



NATIONAL MEDIA AND
INFOCOMMUNICATIONS
AUTHORITY • HUNGARY

INTERNET USAGE BY INDIVIDUALS

ONLINE SURVEY

2014

Conducted by:



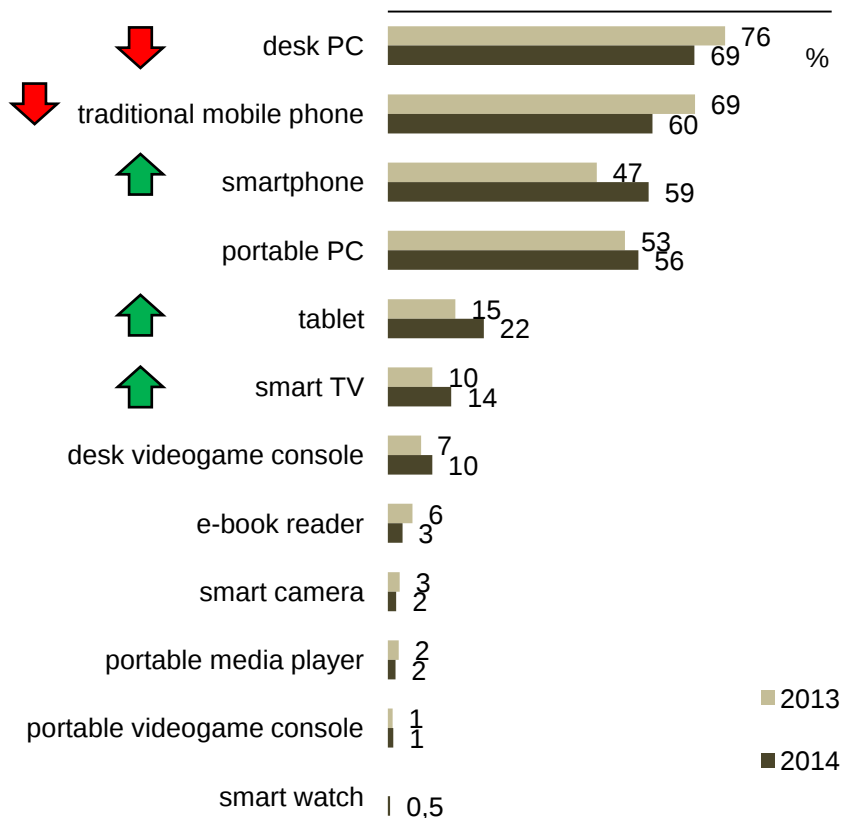
BACKGROUND OF THE SURVEY

Client	National Media and Infocommunications Authority (Hungarian abbreviation: NMHH)
Service provider	NRC Market Research Ltd. Ariosz Service, Informatics, and Consulting Ltd.
Fieldwork period	27.11.2014 – 17.12.2014
Survey method	online interviews with standardised questionnaire
Population	individuals aged 14+ with residence in Hungary who use the Internet at least once a week
Sample size	3125 respondents
Weighting	multidimensional factor weighting by age, gender, level of education, and type of settlement
Statistical error of sampling	±2,5% at most between the whole samples of 2013 and 2014; and ±2% at most in case of proportions of one data collection

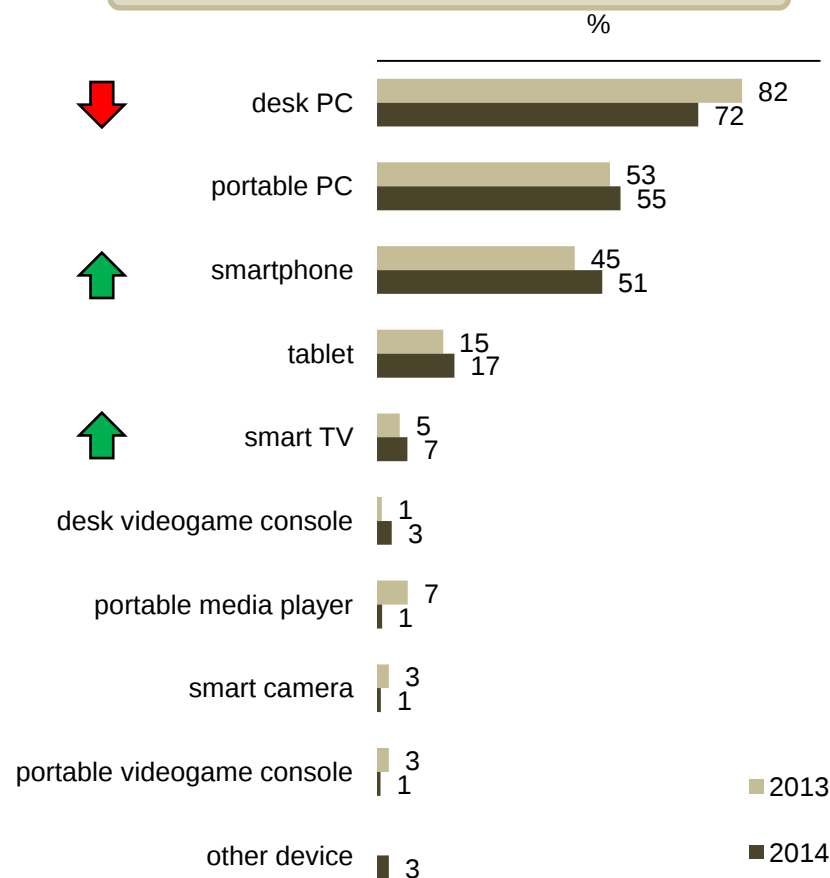
DEVICES FOR INTERNET USE ownership and usage

In 2014, Hungarian Internet users owned 12 types of devices suitable for accessing the Internet. The proportion of people having desk PC or traditional mobile phone has been declining while smartphones, tablets, and smart TVs are becoming more and more widespread. Smart watch was the first wearable device to access the Internet that appeared among Hungarian users. The same trend can be noticed in case of the use of devices. Regarding portable devices, smartphones and tablets have started to replace traditional devices (i.e., traditional mobile phones and laptops).

Possession of devices suitable for Internet use*



Devices used for accessing the Internet**



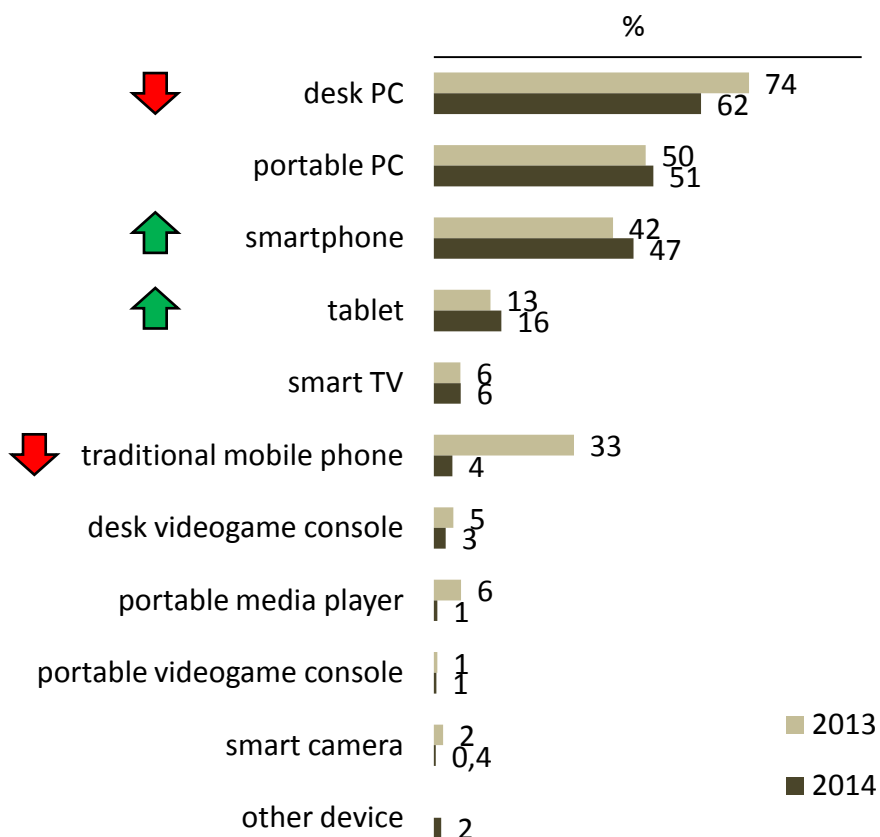
*data refer to household ownership in case of devices used usually by the family

**at home and somewhere else together

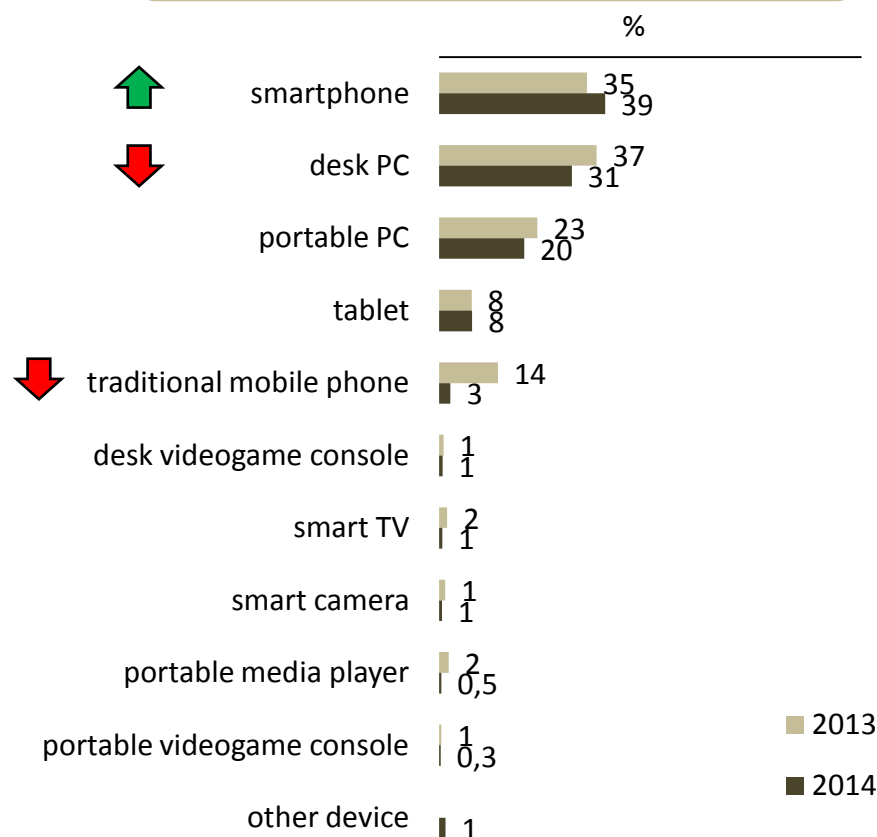
DEVICES FOR INTERNET USE Internet use at home and elsewhere

Data on Internet usage both at home and out of home show that traditional mobile phones and desk PCs are becoming less and less important. Smartphones are also more and more widespread both at home and elsewhere while tablets have become more popular for accessing the Internet rather at home than somewhere else.

Devices used for accessing the Internet at home



Devices used for accessing the Internet somewhere else



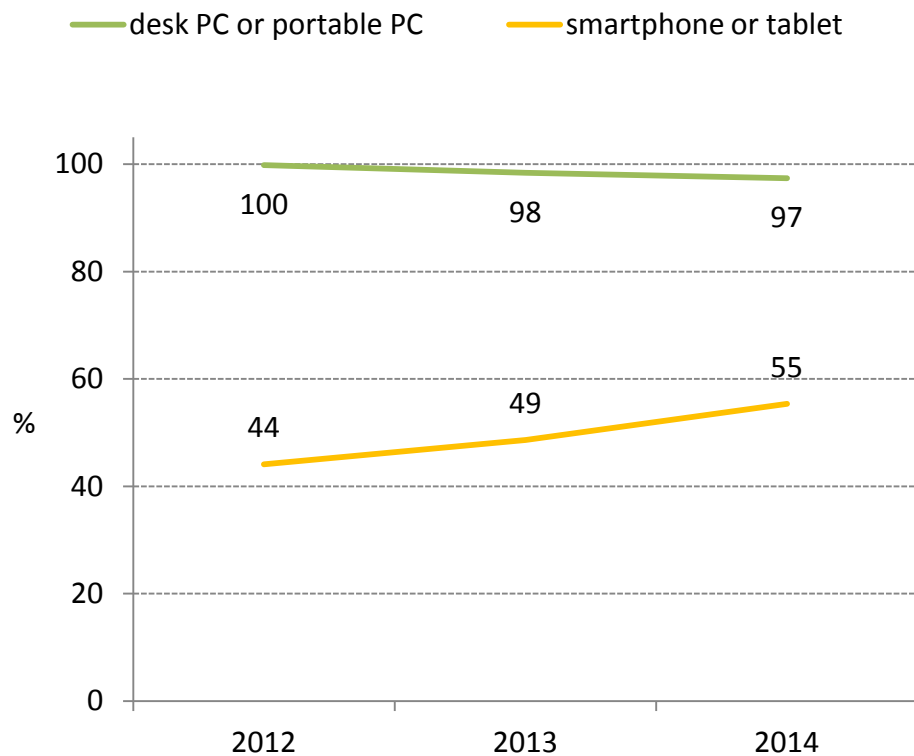
DEVICES FOR INTERNET USE types of devices – 1

In 2014, four devices suitable for about the same kind of online activities have been used in Hungary, and these are desk PCs, portable PCs, smartphones, and tablets.

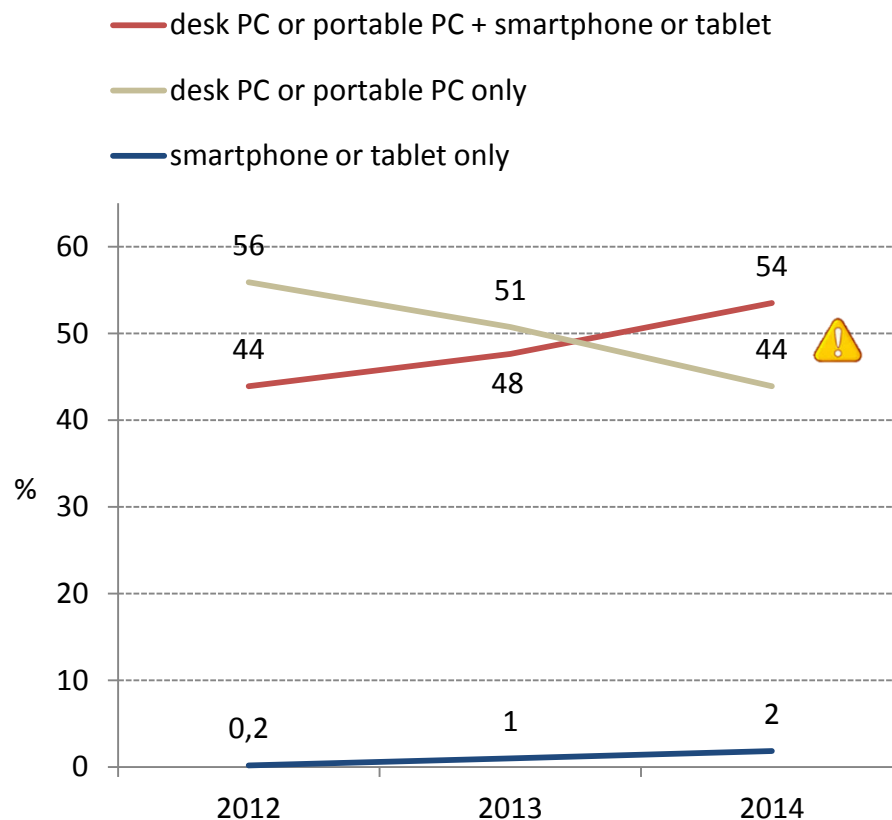
2014 was the first year when more people accessed the Internet on both desk/portable PC and on smartphone/tablet together than those accessed on desk/portable PC only.

The proportion of users accessing the Internet on smartphone/tablet has been slowly increasing, but it is still very low.*

Type of devices used for Internet browsing



Type of devices used for Internet browsing



*Rates indicated here may be higher as recruiting people using the Internet on a hand held device is challenging because of the rather long questionnaire.

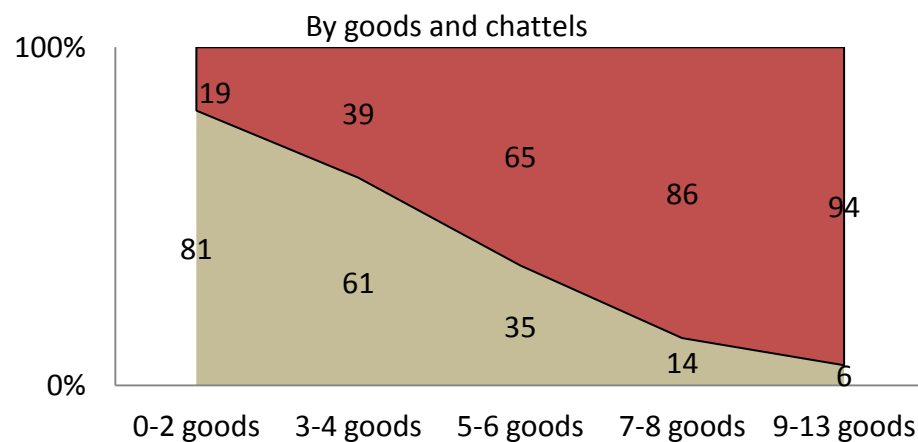
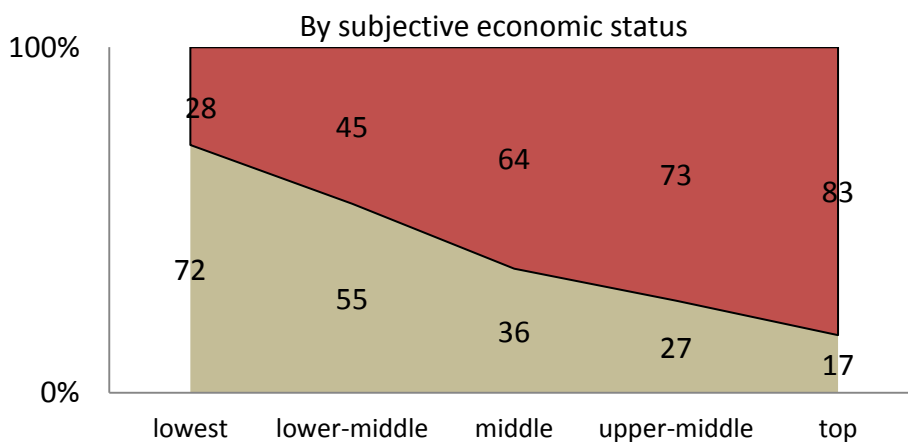
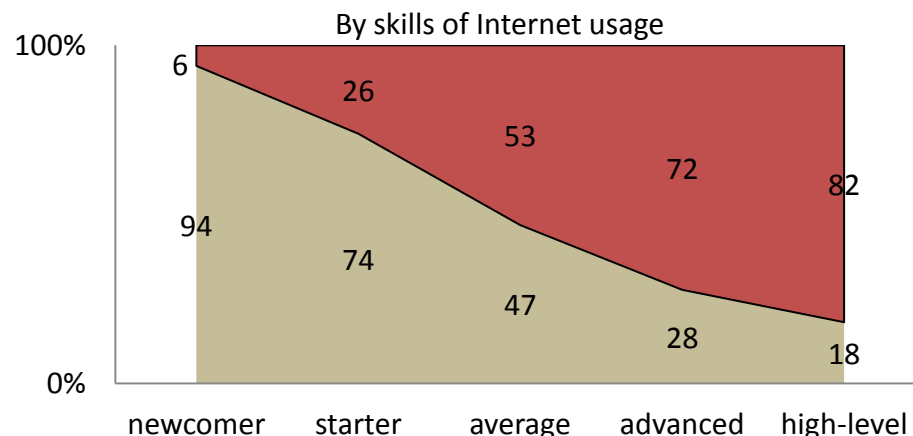
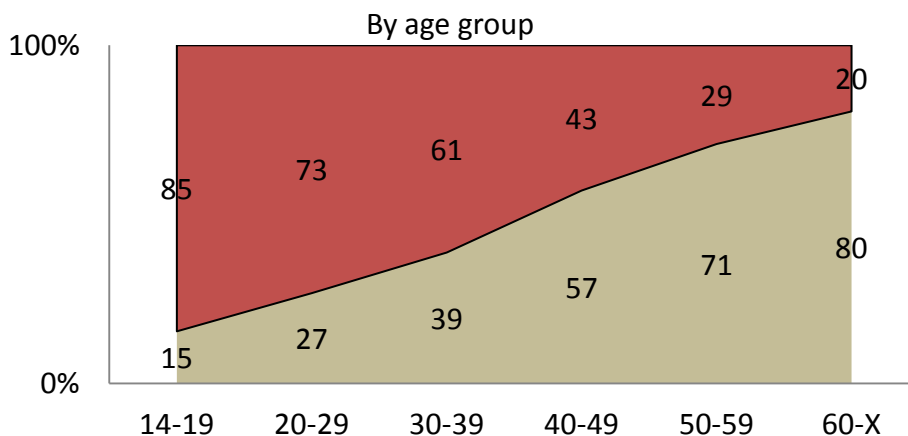
DEVICES FOR INTERNET USE

types of devices – 2

As smartphones and tablets have become widespread rather slowly and Internet usage on these devices require new and special skills, there are significant social inequalities in Internet usage on these two hand held devices. The main reasons of this inequality may be the different adaptive skills (which strongly correlate with age and skills of Internet usage) and different economic status of users.

Type of devices used for the Internet

Smartphone or tablet (as well) Desk or portable PC only



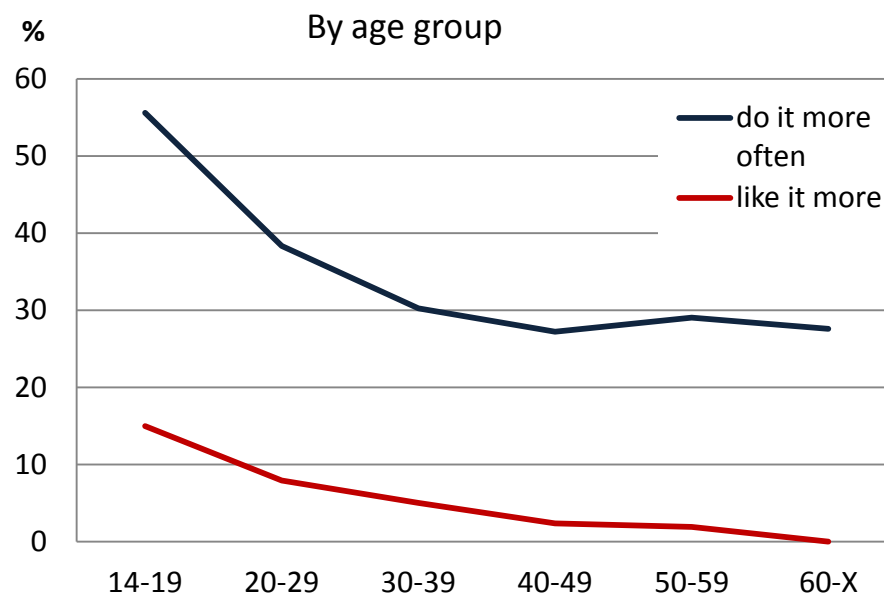
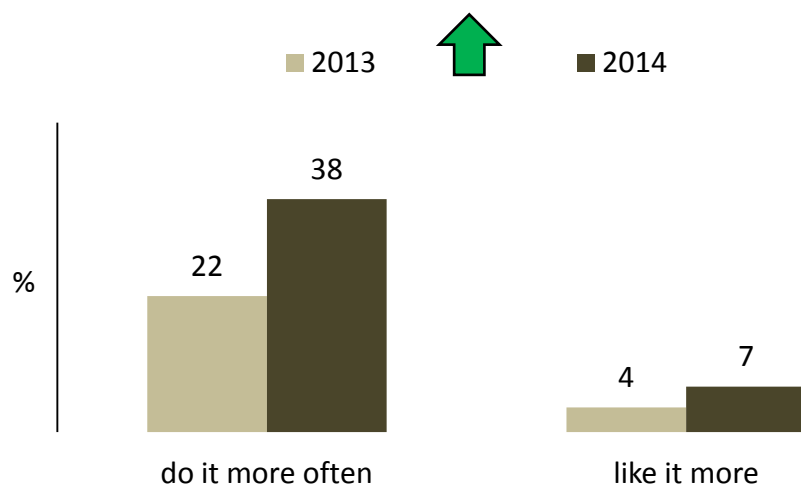
DEVICES FOR INTERNET USE

preference for mobile phone

38% of users accessing the Internet both on PC and mobile phone do it more often on mobile phone than on PC while only 7% preferred this modality, i.e. mobile phone to PC. Both rates have increased significantly since the year before.

More young people prefer their mobile phone for using the Internet than elderly people.

Preference for mobile phone for accessing the Internet by frequency of usage* and popularity



*The question was about leisure time Internet usage

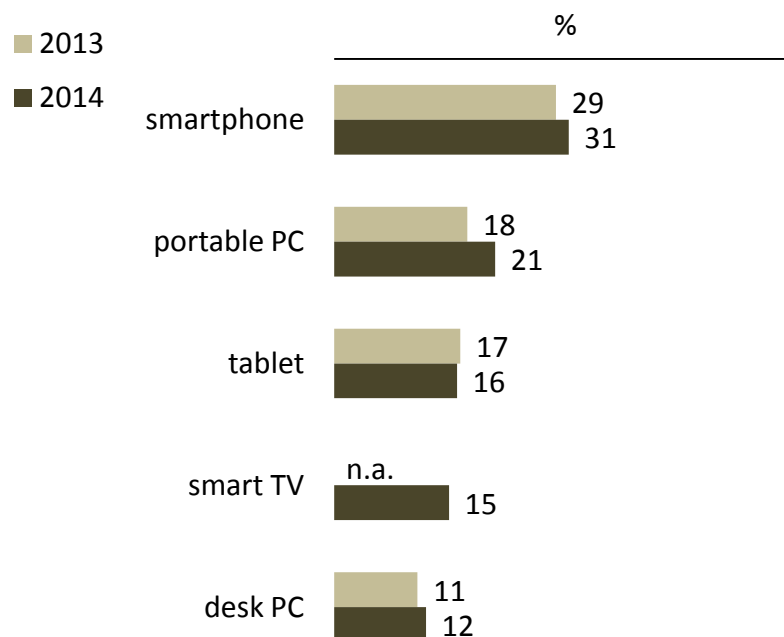
TOOLS OF INTERNET USAGE purchasing plans – 1

Purchasing plans for the next 6 months have not changed significantly compared to 2013.

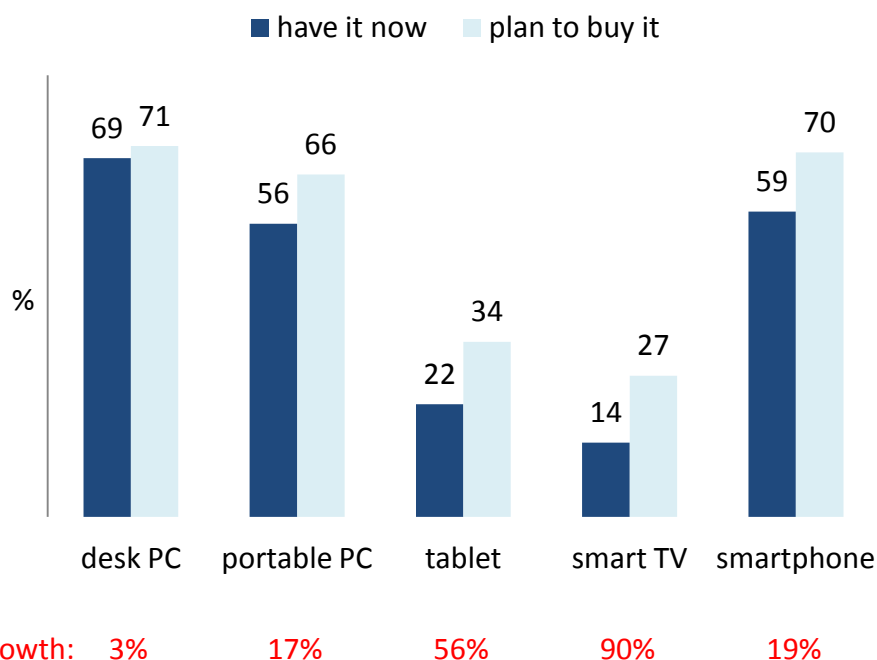
The largest growth in take-up may be forecasted in case of devices of lowest penetration such as tablets and smart TVs.

If all purchasing plans come true, take-up of smartphones will reach the penetration level of the presently most widespread desk PCs in 2015.

Purchasing plans for the next 6 months



Proportion of device owners now and after all purchasing plans come true



TOOLS OF INTERNET USAGE

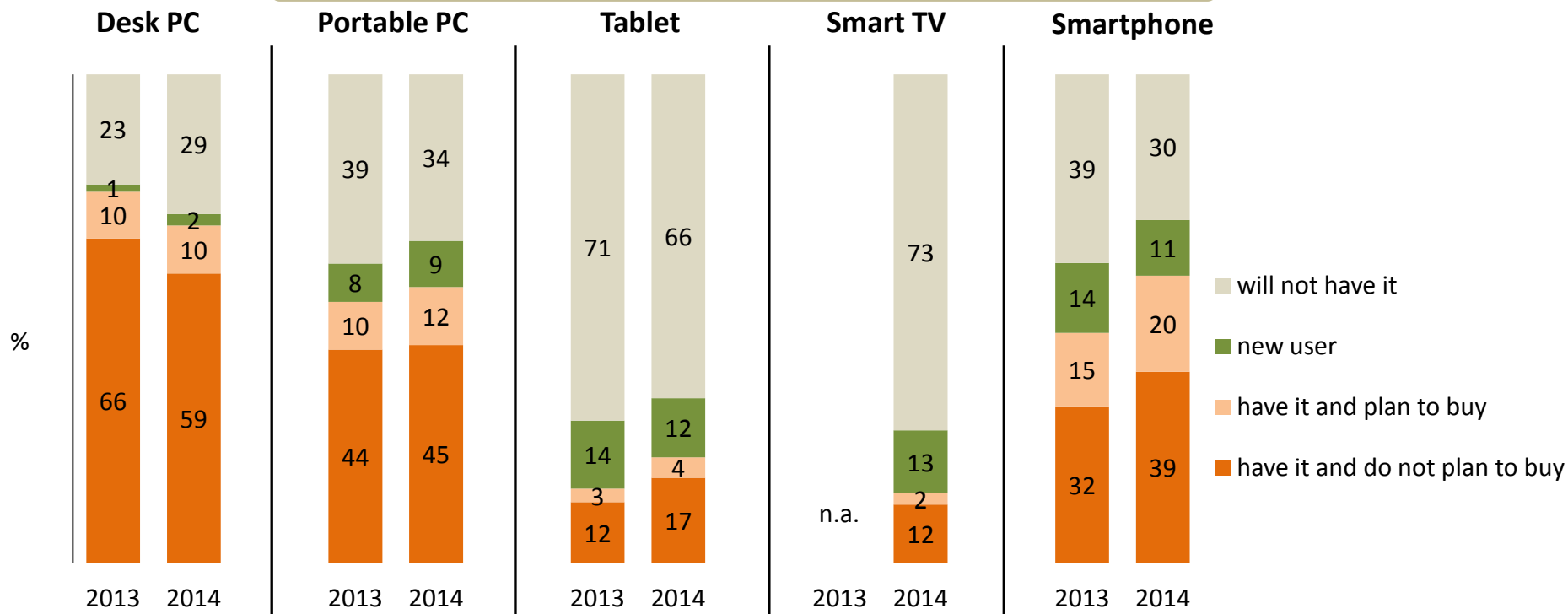
purchasing plans – 2

In case of desk PCs, purchasing plans mean mostly upgrade or extend the number of PCs at home.

Regarding portable PCs and smartphones, the proportion of users planning upgrade or extension of the present devices is also higher than of possible new users who do not have these devices yet. This is the first year when more people plan to upgrade their smartphone than those who plan to buy their first one.

In case of devices showed up on the market recently, i.e. tablets and smart TVs, more people plan to buy their first devices than those who plan to upgrade the existing ones.

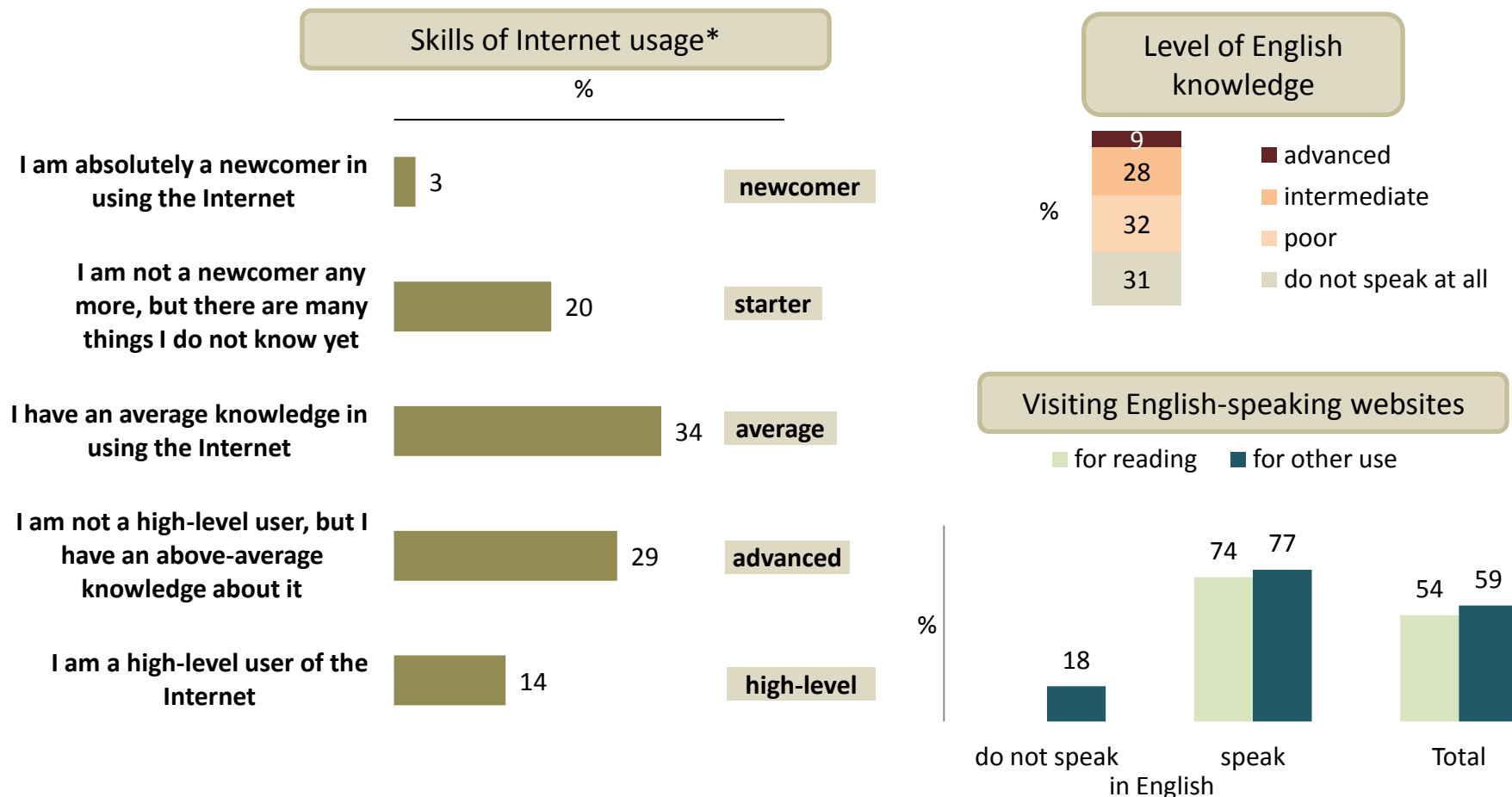
Possession of devices and planning to buy them in the next 6 months



INTERNET USAGE skills of Internet use and English knowledge – 1

Proficiency on Internet usage have a strong impact on online activities. It is an important indicator of forecasting possible changes in the near future: the activities of advanced users of today will be done by average users tomorrow and by newcomers on the day after.

English knowledge fosters Internet usage (and vice versa as well). 69% of Hungarian Internet users have some kind of English knowledge. The majority of users speaking in English and even the minority of people without English knowledge visit English-speaking websites.

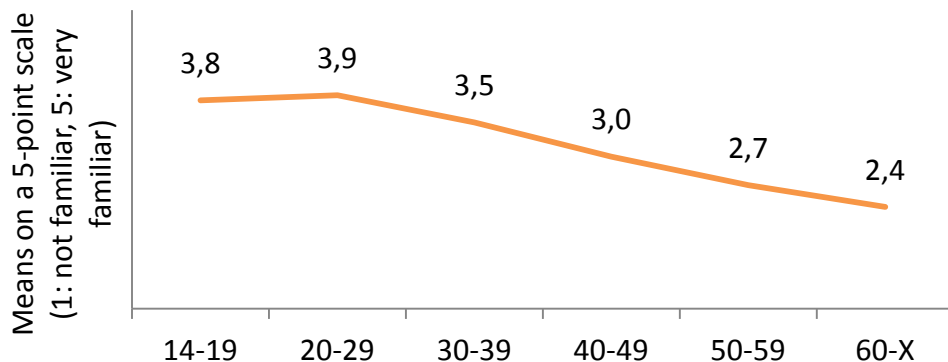


*Because of lack of space, only short labels of Internet skills are used on other slides of this presentation.

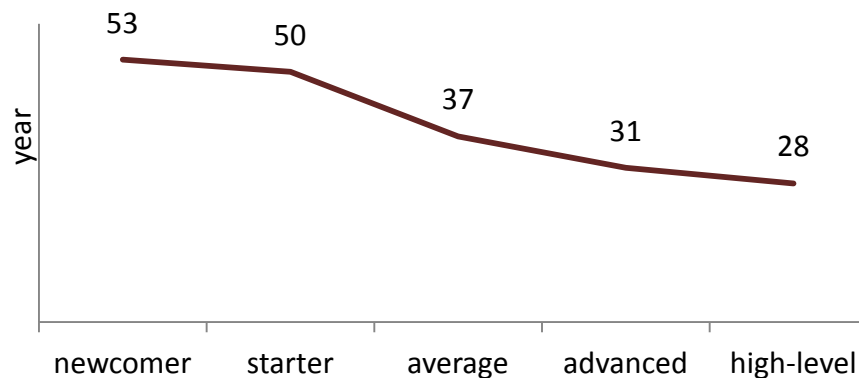
INTERNET USAGE skills of Internet use and English knowledge – 2

Age still have a great impact on skills of Internet usage. High-level users are in their 20's while newcomers and starters are about 50 years old. More than 90% of young people in their 10's and 20's speak English in a certain level and four-fifth of them use English-speaking websites constituting the vast majority of the world wide web.

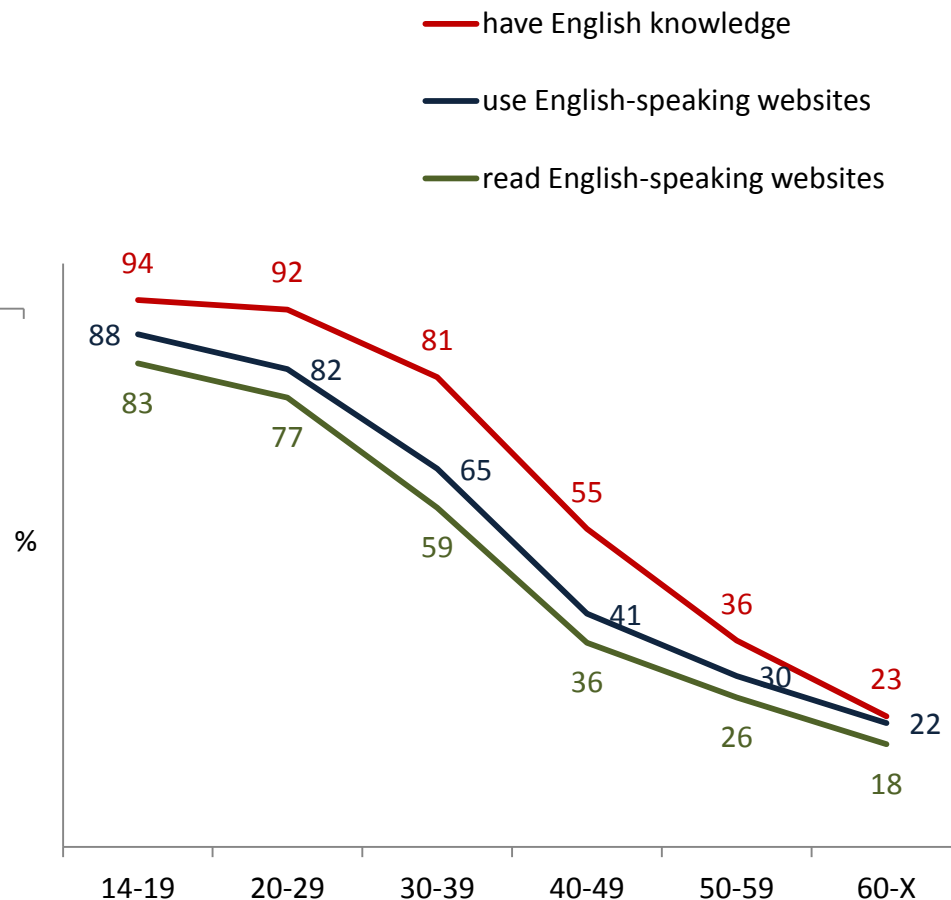
Proficiency on Internet usage



Average age



English knowledge and use of English-speaking websites

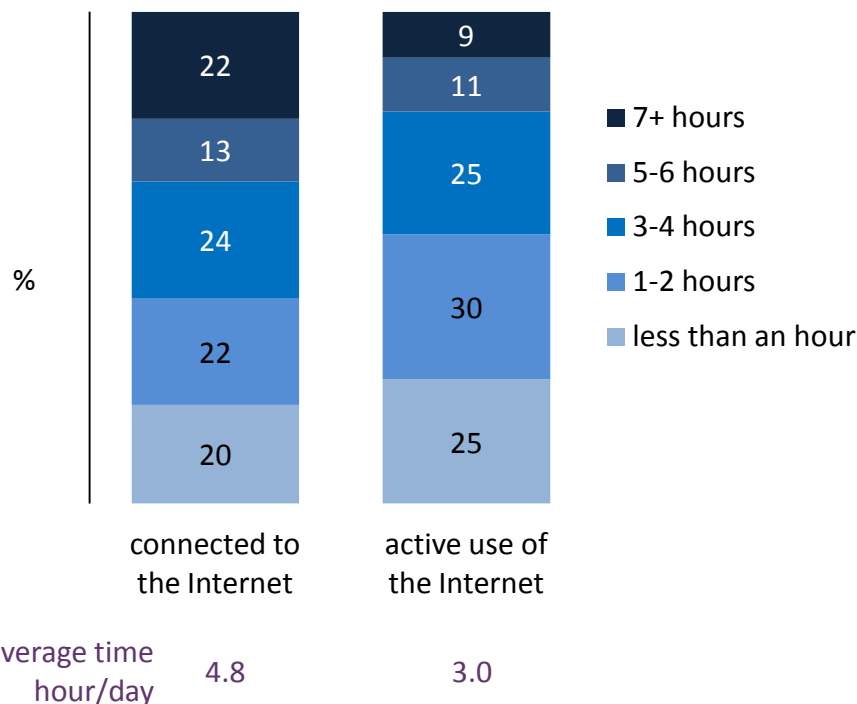


INTERNET USAGE time spent online per day – 1

The wish of being constantly online is wide spreading globally and it is intensified by the spread of smartphones. This demand has a strong influence on the development of devices, networks, and applications, and on the lifestyle of consumers.

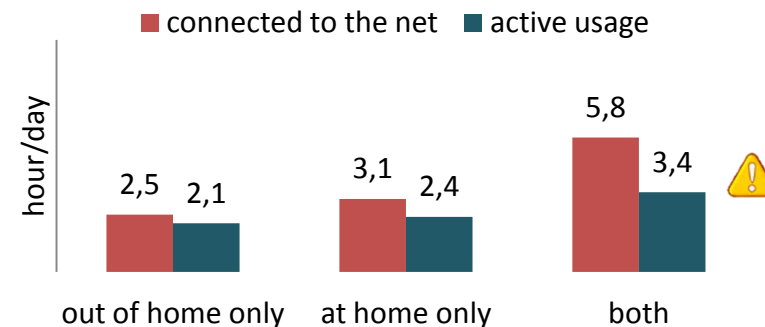
Hungarian Internet users spend 4.8 hours a day connected to the Internet on average, out of which 3 hours are spent on active usage. The difference between these two intervals is larger among people who use the Internet both at home and out of home and who access the Internet on smartphone or tablet as well, respectively.

Time spent on the Internet per day

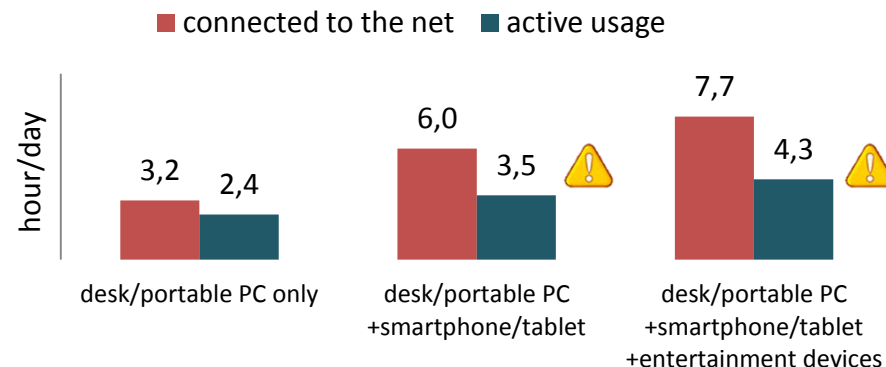


Average time spent on the Internet per day

By location of Internet usage



By devices used for the Internet



INTERNET USAGE

time spent online per day – 2

Men, the youth (especially college and university students), people living in Budapest, with higher economic status, doing office work, managers, and entrepreneurs spend more time than others both by being connected to the Internet and with active usage. Among people who spend the most time on the Internet, average time of being connected to the net is much higher than the average time of active usage compared to other social groups who spend less time online.

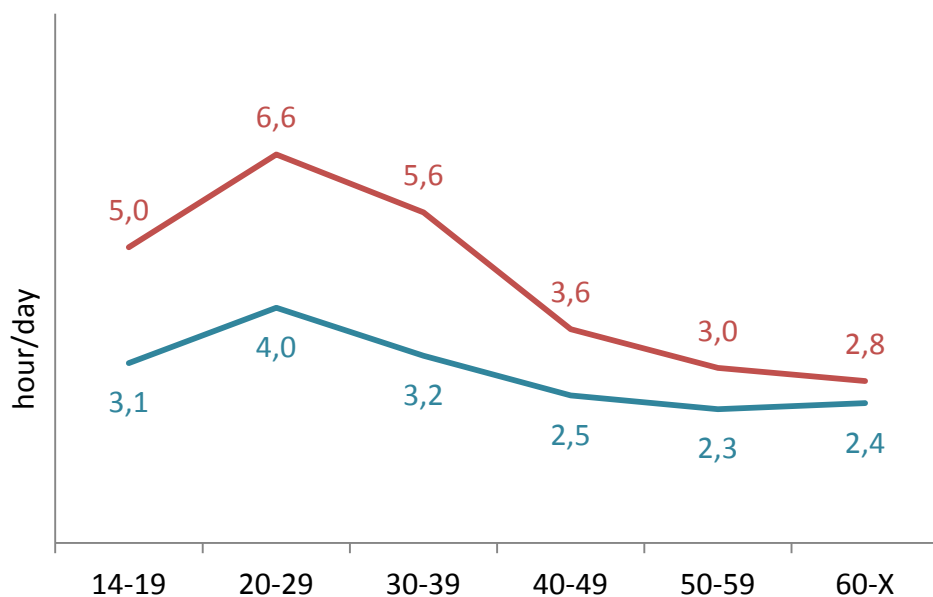
Average time spent on the Internet per day

By age group



connected to the net

active usage

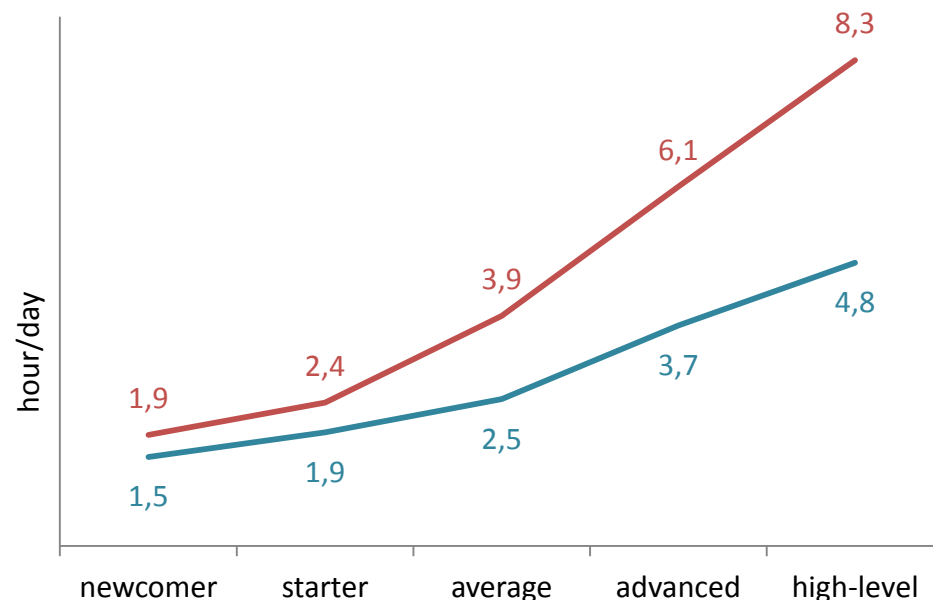


By skills of Internet usage



connected to the net

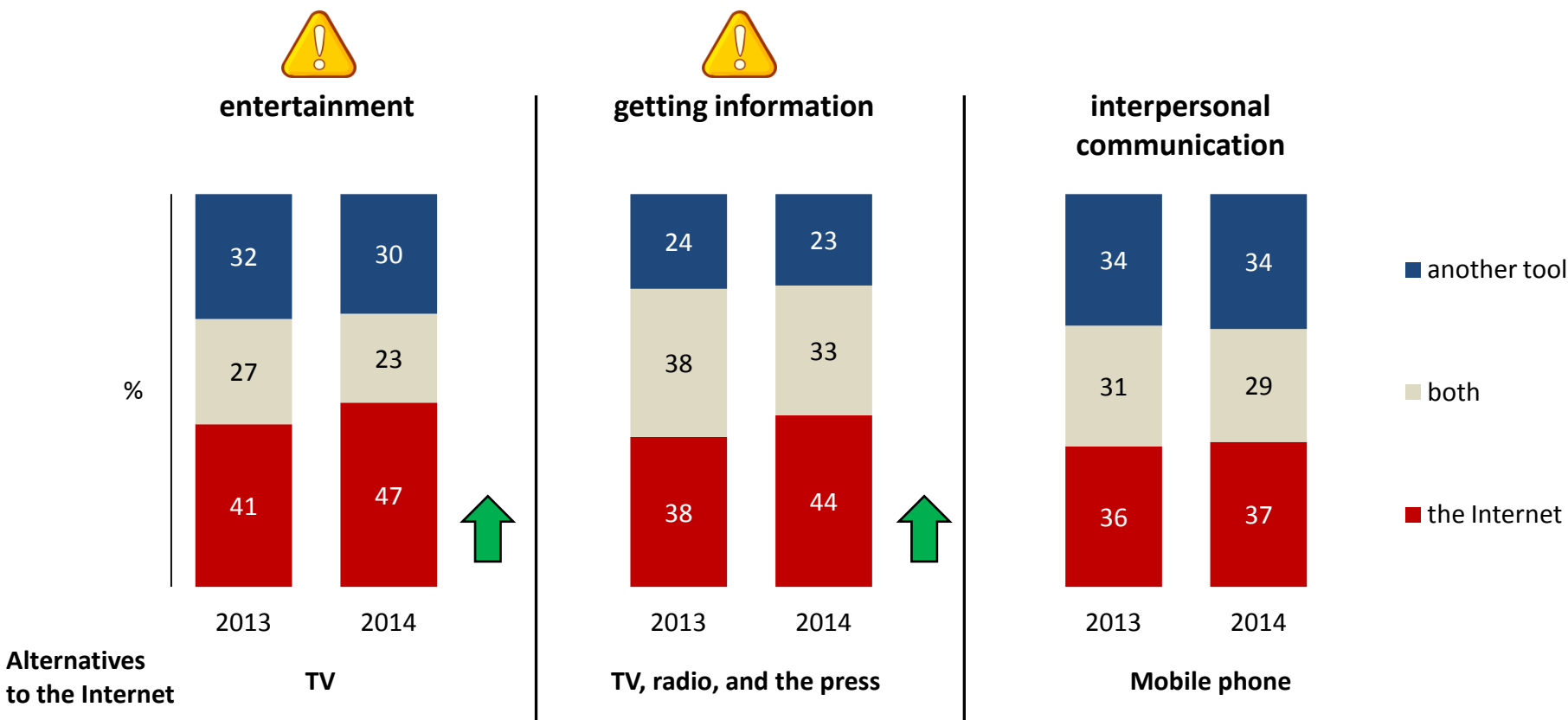
active usage



INTERNET USAGE change in habits

Regarding entertainment, getting information, and interpersonal communication, the proportion of users preferring the Internet to other competing communication tools has been increasing significantly. 2014 is the first year when the Internet has overtaken its rivals in all three categories, although, the difference from mobile phone is still minor in case of interpersonal communication.

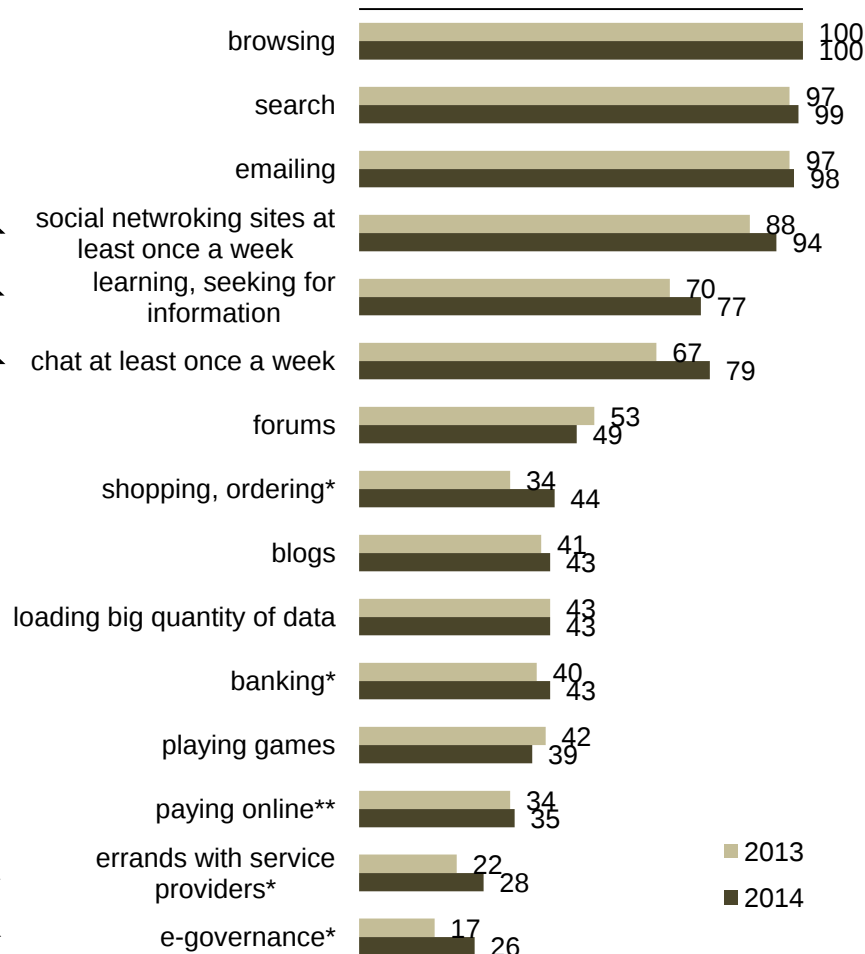
Which tool do you use more for the following purposes?



INTERNET USAGE penetration of activities

Activities done in the last 6 months

%



In 2014, there were four activities that were done by about all Hungarian Internet users. In 2013, 93% used social networking sites/information sharing sites/applications, but 2014 was the first year that more than 90% have done these at least on a weekly basis.

The proportion of users learning and seeking for information online and who chat online at least once a week, respectively has increased significantly in 2014.

2013 and 2014 data on activities marked with asterisk cannot be compared precisely, because the questionnaire of 2014 has been redesigned to unify the time period of all activities to be 6 months. Thus, the referred time period is different in 2013 and 2014 in case of some activities.

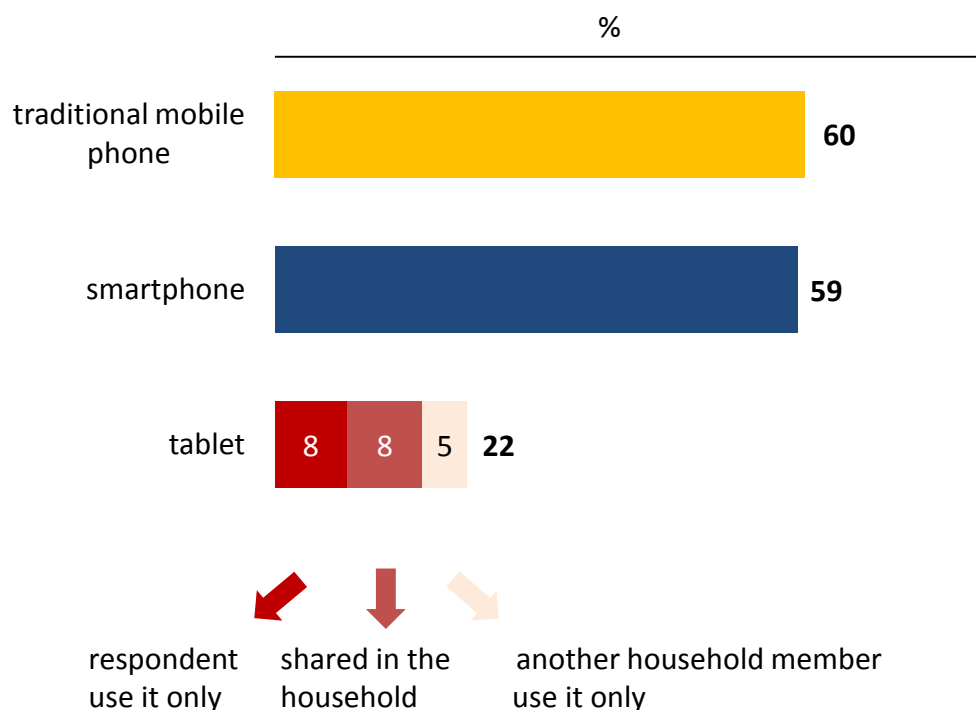
MOBILE PHONE, SMARTPHONE, TABLET

possession

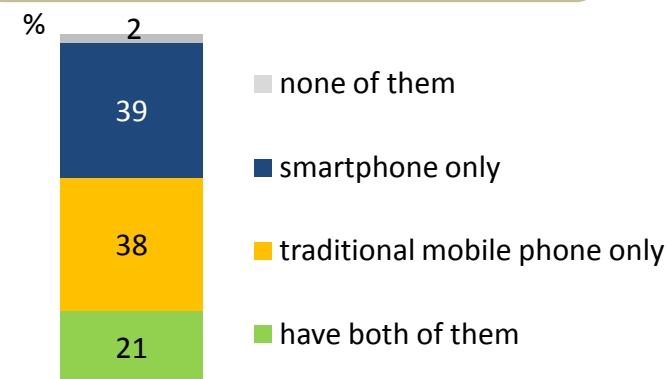
All Internet users have a mobile phone or smartphone and one fifth have both.

While mobile phones and smartphones are rather personal devices, tablets are often used as a common device of the household. Tablet users usually have smartphone as well.

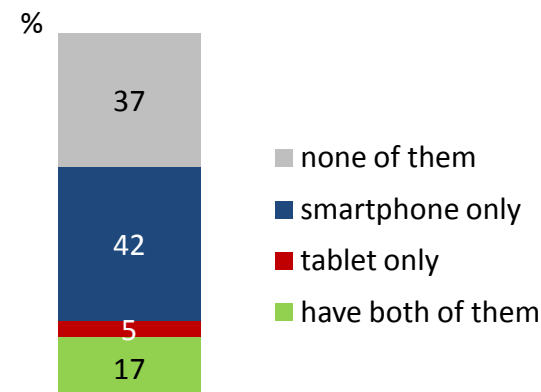
Possession of hand held devices suitable for the Internet



Possession of mobile and smartphones



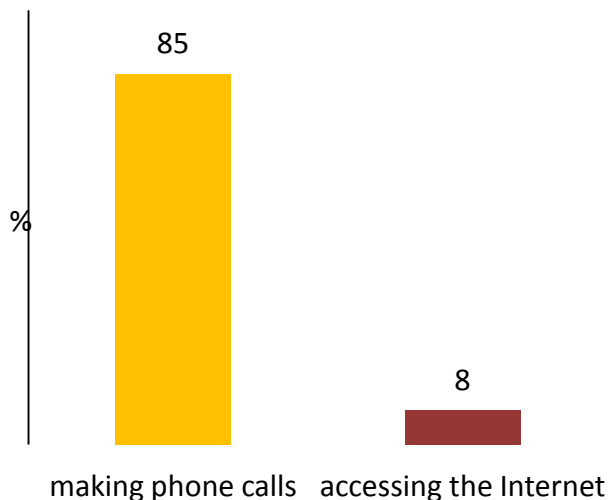
Possession of smartphone and tablet



MOBILE PHONE, SMARTPHONE function

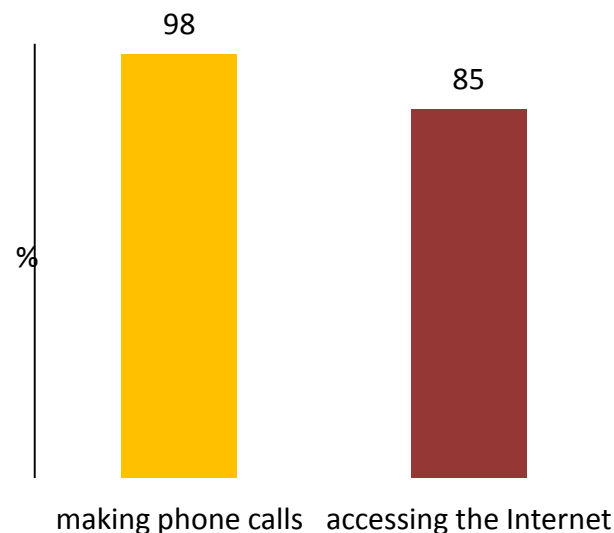
Practically all smartphone users make phone calls and the vast majority use the Internet as well on their device.
Traditional mobile phones are mostly used for making phone calls.

The function of traditional mobile phones



There are users of traditional mobile phones (15%) who use their device neither for making phone calls nor for accessing the Internet but for other functions (e.g. playing games, calendar, alarm clock) and who keep it for reserve, respectively.

The function of smartphones



SMARTPHONE, TABLET social background – 1

Still more males than females have smartphones and tablets, respectively, but the inequality noticed in previous years has declined significantly. Regarding the type of settlement of Internet users, three stages can be identified: inhabitants of the capital have smartphones and tablets, respectively the most often while penetration is the lowest in villages.

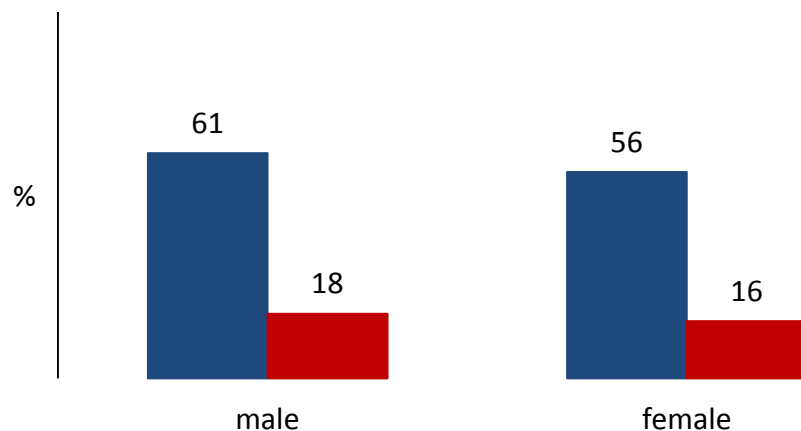
Total sample

smartphone 59%
tablet 17%

Possession of smartphones and tablets

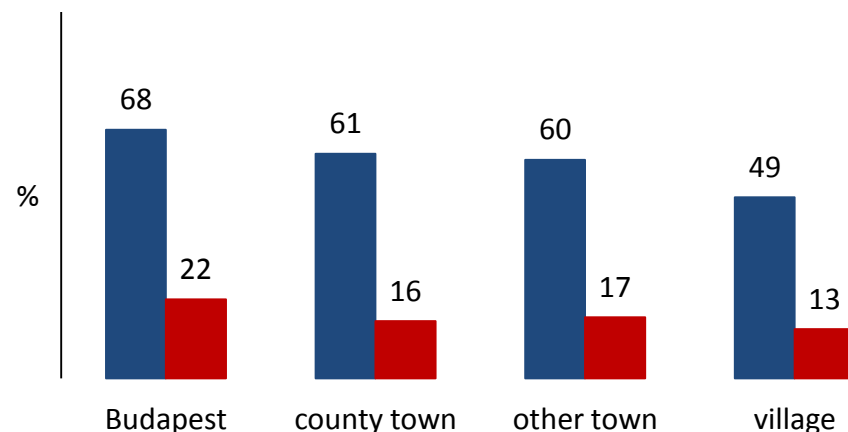
By gender

■ smartphone ■ tablet



By place of living

■ smartphone ■ tablet



SMARTPHONE, TABLET social background – 2

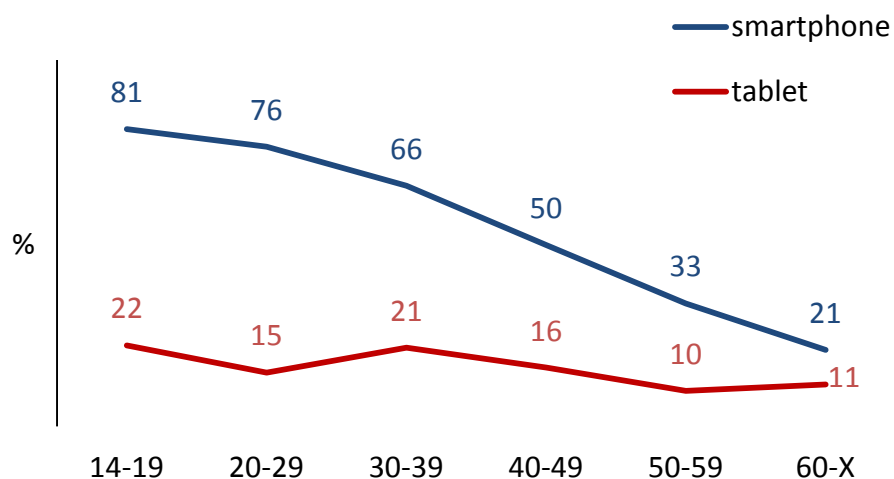
The largest difference in the penetration of smartphones can be noticed by age groups and skills of Internet usage.
Penetration of tablets is also unequal by these two indicators.

Total sample

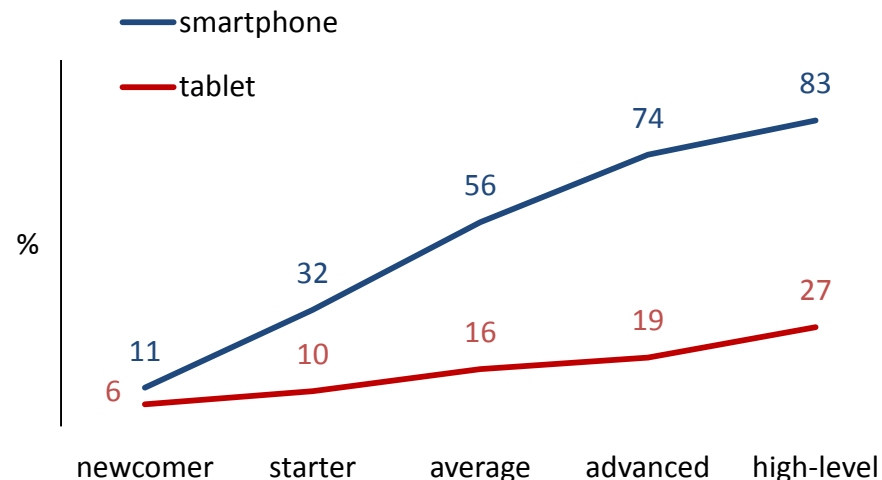
smartphone 59%
tablet 17%

Possession of smartphones and tablets

By age group



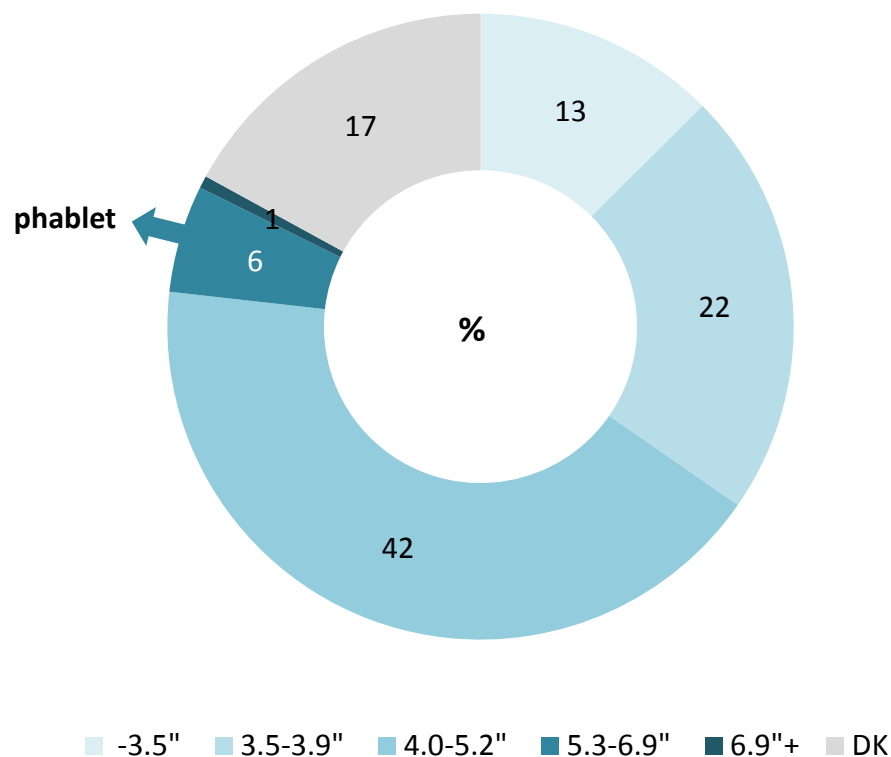
By skills of Internet usage



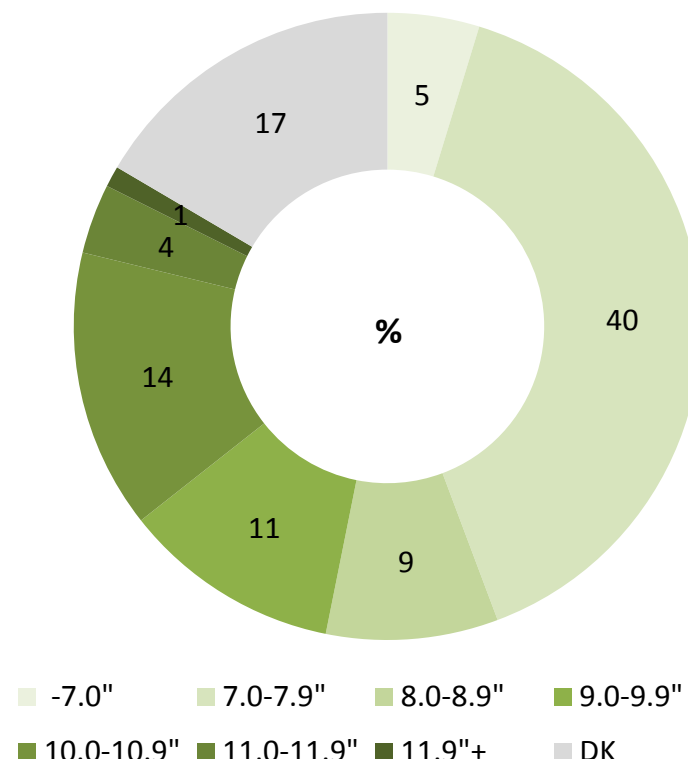
SMARTPHONE, TABLET size

The majority of smartphone users, and tablet users, respectively have small screens. The main reason of this may be the lower price of these devices. The relatively low proportion of phablets may be explained by their price and the fact that these are new devices in the Hungarian market, and besides, that their huge size make them less practical for certain users.

Smartphone screen size



Tablet screen size



SMARTPHONE, TABLET operating systems and applications

The Android operating system is the most widespread in case of both hand held devices. The proportion of Apple products is very low compared to certain developed countries, because these devices are too expensive for Hungarian consumers.

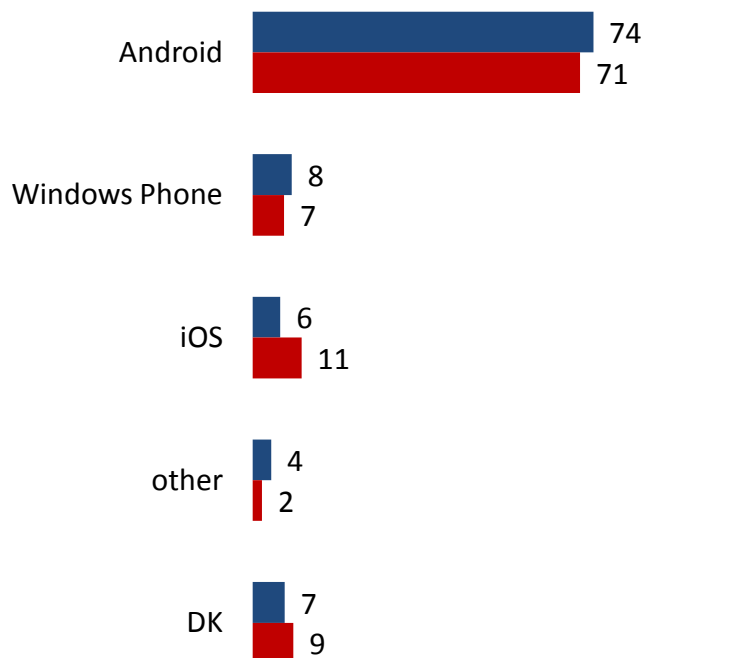
Almost everybody who access the Internet with smartphone and tablet, respectively uses applications. (Those who do not use any application are mostly do not access the Internet on these devices.)

Operating systems

■ smartphone

%

■ tablet

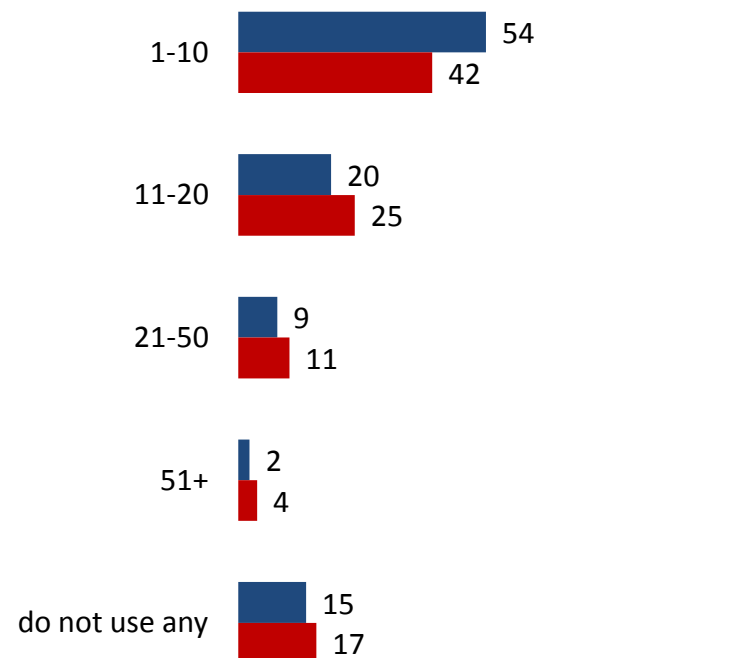


Number of applications used

■ smartphone

%

■ tablet

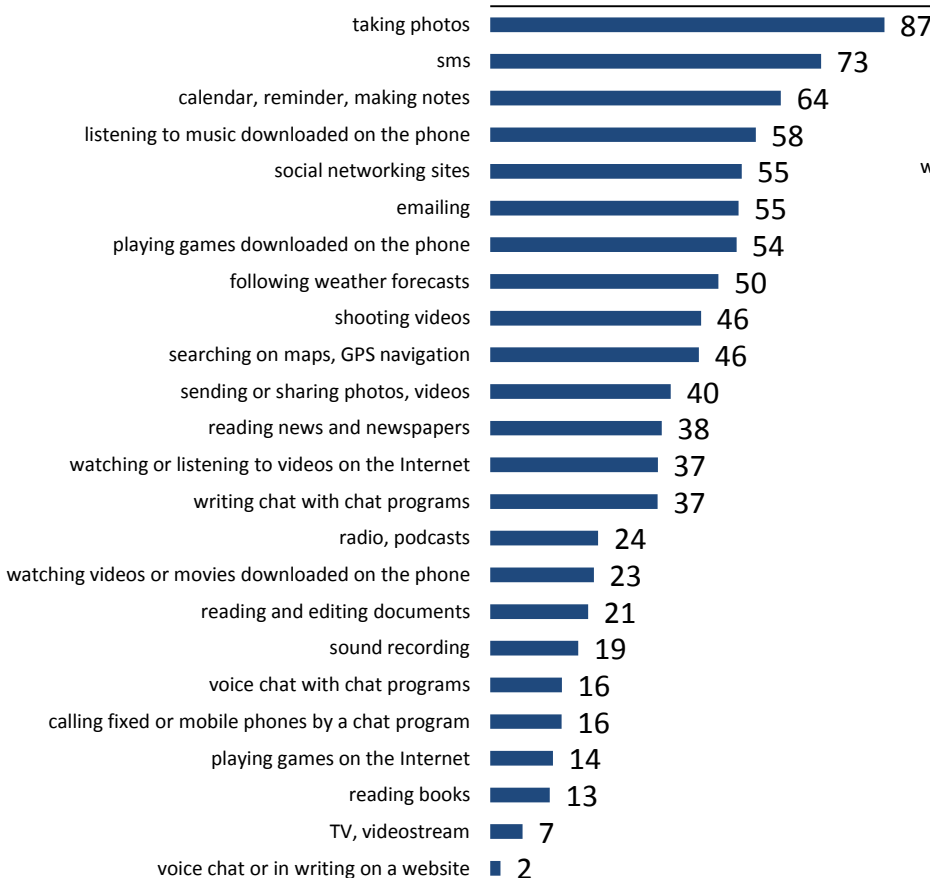


SMARTPHONE, TABLET activities

Internet users use both devices tailored to their physical characteristics. Although both devices are portable, can be used en route, both have operating systems and storage capacity, there is a major difference in their usage as smartphones are smaller and keep only one hand occupied. Thus, smartphones are rather used as a feature phone and a personal assistance device for shorter activities while tablets are rather used as a portable PC for more time consuming activities.

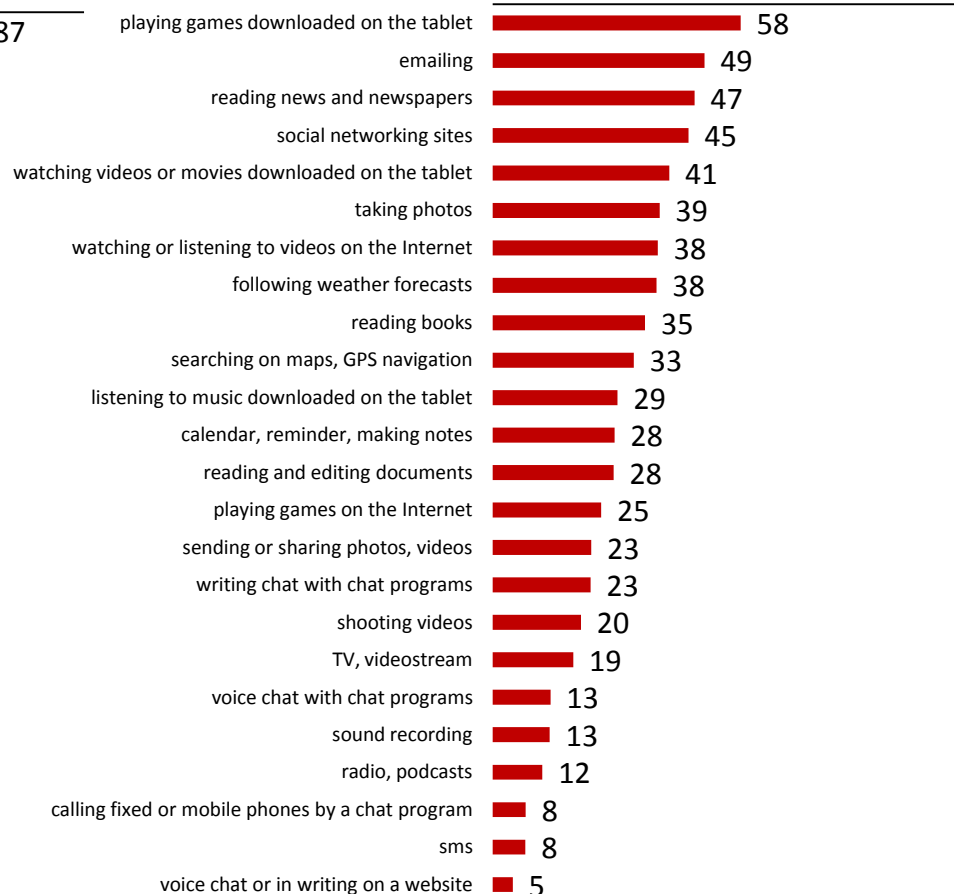
Activities on smartphones

%



Activities on tablets

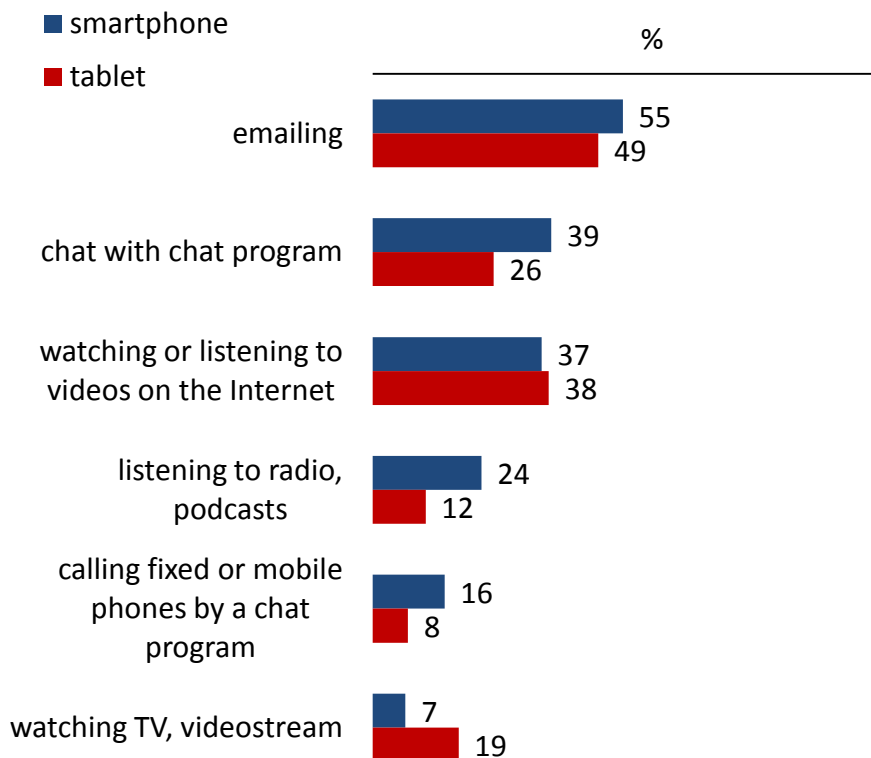
%



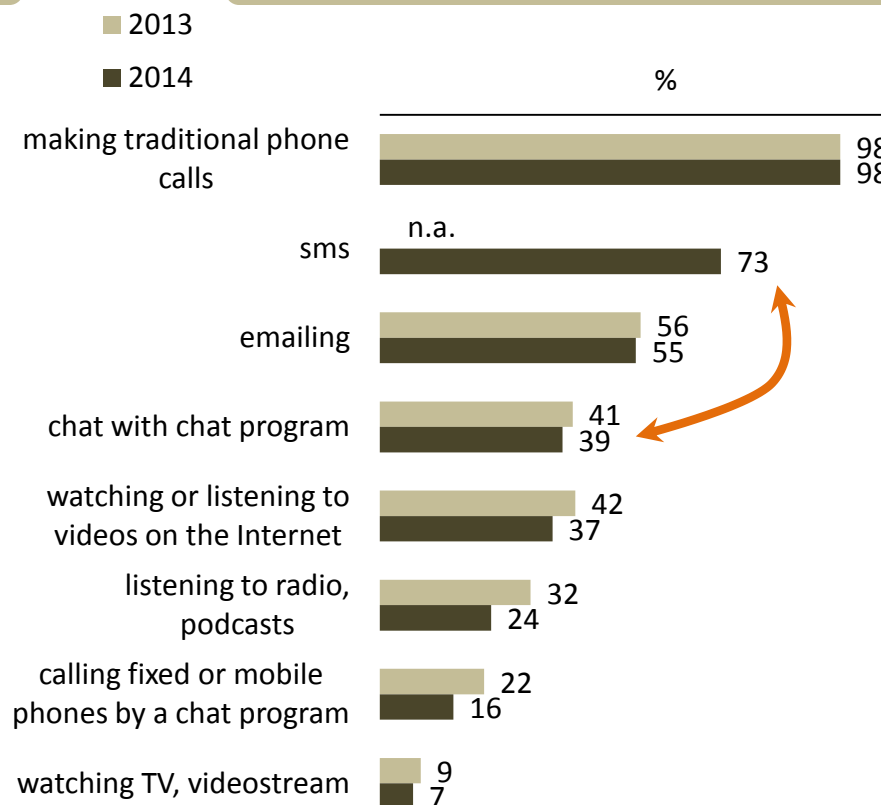
SMARTPHONE, TABLET communication activities

Regarding communication activities, chat and VoIN (i.e. unmanaged VoIP) are more frequent on smartphones than on tablets. Smartphone capability for FM radio broadcasts may be the reason for the higher proportion for radio and podcasts listening on smartphones. The larger screen of tablets may be a reason for the higher proportion of users watching TV or videostream on this device. Since 2013, watching videos, listening to radio, and using VoIN among smartphone users have slightly declined.

Activities on smartphones and tablets



Activities on smartphone in 2013 and 2014



TV SET take-up

93% of Internet users watch TV at home and half of them have LED TV, OLED TV or plasma TV.

30% of Internet users have a TV set that can be connected to the Internet, i.e. online contents can be watched on the TV screen. Having a TV set suitable for Internet usage is in strong correlation with the economic status of users, especially, in case of smart TV.

22% of users watch online contents on TV screen instead of on the screen of their PC and 6% on TV instead of the display of their smartphone (with wired or wifi connection).

Take-up of TV sets

%

any type of TV set

93

flat screen

52

TV set suitable for the
Internet*

30

%

21

14

6

set-top box connecting
the TV to the Internet

smart TV

TV "made smart"
(e.g. ChromeCast)

Take-up of TV sets suitable for accessing the Internet

By goods and chattels

TV set suitable for accessing the Internet

set-top box connecting the TV to the Internet

smart TV

TV "made smart"

%

10

20

35

48

64

7

16

23

29

45

1

2

6

10

16

0-2 goods

3-4 goods

5-6 goods

7-8 goods

9-13 goods

*Some Internet users use several technical solutions for connecting the TV set to the Internet, e.g. because they have more than one TV sets.

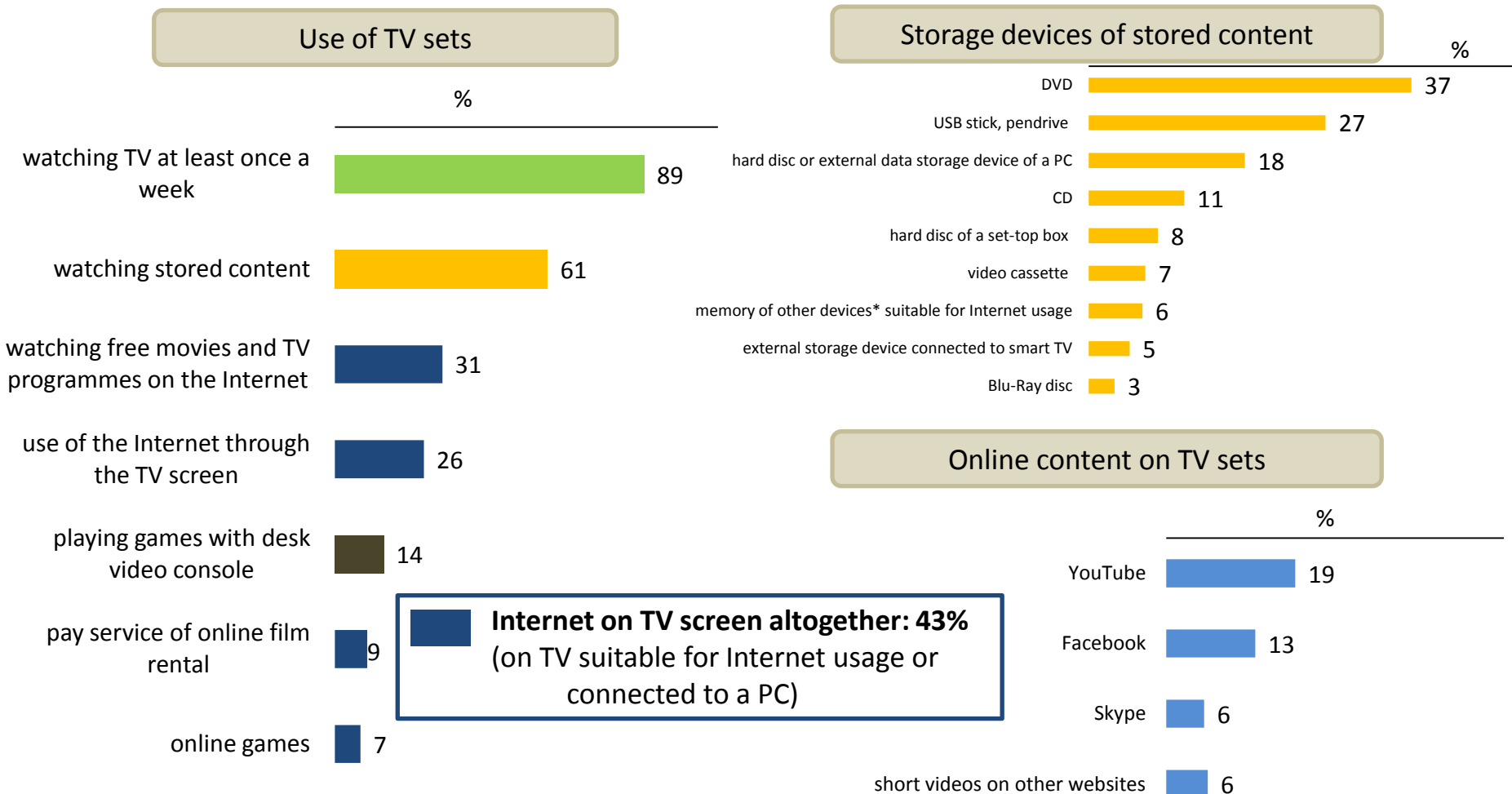
Internet users

n=3125

N=5.7 m

TV SET usage

Internet users mostly use their TV set for watching TV programmes and the majority watch stored contents as well. 43% watch online content on TV screen connected to the Internet by any device, and most of them watch free movies and TV programmes on the Internet.



*Smartphone, tablet, video camera, smart camera, portable media player

OTT CONTENTS

We defined consumption of OTT contents in our survey by the following online activities and use of websites, applications, and services, regardless of the device used for accessing the Internet.

Video contents

- watching online movies, video or videostream
- watching live or catch-up TV programmes online
- use of pay service of online film rental
- IndaVideó, Indafilm
- Videa
- YouTube
- iTunes
- Google Play Movies
- Telenor MyTV
- Telekom TV GO
- Fuso
- HBO GO
- ITT/OTT TV
- UPC TV Apps

Audio contents

- listening to music online
- listening to live or catcht-up radio programmes online
- listening to podcasts
- YouTube
- iTunes
- Google Play Music
- Telenor Deezer
- Vodafone Zene! 24/7
- Telekom Spotify
- Telekom Zenecenter

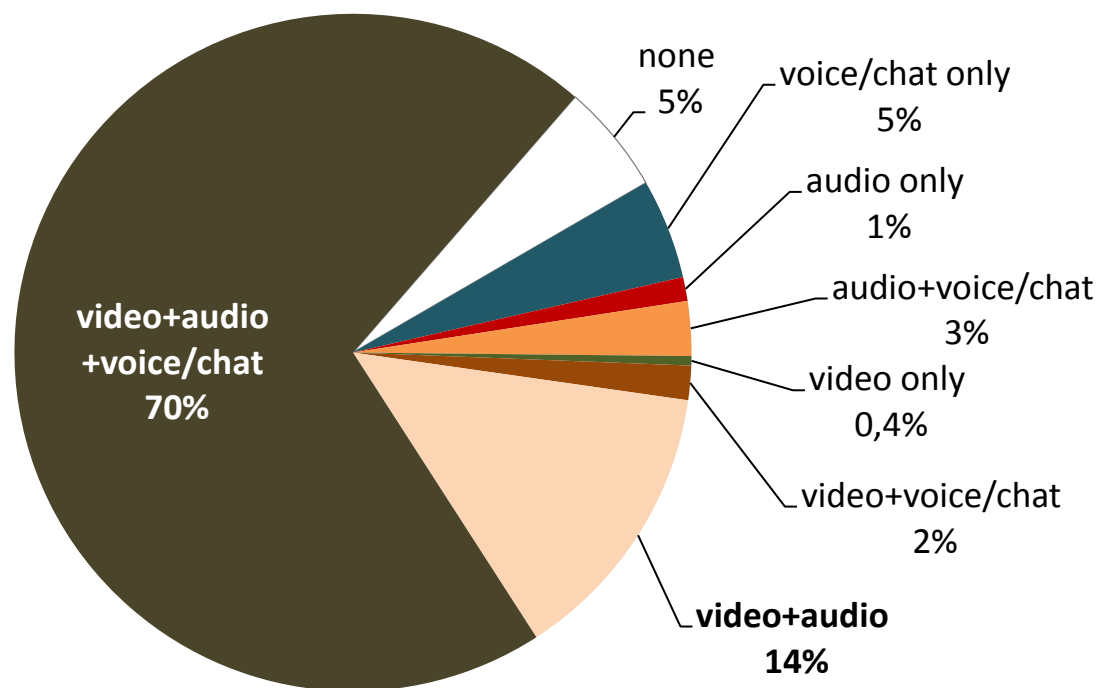
Voice and chat

- voice chat or in writing with chat programs, chat applications or on a website
- calling fixed or mobile phones by a chat program
- Skype
- Facebook Chat
- GTalk
- Viber
- WhatsApp

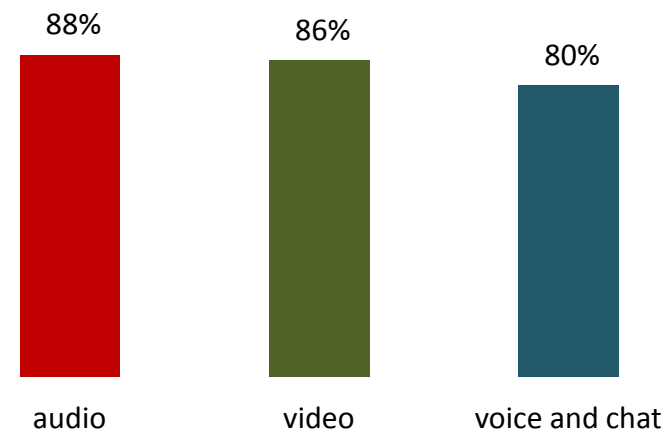
USE OF OTT CONTENTS types

95% of people using the Internet at least once a week use OTT contents, out of which 70% use all three types of video, audio, and voice or chat contents.

Use of OTT contents



Use of each type of OTT contents



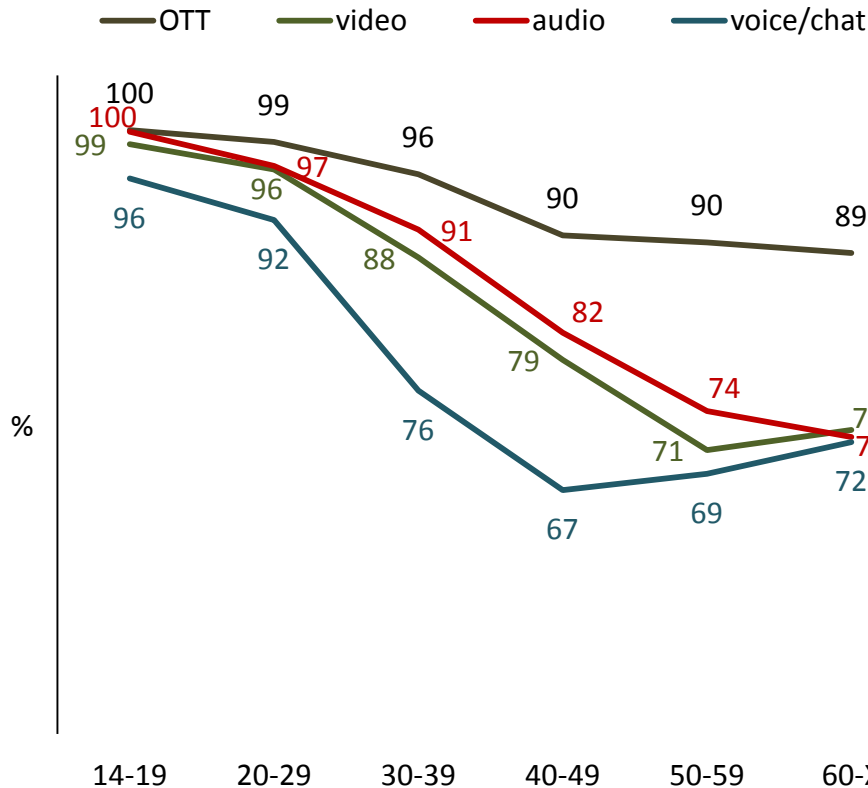
USE OF OTT CONTENTS demographic background

The use of OTT contents is so widespread that only newcomers of Internet usage are lagging behind.

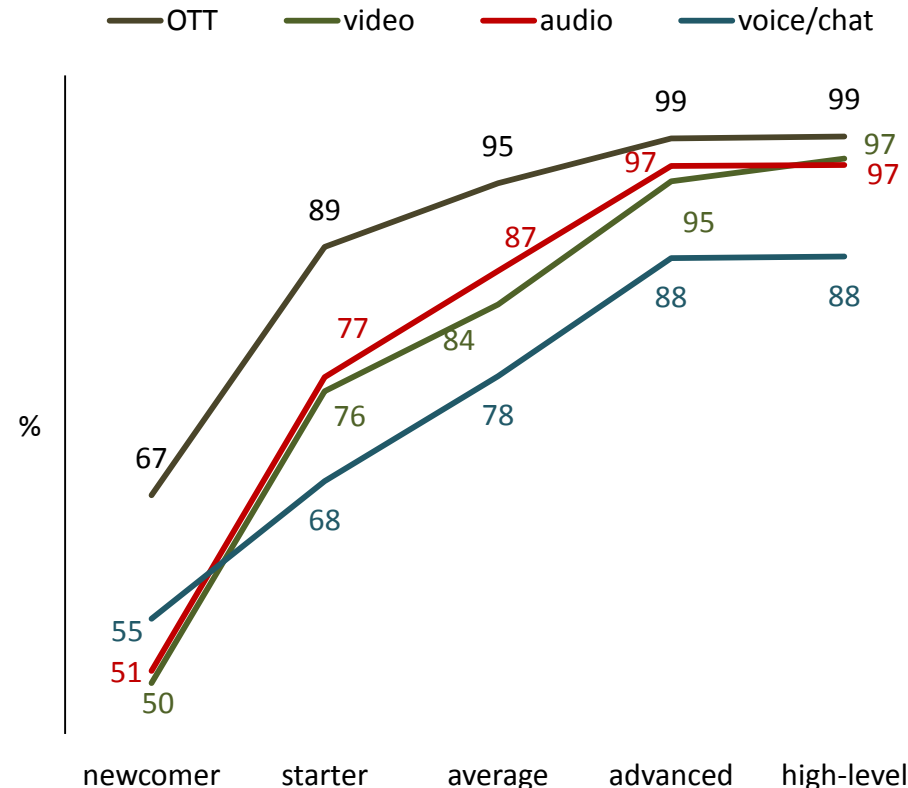
Mostly all three types of OTT contents are accessed by both young users spending a great amount of time on the Internet and experienced Internet users.

Use of each type of OTT contents

By age group



By skills of Internet usage

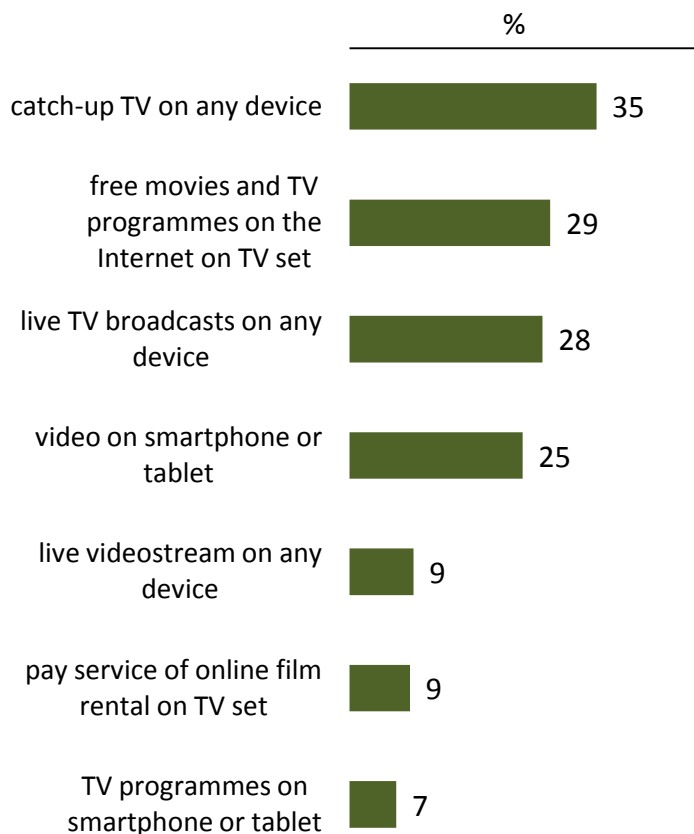


Users of OTT contents	n= 2961	N= 5.4 m	Video content	n= 2694	N= 4.9 m	Audio content	n= 2746	N= 5.0 m	Voice and chat	n= 2485	N= 4.6 m
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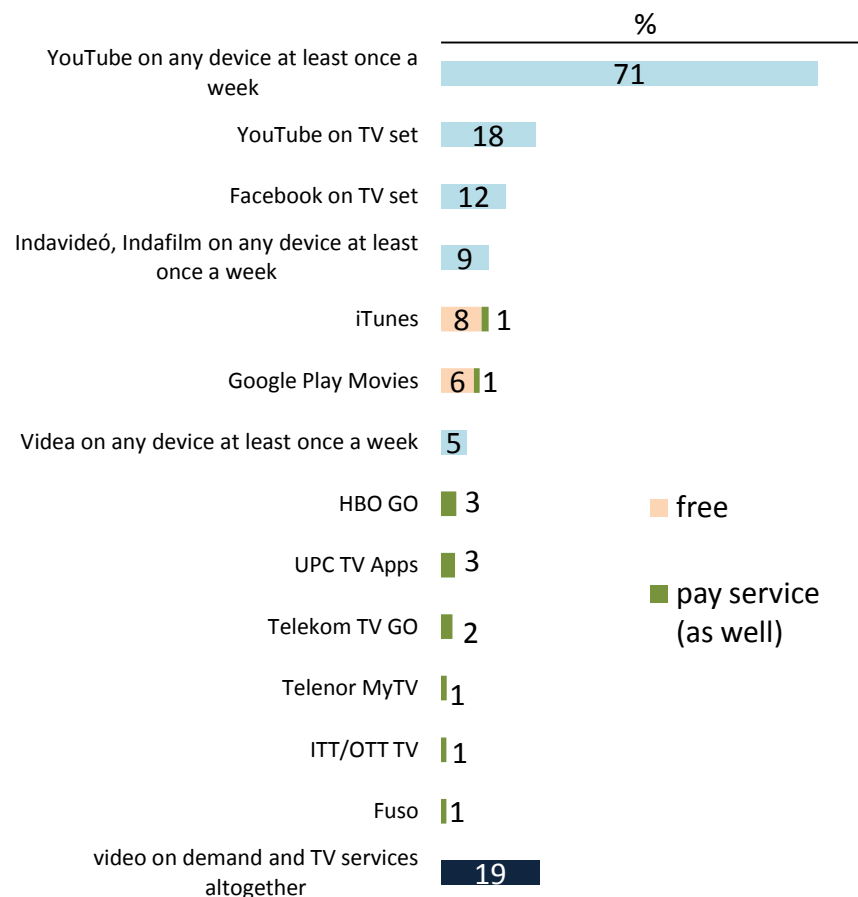
OTT video contents

86% of people using the Internet at least once a week use OTT video content, mostly on YouTube. 35% watch TV programmes and TV series they either missed during normal broadcast times or are broadcasted on a channel they do not subscribe for or are not broadcasted in Hungary at all. 19% use any of the video on demand (VoD) or TV services listed in our questionnaire. 12% have already used pay service of OTT video contents.

Watching OTT video contents



Watching OTT video contents

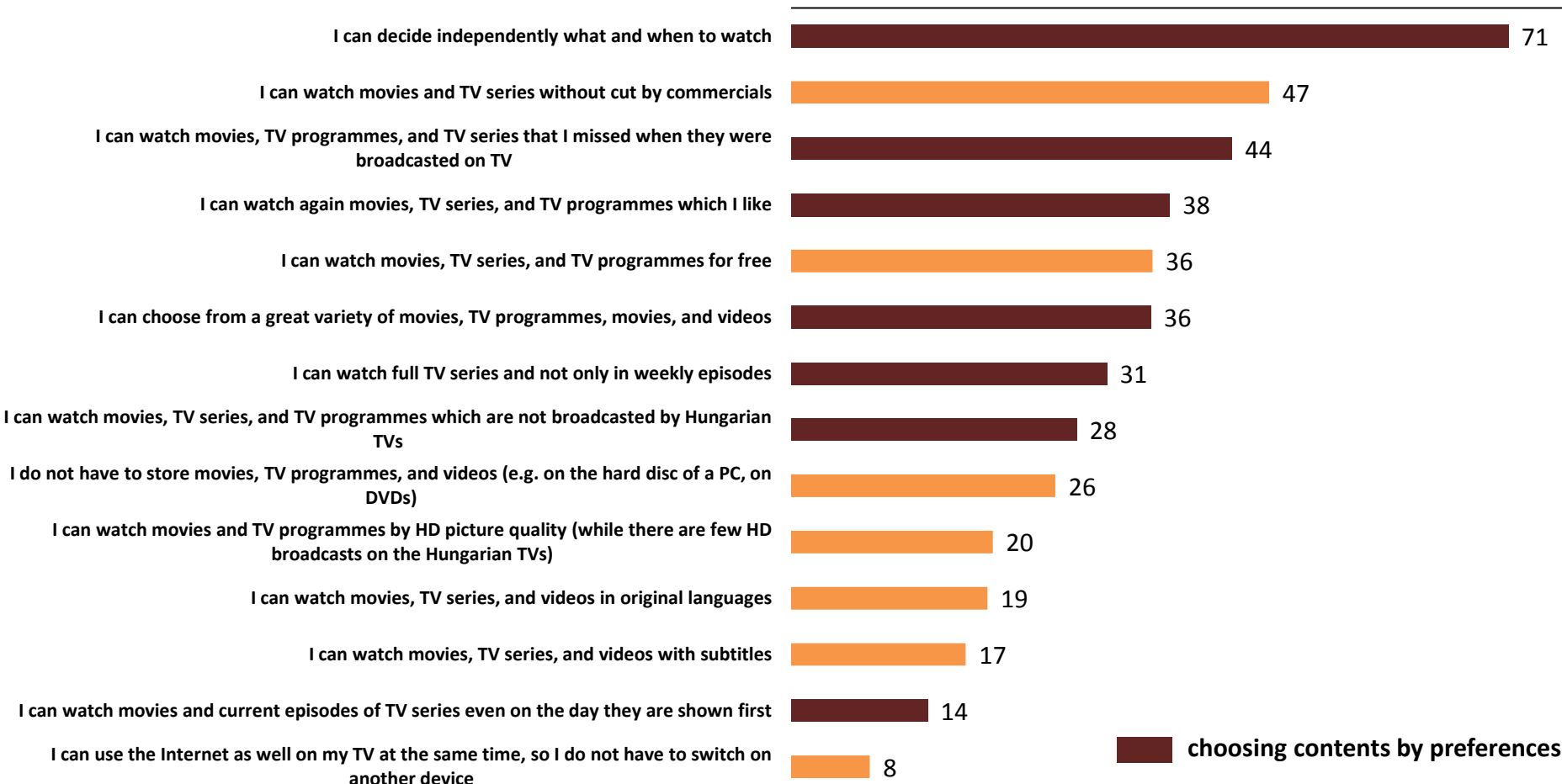


OTT advantages of OTT video contents

In general, consumers of OTT video contents say that the biggest advantage of this mode is that they can choose contents by their preferences (and other aspects of this opinion). The lack of commercials and fees (i.e. it is free) are also advantageous for many users.

Advantages of OTT video contents

%

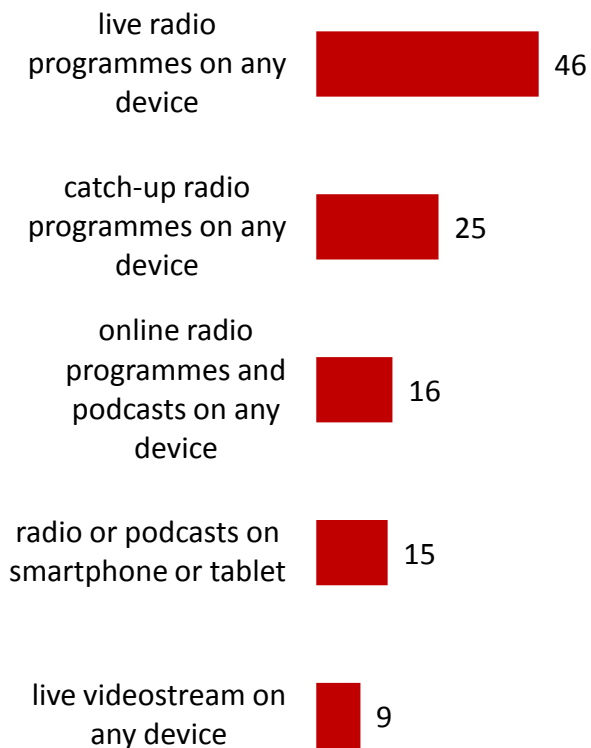


OTT audio content

88% of people using the Internet at least once a week listen to OTT audio content, mostly sound contents and music on YouTube. Listening to traditional radio broadcasts on the Internet is also rather usual. 19% of people use any of the audio on demand services listed in our questionnaire, out of which 15% use free services only.

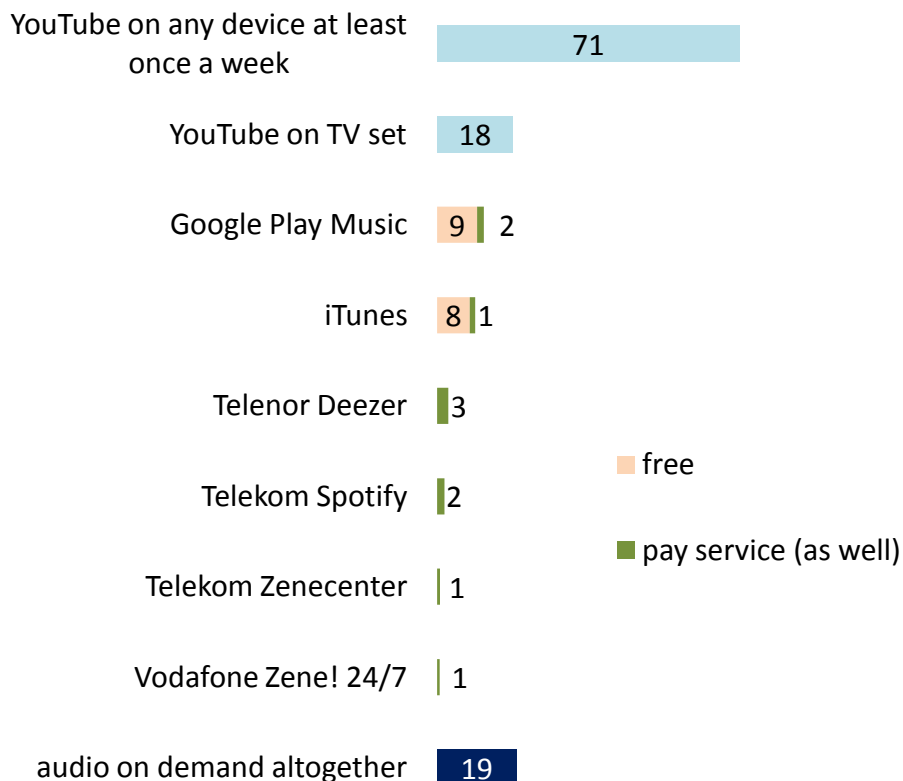
Listening to radio

%



Listening to music

%



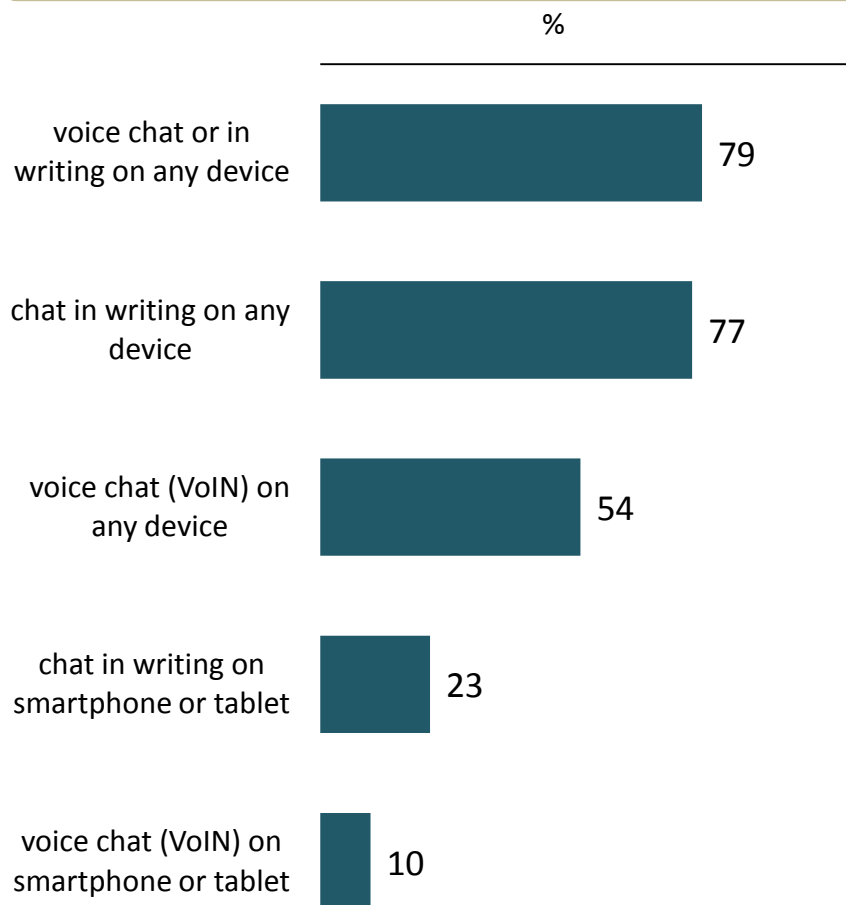
free

pay service (as well)

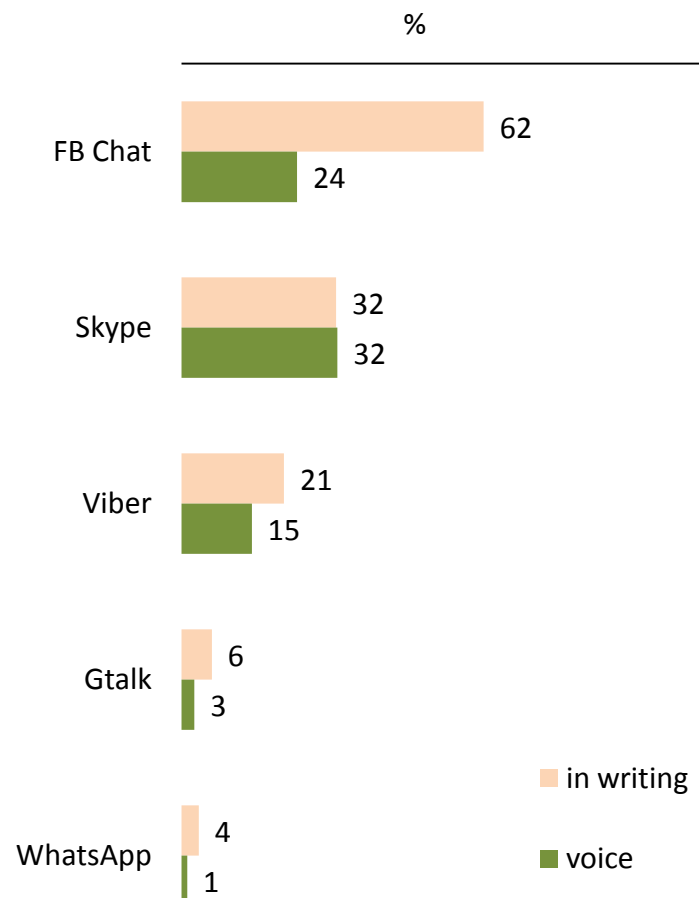
OTT voice and chat

80% of people using the Internet at least once a week use OTT voice chat or chat in writing, out of which 77% use messaging and 54% use voice chat. Facebook Chat/Messenger is the front runner in chat in writing while Skype is the most popular chat program in case of voice chat.

Chat and VoIN (i.e. unmanaged VoIP) with chat programs



Chat on any device



USE OF OTT CONTENTS change in habits

About one quarter of the users of each type of OTT contents admit that they watch TV, listen to radio and make phone calls less, as a result of accessing OTT contents. This experience is not shared entirely among all users, there are a few people who say they use the traditional communication modalities more often than before.

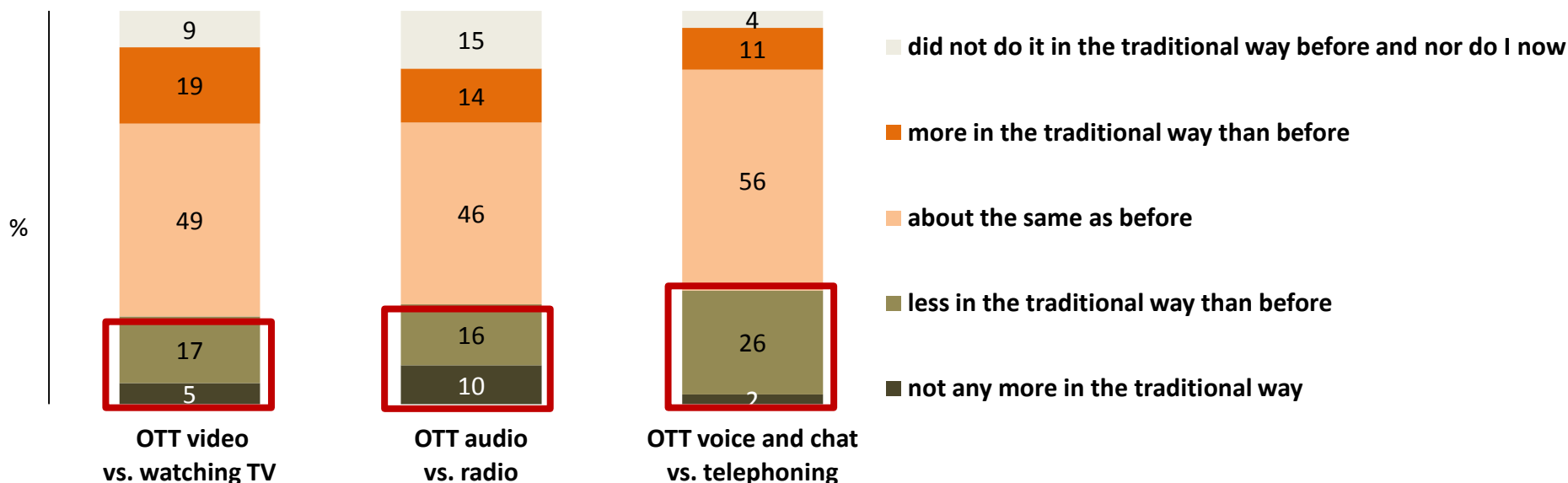
Impact of OTT usage on the frequency of traditional communication modes

Q: Since you have been using this new way of:

watching TV, videos, and movies,
listening to music or radio,
using voice or text chat,

do you use it more, less or the same:

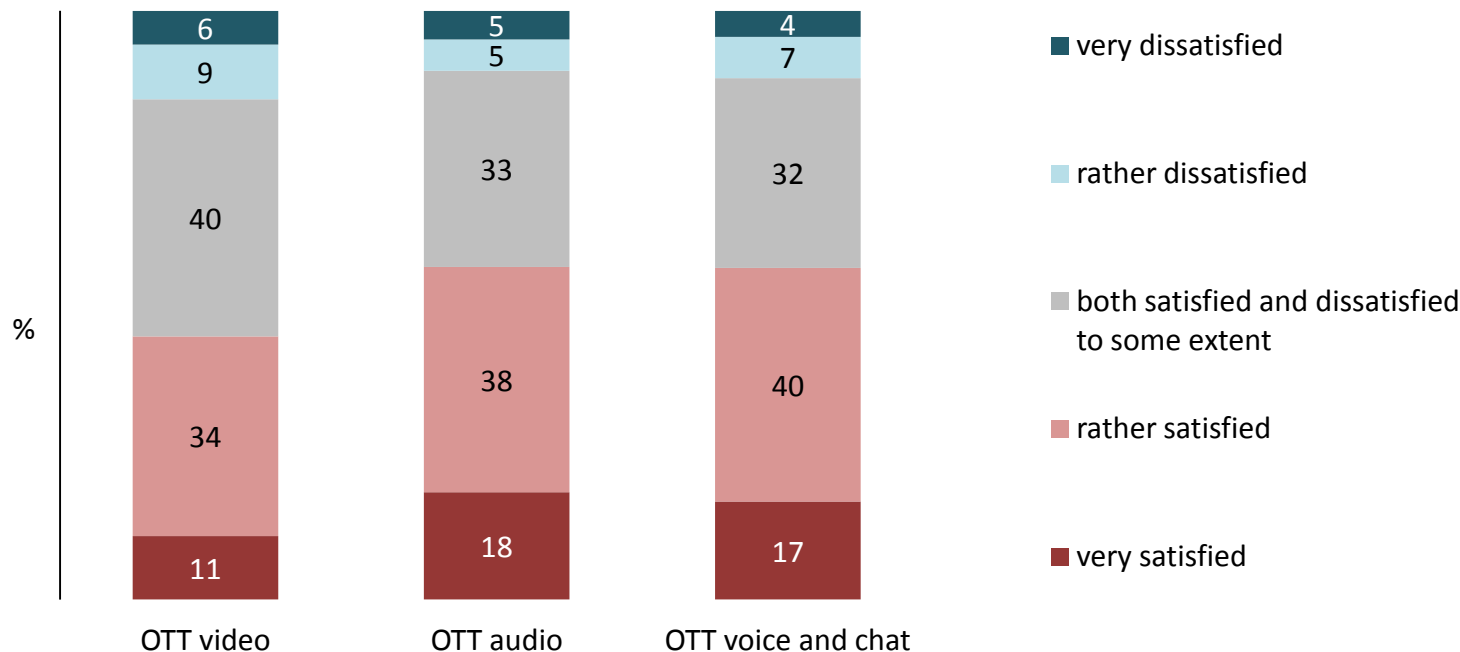
TV in the traditional way?
radio in the traditional way?
fixed and mobile phones in the traditional way?



USE OF OTT CONTENTS satisfaction

Only a few OTT users are dissatisfied with the contents offered. 45% of people using OTT video contents while 56% of people using audio contents and users of voice and chat contents, respectively are satisfied with OTT communication modalities.

Satisfaction with OTT usage



CHILDREN ONLINE parental control

39% of Internet users live in a household with a member under 18.* In 85% of these households there is a child using the Internet at home.

Among Internet users aged 14-17 or living with a household member under 18 (altogether, 39% of Internet users):

- there is a child using the Internet on any device 85%
- there is a child using the Internet on tablet or smartphone 68%
- there is a child using the Internet on desk PC or portable PC 81%

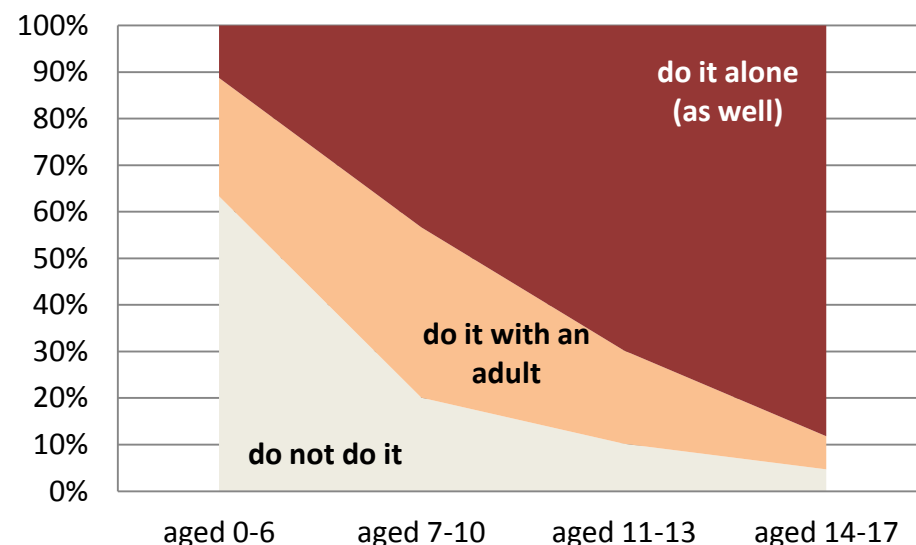
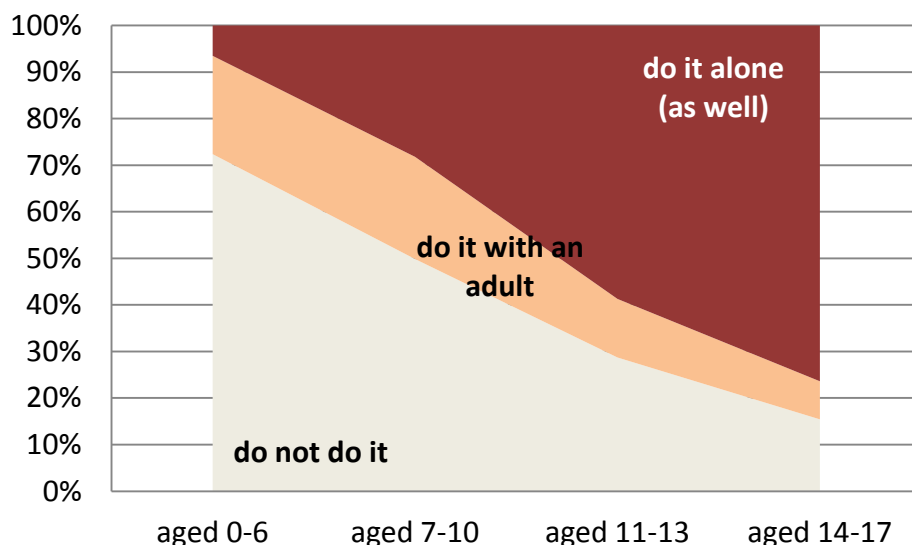
Children accessing the Internet at home on:

Tablet or smartphone

Desk PC or portable PC

By age of children

By age of children



* In one fifth of the households the respondent him-/herself is (one of) the member(s) under 18.

Our data on children using the Internet cannot be compared to data of the previous year, because our samples are not representative of households with children.

Internet users living in a household with a member under 18

n=1218

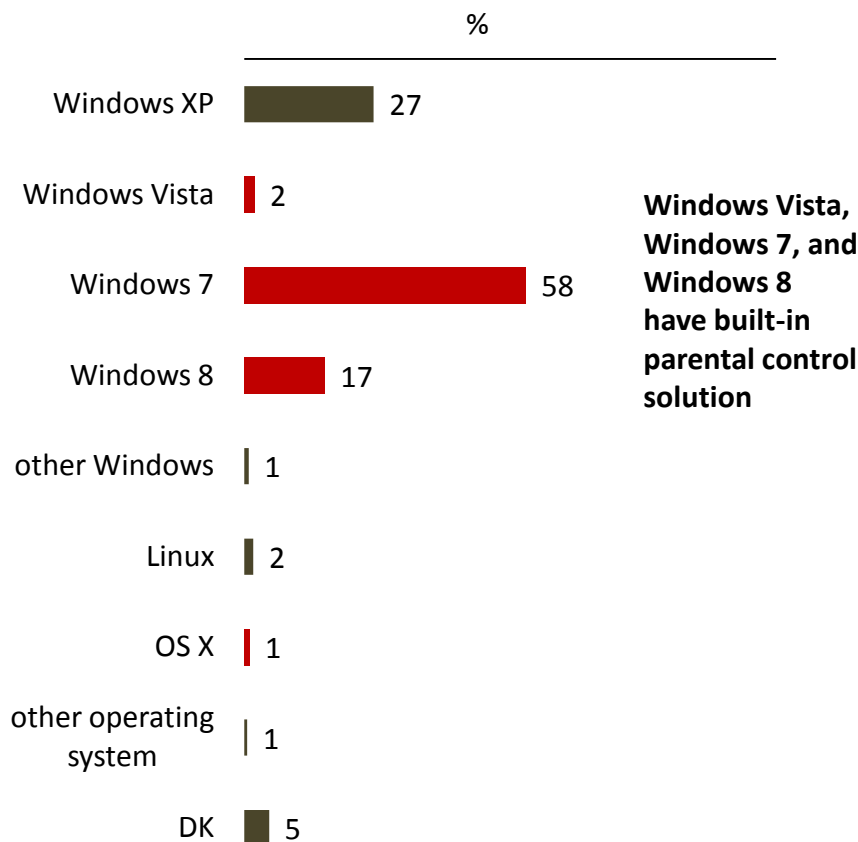
N=2.2 m

CHILDREN ONLINE technical background of parental control

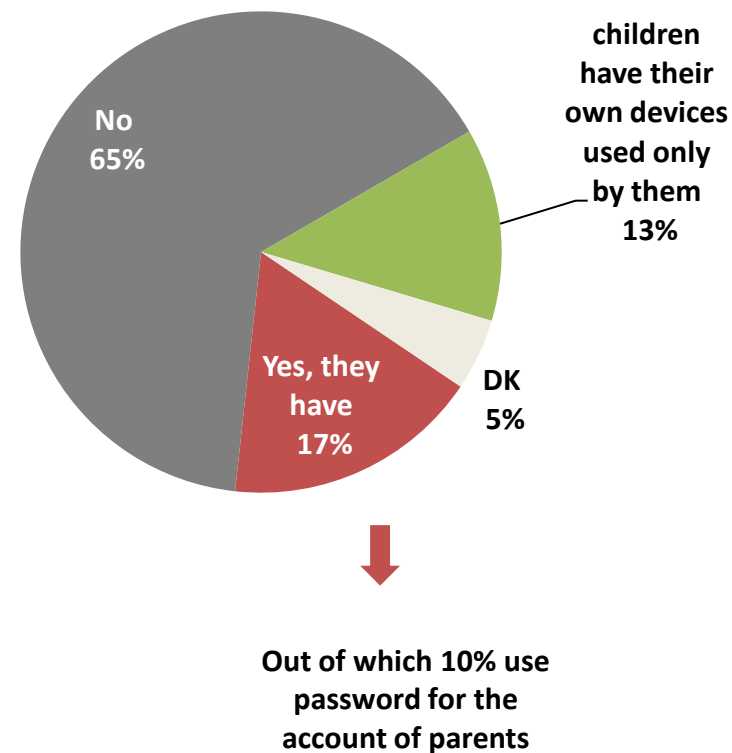
Almost all children accessing the Internet at home on PC and who live in a household with an Internet user use Windows operating system on this PC out of which Windows Vista, Windows 7 and 8 have a built-in parental control software.

10% of Internet users living with a child who access the Internet at home on PC have contents in a separated user account locked by password for adult family members.

Operating system of the PC used by children at home*



Separate user account for children



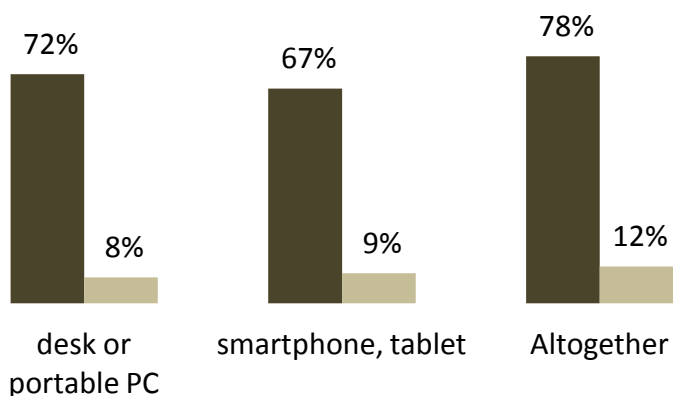
*The sum of percentages exceeds 100, because some children use more than one PC at home for accessing the Internet.

CHILDREN ONLINE parental control softwares

In the households of Internet users living with a member under 18 who also use the Internet at home, parents are mostly aware of parental control softwares for monitoring and limiting the time and content of Internet usage of children. 12% of Internet users living with a child who also use the Internet say they use these softwares, browser extensions or settings at home.

Awareness and use of parental control softwares, browser extensions, and settings

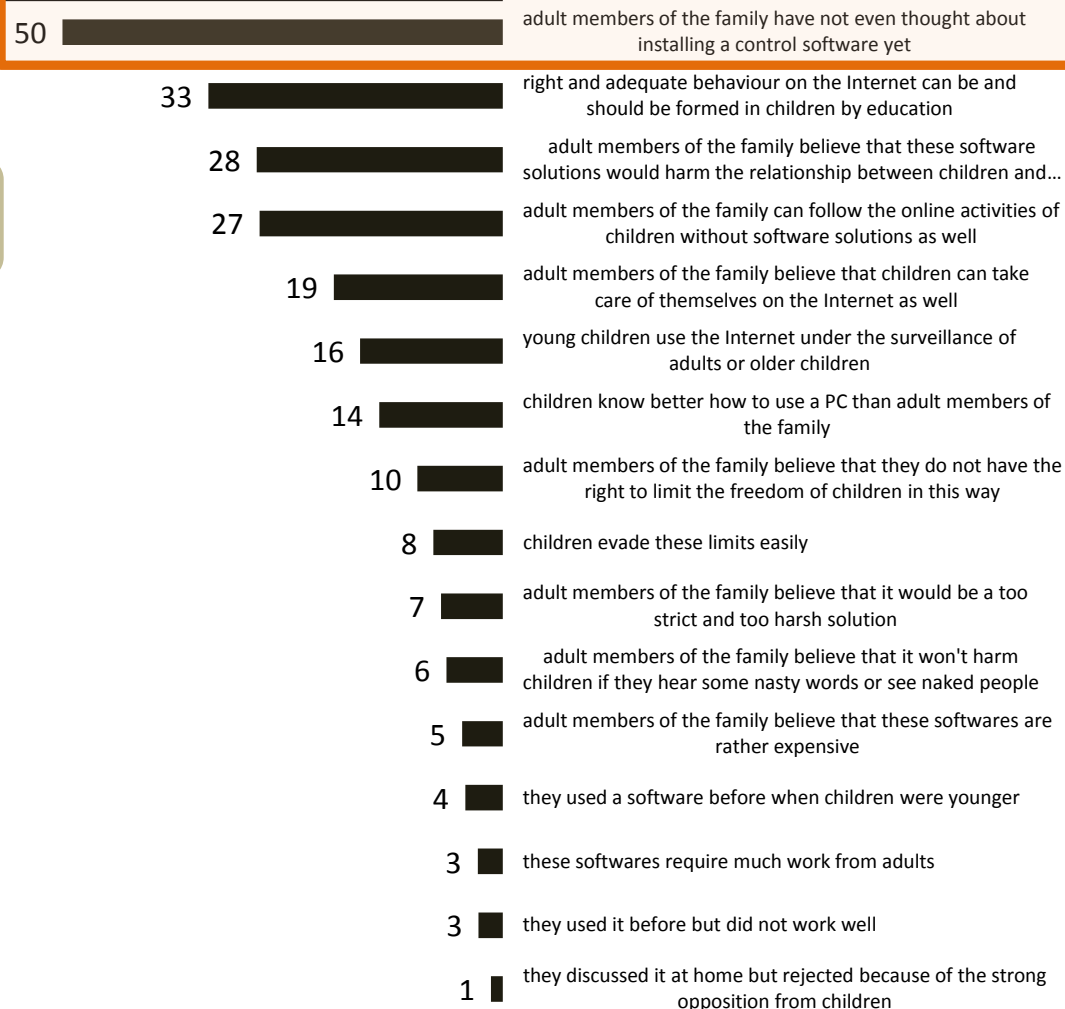
■ heard about them ■ use them



6% of them could mention a software or browser by name that they think to be suitable for parental control

Reasons for not using parental control softwares

%

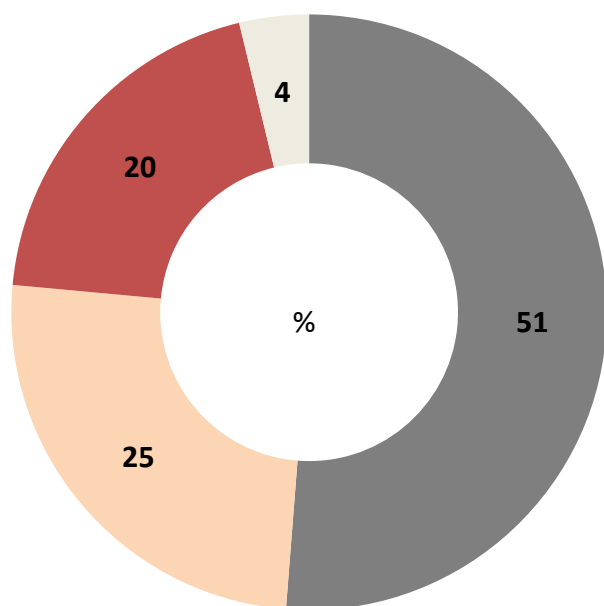


THE ELDERLY ONLINE motives of non-use

The elderly is the age group in Hungary that lagging behind the most in using the Internet.

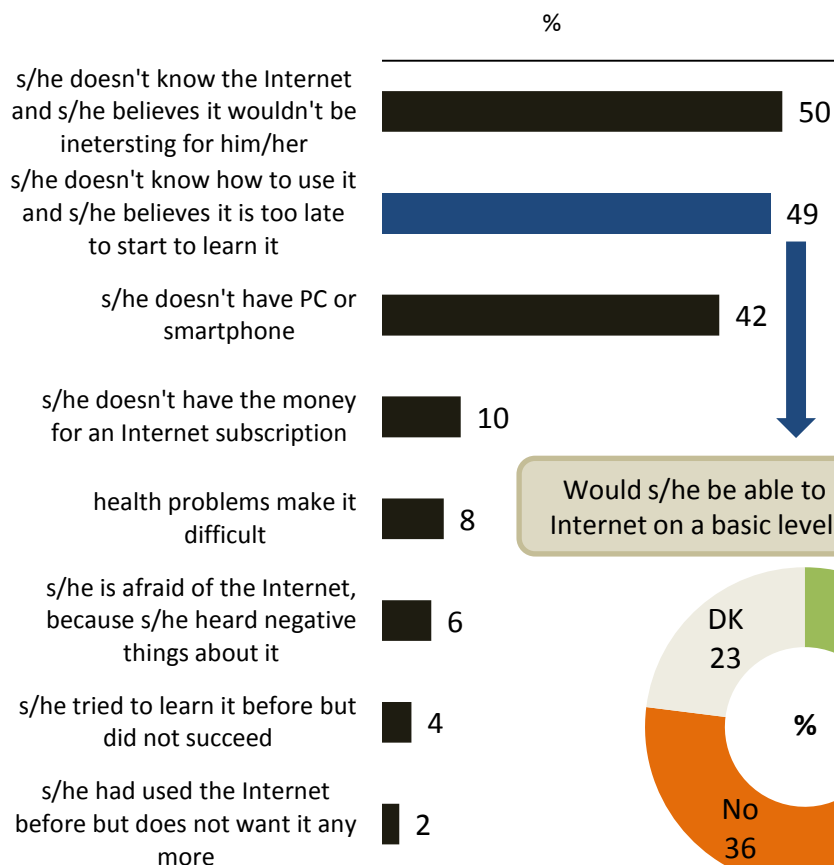
77% of respondents have at least one relative aged 60+. In their opinion, lack of knowledge, lack of devices, and negative attitudes are the main obstacles of using the Internet among their elderly relatives, although, they admit that many of them would be able to learn how to use it if they got help.

Internet use of elderly relatives

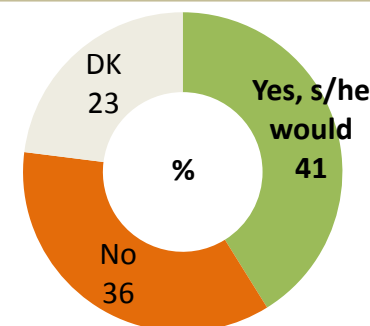


- none of them use the Internet
- at least one of them use it
- all of them use it
- DK

Why elderly relatives do not use the Internet



Would s/he be able to learn to use the Internet on a basic level if s/he got help?

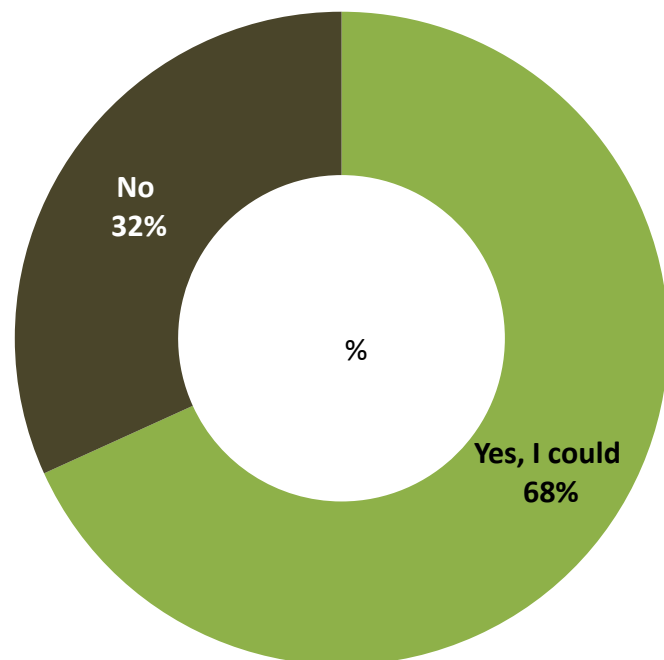


THE ELDERLY ONLINE help from the family

The majority of Internet users who have an elderly relative not using the Internet believe that s/he could help their elderly relatives to start using the Internet.

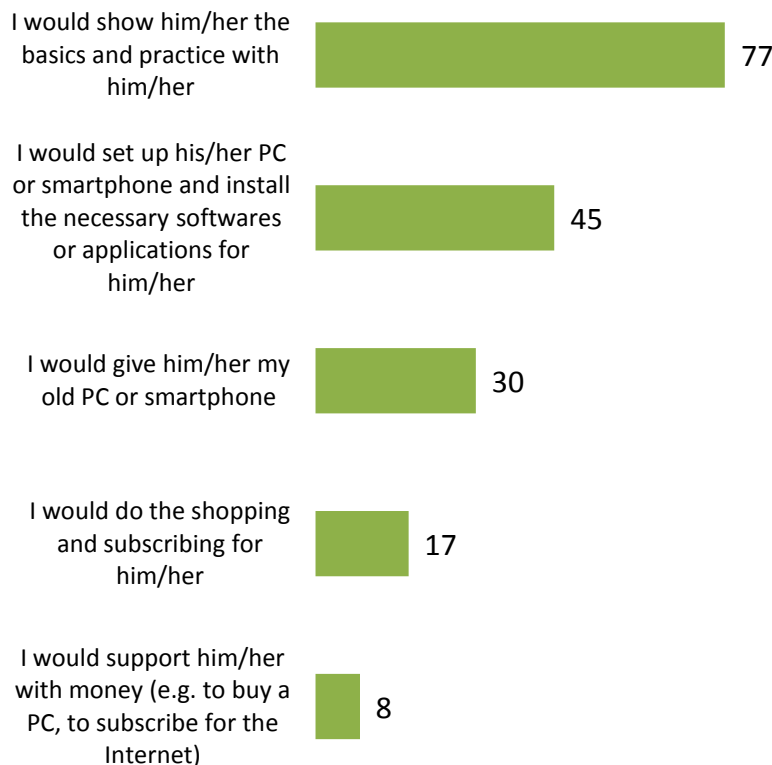
Most of them would help elderly relatives by teaching them how to do it.

Could you help your elderly relative?



How could you help your elderly relative?

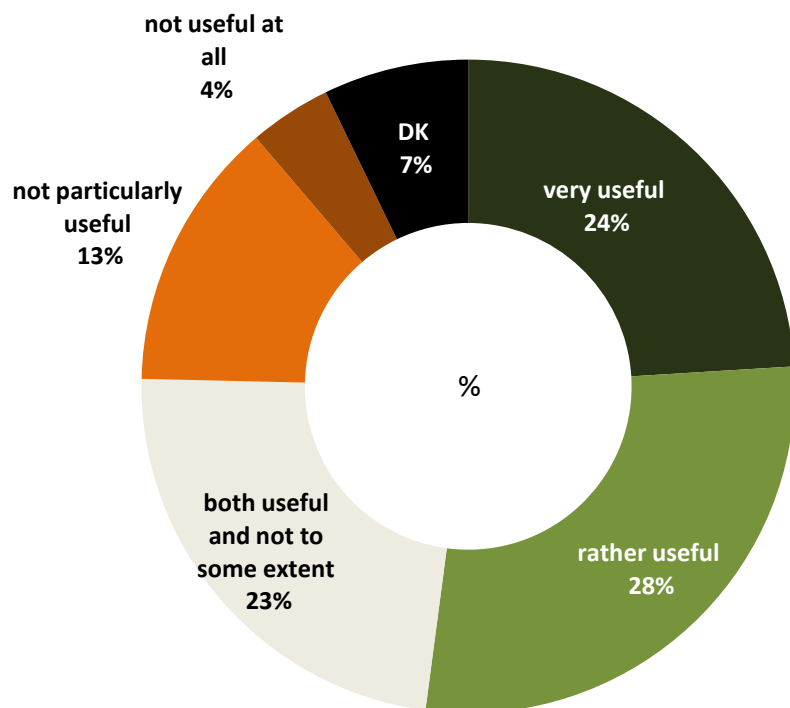
%



THE ELDERLY ONLINE usefulness

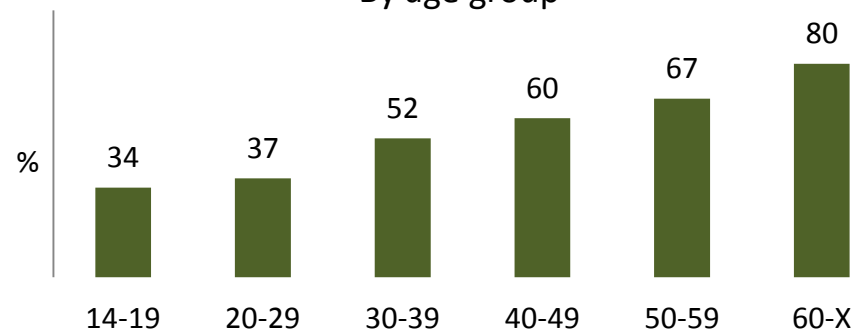
52% of Internet users believe it would be useful for the elderly and their family if they learned to use the Internet. This opinion is more popular among Internet users aged 60+ and who have elderly relatives using the Internet.

How useful it would be for the elderly and their family if the elderly learned to use the Internet

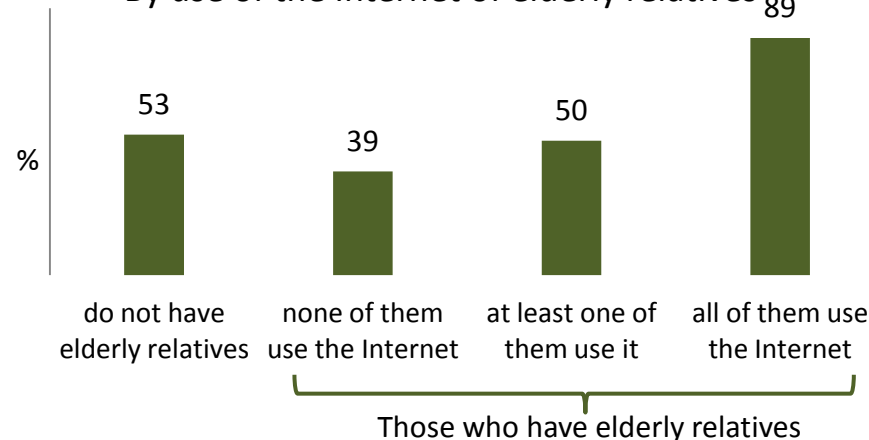


Proportion of those who believe it would be useful if the elderly learned to use the Internet

By age group

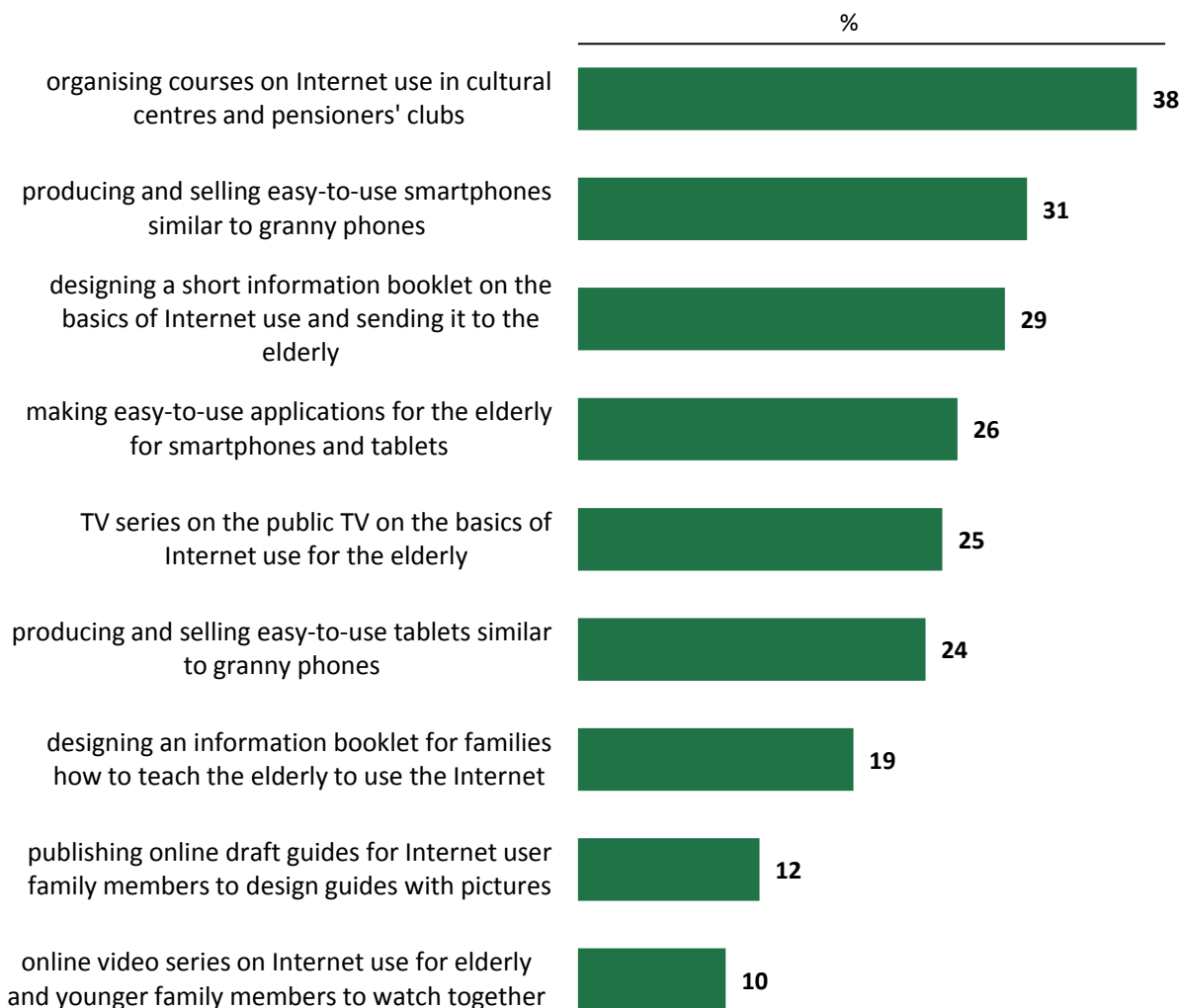


By use of the Internet of elderly relatives



THE ELDERLY ONLINE help from the society

How to help the elderly to learn to use the Internet



We listed some ideas in the questionnaire on how to help elderly people to learn to use the Internet. Respondents were asked to choose the three most suitable suggestions.

Respondents made further suggestions on their own as well on how to help the elderly effectively.

Respondents' own ideas refer to several important aspects and options:

- Complex help is necessary: devices, education, and motivation.
- Production of elderly-friendly devices and softwares should be incentivized by the State.
- Teaching should focus on the specialities of the elderly: with many repetition and practice.
- Besides learning courses, elderly users learning Internet use should be assisted by remote or on-site technical help.
- Commercials on public TVs to raise attention of the elderly on the advantages of the Internet and on web contents which may be interesting and important for them. Commercials demonstrating that the Internet facilitates personal communication would be eminently motivating for them.

HOW TO HELP THEM? typical answers from respondents

They could be taught by people of similar age. Teachers should be elderly people as well, so they will see that others could learn it and they can be examples for elderly students

Free client service on telephone that elderly people can ask if they have stalled and their relatives are not available at that moment

Basics should be taught for them in group work and after that, they could explore and deepen their knowledge on their own

Free or cheap courses should be organised for them to learn easily some simple basic things and first steps

Things should be translated into a very simple language for them to explain and with much patience and insistence

In an offline way, e.g. by audio books that explain what to do

If they could learn together with people in the same age, they would not feel lost that much

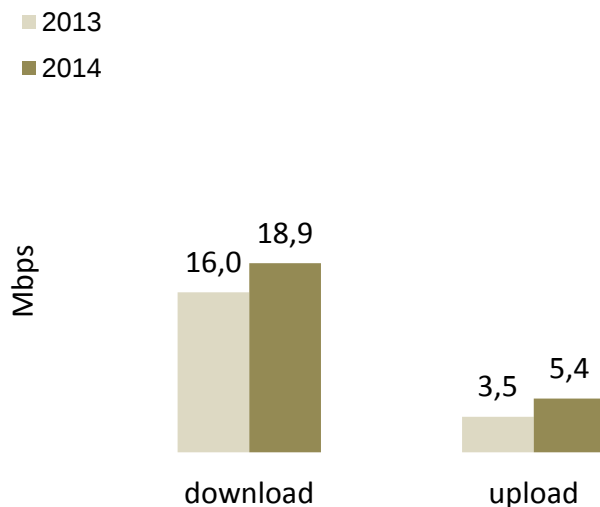
Broadcasting TV series is a good idea, but advantages should be emphasized so that the elderly would not be afraid of or be averse to using the Internet

MEASURING SPEED WITH SOFTWARE observed speed

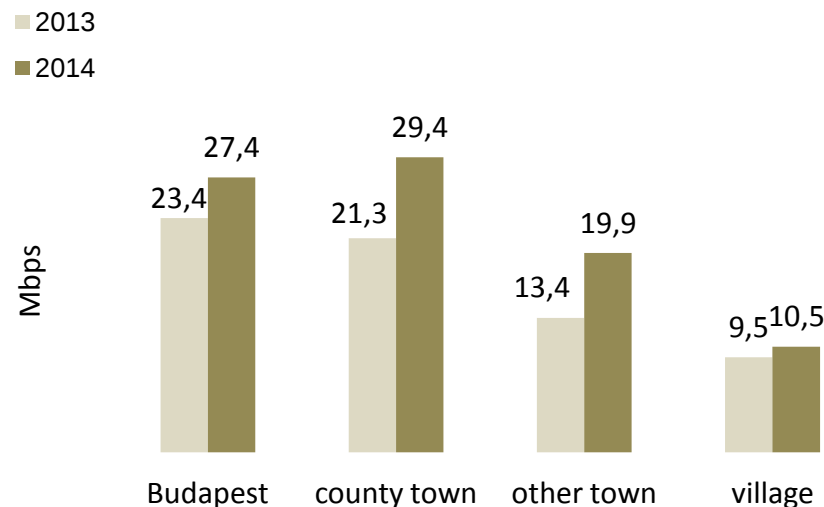
Both in 2013 and in 2014, we asked our respondents filling in the questionnaire from their own device to measure the current speed of their Internet connection with the same speed testing software*. Although, 85% of respondents used their on devices to fill out the questionnaire in both years, we have been provided data on more people (69%) in 2014 compared to 2013 (48%). The reason may be that we incorporated the speed testing application directly into our online questionnaire this year.

Both average upload and download speed** have increased significantly during 2014. This increase has been much larger in cities, especially, in cities in the countryside than in villages.

Average speed measured by software



Average download speed measured by software



*Application of Ookla. www.speedtest.net

**Trimmed means on a 95% basis