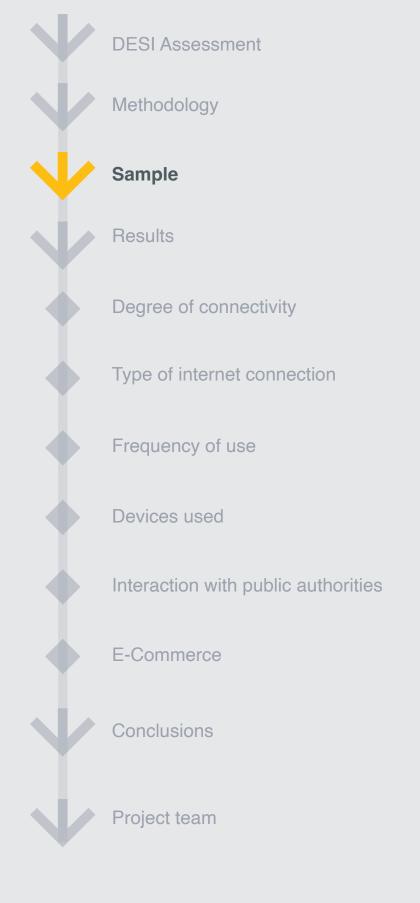
Comparing the resulting values with DESI – EU and Romania, EU urban areas and Romanian urban areas

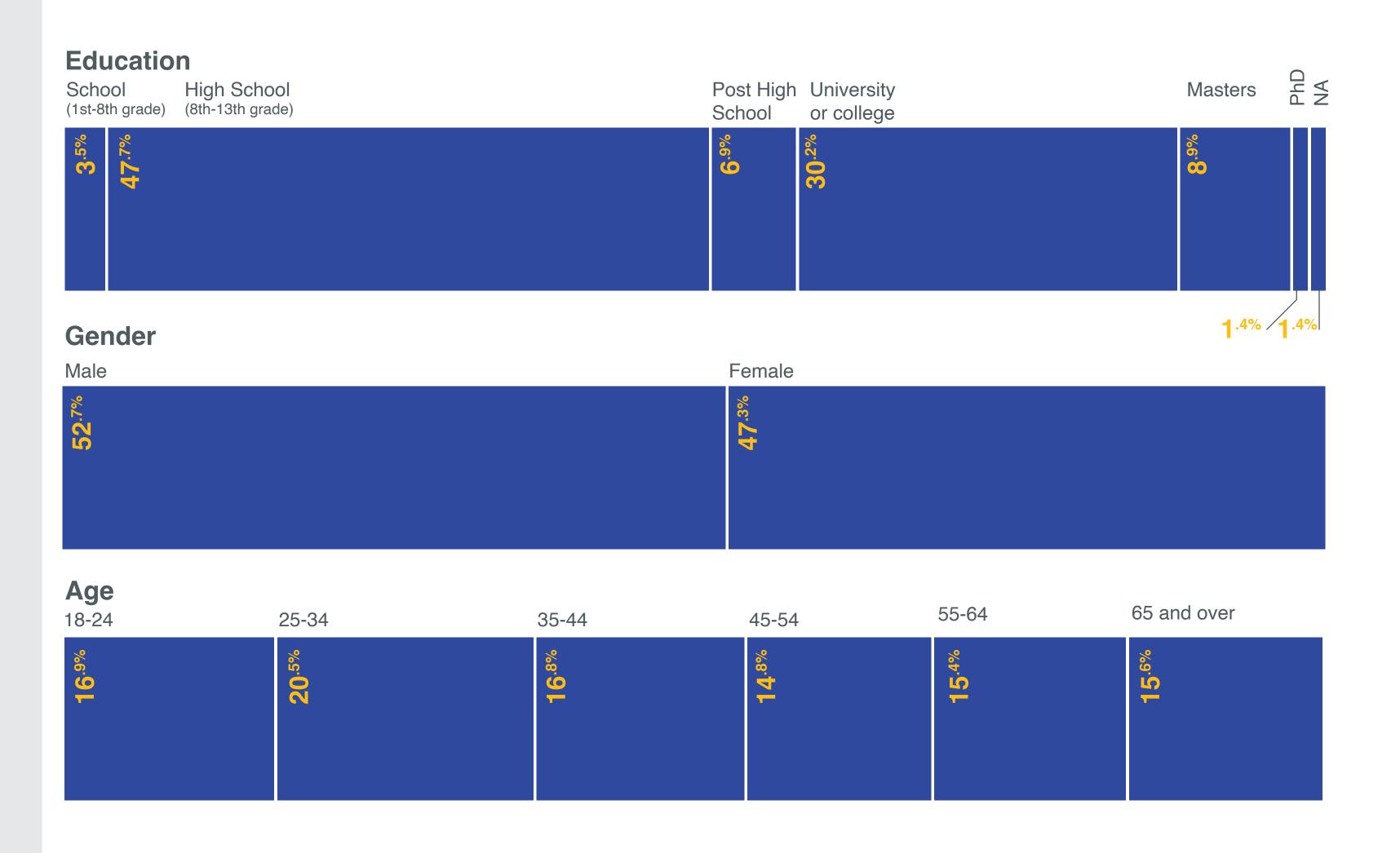


Assessment by reference to social and demographic characteristics of respondents: gender, age, education, ethnicity.



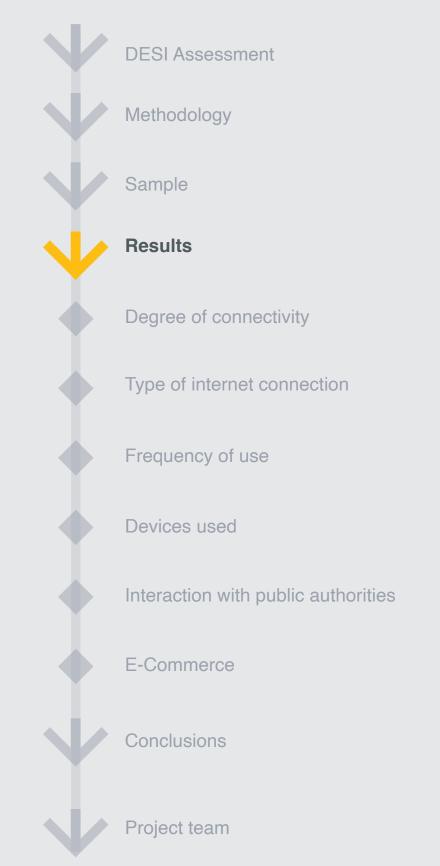
Sample

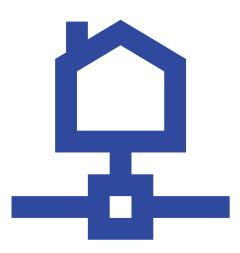






Results





Degree of connectivity at the level of Timişoara Municipality



Frequency of the use of internet at the level of Timișoara Municipality



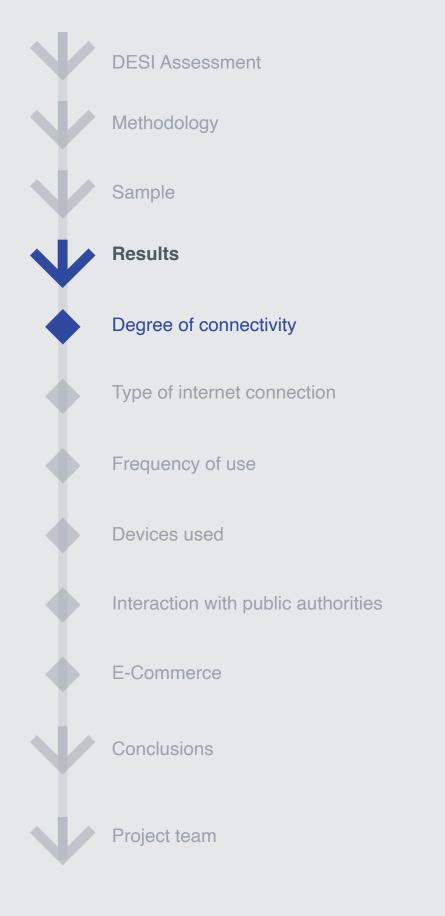
Degree of on-line interaction with public authorities



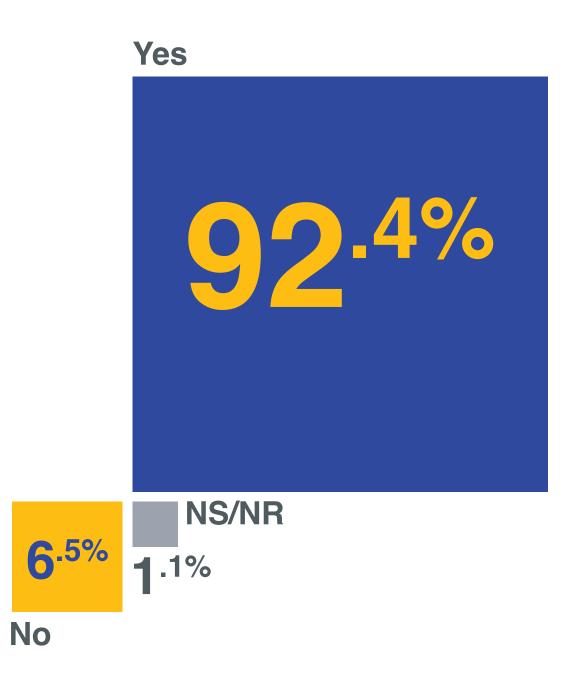
Behavior in terms of use of e-commerce



Degree of connectivity

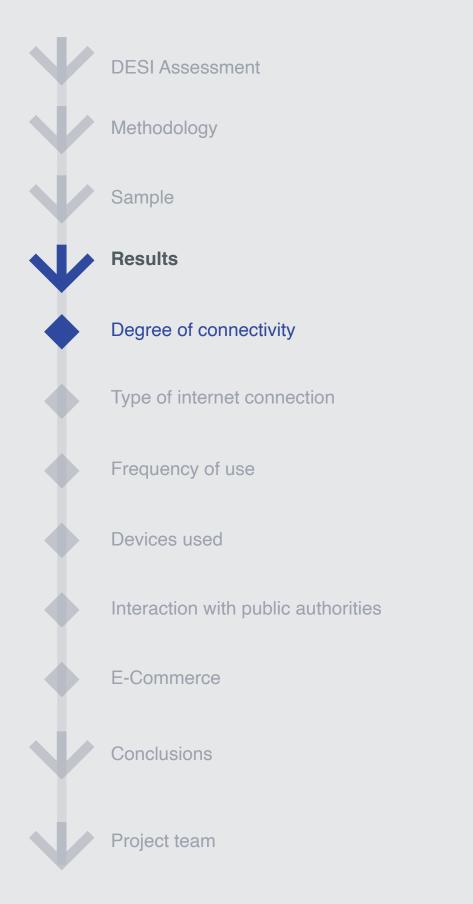


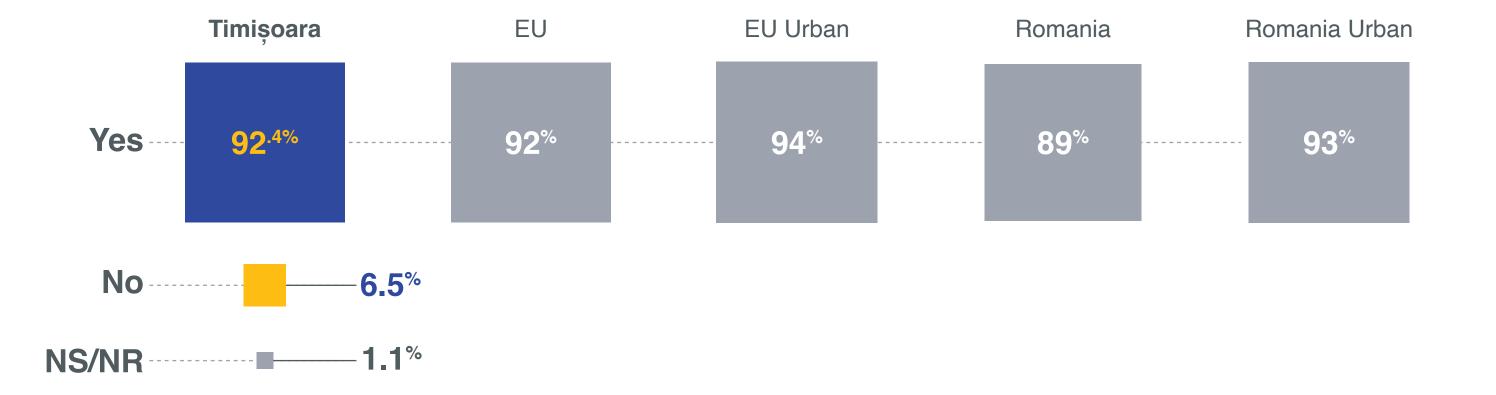
Do you or anyone in your household have access to the internet at home?





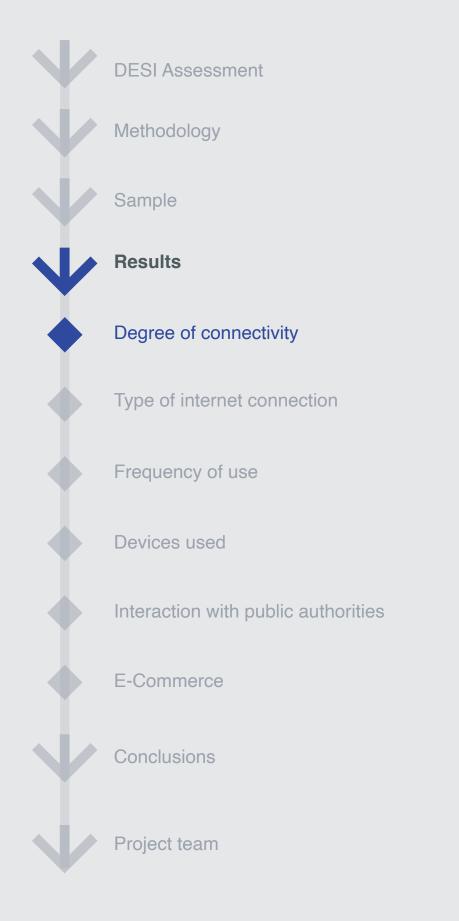
Degree of connectivity Timișoara vs Romania vs EU

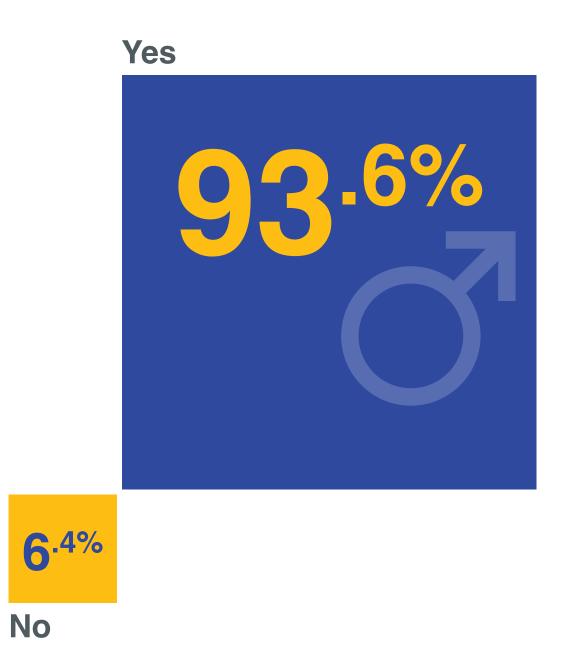


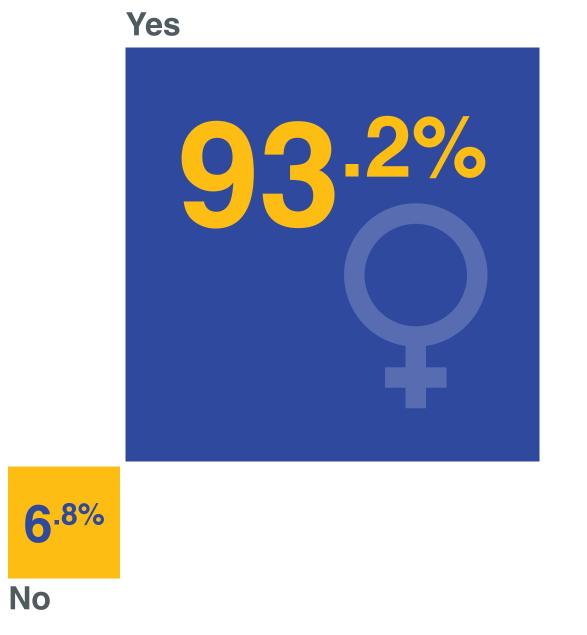




Degree of connectivity By gender



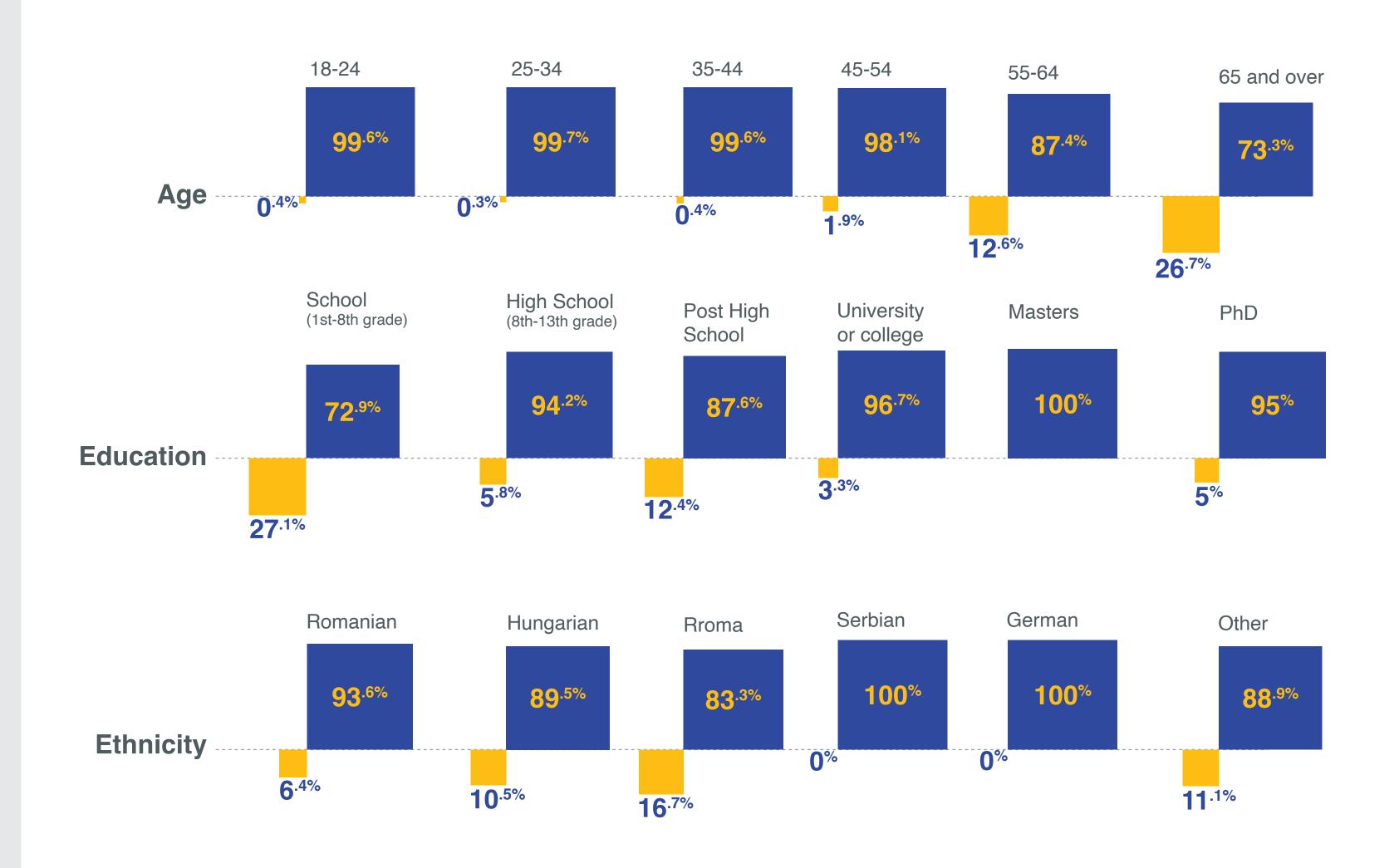






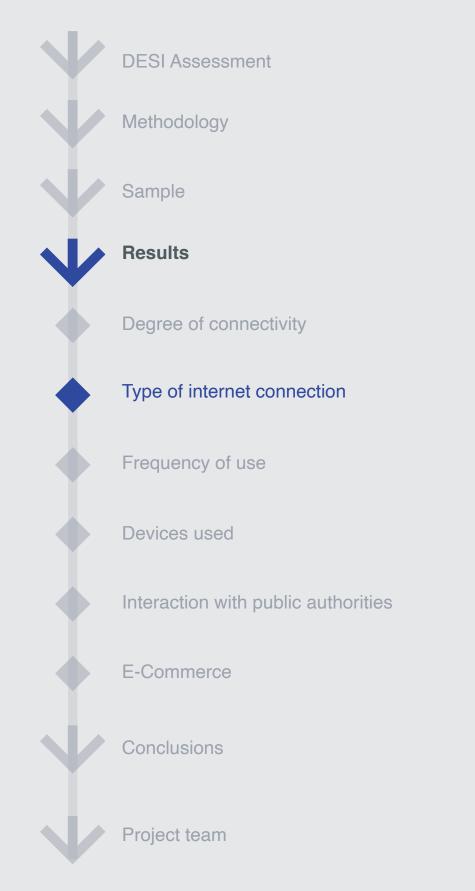
Degree of connectivity By age, education and ethnicity







Type of internet connection



Types of internet connections used at home



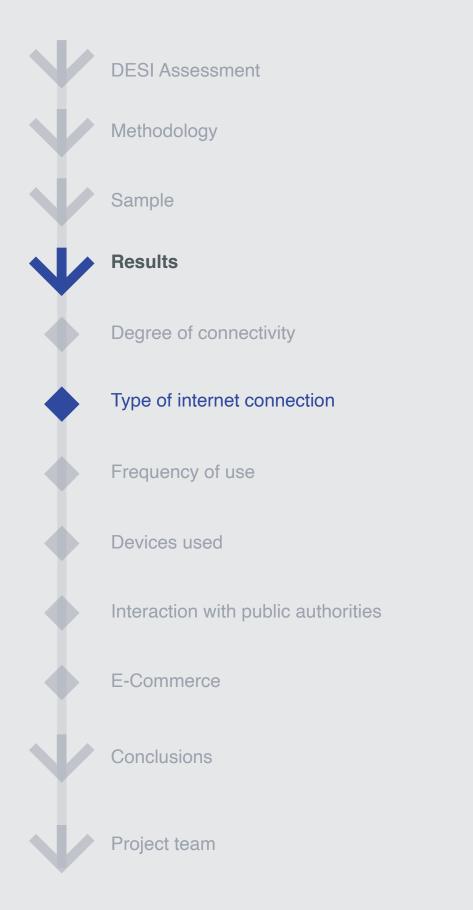
Fixed broadband connections



Mobile broadband connections



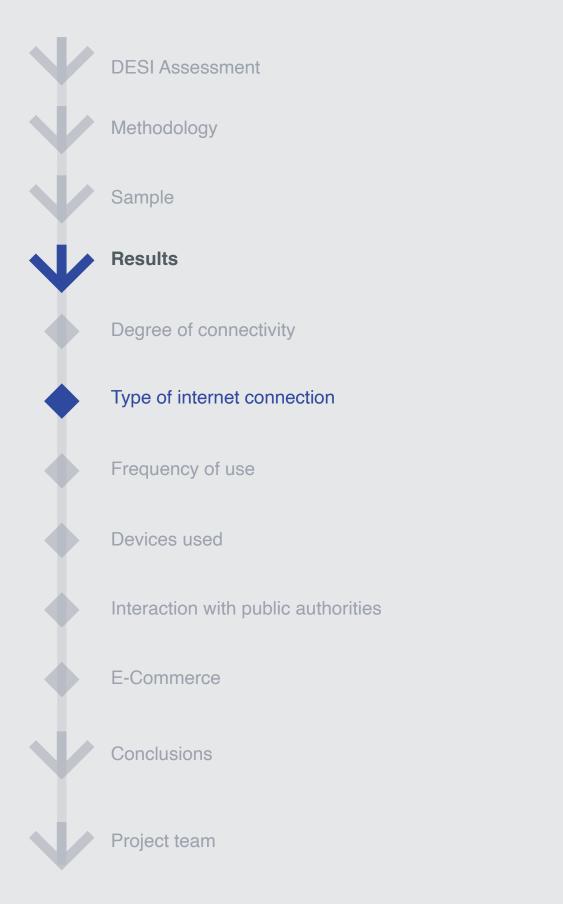
Type of internet connection Timișoara vs Romania vs EU







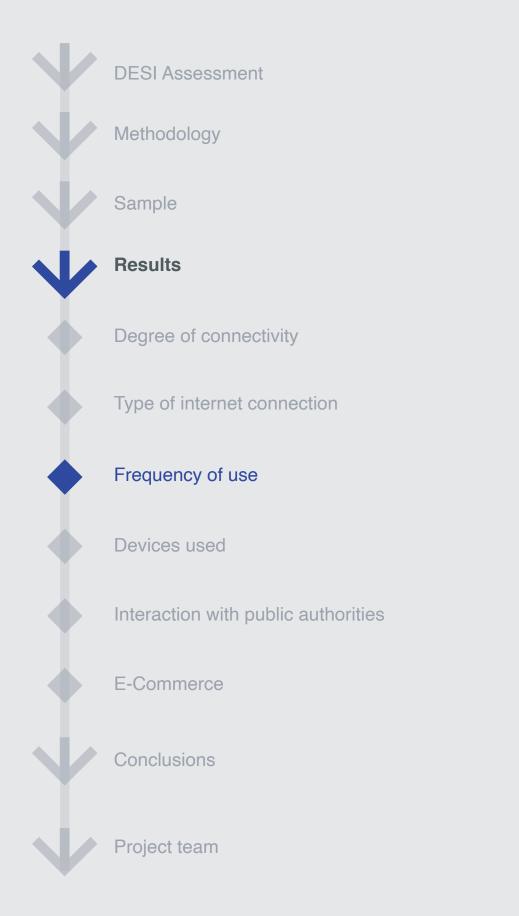
Type of internet connection By age group and education



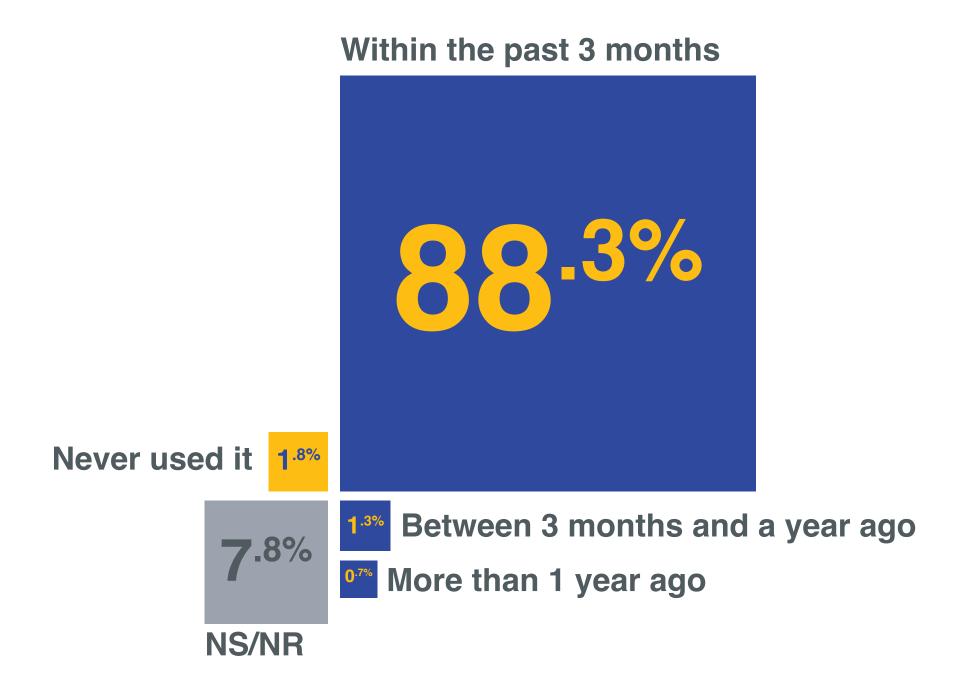




Frequency of use When did you last use the internet?

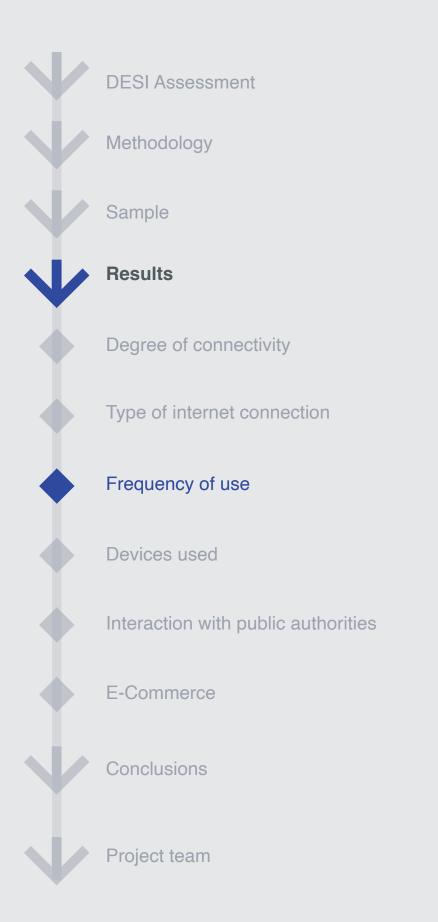


When did you last use the internet?

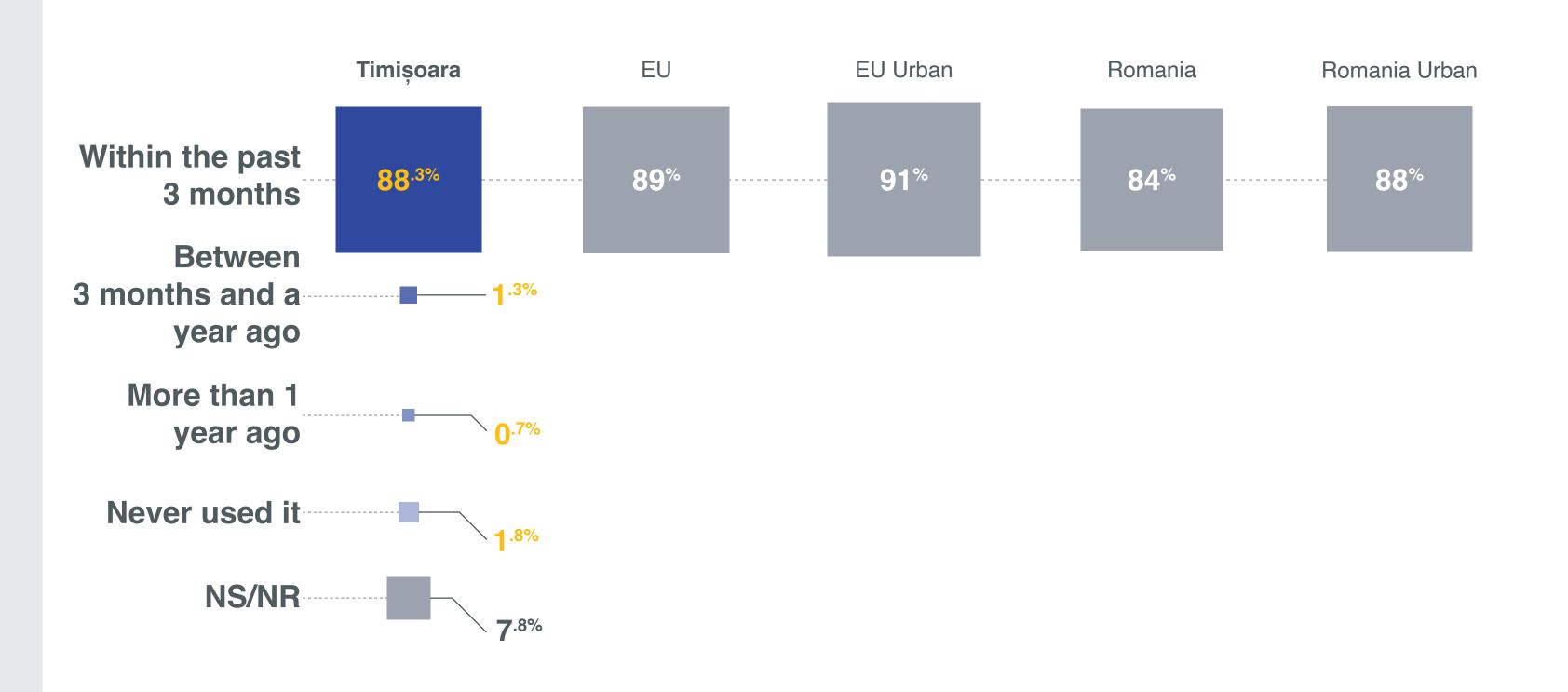




Frequency of use Timișoara vs Romania vs EU



When did you last use the internet?

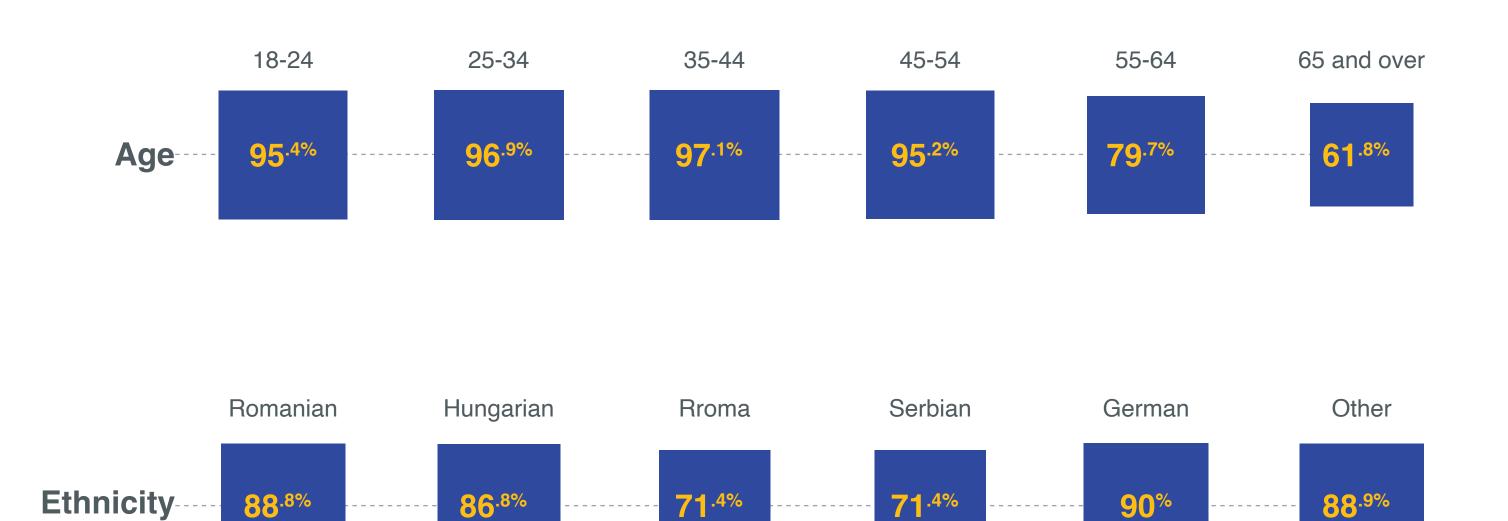




Frequency of use By age and ethnicity

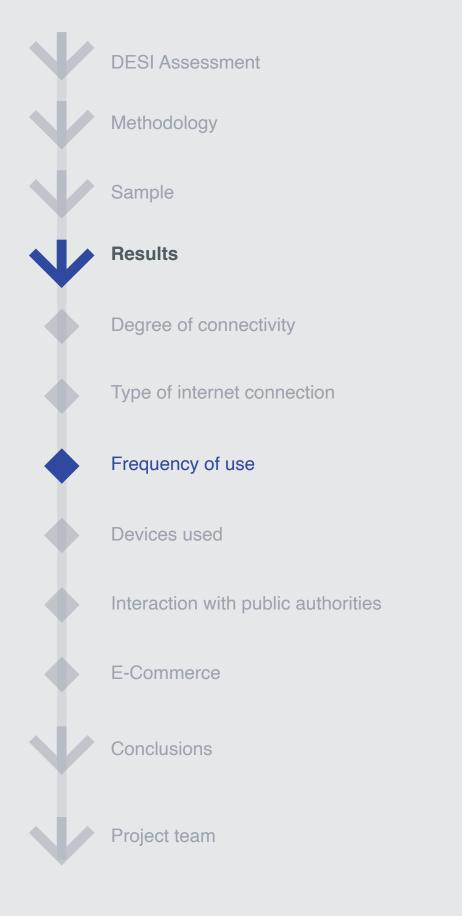


Use of internet within the past 3 months

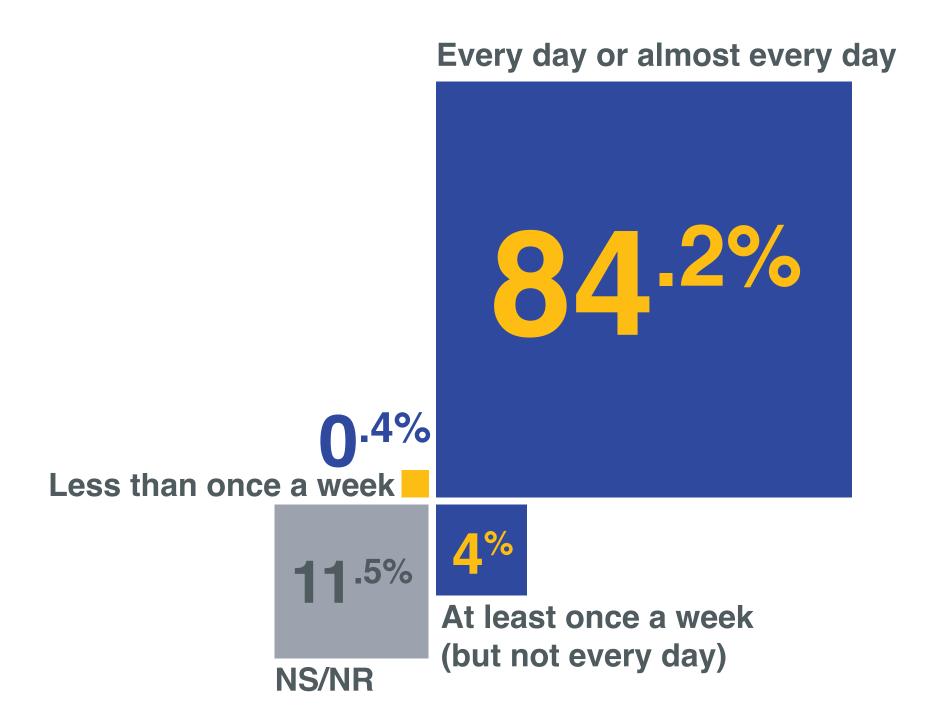




Frequency of use

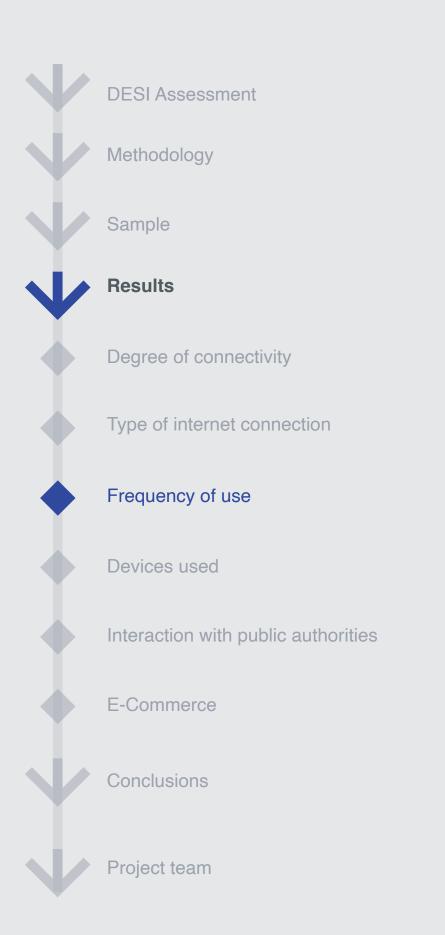


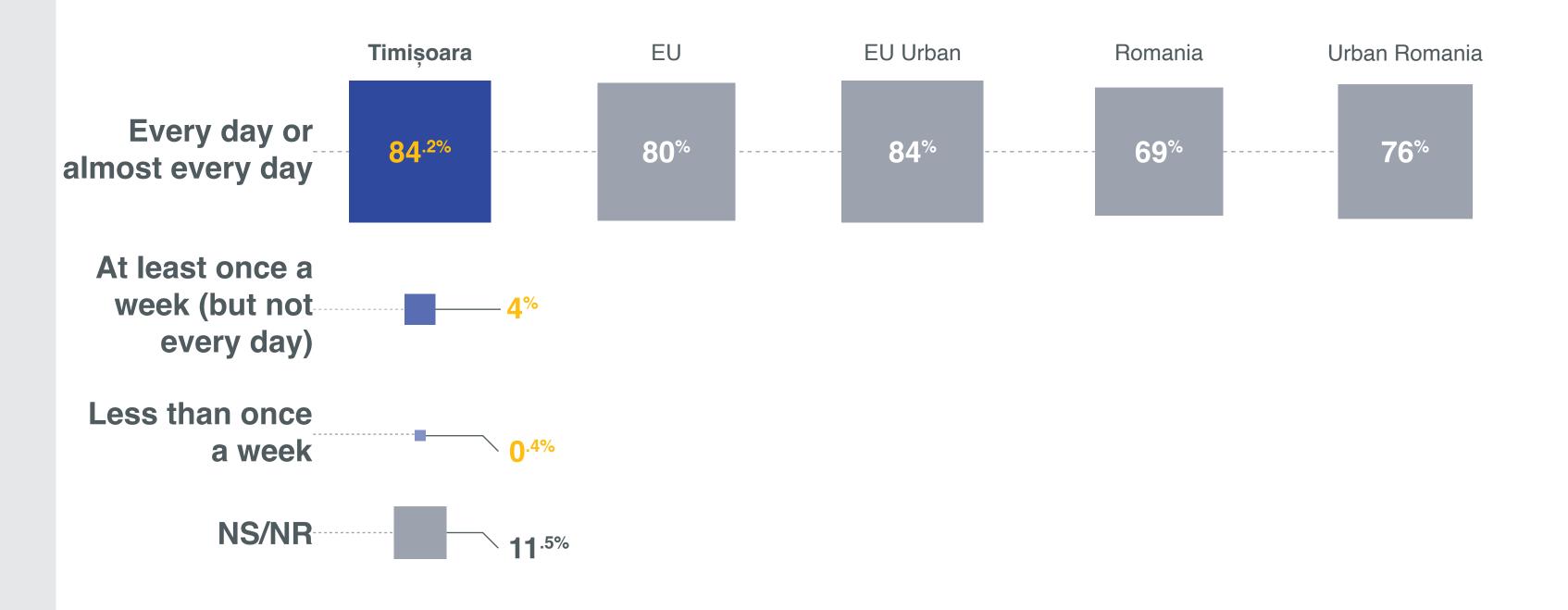
How often on average did you use the internet over the last 3 months?





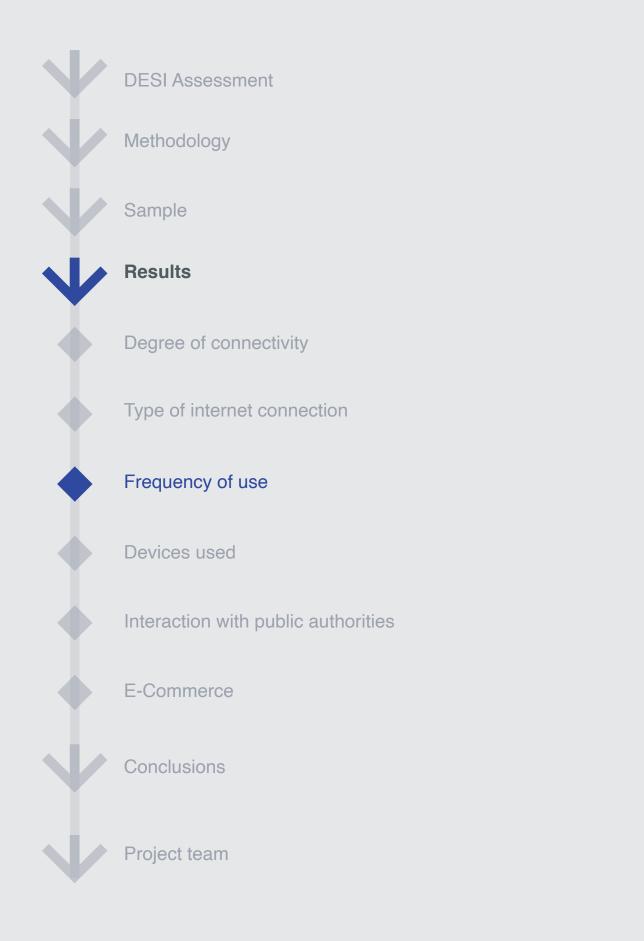
Frequency of use Timișoara vs Romania vs EU



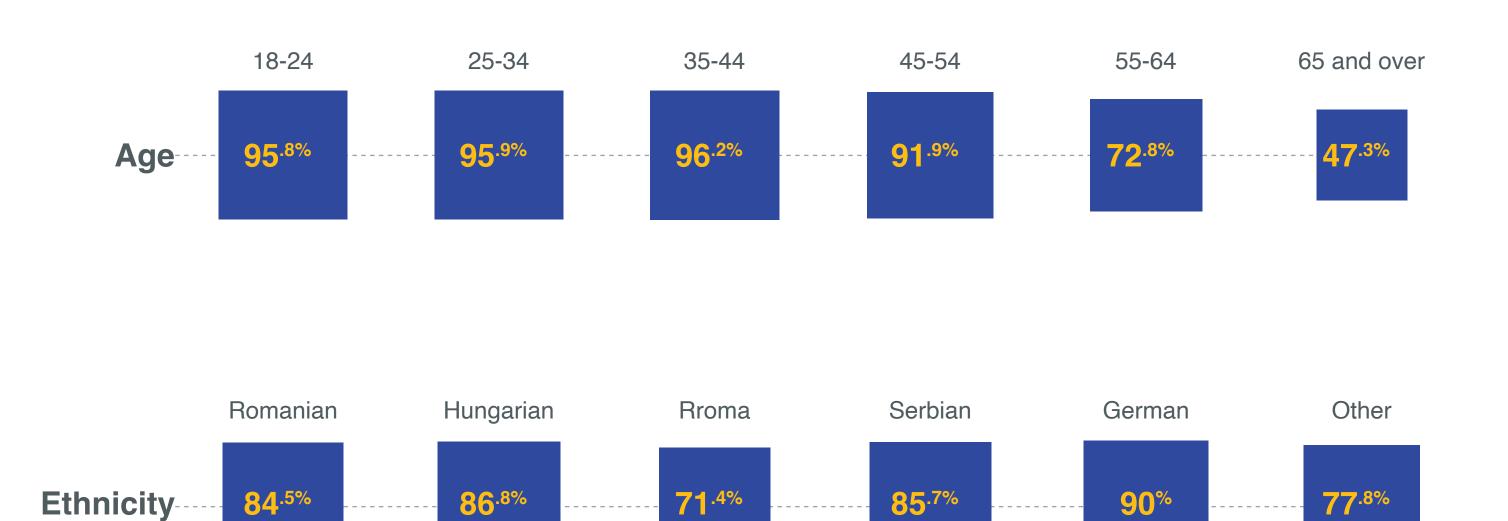




Frequency of use By age and ethnicity



Use internet daily



85.7%

84.5%

Ethnicity

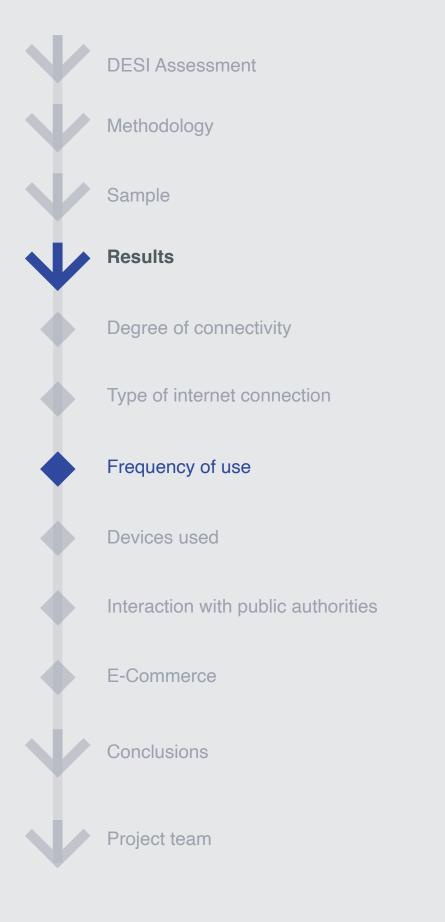
86.8%



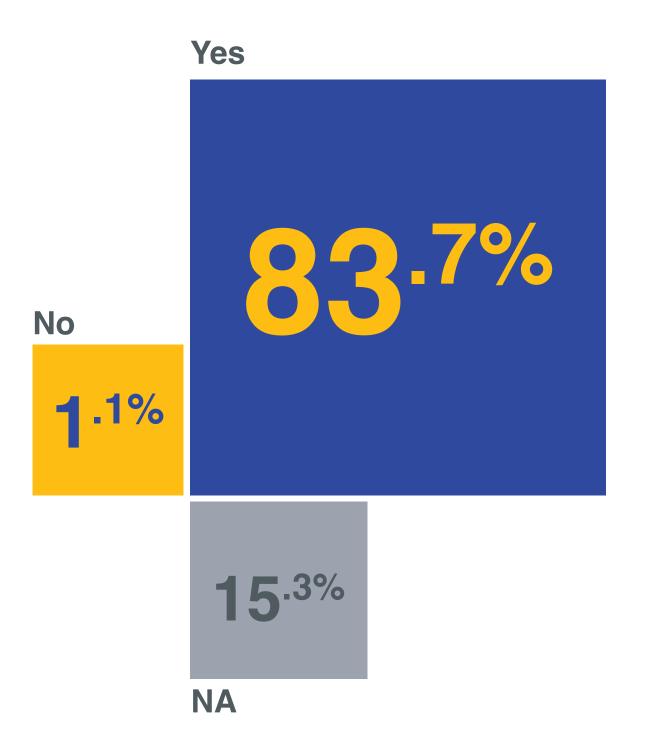
77.8%

90%

Frequency of use



Use internet several times during the day

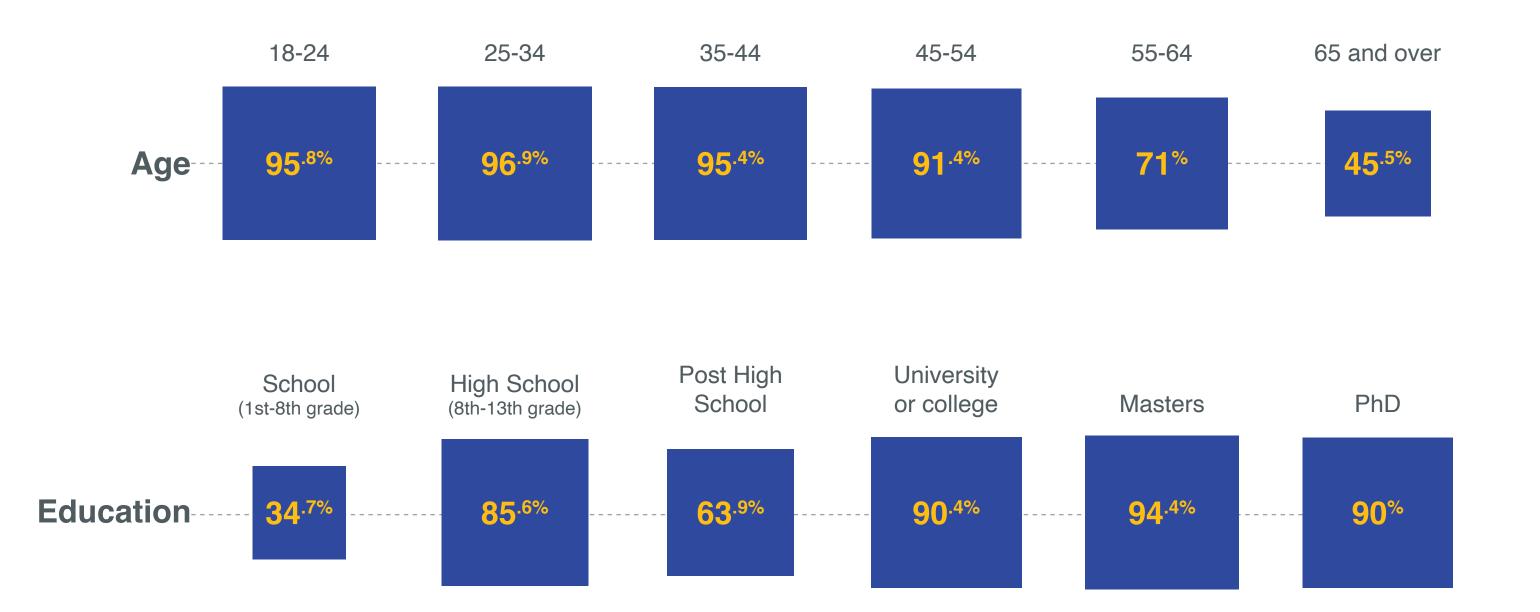




Frequency of use By age and ethnicity

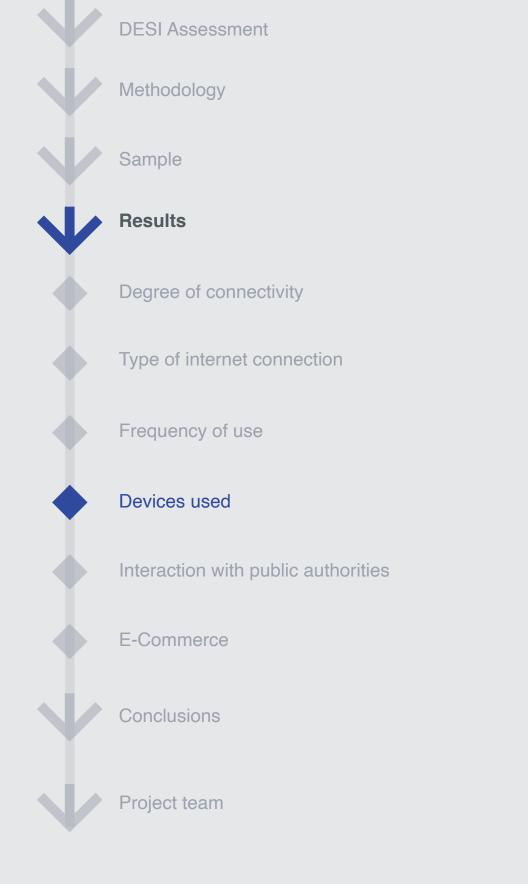


Use internet several times during the day

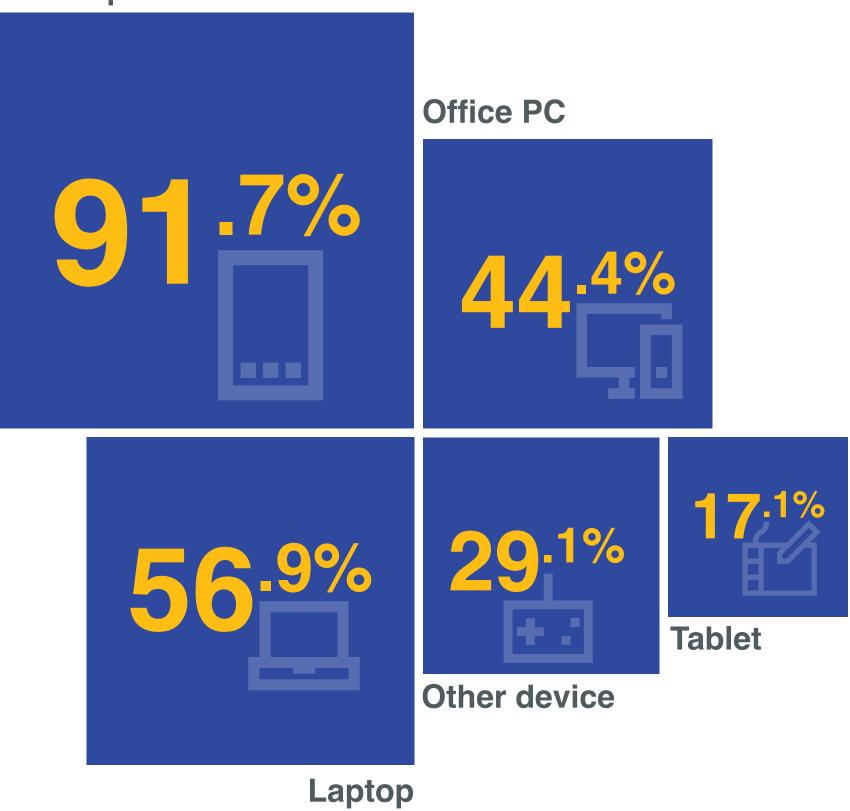




Devices used

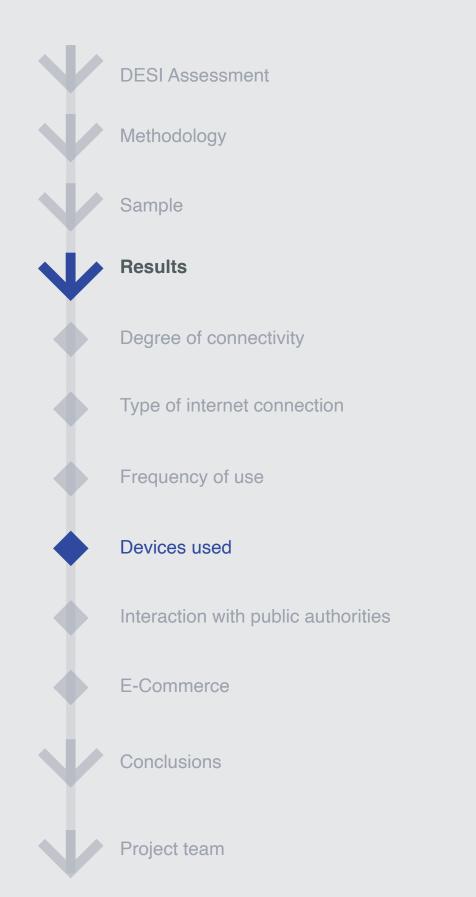


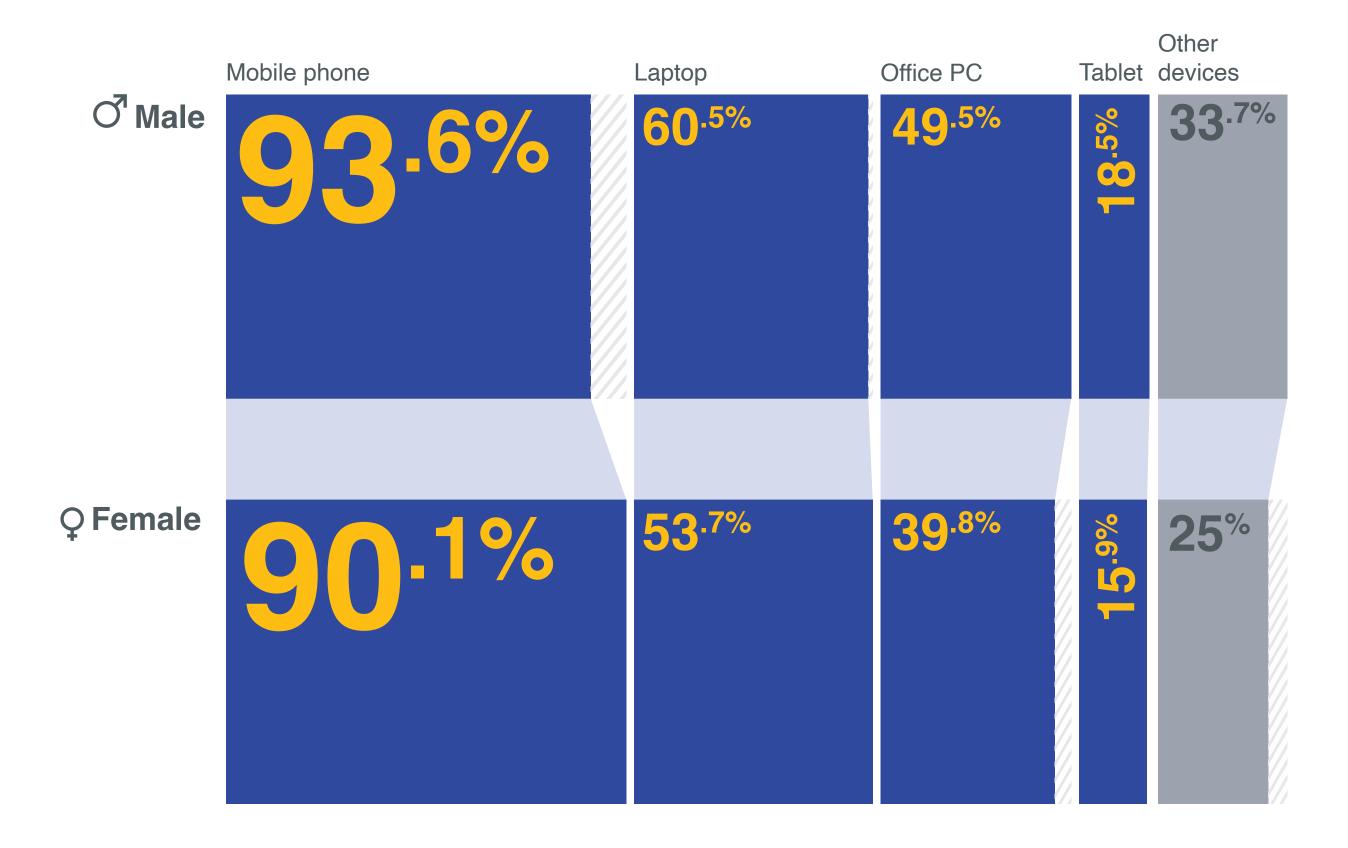
Mobile phone





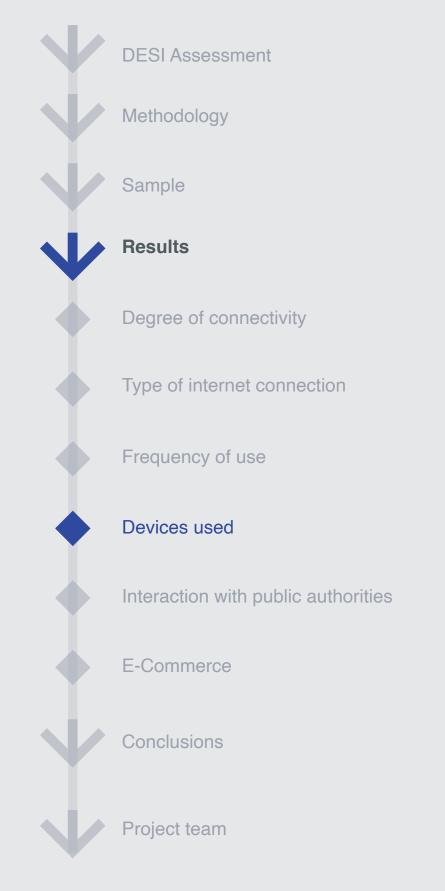
Devices used By gender

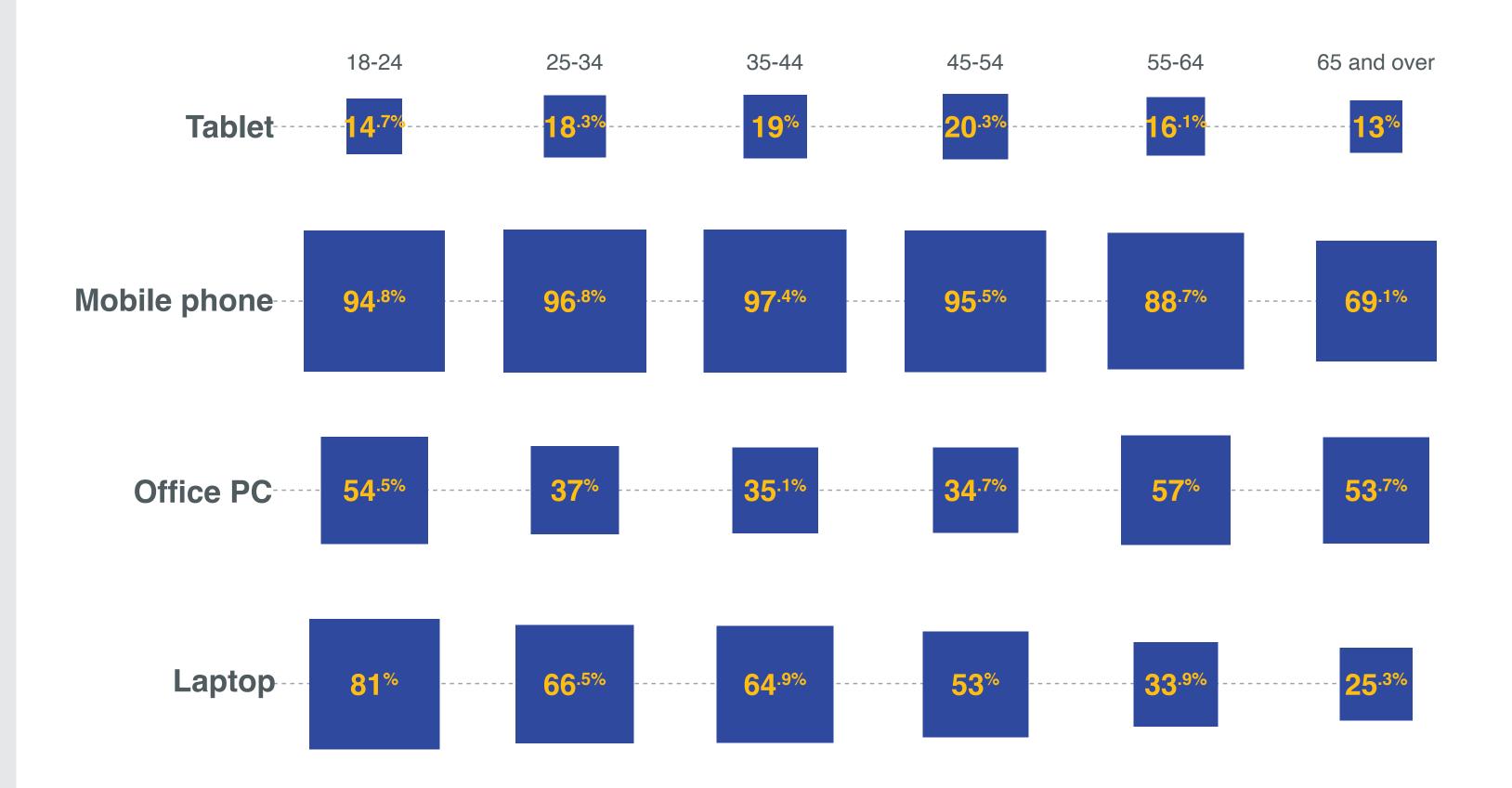






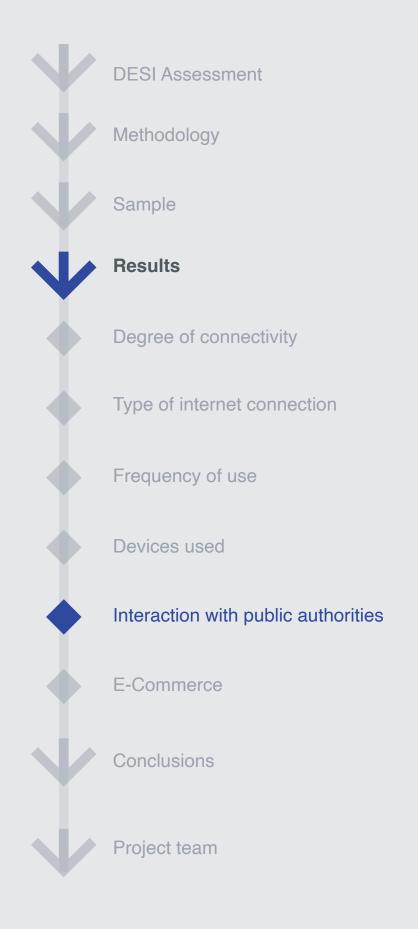
Devices used By age group



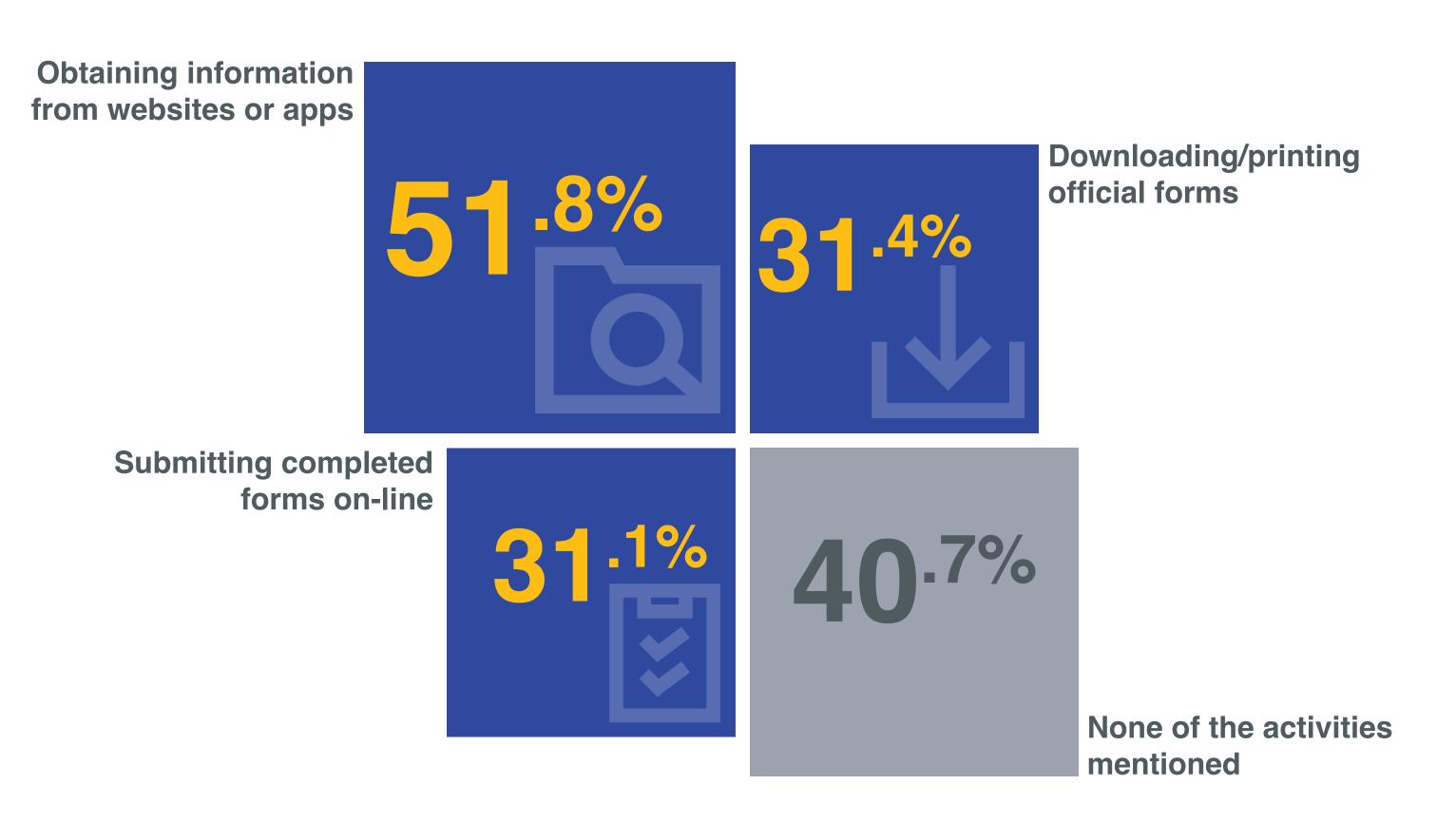




Interaction with public authorities



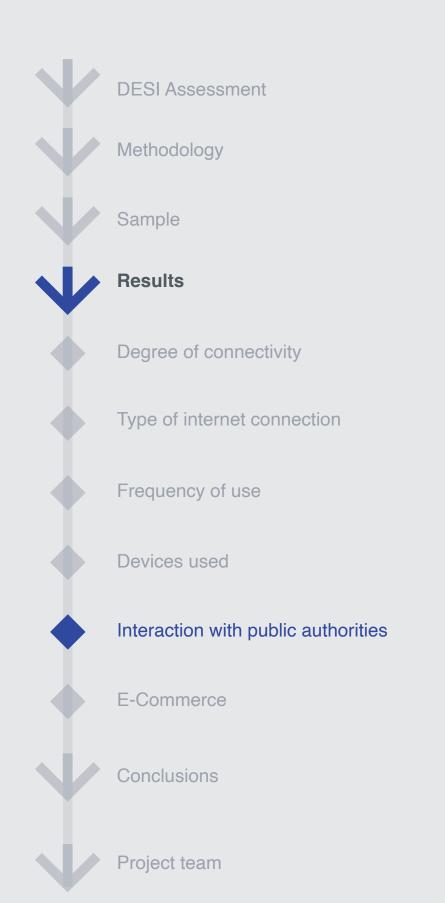
Did you interact with public authorities for the below purposes over the internet?

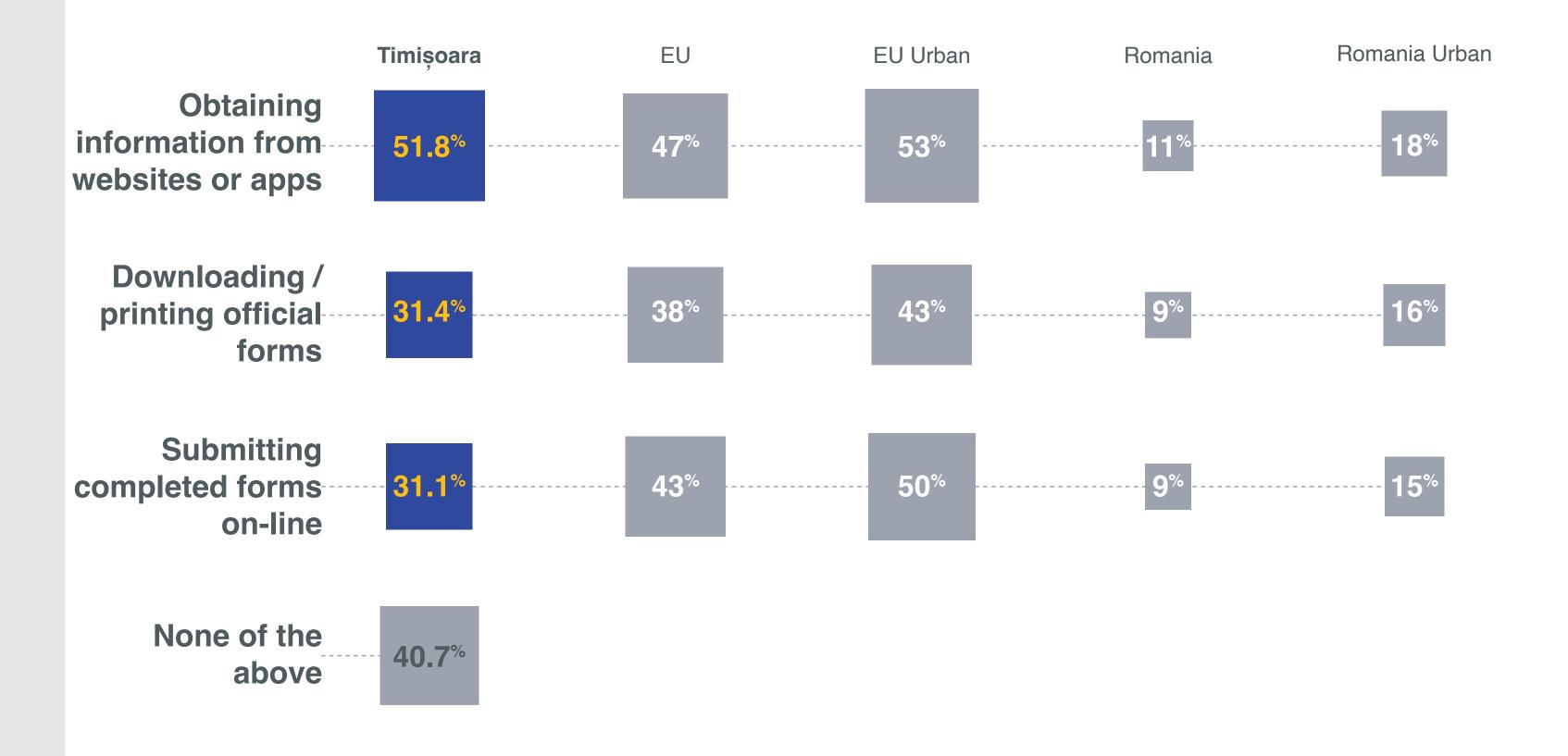




Interaction with public authorities

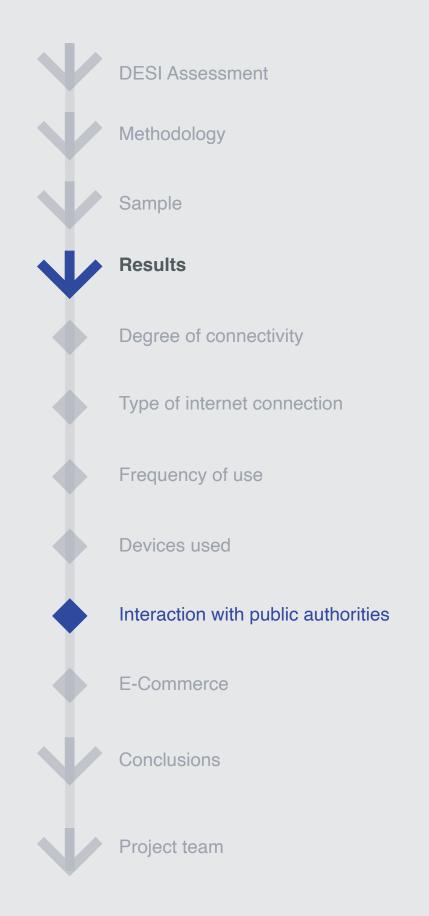
Timișoara vs Romania vs EU

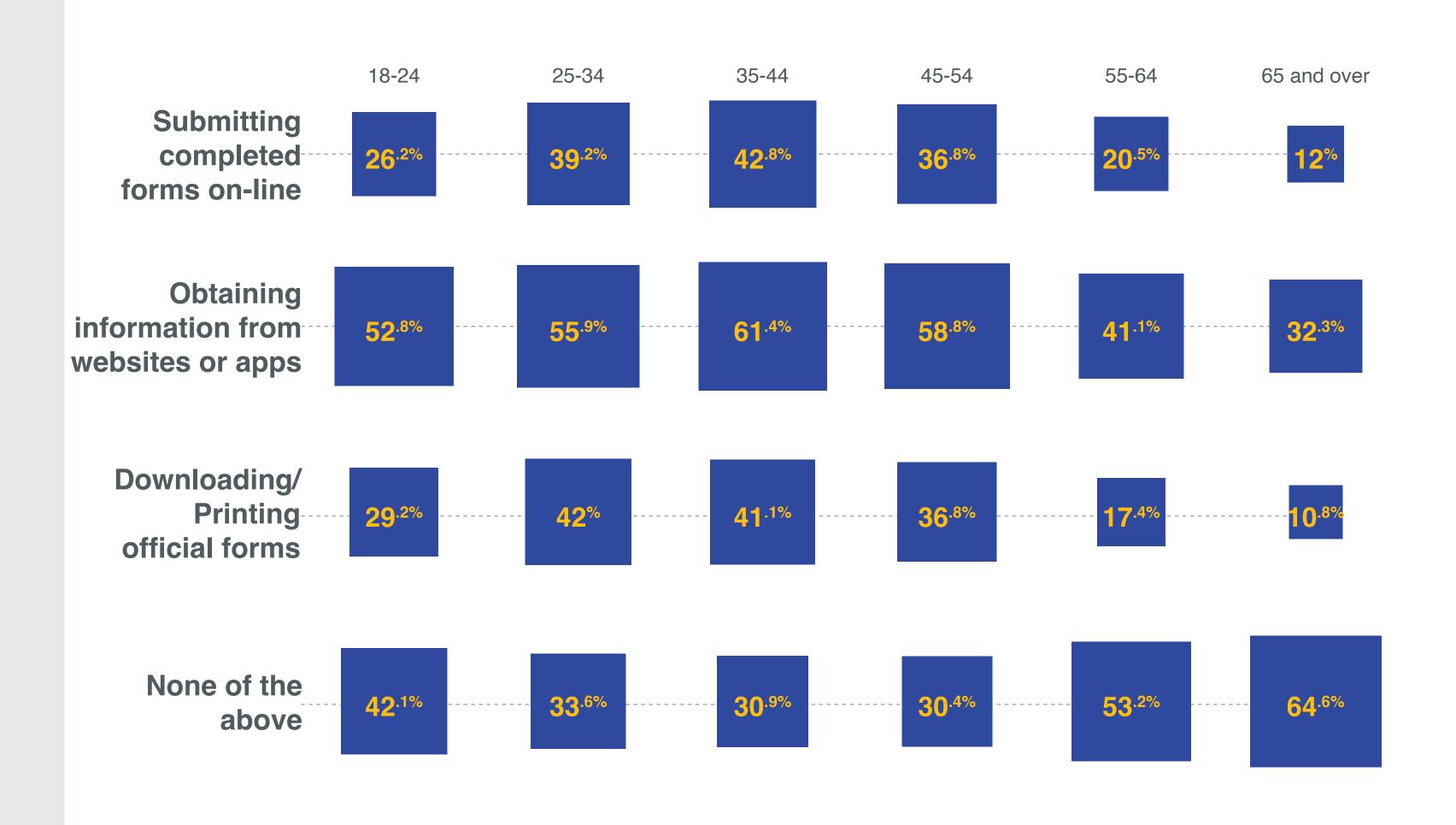






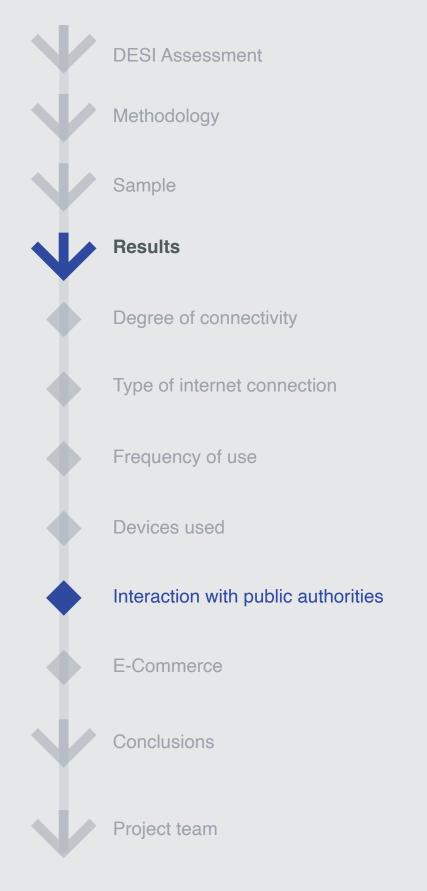
Interaction with public authorities By age group







Interaction with public authorities

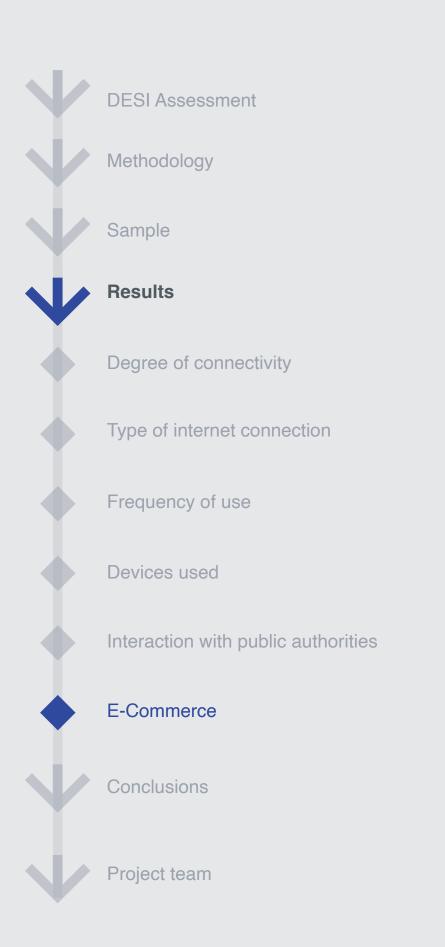


What were the reasons for not submitting completed forms?

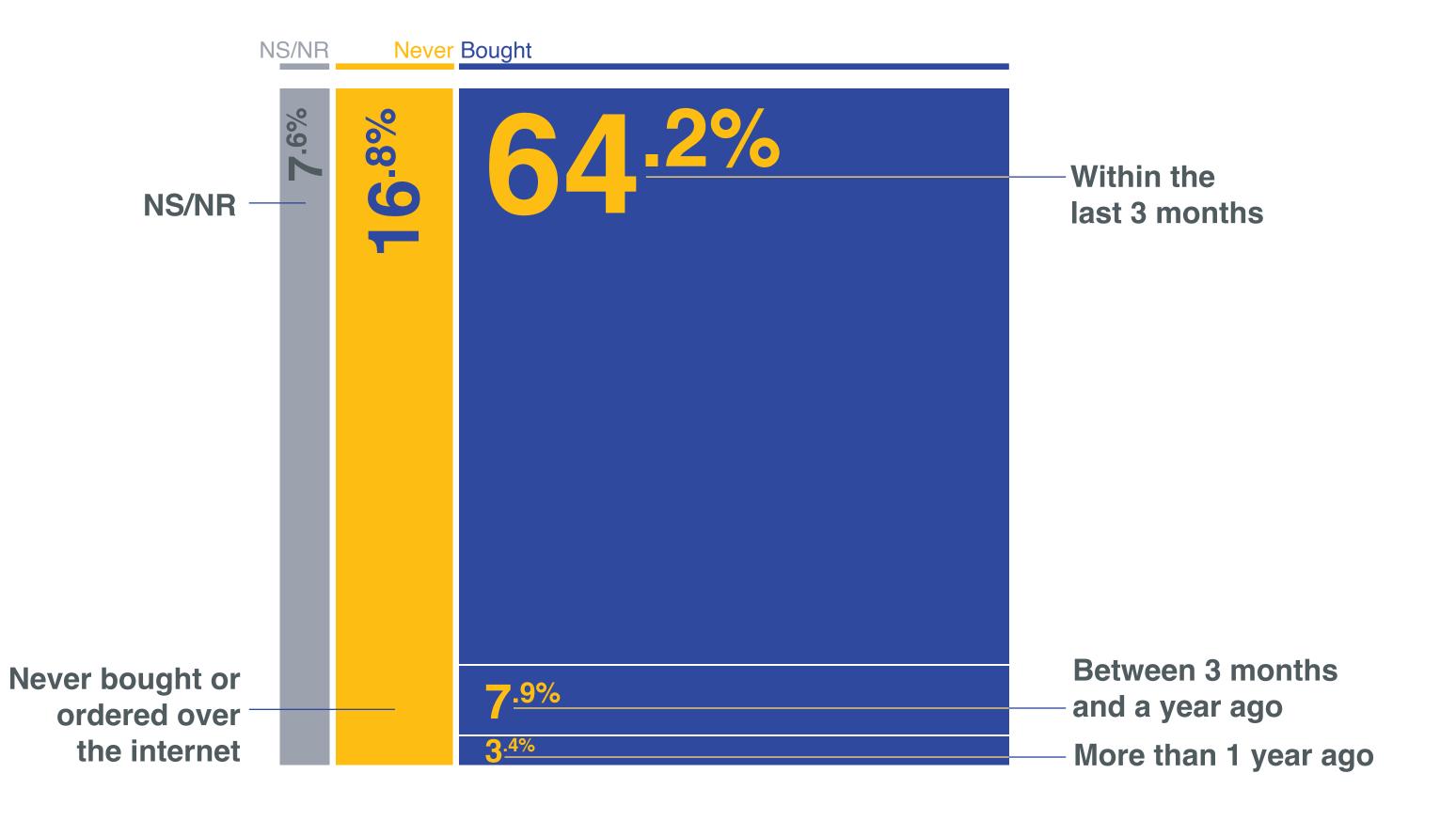




E-Commerce



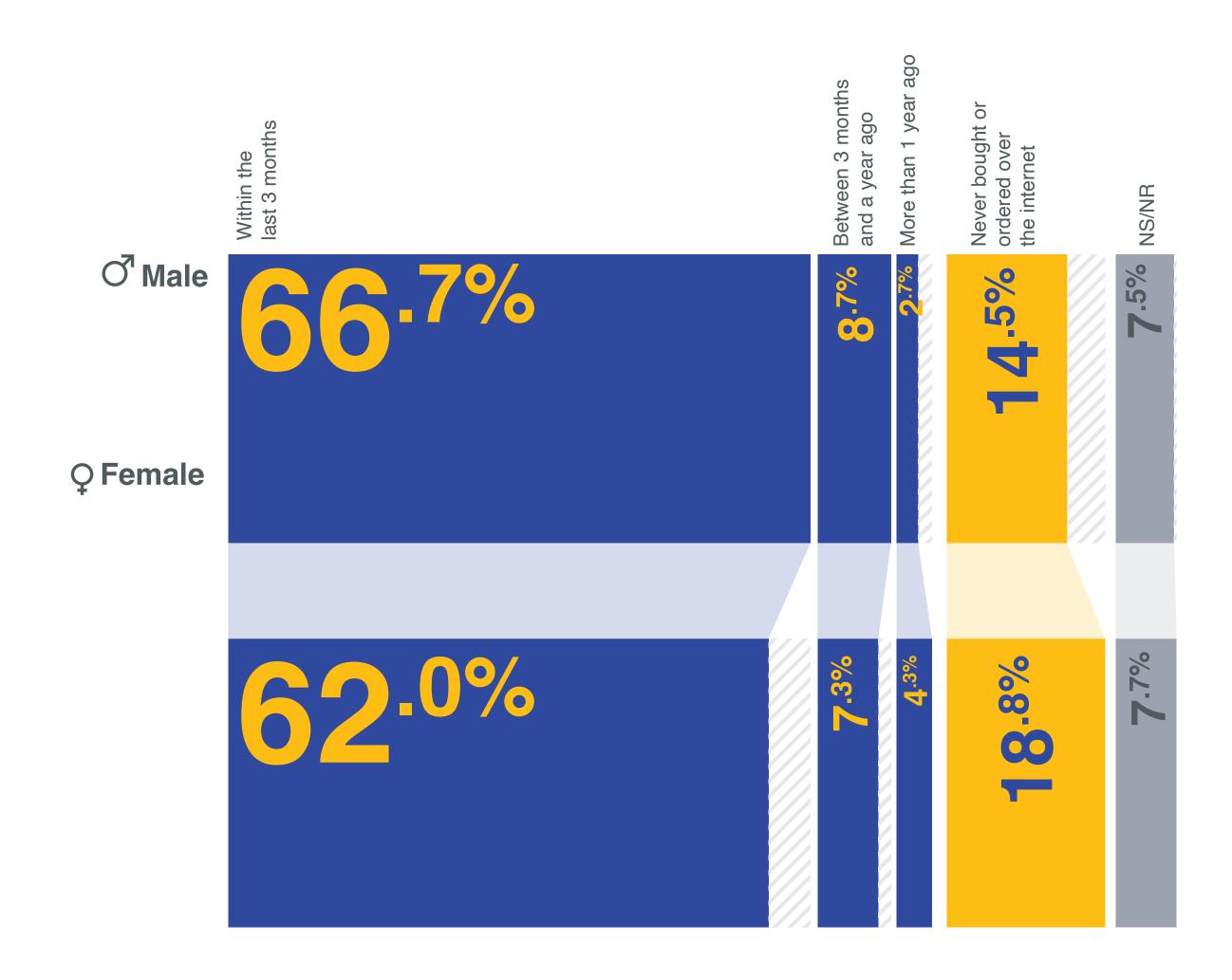
When did you last buy or order goods or services for private use over the internet?





E-Commerce By gender

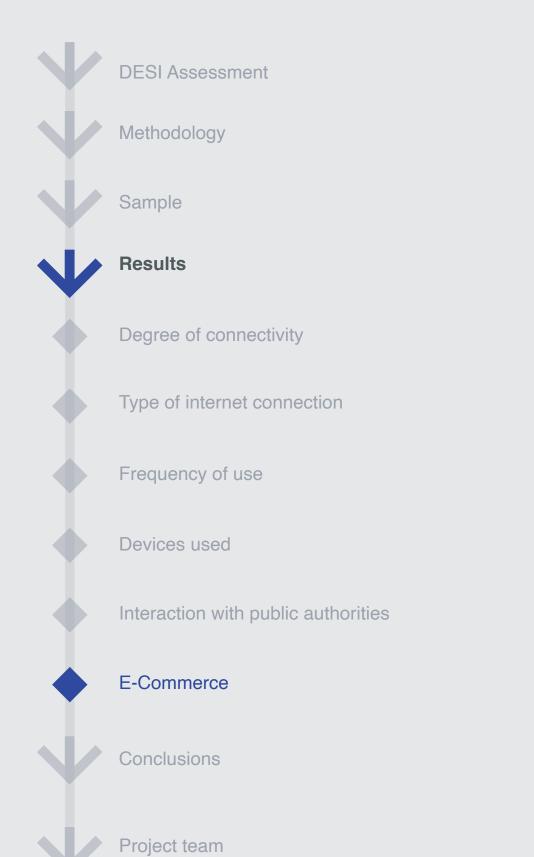


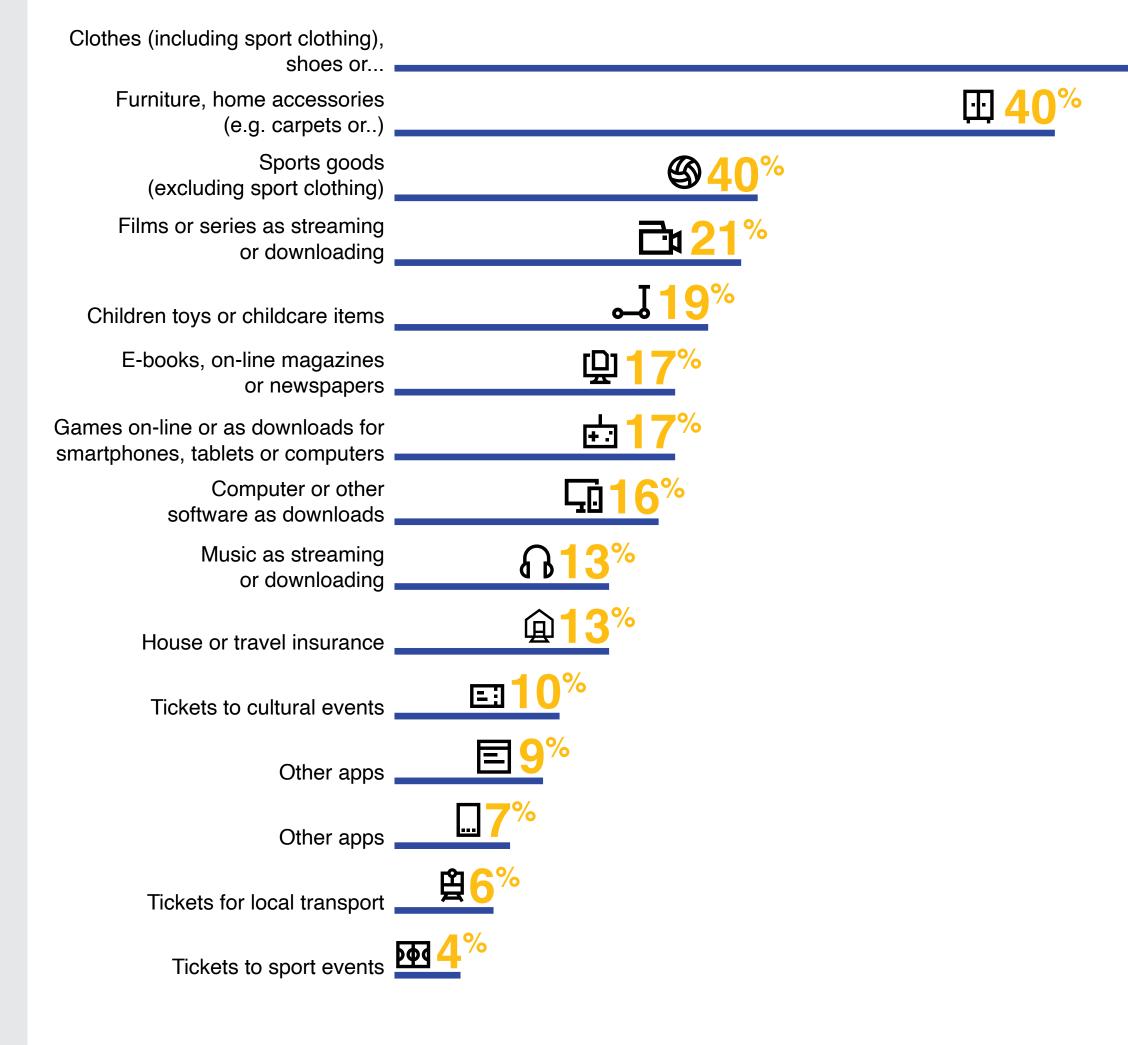




E-Commerce

Purchased goods through websites / apps over the last 3 months

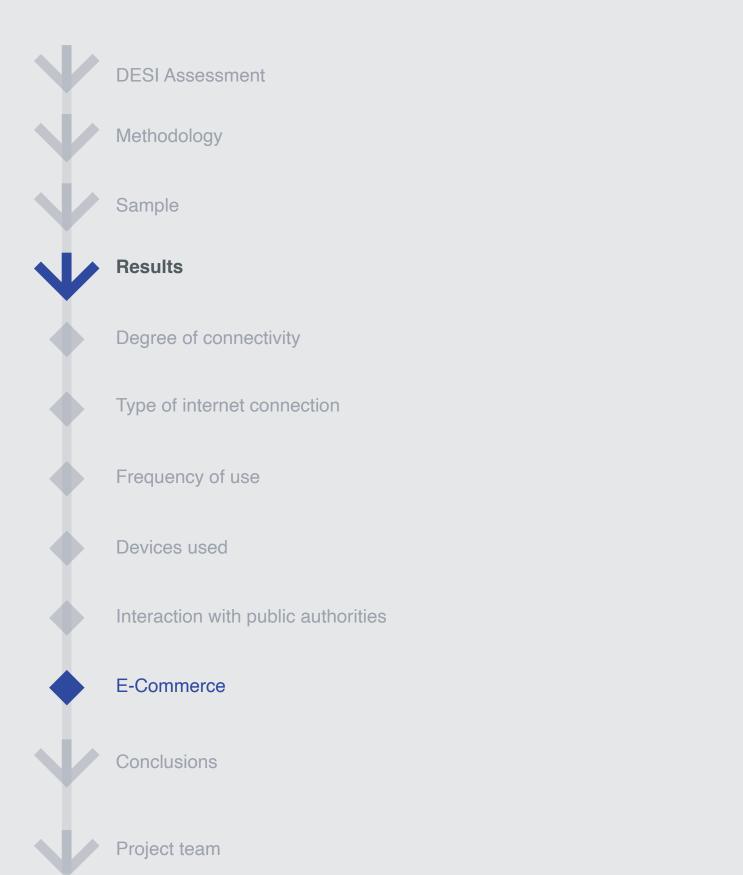


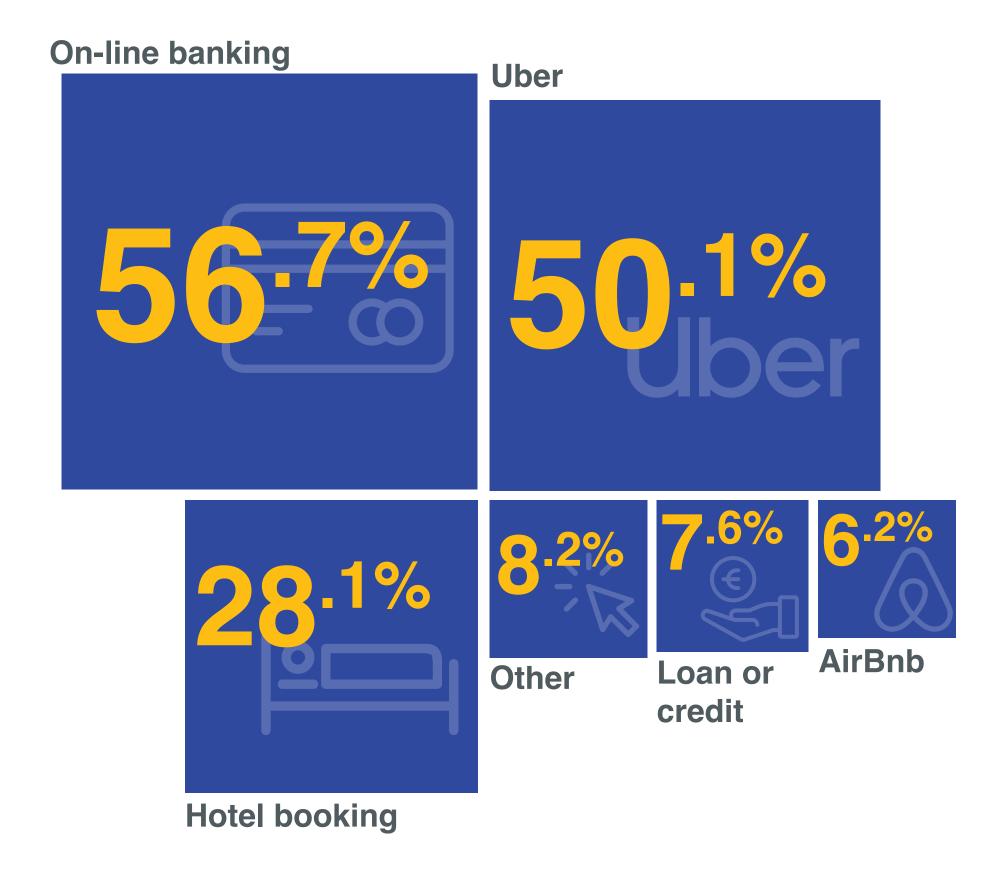




E-Commerce

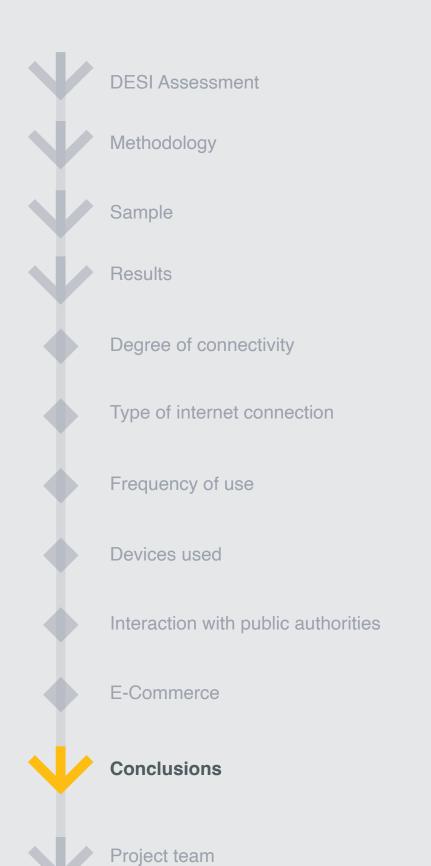
Services or subscriptions purchased over the internet in the last 3 months







ConclusionsDegree of connectivity

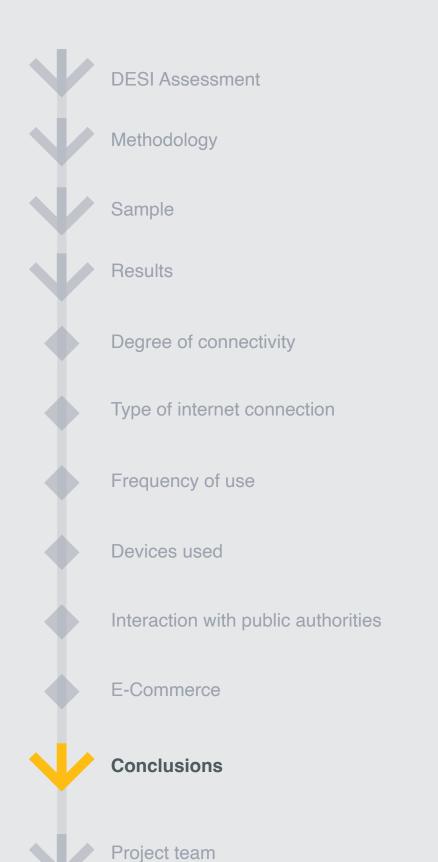




- The access to the internet is generalised, as 92,4% of the respondents mention that they have access to the internet. The degree of connectivity at the level of Timişoara Municipality is above the national and EU average, nevertheless slightly below the urban national and EU average
- Age and education level represent the main factors which lead to significant differences between categories. As well, ethnicity represents a factor in this sense, though less relevant.



Conclusions Use of internet

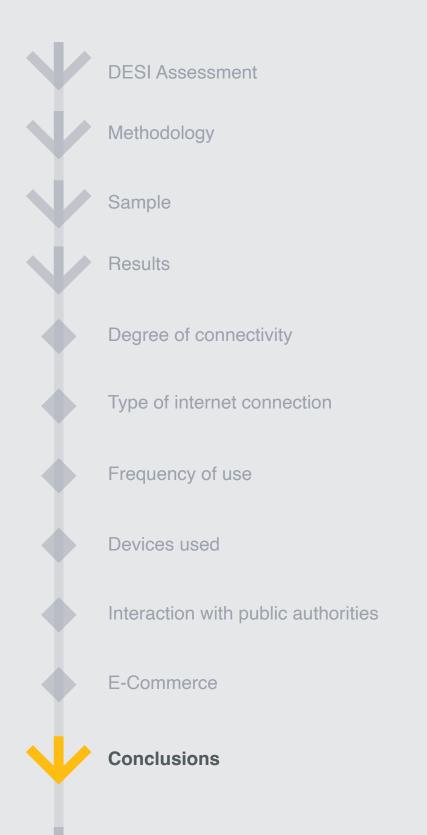




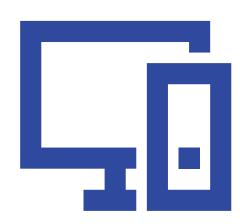
- 88% of the respondents used the internet over the last 3 months. The percentage is similar with the EU one (89%), and the urban average in Romania (88%), while inferior to the EU urban average (91%)
- The degree of daily use of the internet in Timisoara is similar to the average of European cities, and exceeds the general EU average, as well as the Romanian average. Consequently, even though in terms of connectivity we notice similarity with other cities in Romania, when it comes to the use of internet, the frequency of use is significantly superior in Timişoara.
- The use of internet decreases with age, increases in accordance with the level of education, and it does not vary in terms of gender.



Conclusions Devices used



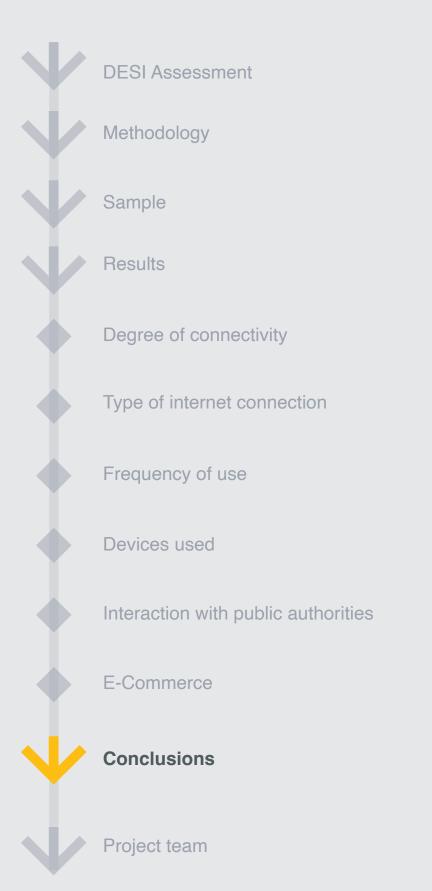
Project team



- The mobile phone is the device mostly used for connecting to the internet
- Out of the total of respondents, **91,7% use the internet on their mobile phone**, yet only 65,5% state that they have a mobile connection via phone
- The rest of 26% from the respondents use the internet on the phone without owning a mobile data subscription, and using the internet from other sources (e.g.: Wifi, hotspot). Consequently, 25% from the population do not use the smart phone at its real potential.
- It is relevant to mention the rate of use of other devices (Smart TV, consoles, speakers, e-books, smart watch) connected to the internet, especially due to their potential to boost the creative culture.



Conclusions Interaction with public authorities

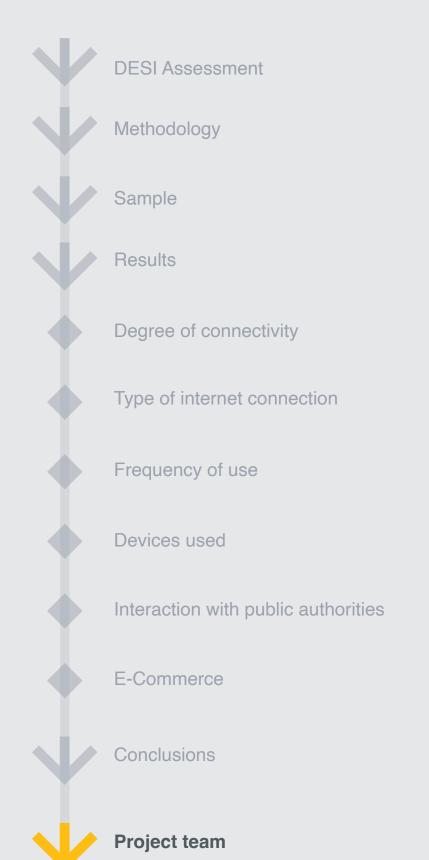




- 52% from the respondents use the websites of public institutions for information purposes. The percentage is very similar in comparison to the European urban average (53%), and net superior to the Romanian average. Thus, it is proven that the citizens of Timişoara are prone to the digital interaction in relation with the public administration.
- The interaction with the administration decreases severely when it comes to moving from information to action. Only 31% of the citizens download and submit official documents to the public authorities (43% European average; 50% European urban average)
- As 56% of the respondents use the internet banking, this percentage could be relatively easy to achieve for the payment of local taxes, as long as user-friendly features will be available.



Project team



Project coordinator: Lect. univ. dr. Marius Matichescu

Methodology: Prof. univ. dr. Delia Vârgă, Conf. univ. dr. Daniel Lucheș, Lect. univ. dr. Viorel Proteasa, Lect. univ dr. Alexandru Drăgan

Data analysis: Ianis Rușitoru-student MD year III, Lect. univ. dr. Marius Matichescu,

Report drafting: Ianis Ruşitoru-student MD year III, Lect. univ. dr. Marius Matichescu, Lect. univ dr. Alexandru Drăgan

Maps: Lect. univ dr. Alexandru Drăgan

