

# Use of Bank Cards in Kosovo

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BANKA QENDRORE E REPUBLIKËS SË KOSOVËS CENTRALNA BANKA REPUBLIKE KOSOVA CENTRAL BANK OF THE REPUBLIC OF KOSOVO

# **Use of Bank Cards in Kosovo**

(Based on data reported by banks and non-bank financial institutions)

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#### ABBREVIATIONS:

ATM Automated Teller Machine

CBK Central Bank of the Republic of Kosovo

PSD Payment Systems Department

EFT-POS Electronic Fund Transfer Point of Sale

POS Point of Sale

**INFORMATION:** 

For more detailed description, refer to the explanatory notes. Users of this data are required to cite the source. Suggested citation: Central Bank of the Republic of Kosovo. Use of bank cards in Kosovo, Prishtina 2022.

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# Data on the number of terminals and bank cards for the year 2021 in Kosovo

1		ĺ
Inhabitants		1.79 million
Area (km^2)		10,887
Density (per km^2)		164
ATMs		515
	per 1 million inhabitants	287
	per 100 km^2	5
POS		13,836
	per 1 million inhabitants	7,729
	per 100 km^2	127
Credit Cards		176,529
	per 1 million inhabitants	98,619
<b>Debit Cards</b>		1,285,113
	per 1 million inhabitants	717,940

#### 1. Introduction

Despite the fact that card payments from the user's perspective are easy to perform and are now used by almost every consumer, the performing and complete execution of card payment transactions is a complex process, which involves many interconnected participants: the payment of the service provider, the issuing institution and receiving (acquiring) institution, settlement accounts and their systems. It is not possible to analyze just one component without considering its effect on each of the links in the chain of card transactions.

In the payment cards market in the Republic of Kosovo, there have been developments during the last few years in view of improving customer services and increasing the efficiency of the banking system, offering customers numerous payment methods without using cash.

The number and value of electronic payments in the Republic of Kosovo has increased continuously in recent years. The growth of electronic payment transactions is mainly driven by card payments as the most used payment instrument in replacement of cash in the country.

The following analysis shows the increase in the number and value of payment transactions through cards during 2021 as well, the increase in the total number of cards and their functionality, including the increase in the number of contactless payment cards. Also, in this study, for the first time, data from non-banking financial institutions have been included in the part of the total number of cards, their types and functions.

The following analysis presents details of the use of cards in Kosovo, as well as the infrastructure of card payments. We emphasize that this study is based on statistical data of commercial banks and non-banking financial institutions which includes the January-December 2021 period and aims to provide the public with a comprehensive overview of the payment card market in Kosovo during 2021, with useful data for users, payment service providers and the general public.

#### 1.1 Publication structure

The publication is divided into seven chapters. Chapter one is the introduction of the publication, where the structure of the publication is explained and a brief overview of the legal framework under which the statistical data is collected.

Chapter two, entitled "Payment infrastructure" presents data about the terminals that are available to the customer.

In Chapter three, details about the use of cards in Kosovo are presented. The chapter contains data about the number of cards, their types and functions, as well as data about the use of cards, divided by age and gender of card holders.

Chapter four presents data about the number and value of transactions made by customers during 2021. The data is divided according to the terminals where the payments were made and also according to the value of the payment.

Chapter five presents the number and value of card transactions according to the location of the terminals, in the main cities of Kosovo.

Chapter six is the conclusion of the publication.

## 1.2 Legal framework

One of the oversight tasks of the Central Bank of the Republic of Kosovo is the regulation and supervision of payment instruments. This task is defined in the Law on the Central Bank of the Republic of Kosovo, Article 22, point 2.3 " to regulate and oversee the issuance and quality of payment instruments".

Determination of conditions, requirements and procedures for the issuance and use of electronic payment instruments, as well as the determination of the manner of reporting information during the use of these electronic payment instruments is regulated by the Regulation on electronic payment instruments. Also, the CBK has approved the Regulation on reporting payment instruments statistics, which defines the statistics to be reported, reporters and statistical obligations of reporters, reporting period and reporting forms, confidentiality, guidelines for drafting reports, and the minimum standards applied for reporting.

# 2. Payment Infrastructure

In the payment market in Kosovo, at the end of 2021, 14,351 terminals were reported in which cards were accepted. Of this number, 515 are ATM terminals for cash withdrawals, and 13,836 POS terminals for card payments.

#### 2.1 ATM terminals

**ATM** (automatic teller machine) is an electromechanical device that allows authorized users to withdraw money from their accounts and / or access services using physical cards readable by devices / machines, enabling the users to, for instance, check the account balance, transfer or deposit funds.

At the end of 2021, the number of ATM terminals was 515. All ATM terminals that have been installed in Kosovo offer the withdrawal function, while 281 and 45 of them offer the possibility of deposit, respectively, the credit transfer function.

Table 1. ATM terminals

Terminals by function	2021
<b>Automated Teller Machines (ATM)</b>	515
of which:	
ATM with cash withdrawal function	515
ATM with credit transfer function	45
ATM with cash deposit function	281

Source: CBK (2022)

Figure 1 shows the data on the number of ATM terminals in the last three years and their annual growth compared to the previous year.

Figure 1. Number of ATM terminals in the last three years

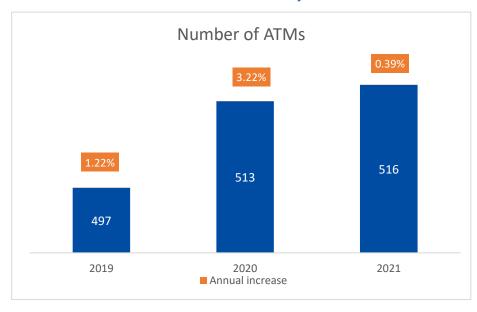


Figure 2 shows the distribution of the network of ATM terminals in the largest cities of Kosovo at the end of 2021.

The following figure below shows that the majority of ATM terminals are concentrated in the capital, while the rest are distributed among other cities of Kosovo. The reasons for such a large concentration of ATM terminals in Prishtina are various, such as: the large number of inhabitants living in Prishtina, the number of bank branches, businesses operating in this city, etc.

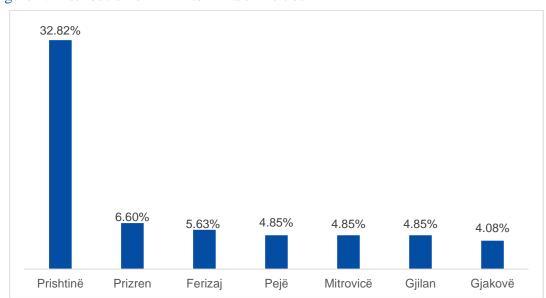


Figure 2. Distribution of ATM terminals in cities

Source: CBK (2022)

#### 2.2 POS Terminals

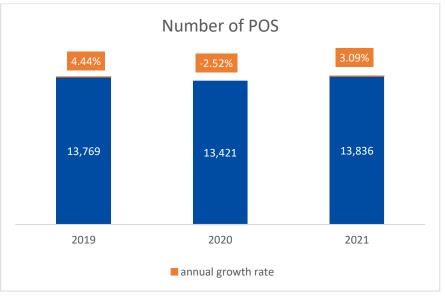
**POS terminal** is a device that allows the use of payment cards at a physical (non-virtual) point of sale. POS terminals allow customers to make card payments without the need for cash. This is a very easy and safe way of making payments for various goods or services.

Table 2. POS Terminals

Terminals by function	2021
POS terminals (Point of Sale)	13,836
of which:	
POS with cash withdrawal function	60
EFTPOS	13,777

The number of POS terminals at the end of 2021 was 13,836 terminals, of which 60 of them also offer cash withdrawal service. The following figure shows the data for the last three years on the number of POS terminals and the annual increase/decrease.

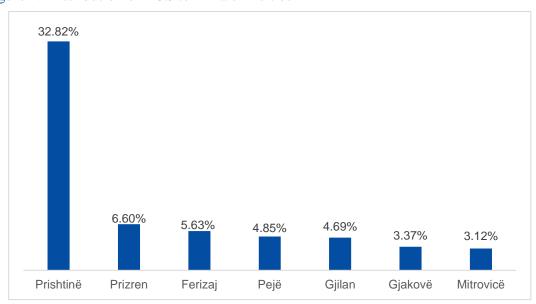
Figure 3. Number of POS in the last three years



Source: CBK (2022)

Figure 4 shows the distribution of the POS terminals network in the largest cities of Kosovo at the end of 2021. Similar to the distribution of ATM terminals, the POS terminals network is more concentrated in Prishtina.

Figure 4. Distribution of POS terminals in cities



#### 3. Use of cards

#### 3.1 Total number of cards

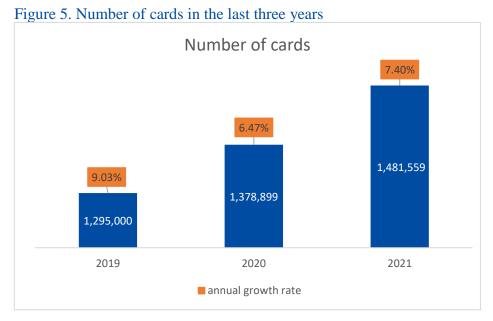
At the end of 2021, 1,481,559 customer cards were reported in the Republic of Kosovo, which include debit cards, credit cards and delayed debit cards (charge cards) for individuals and businesses. In the total number of cards for 2021, the data of payment cards from NBFIs with a total of 3,298 cards are also included. Compared to the end of 2020, the total number of customer cards has increased by 7.4 percent. The total number of cards at the end of 2020 was 1,378,899 cards. For the same period, debit cards have increased by 6.9 percent, while credit cards have increased by 0.8 percent.

Table 3. Types and functions of cards

Types of cards	Debit	Credit	Delayed debit
Local cards	39,444	345	0
Visa	691,093	104,392	496
MasterCard	554,576	71,792	188
Total number	1,285,113	176,529	684

Source: CBK (2022)

For the three-year period (2019-2021), the total number of cards in Kosovo, and the annual growth percentage is presented in Figure 5.



Source: CBK (2022)

The cards used in Kosovo are mainly international brand cards, such as Visa and Mastercard, and a small part are local cards. Of the total number of cards, about 53.8 percent of them are Visa brand and 42.3 percent are MasterCard, and close to 3.9 percent are local cards.

The following figure presents the data about the card brands used in Kosovo:

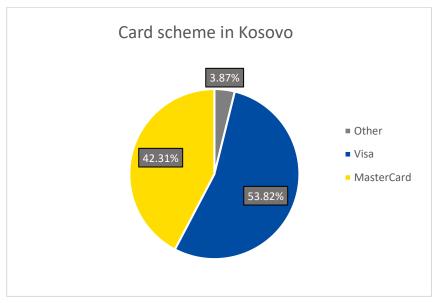


Figure 6. Card scheme in Kosovo 2021

Source: CBK (2022)

Depending on the technology that has been applied to initiate payment transactions, cards can be divided into two types: contact and contactless cards. "Contact" cards are those types of cards with which transactions are carried out by placing the card in the POS terminal, while contactless cards enable transactions to be carried out only by holding the card close to the POS terminal, i.e. without the need to touch the device.

Contactless cards have been issued in Kosovo since 2016. During 2021, there were nine commercial banks in Kosovo that offered these types of cards to their customers. The total number of cards with the contactless function at the end of 2021 was 907,946 cards.

Of the total number of cards, more than half of them (61.3 percent) offer the possibility of contactless payments. The figure below shows the share of contactless cards in the total number of cards in the last three years.

The annual growth percentage shows that the new cards are mostly with the contactless function and the existing cards are gradually being replaced when their term expires with contactless cards.

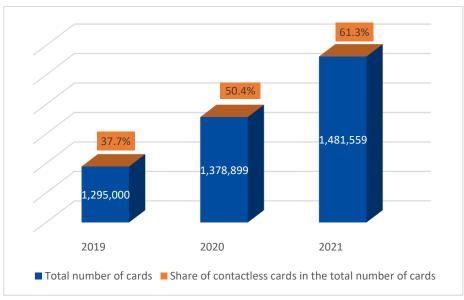


Figure 7. Share of contactless cards in the total number of cards

## 3.2 Number of cards by age and gender of card holders

The data presented in Figure 8 indicate that there is a higher possession of cards for all age groups by men. In younger citizens, this difference is smaller, but it is more noticeable in older citizens.

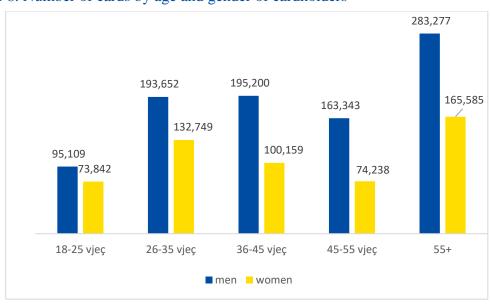


Figure 8. Number of cards by age and gender of cardholders

### 3.3 How much are debit and credit cards used by customers?

#### 3.3.1 Use of debit cards by customers

Debit card means a card that enables the holder to make purchases directly and immediately from the account. The debit card can be linked to an account that offers overdrafts as an additional feature.

The use of debit cards by customers is constantly increasing. If we compare the number of debit card payments in 2021 with the previous year, we have an increase of 13.4 percent of transactions. This number includes all transactions performed with debit card by customers in ATM and POS terminals.

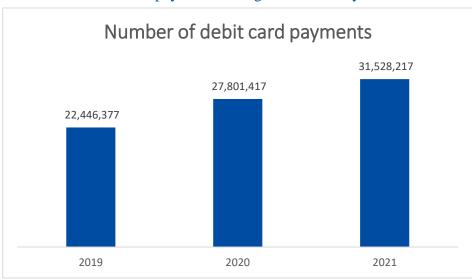


Figure 9. Number of debit card payments during the last three years

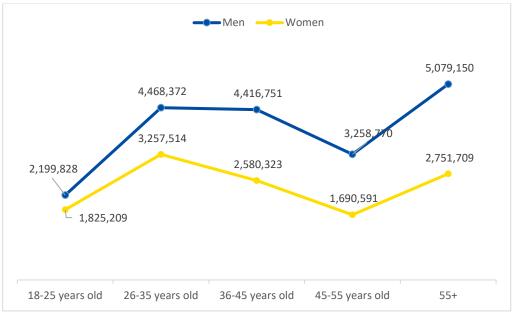
Source: CBK (2022)

**Security -** bank card is a payment instrument and as such should be guarded and used with care. During its use, one should be cautious and attentive

- Only the cardholder can use it -i.e. the card must have your name on it.
- You should take care of Personal Identification Number PIN (Attn: never store your PIN and card together and do not disclose the PIN to another person, etc.)
- Do not share information on your card over the phone, by email or other insecure means.
- In case of card loss, inform your bank as soon as possible. The bank will block the card immediately to prevent the card misuse by unauthorized persons.

During the analysis of the number of card transactions, it results that during 2021 the age group of 26-35 years has performed the largest number of transactions with debit cards, of which 58 percent of transactions are performed by men and 42 percent by women. This may mean that this age group has a higher tendency to use electronic payment instruments, but it may also be related to the fact that they have higher card ownership and a more regular monthly income.

Figure 10. Number of debit card payments at terminals (by age and gender of cardholders for 2021).



Source: CBK (2022)

The data in Figure 11 show that the citizens of the age groups 36-45 and over 55 years old have made payments of higher value during 2021, compared to other age groups. If we make the correlation between the number and value of debit card transactions, it can be concluded that the performed transactions also differ in the number of transactions, but the biggest difference lies in the value of these payments as shown in the figure below.

1,446,753,363

795,430,836

725,543,509

246,810,362

321,245,504

283,211,424

215,837,599

126,020,323

18-25 years old

26-35 years old

36-45 years old

45-55 years old

55+

Men

Women

Figure 11. Value of debit card payments at terminals (by age and gender of cardholders for 2021).

#### 3.3.2 Use of credit cards by customers

Credit cards enable their holders to make payments or even withdraw cash up to the limits set by the card issuer. Credit allowed can be repaid in full at the end of the predetermined period or repaid in part, according to the agreement with the bank, through the application of interest by the bank to the cardholder for the amount of the credit used.

Credit cards have become the everyday tool for citizens to make payments, and to manage their finances. Recent years have seen an increase in their use for making payments at ATMs and POS terminals, but also for online purchases.

The following figure shows the trend of credit card payments within the last three years.

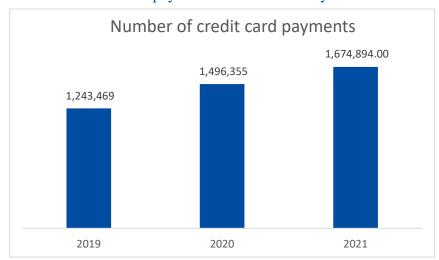


Figure 12. Number of credit card payments in the last three years

From the data presented in Figure 13, we note that the transactions of citizens aged 26-35 years and those aged 36-45 years, constitute the largest number of credit card transactions. From the total number of credit card transactions, it can be seen that 69 percent of the transactions were performed by men, whereas 31 percent by women.

The biggest difference lies in the number of transactions performed by citizens over the age of 55, where it is seen that 73.90 percent of credit card transactions are performed by men, whereas only 26.10 percent of them are performed by women.

Figure 13. Number of credit card payments at terminals (by age and gender of cardholders for 2021).

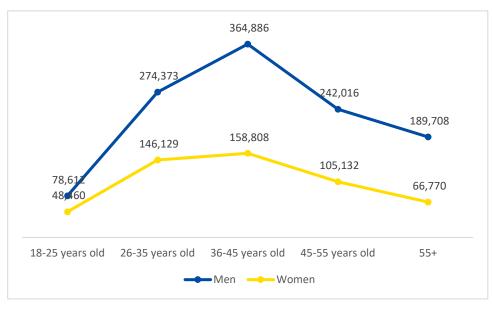


Figure 14 shows the value of credit card transactions performed during 2021 by the citizens of Kosovo. From the data presented we note that similar to the number of transactions, 82 percent of the value of credit card transactions are performed by men, whereas 18 percent of them are performed by women.

55,547,981 6,263,539 25,304,190 10,090,435 8,803,060 4.921.300 6,697,440 4,358,001 1,842,738 18-25 years old 26-35 years old 36-45 years old 45-55 years old 55+ Men --- Women

Figure 14. Value of credit card payments at terminals (by age and gender of cardholders for 2020).

#### 3.4 Use of cards for online payments

Along with the increase in the number of cards and based on the high number of internet users in Kosovo<sup>1</sup>, online purchases (card payments) through the Internet have also increased.

The fast and secure trend of virtual infrastructure development driven by the circumstances created by the pandemic situation, has enabled the increase in the number of payments that customers have made remotely, such as online payments. The figure below shows the upward trend over the last three years.

<sup>&</sup>lt;sup>1</sup>In 2021, 96.4% of households in Kosovo had access to the Internet at home or apartment from any device; https://ask.rks-gov.net/media/6800/vjetari-statistikor-2021f.pdf

Number of online payments

2,775,096

1,352,342

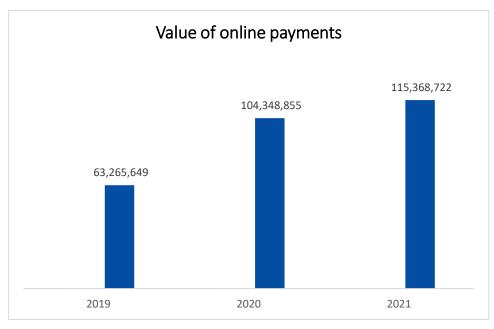
2019

2020

2021

Figure 15. Number of online payments over the last three years<sup>2</sup>





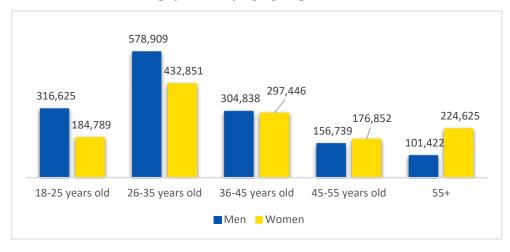
Source: CBK (2022)

Presentation according to socio-demographic factors, confirms the online purchases trend during 2021, where it can be seen that customers of a younger age are more familiar with online purchases.

<sup>&</sup>lt;sup>2</sup> The data for 2020 have been revised

Figure 17 shows that the largest number of online transactions were made by men in the 26-35 age group with 57 percent of the number of transactions, compared to women of this age group who made 43 percent of the transactions.

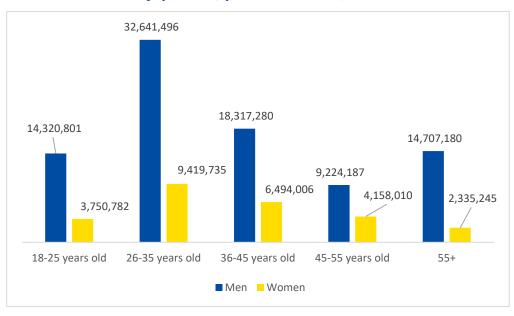
Figure 17. Number of online payments by age group



Source: CBK (2022)

Figure 18 shows the value of online card purchases. From the data presented, it is found that of all age groups, men make more online purchases.

Figure 18. Value of online payments (by card via internet)



#### 4. Card transactions

#### 4.1 Transactions divided by value of payments

At the end of 2021, 13,836 POS terminals were installed in Kosovo, which enable citizens to make card payments. Of the total number of terminals, 90 percent of them offer the possibility of 'contactless' payments. Many banks have increased the limit of contactless payments by enabling customers to make faster and more secure payments at POS by avoiding physical contact, these payments can be made up to the amount of 50 euros.

#### 4.1.1 Card transactions at POS terminals

Figure 19 shows the total number of transactions carried out in POS terminals of reporting banks within the country and the annual growth percentage of these transactions for the last three years.

During 2021, about 10.6 million card transactions were recorded in POS terminals, which compared to the previous year shows that the volume of transactions has marked an increase of 2.3%. A higher increase in the use of cards was observed during 2020 as a result of the pandemic with the aim of reducing the possibility of the spread of the Covid-19 virus during the process of making payments, which is seen to have continued in 2021.

Also, the amendment of the regulation on electronic payment instruments, which eliminated the customer fees when making the payment at the banks POS terminal, turns out to have had an impact on the increase in card payments.

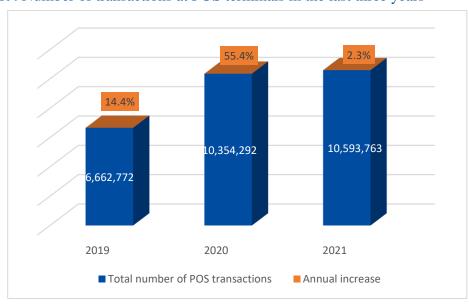


Figure 19. Number of transactions at POS terminals in the last three years

From the data presented in Figure 19 it can be seen that the citizens of Kosovo prefer to make lower value payments: 70 percent of the total number of payments at POS terminals is worth 0-20 Euros, whereas 30 percent of those are over 20 Euros.

Also, from Figure 20 it is noticed that the payments in POS terminals over 200 Euros are in a very small number, they constitute only 1.5 percent of the total number of payments made in POS during 2021.

3,796,256

1,077,499

883,201

453,339

289,610

201,169

119,879

45,740

0-20 Euro

21-50 Euro

51-100 Euro

101-200 Euro

>200

Figure 20. Number of card payments at POS terminals by value

Source: CBK (2022)

#### 4.1.2 Card transactions at ATM terminals

Figure 21 shows the number of ATM withdrawals during 2021, broken down by age and gender of cardholders. The number of withdrawals at ATM terminals in the amount of up to 20 Euros constitutes 23.6 percent of the total number of withdrawals, withdrawals in the amount of 21-50 Euros constitute 20.2 percent of the total number of ATM withdrawals, whereas those over 200 Euros constitute 20.4 percent of the total number of ATM withdrawals during 2021.

From the total number of ATM withdrawals, it can be seen that 55 percent of the number of transactions are performed by men, whereas 45 percent by women.

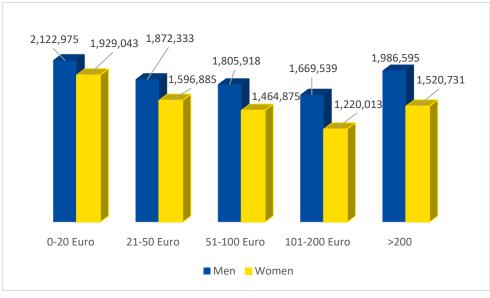


Figure 21. Number of ATM withdrawals by value

#### 4.1.3 Card transactions via the Internet

Online card purchases in recent years have become very attractive for the citizens of Kosovo, same as for the citizens of other countries. These payments are being accompanied by rapid development trends. They are mainly used for the purchase of goods or services, hotel reservations, payment of travel tickets, etc.

From the data presented in Figure 22, we notice that the largest number of online purchases were made in the 0-20 Euro value category, while from the total number of online purchases, 72 percent of purchases were made by men, while 28 percent of purchases by women.

1,102,183 448,420 341,561 218,835 172.467 132,613 154,271 93,847 61,050 49,844 >200 0-20 Euro 21-50 Euro 51-100 Euro 101-200 Euro ■ Men Women

Figure 22. Number of online payments by value

#### 4.2 E-commerce service in Kosovo

Electronic commerce (e-commerce) is the buying and selling of goods and services or the transmission of funds or data over an electronic network such as the Internet.

Commercial banks in Kosovo enable companies to sell their products or services directly through their websites. In Kosovo, e-commerce development has had a significant increase especially during the Covid-19 pandemic, which has continued to be significantly higher compared to the period before the pandemic, albeit with a slight decrease.

The following figure shows the number of online card payments made through the ecommerce service by customers on company websites within the country during the last three years.

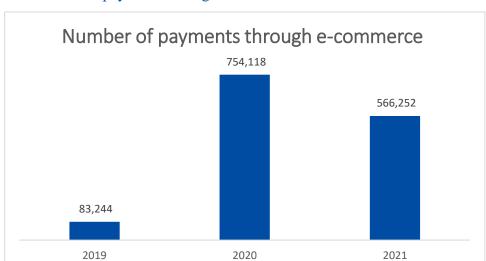


Figure 23. Number of payments through e-commerce

This means that many companies in Kosovo have started to use the infrastructure provided by banks to sell their products or services online, also influenced by the situation created as a result of the Covid-19 pandemic.

From figures 24 and 25 below, it can be seen that the highest number of payments through e-commerce consists of payments with a small value up to 20 euros, while the highest percentage of these payments is occupied by high value payments above 200 euros.

355,321 107,385 47,399 28,718 27,429 0-20 Euro 21-50 Euro 51-100 Euro 101-200 Euro >200 Number of payments

Figure 24. Number of payments through e-commerce

Source: CBK (2022)



Figure 25. Value of payments through e-commerce

Source: CBK (2022)

#### 4.3 Digital wallet service

Digital wallet is a mobile app, which is based on bank cards, and customers can make contactless payments at POS terminals at home and abroad, after linking their card to the digital wallet application provided by the bank. To make a payment, customers only need to place their mobile phone on a contactless POS terminal and the payment can be

performed. During 2021, three commercial banks offered the payment service through the digital wallet.

The number of payments through the digital wallet during 2021 was 36,917 payments, while the total value of these payments was 544,898.12 euros.

# 5. Card transactions according to the location of payment terminals

The number of ATM and POS terminals that are installed in Kosovo are mainly concentrated in the largest cities, where Prishtina leads with 32.8 percent of the number of ATM terminals and 49.9 percent of the number of POS terminals, while the rest is distributed among other cities in Kosovo.

From the data presented in Figure 26 it can be seen that 58 percent of card transactions were performed in ATM and POS terminals installed only in the city of Prishtina, while the remaining 42 percent were performed in terminals installed in the other 6 largest cities after Prishtina.

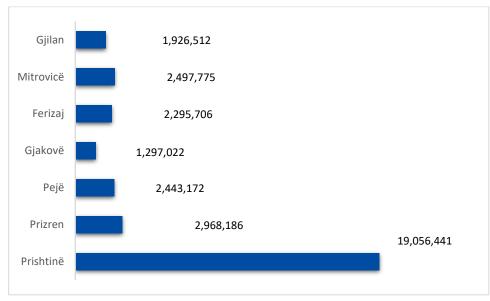


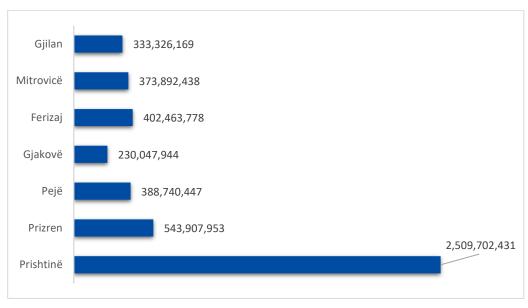
Figure 26. Number of transactions at ATM and POS terminals by main cities

Source: CBK (2022)

Same as the number of transactions, also their value executed at ATM and POS terminals is greater for the city of Prishtina, compared to the other 6 largest cities in Kosovo.

52.4 percent of the value of card transactions was executed in Prishtina, while 47.6 percent in the other 6 largest cities of Kosovo as shown in Figure 27.

Figure 27. Value of transactions at ATM and POS terminals by main cities



#### 5.1 Share of card transactions by number and value

The following is a graphic representation of the share of each type of transaction in the number and total value of card transactions. From Figure 28 can be seen that ATM withdrawals constitute the largest number and value of card transactions. Of their total number performed during 2021, 47 percent of card transactions are ATM withdrawals, while payments at POS terminals are 47 percent of the total number of card transactions. Also, in terms of transaction amount, withdrawals dominate with a share of 59 percent, followed by ATM deposits with 31 percent, while card payments at POS terminals account for 47 percent of the total number of card transactions. Their share is much lower at 10 percent in the total value of card transactions. Such a share in the value of POS transactions means that citizens are more likely to use cards to make small value payments.

100% 90% 30.77% 80% 70% 46.76% 10.22% 60% 50% 40% 30% 58.83% 47 12% 20% 10% 0% Number Value ATM withdrawals Card payments Credit transfers at ATM Cash Withdrawals at POS ■ATM Deposits

Figure 28. Share of card transactions

## 6. Conclusions and findings of the analysis

#### Use of cards

Despite the fact that the number of card transactions in Kosovo per capita is lower than the number of transactions in Eurozone countries, the card market in the country continues to develop at a fast pace, providing citizens with easy and safe alternatives to perform payment services. From the data presented in this analysis it can be noted that the cards still constitute the most important element within the instruments that replace cash payments.

#### Debit cards with the largest market share

Debit cards remain higher in numbers compared to credit cards, and as a result the number and amount of transactions performed with debit cards is higher compared to credit cards. Given the relatively high number of cards in circulation, as well as the network of ATM and POS terminals, institutions should concentrate more on increasing the use of cards which are already distributed to citizens, but that their use at payment terminals remains low.

#### Frequency of use

Encouraging is the fact that citizens are also using the cards to carry out small value transactions which represent daily payments, which are usually in large numbers. Making

these payments through cards will reduce the circulation of cash, reducing operating costs associated with their circulation.

#### Development of educational campaigns

Financial institutions in the country should pay more attention to the development of educational campaigns for the use of electronic payment instruments. In addition to conducting educational campaigns on the use of electronic payment instruments, financial institutions should evaluate the results of these campaigns, analyzing and measuring the results achieved during such campaigns.

#### Unification of payment infrastructure and cost reduction for businesses

Payment service providers (banks and non-banking financial institutions licensed to provide payment services) should work on unifying the infrastructure for card payments in order to increase market efficiency by expanding the network of payment terminals to small businesses, as well as reducing the costs of businesses for accepting card payments. The unification of the POS terminal network would be an important step towards the objective of increasing card payments and reducing cash payments.

In order to increase card payments, CBK has amended the regulation on electronic payment instruments by eliminating the fees that banks applied to the cardholder when making payments at terminals of other banks. In addition, CBK has adopted the EU regulation on the regulation of interchange fees through the recent amendments to the regulation on electronic payment instruments. These changes are expected to result in the reduction of costs for businesses when accepting card payments, as well as drive the market towards the unification of infrastructure and a more efficient distribution of POS terminals, as well as towards cost reduction and increased efficiency of accepting card payments for businesses.