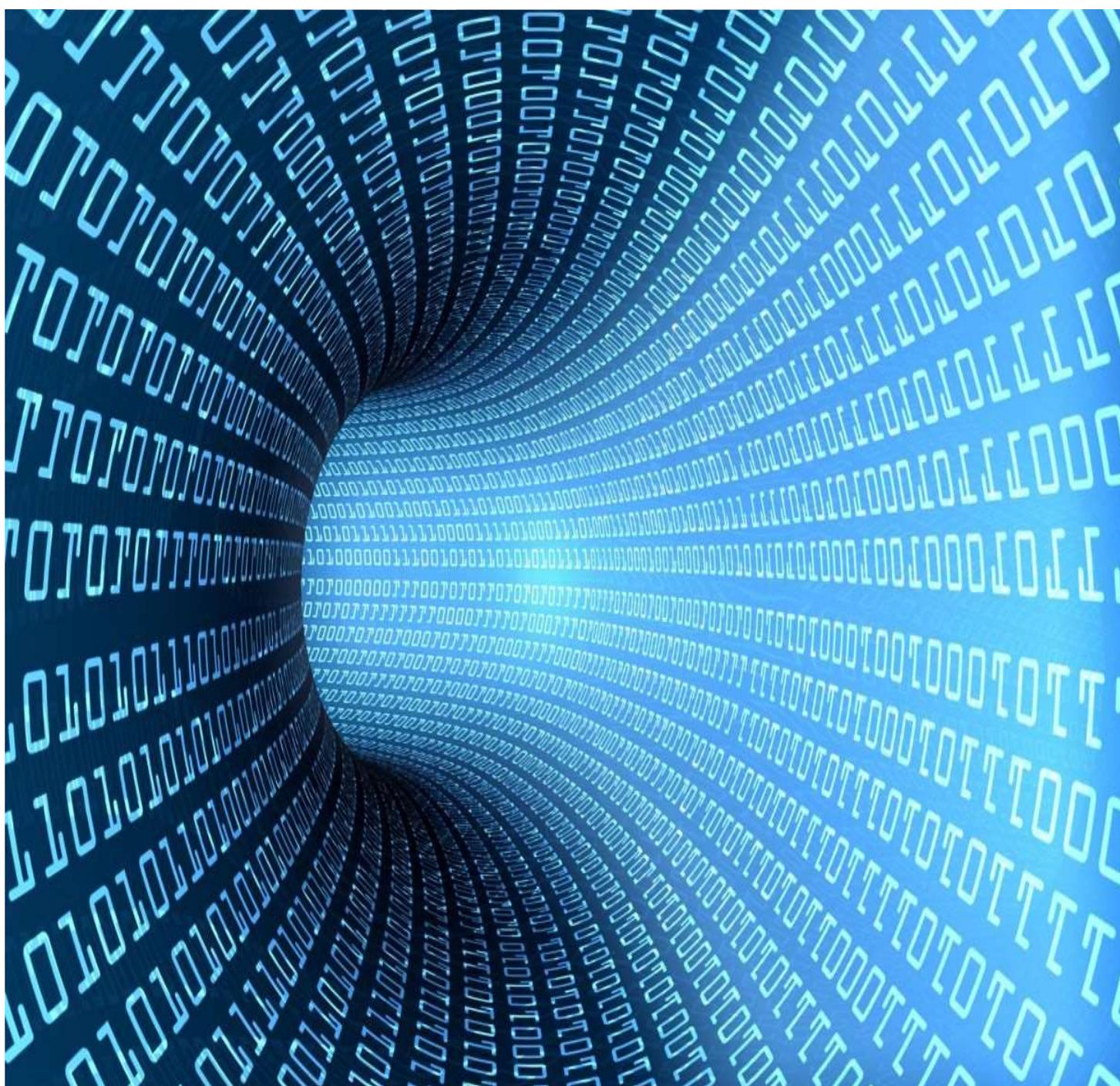




# ICT and the youth of Aruba

The results of the 2017 ICT survey





# Preface

With the expanding and constant developments in today's digital world, the Central Bureau of Statistics Aruba held a survey in the months of November - December 2017 to gain more insight in the accessibility of modern Information and Telecommunications Technology (ICT) in Aruba and the use of ICT devices by the population of Aruba. The data collected also serves to gain insight into which groups do not have access to ICT devices as well as to gather information on how knowledgeable the population of Aruba is in relation to ICT related programs.

During a period of 4 weeks, surveyors visited households to collect data on the use of ICT. Based on a sample of 1200 households, interviews were held with all members of the household 5 years and older.

In addition to questions on the use of ICT, respondents were asked about their ICT skills and knowledge, the presence of ICT equipment in the household, the access to internet, the ownership and use of computers/laptops and mobile phones, and the frequency and purpose of using ICT devices.

This paper is an in-depth analysis of to the youth in Aruba aged 5 – 24 years and their skills and use of ICT devices and programs.

Youth  
in  
Aruba  
aged  
5 – 24  
years

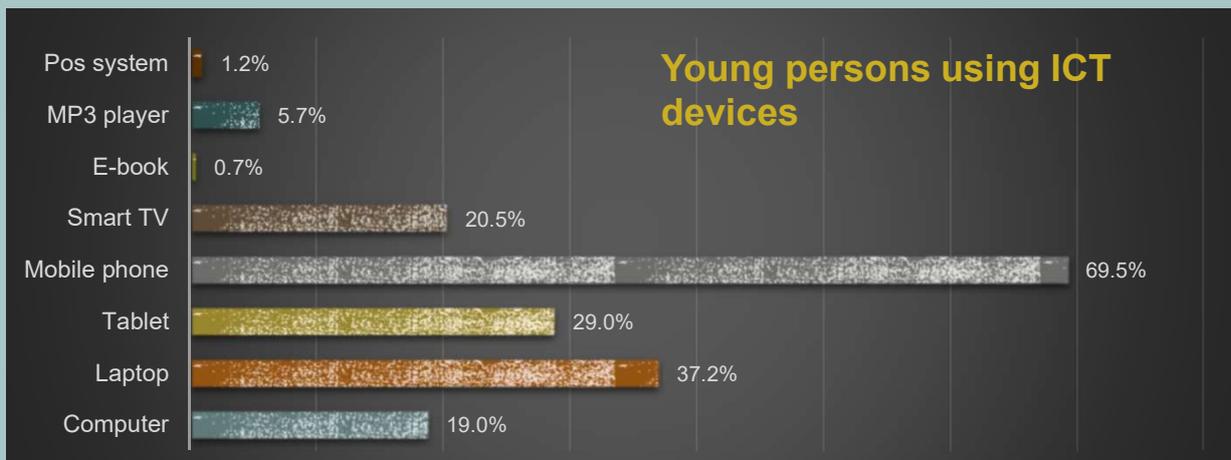




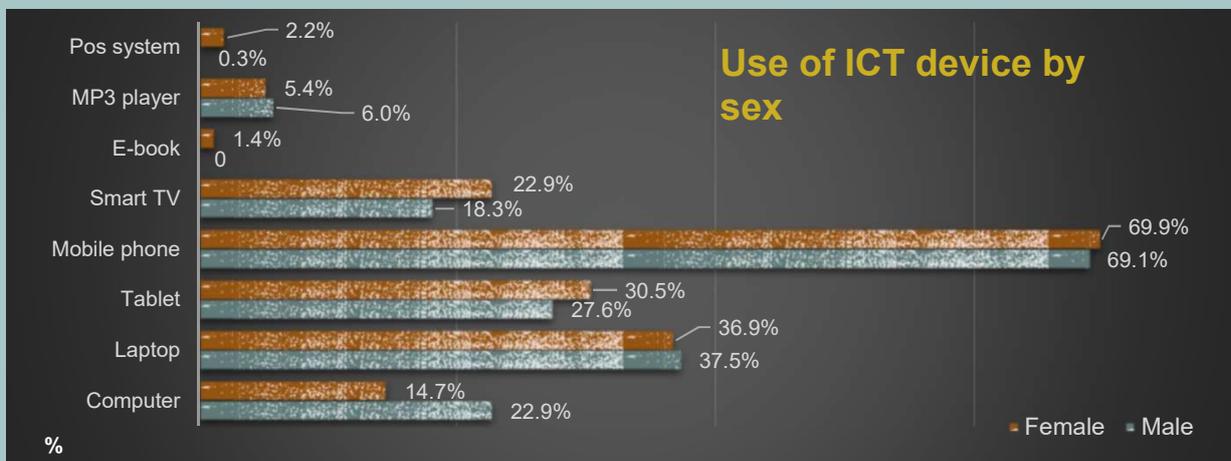
# ICT Devices

One of the main questions asked during the 2017 ICT survey was about the use of different ICT devices during the period of 3 months prior to the survey. The results are shown in the first graph below (graph 1), which indicates that the devices that were most predominantly used by young persons were mobile phones (69.5%), laptops (37.2%) and tablets (29.0%).

Analyzing the results by sex, graph 2 shows just small differences between the two sexes. Young males show a slightly higher use of computers, laptops and Mp3 devices, while young females had a higher use of all other devices.



Graph 1



Graph 2



# The mobile phone



**69.1%**

OF ALL YOUNG MALES  
WERE MOBILE PHONE  
USERS



**69.9%**

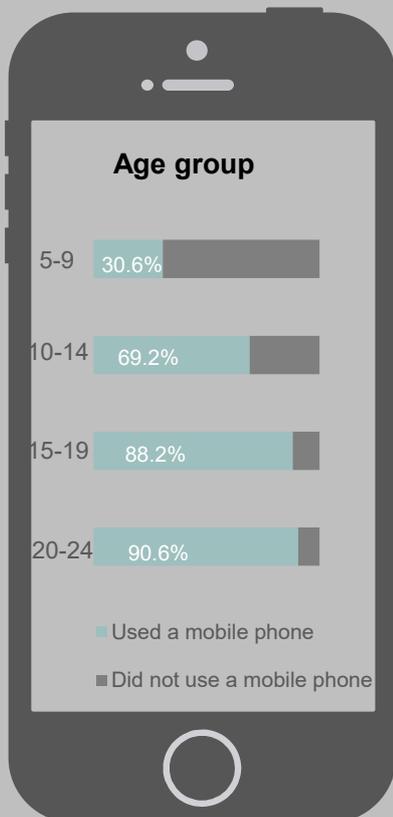
OF ALL YOUNG FEMALES  
WERE MOBILE PHONE  
USERS

Comparing young males that had used a mobile phone to all young males that had participated in the survey, 69.1% indicated that they had used a mobile phone. The percentage of young females using a mobile phone was 69.9%.

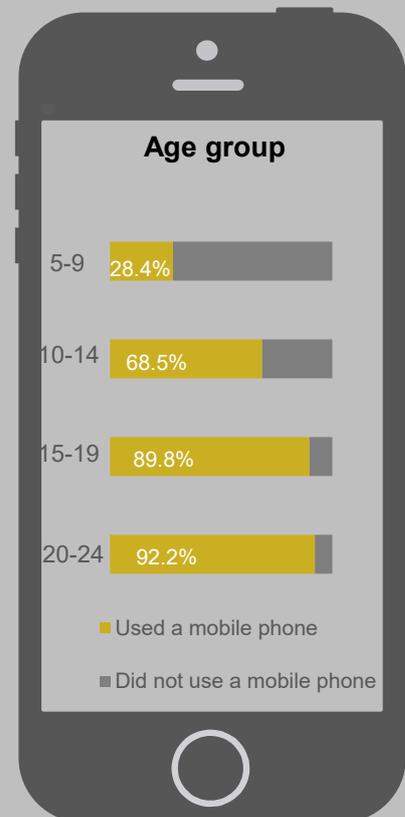
**ALMOST  
70% OF  
THE  
YOUTH  
IN  
ARUBA  
USED A  
MOBILE  
PHONE**

# Age group

## ■ Male



## ■ Female

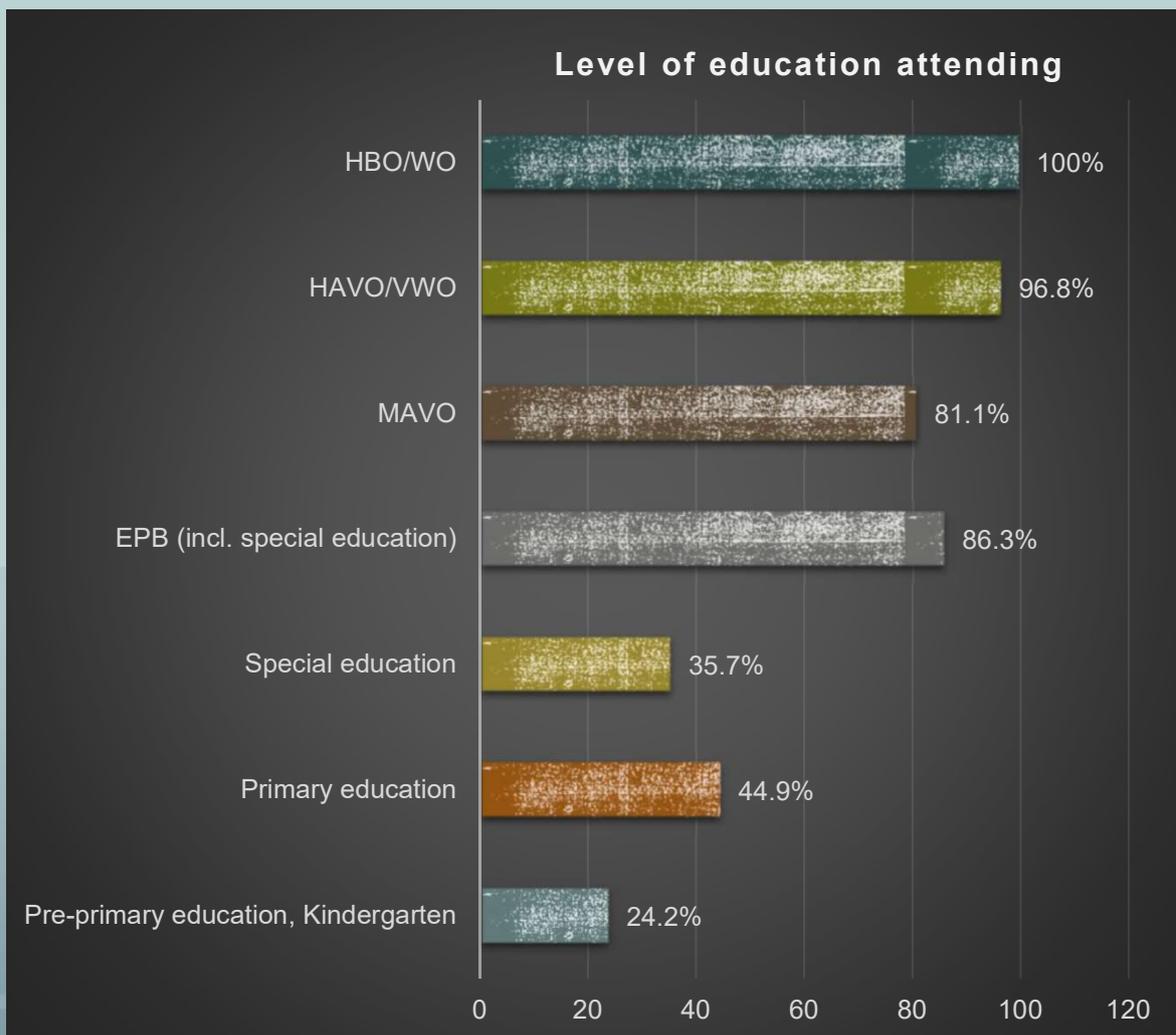


As can be seen in both graphs, the percentages of young males and females that had used a mobile phone increased as the age progressed.

Young males and females between 20 – 24 years of age had the highest percentage of mobile phone users in the three months prior to the survey. In this age group 90.6% of young males and 92.2% of young females had used a mobile phone.

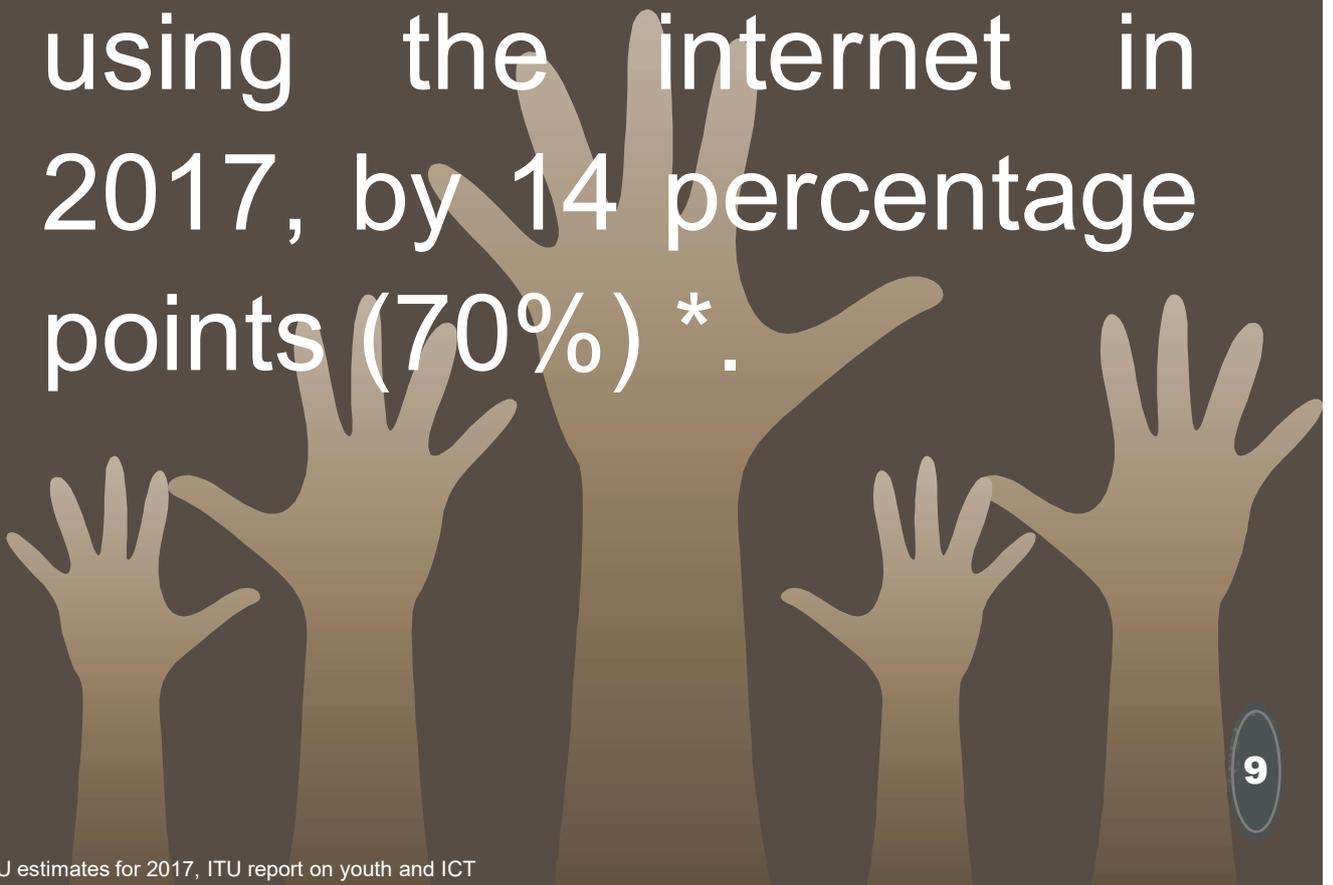
# School attending

The results of the 2017 ICT survey indicated that the higher the level of education students were attending, the higher the percentages using a mobile phone. As many as 96.8% of all HAVO/VWO- and 100% of HBO/WO students had used a mobile phone. Worth mentioning is that 24.2% of all kindergarteners had also used a mobile phone.

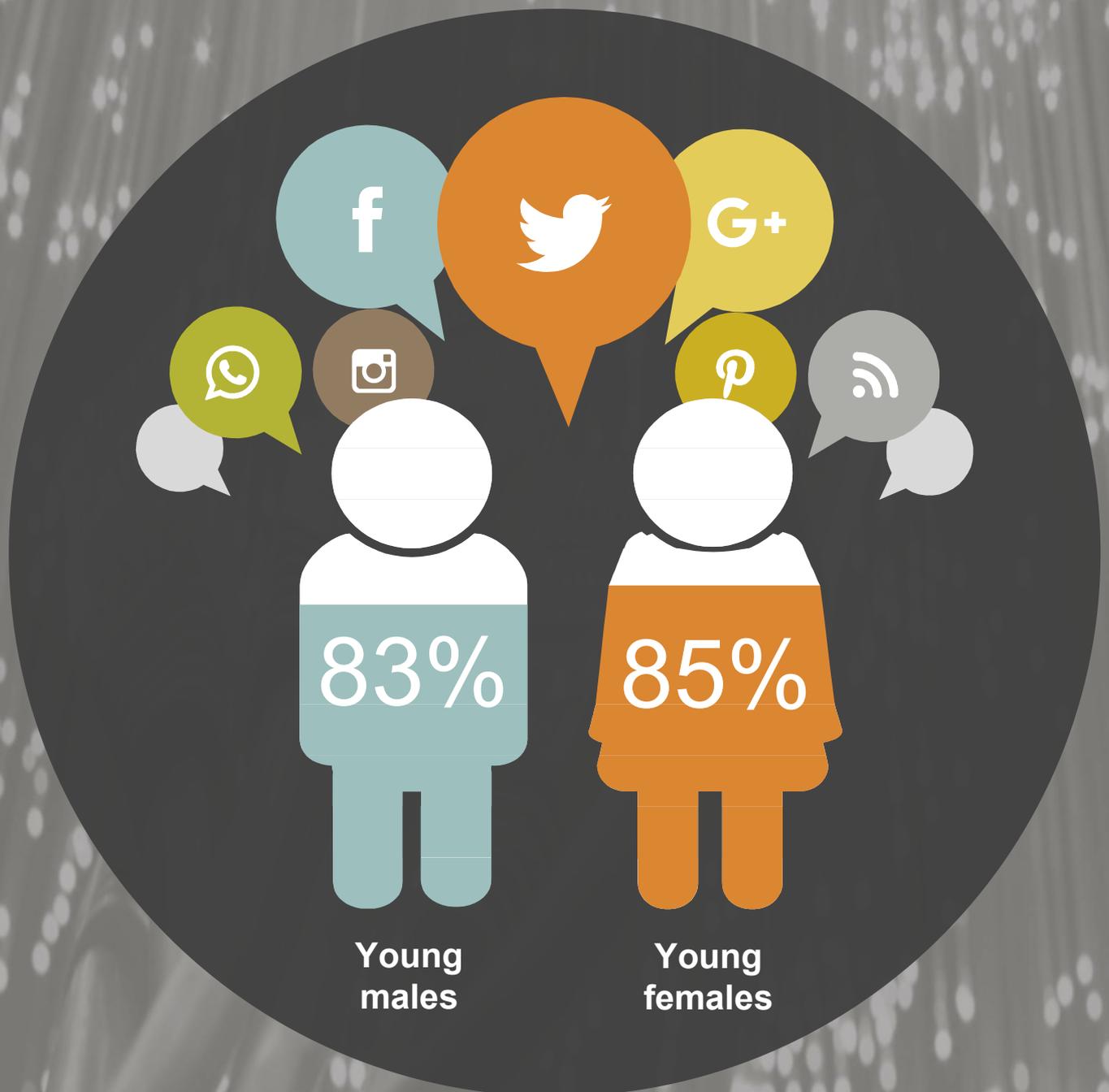


## Young Internet Users

The proportion of Youth in Aruba that had used the internet (84%) surpassed the proportion of the World's Youth that were using the internet in 2017, by 14 percentage points (70%) \*.



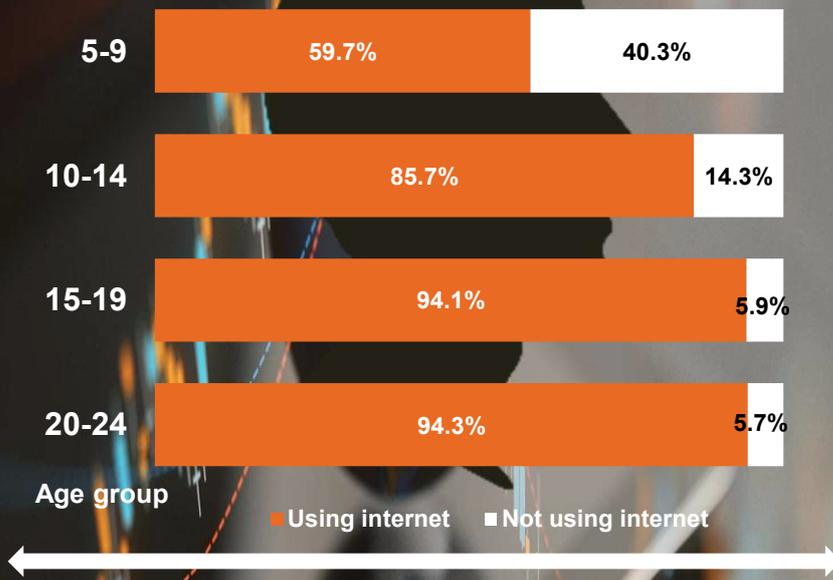
# Internet use by sex



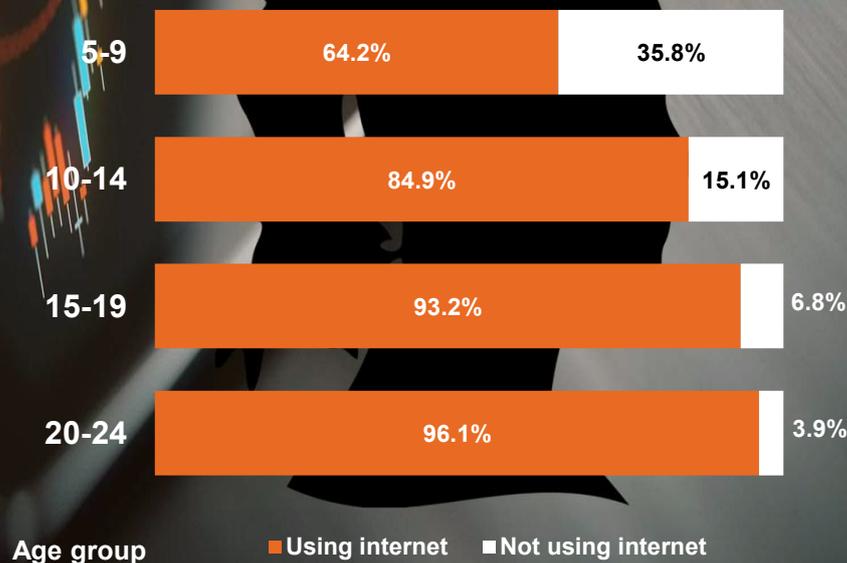
**83%** of young males and **85%** of young females had used the internet 3 months prior to the survey.

# Males and females

## Young males using the internet

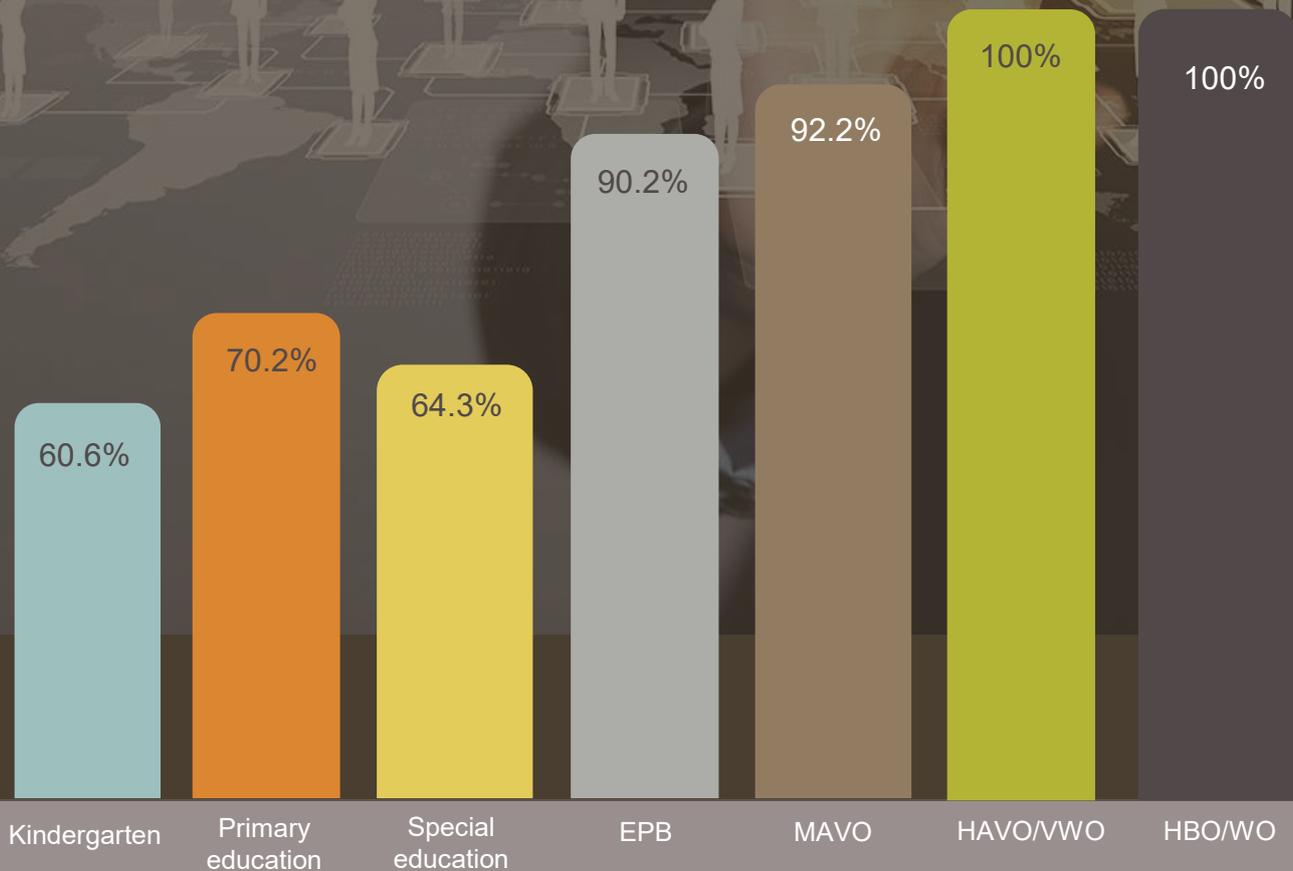


## Young females using the internet



In general, the proportions of young males and females using the internet according to their age-groups show very small differences. Both young males and females in the age category 20 -24 years had the highest percentages of internet use. Of all young females aged 5 - 9 years, 64.2% had used the internet compared to 59.7% of all young males.

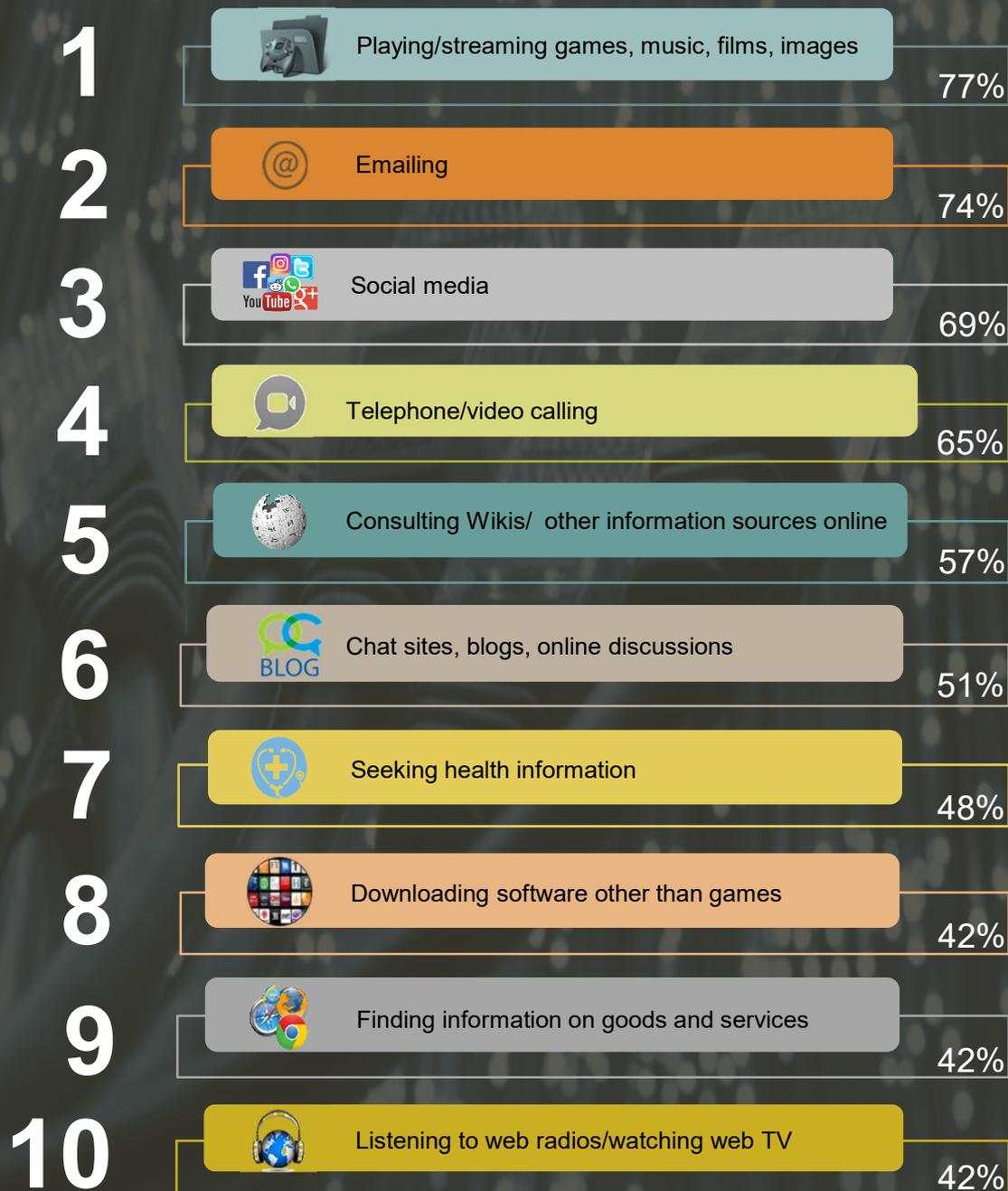
# Internet and education



Level of education

Illustrated in the graph is the distribution of youth that attended school, by level of education and the percentages that had used the internet prior to the survey. The overall penetration rate is relatively high starting from Kindergarten (60.6%) up to HBO/WVO (100%).

# Internet mostly used for...



## Games, Email, social media (Top 3)

The internet was mostly used by young people for downloading/streaming games, music, films and images (77%), followed by e-mailing (74%) and accessing social media sites (69%).

## Web radio/web TV (8-9-10)

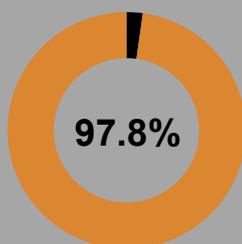
Listening to a web radio and or watching web TV, finding information on goods and services, downloading software other than games were number 8, 9 and 10 on the list of 'internet most used for' (42%).

# Youth used internet @...

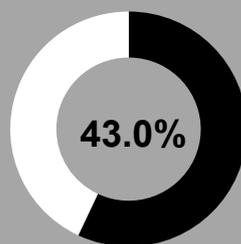


## Youth 5 -17 years

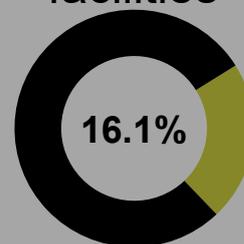
@  
Home



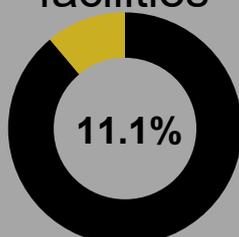
@  
School



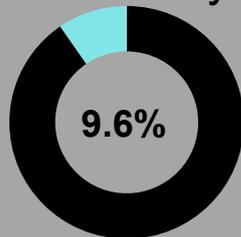
@  
Commercial  
facilities



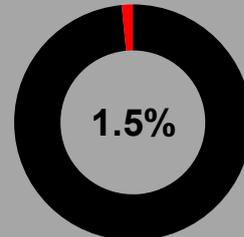
@  
Community  
facilities



@  
In mobility

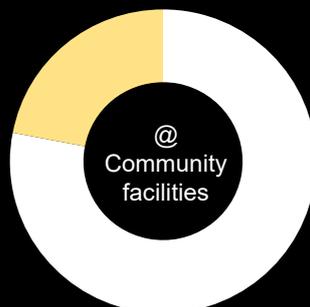
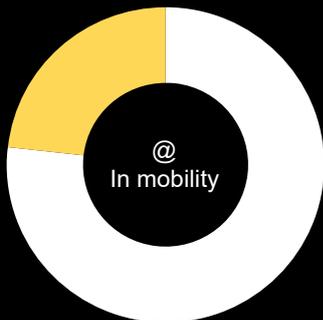
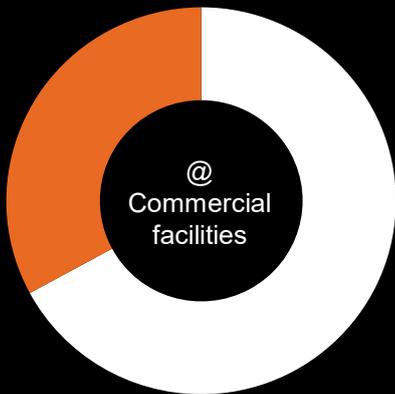
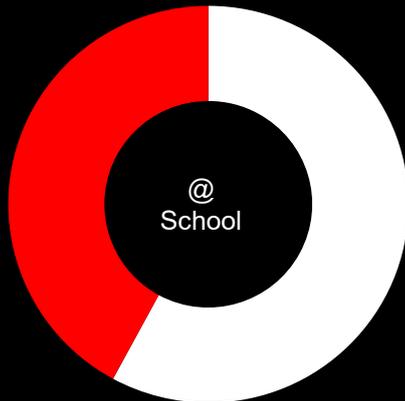
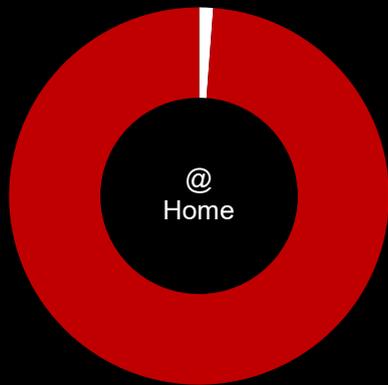


@  
Workplace



# Youth 18-24 years

Used the internet @...



@home

98.8%



@school

42.1%



@ commercial facilities

32.9%



@ workplace

29.3%



@ in mobility

23.2%



@ community facilities

22.0%



# Online presence

86.6%

Social media



Daily or almost daily

62.4%

Reading newspapers



Daily or almost daily

52.4%

Communicating



20 hours per week or more

86.6% of all youth visited social media sites 'daily or almost daily', 62.4% read newspapers and news magazines daily or almost daily, and 52.4% spent 20 hours per week or more communicating online.

# Using the internet



**Communicating  
online  
20 hours or  
more per week**

**Using Social  
media  
daily or  
almost daily**

**Reading  
online  
newspaper  
daily or  
almost daily**

**Males  
5-24 years**

**51.2%**

**81.1%**

**57.0%**

**Females  
5-24 years**

**53.5%**

**92.6%**

**67.0%**

According to the results of the 2017 ICT survey, young females were more frequent users of the internet for communicating, using social media and reading news and news magazines online, compared to young males.



# Communicating

## Communicating online

**AGE 18 - 24**



60.7% of youth in this age group had used the internet to communicate

**AGE 12 - 17**



53.9% of youth ages 12-17 had used the internet to communicate

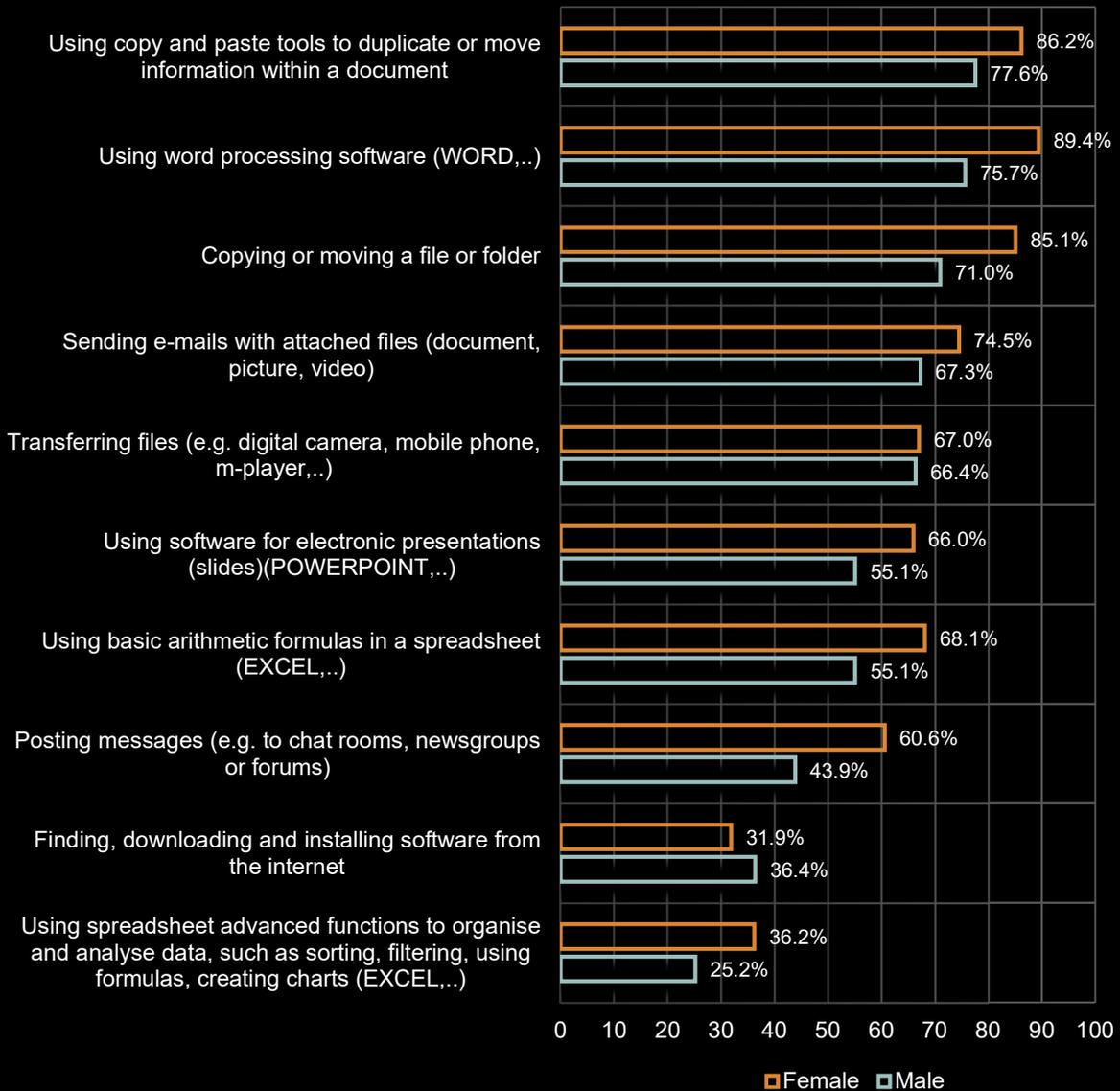
**AGE 5 - 11**



29.0% of young persons had used the internet to communicate 3 months prior to the survey

# ICT skills

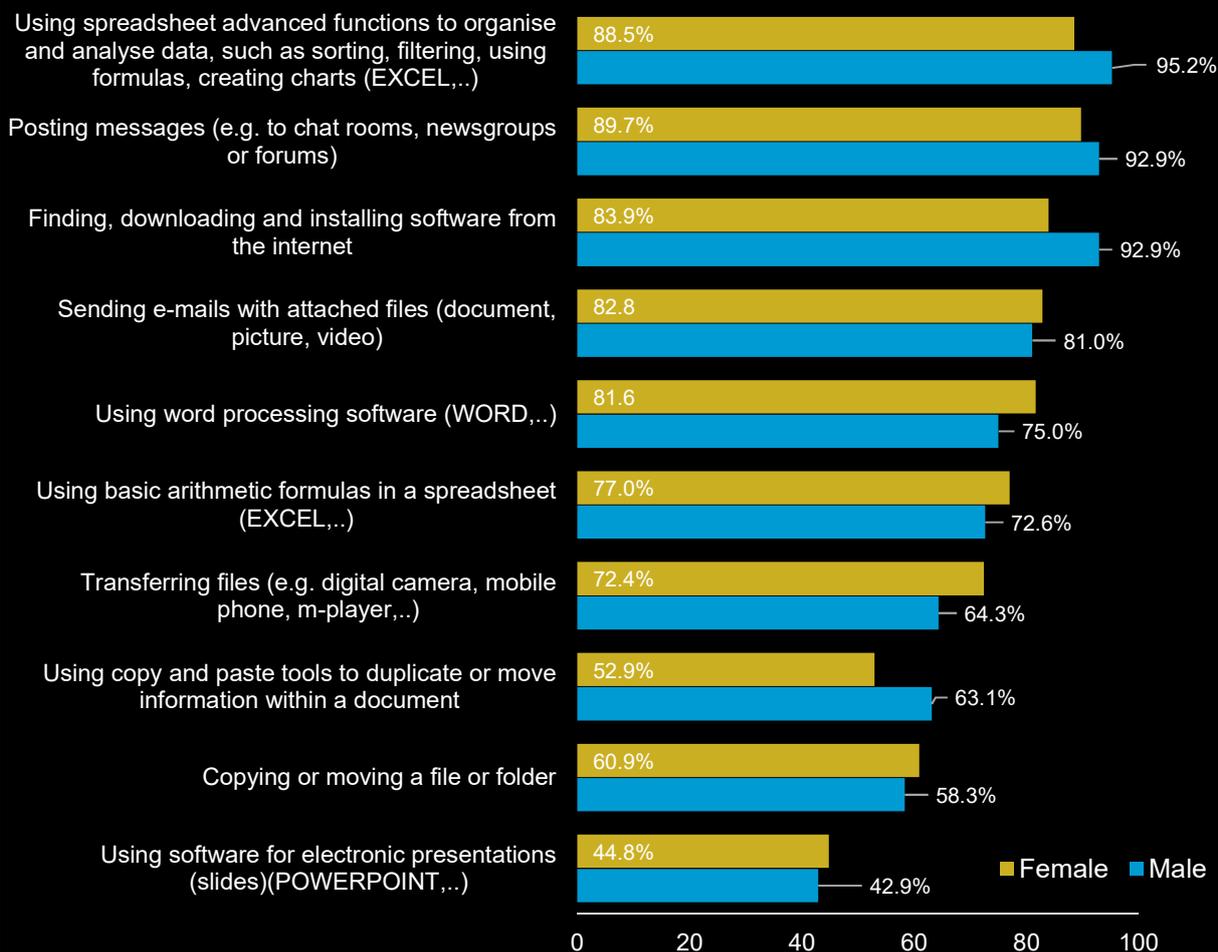
## ICT skills of youth 12-17 years



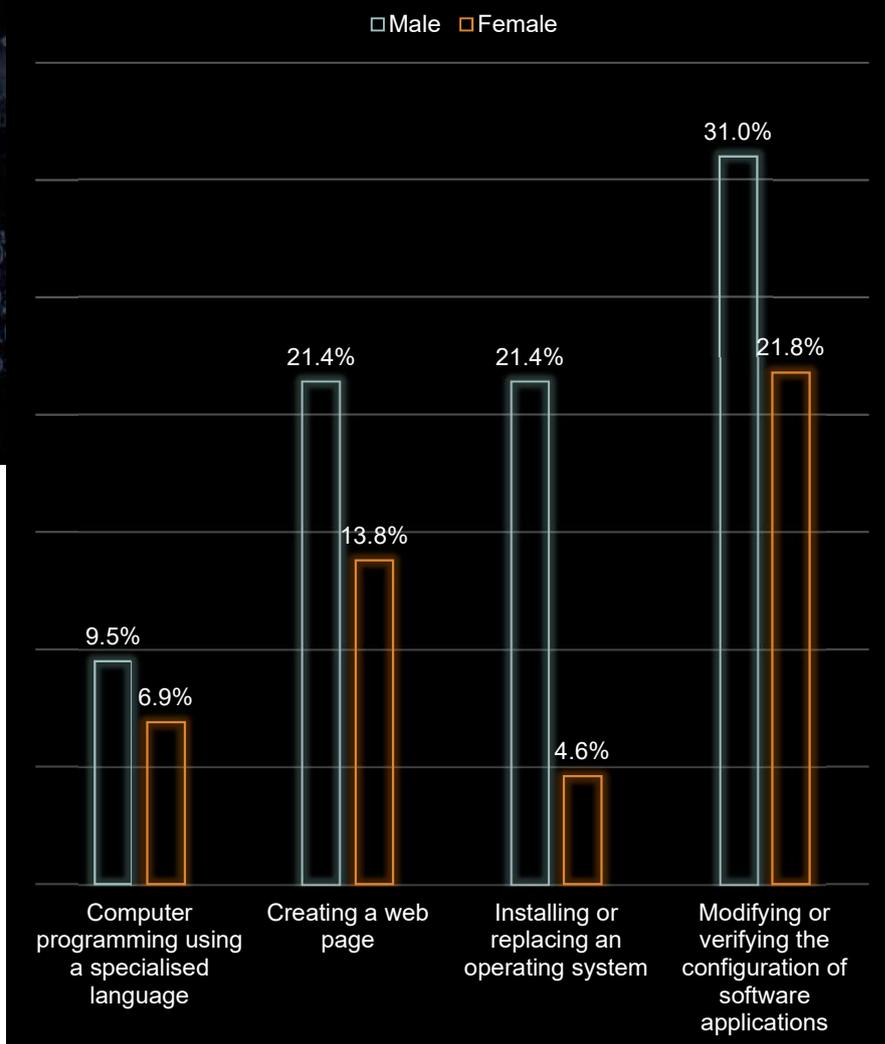
As can be seen in the graph, the percentage of young females ages 12 – 17 years with ICT skills was higher than that of males, except when it came down to 'Finding, downloading and installing software from the internet', where young males had a slight advantage (36.4%), compared to young females (31.9%) .

# Youth and ICT skills

## ICT skills of youth 18-24 years



# Other ICT skills



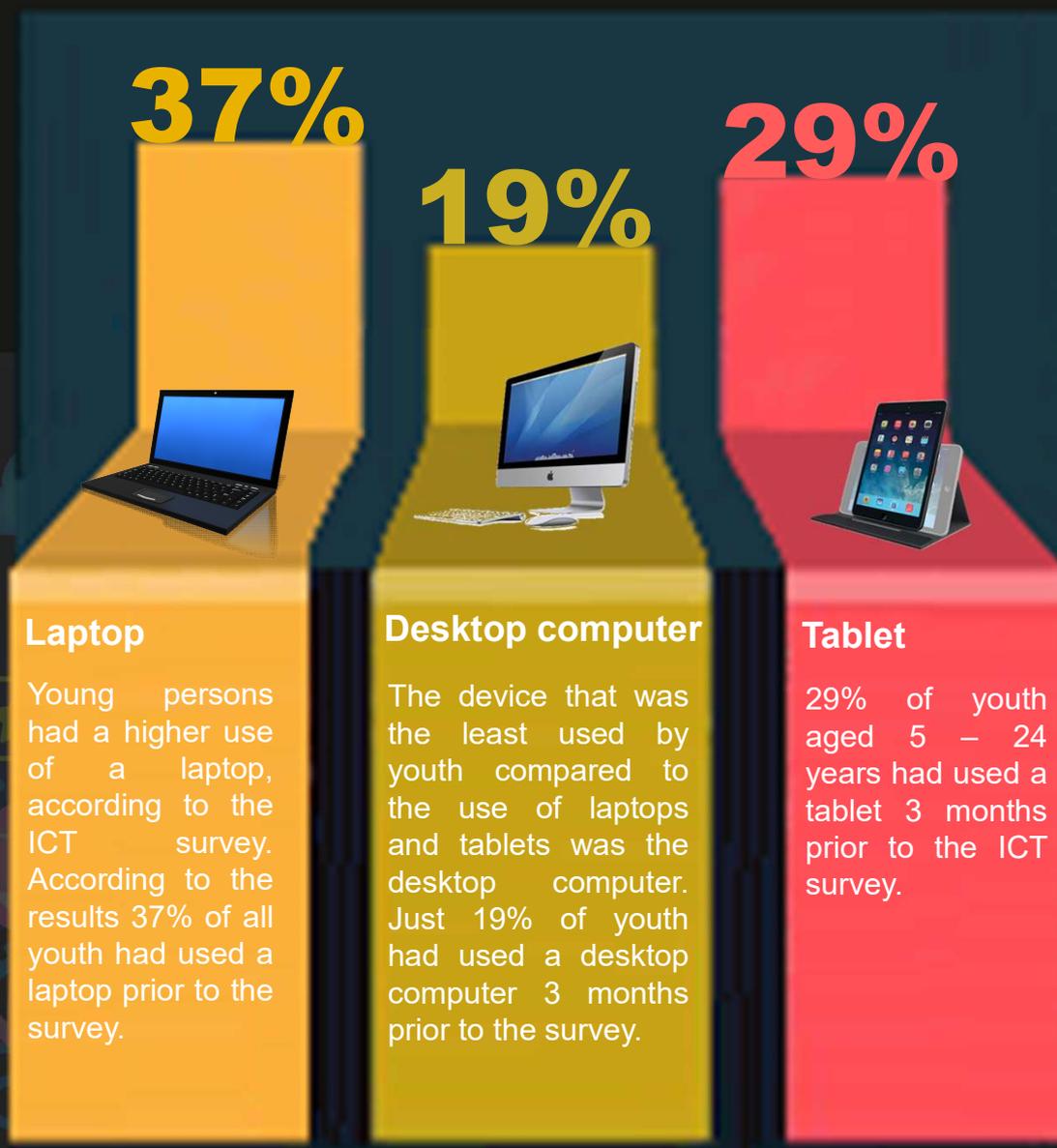
Comparing young males to young females, the results indicate that young males had the upper hand in computer programming, creating web pages, installing or replacing operating systems and modifying or verifying configuration of software applications.

**Other  
ICT  
skills  
of**

**Youth  
18  
years  
and  
older.**

**ict**  
skills

# Desktop, laptop, tablet

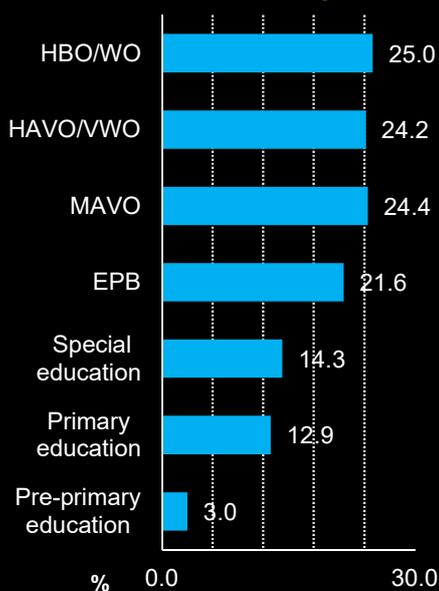


The youth of Aruba ages 5 – 24 years had a higher use of a laptop compared to a desktop and or tablet.

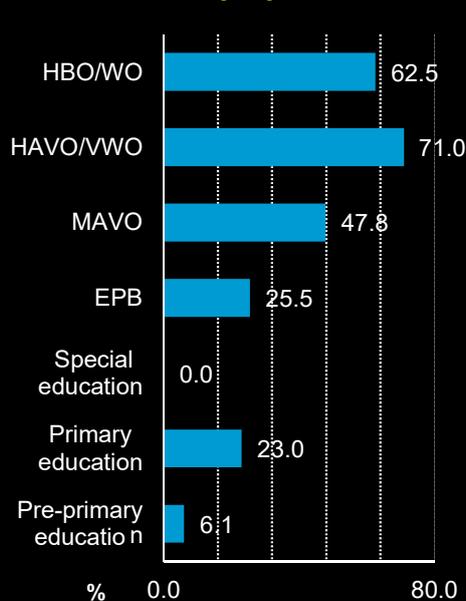
# School attending youth



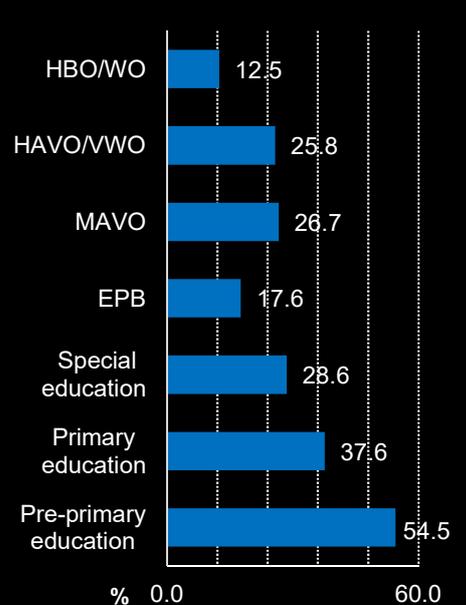
**Desktop computer**



**Laptop**



**Tablet**

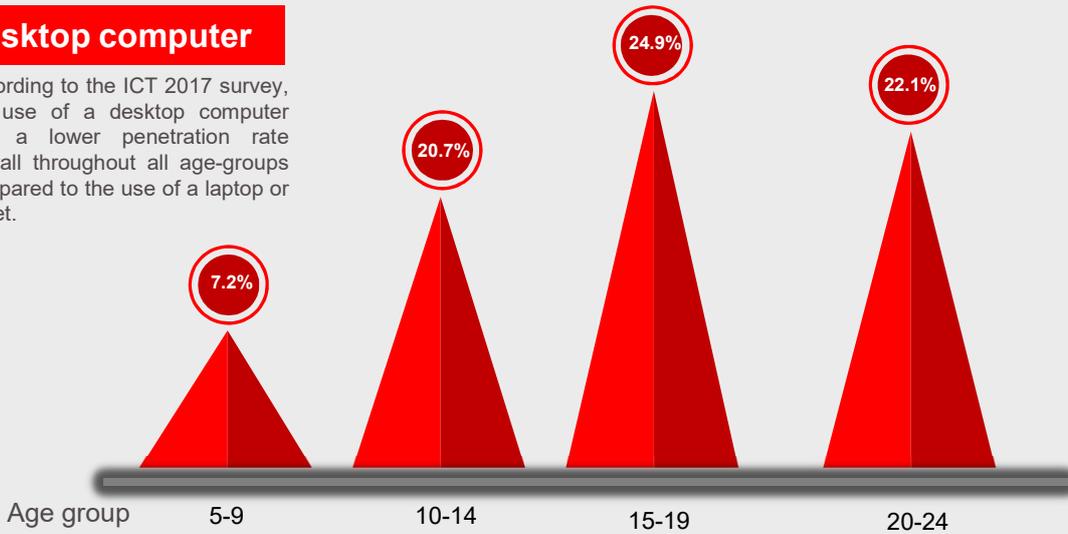


The first graph shows that HBO/WO students had the highest percentage use of the desktop computer (25%), compared to students from lower levels of education. In the second graph HAVO/VWO students had the highest use of a laptop (71.0%), followed by HBO/VWO students (62.5%). The results in the third graph show that 54.5% of youth in Pre-primary education and 37.6% in primary education had the highest percentage use of a tablet.

# Desktop, laptop, tablet

## Desktop computer

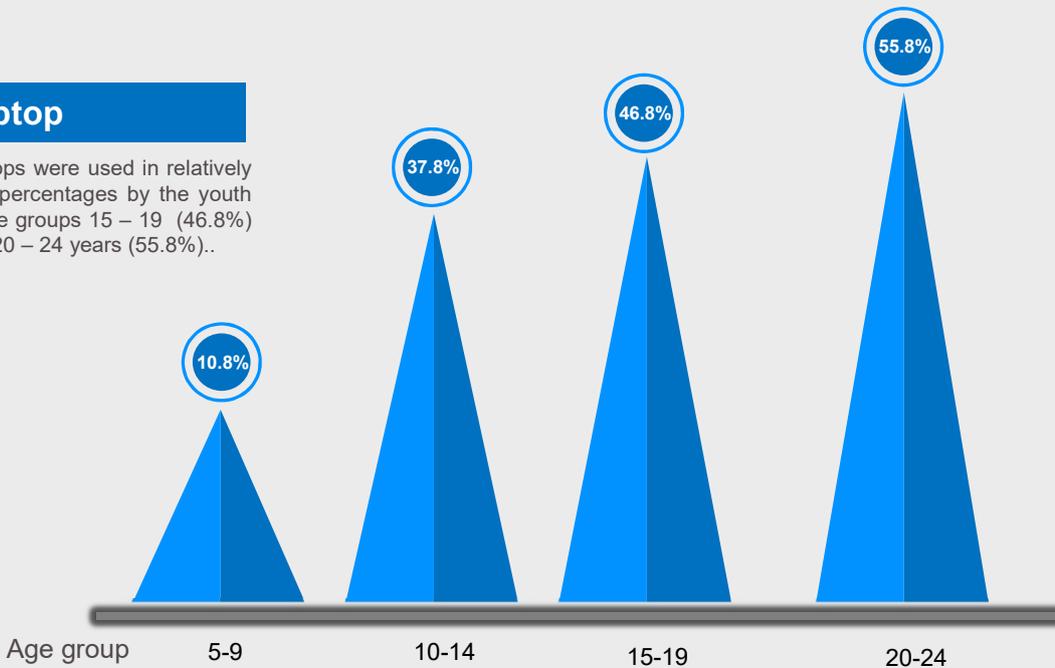
According to the ICT 2017 survey, the use of a desktop computer had a lower penetration rate overall throughout all age-groups compared to the use of a laptop or tablet.



Desktop

## Laptop

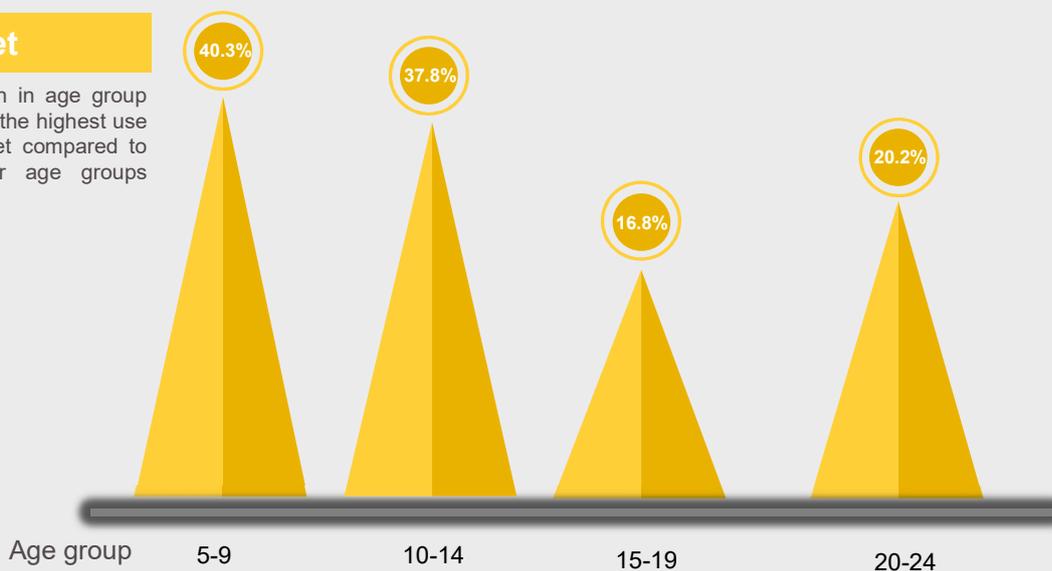
Laptops were used in relatively high percentages by the youth in age groups 15 – 19 (46.8%) and 20 – 24 years (55.8%)..



Laptop

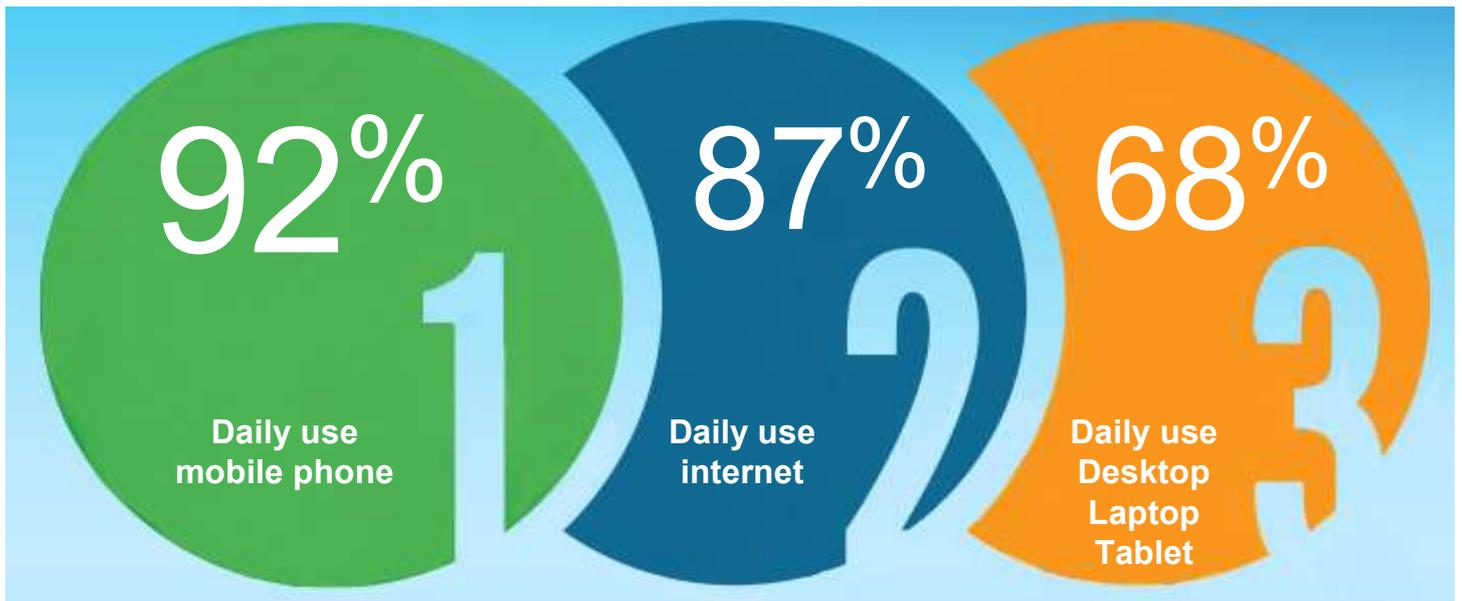
## Tablet

The youth in age group 5 -9 had the highest use of a tablet compared to the other age groups (40.3%).



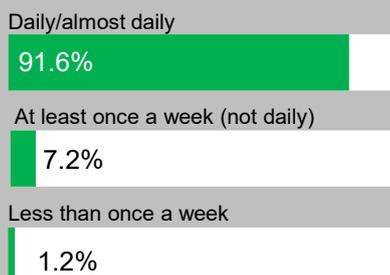
Tablet 24

# Mobile phone, internet, tablet

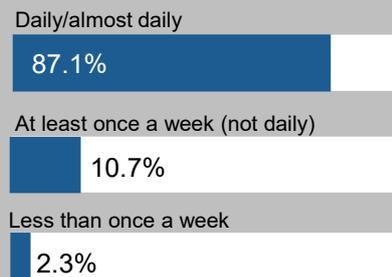


- Almost 92% of young persons used a mobile phone daily
- The proportion of youth using a mobile phone 'at least once a week' (but not daily) was 7.2%
- The group that used a mobile phone 'less than once a week' was just 1.2%
- 87% of young persons were on the internet daily or almost daily
- The percentage of youth that used the internet at least once a week (but not daily) was 10.7%
- The group using the internet less than once a week was 2.3%
- The desktop computer, laptop and tablet were used daily or almost daily by almost 68% of all youth
- 25.7% had used these devices at least once a week (but not daily)
- 6.4% they had used the devices less than once a week

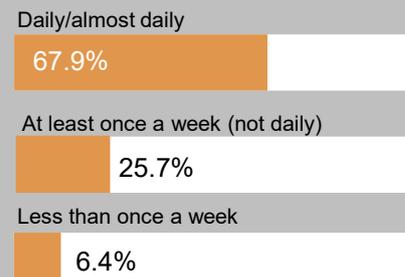
## MOBILE PHONE



## INTERNET



## DESKTOP LAPTOP TABLET

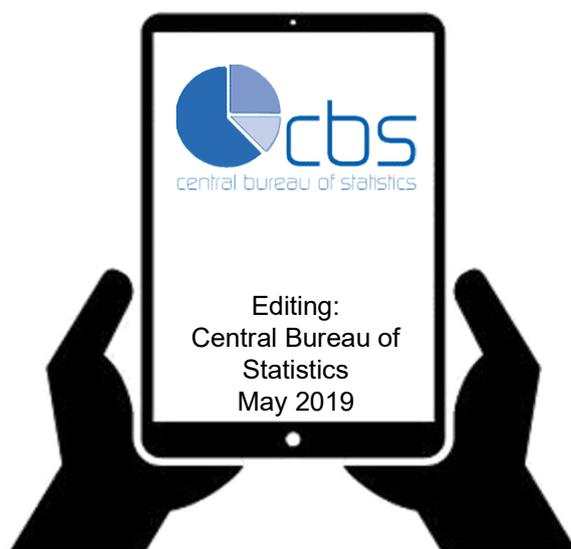


# Conclusion

The results of the 2017 ICT survey indicated that the devices that were predominantly used by youth in Aruba were the mobile phone (used by 69.5% of youth), the laptop (37.2%) and the tablet (29.0%). When comparing the sexes, 69.1% of young males had used a mobile phone 3 months prior to the survey, while for young females this percentage was 69.9%. Male and female youth aged 20-24 years had the highest percentage use of a mobile phone (males 90.6% and females 92.2%).

Internet use in Aruba by youth stood at a higher percentage (84%) when compared to the World's youth (70%). As many as 83% of young males in Aruba that participated in the survey used the internet 3 months prior to the survey and for young females this percentage was slightly higher (85%). The youth of Aruba mostly used the internet at home (98.8%) and 86.6% visited social media sites daily or almost daily.

The results also showed that the percentage of female youth aged 12-17 years with ICT skills was higher, in all but one skill (downloading and installing software from the internet), when compared to young males. Comparing the use of a desktop computer to that of a laptop and or a tablet, a higher percentage of youth used a laptop (37%). When taking a closer look at the school attending youth, the use of a laptop increased in students attending secondary education, while the use of a tablet decreased. The percentage of youth using a tablet was higher at the primary level of education. Based on the results from the ICT survey, we can conclude that the majority of youth who used a mobile phone, accessed the internet or used either a desktop computer, a laptop or a tablet, used it daily (92%, 87%, and 68%, respectively).



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