

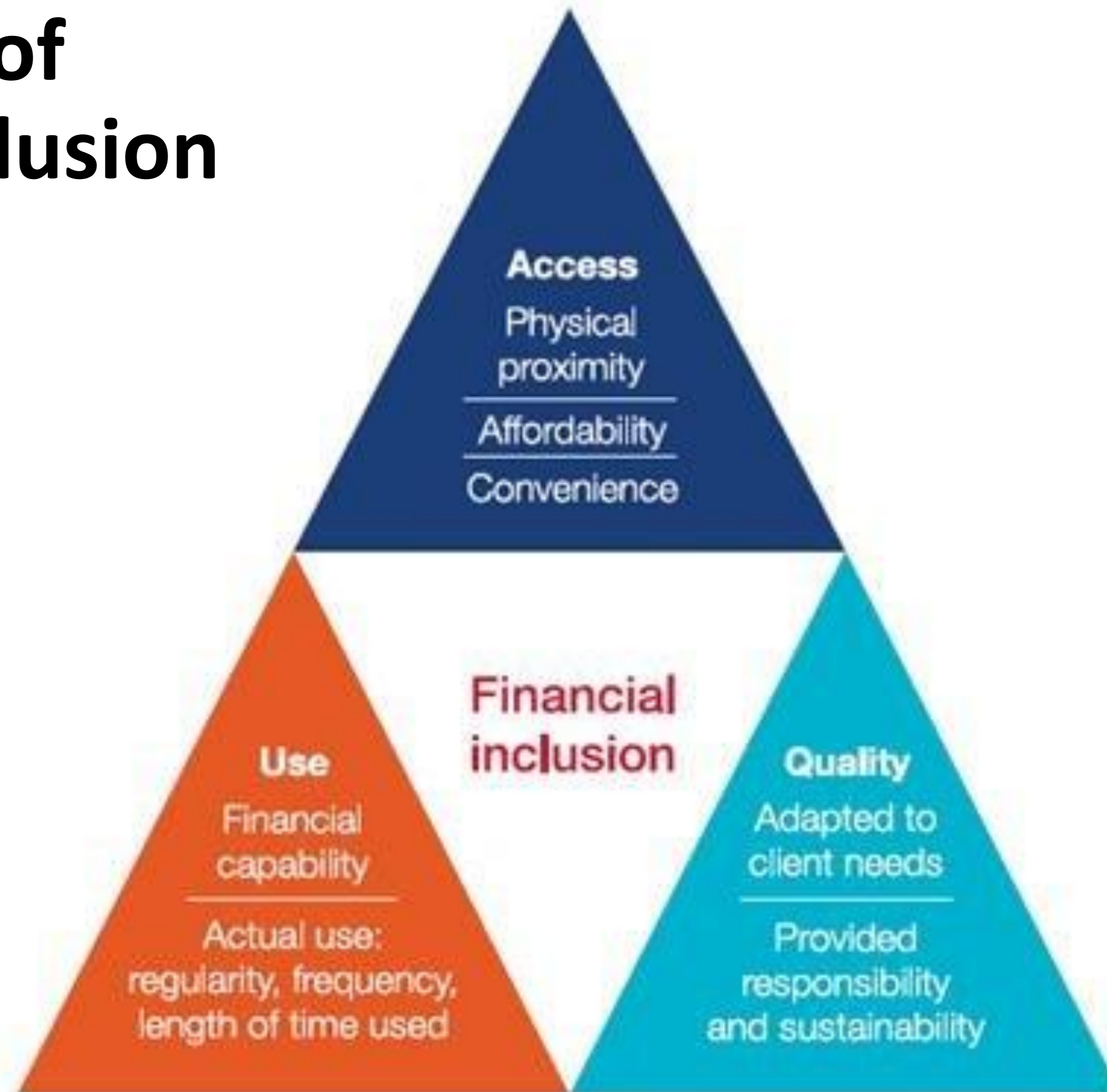
# Digital Credit & Financial Inclusion

Tamara Cook  
FSD Kenya

ICPAK 37<sup>th</sup> Annual Seminar  
May 2021

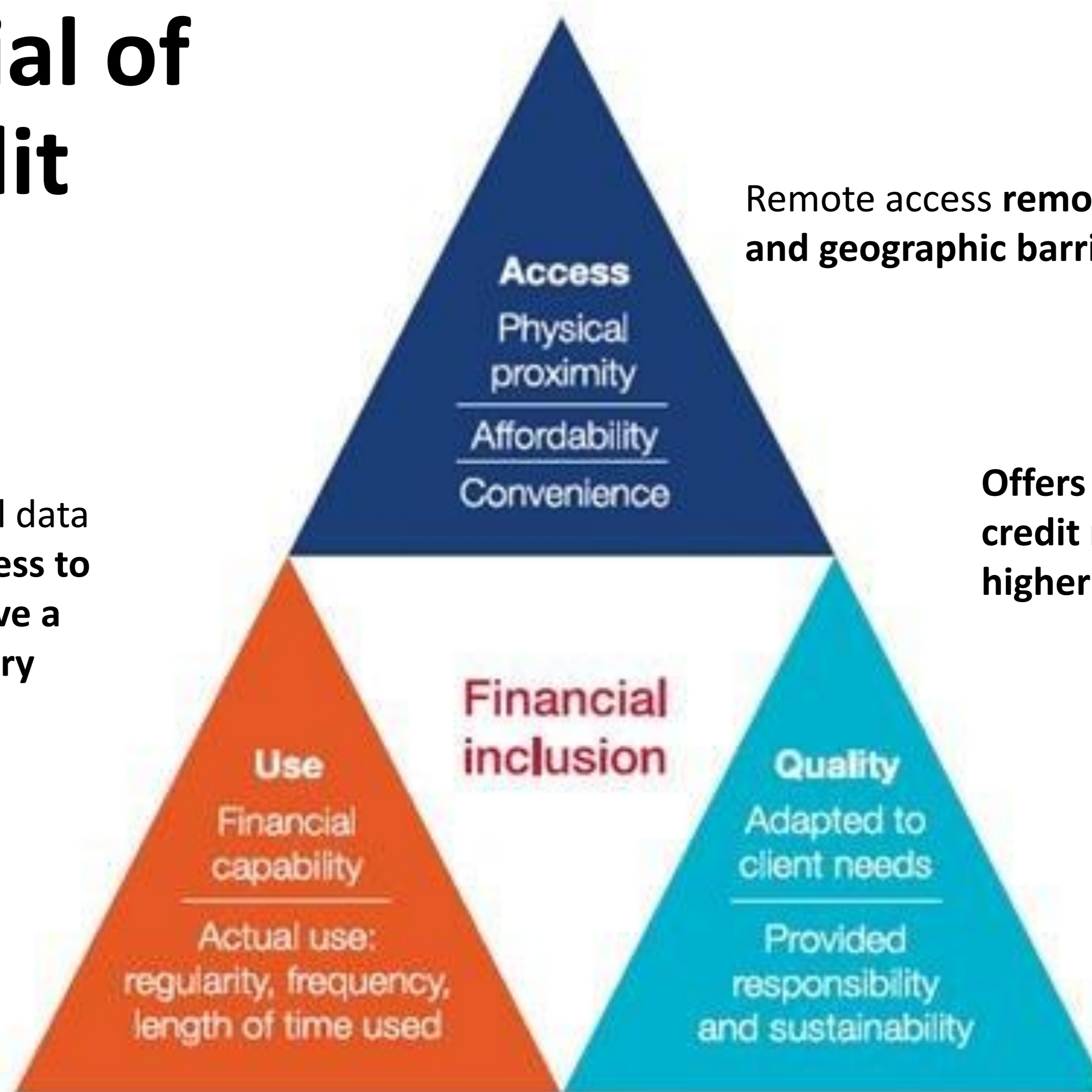


# Dimensions of Financial Inclusion



# The Potential of Digital Credit

Use of non-traditional data sources promises **access to those who do not have a formal financial history**



Remote access removes time, cost and geographic barriers

Offers the chance to build a credit rating and access higher value credit

Automated and algorithmic credit scoring should help **remove taste based (personal) biases**

# Combination of digital savings & credit increased financial inclusion

FIGURE 1

## Growth in M-Shwari Savings Accounts (in millions)



Source: CBA (2014).

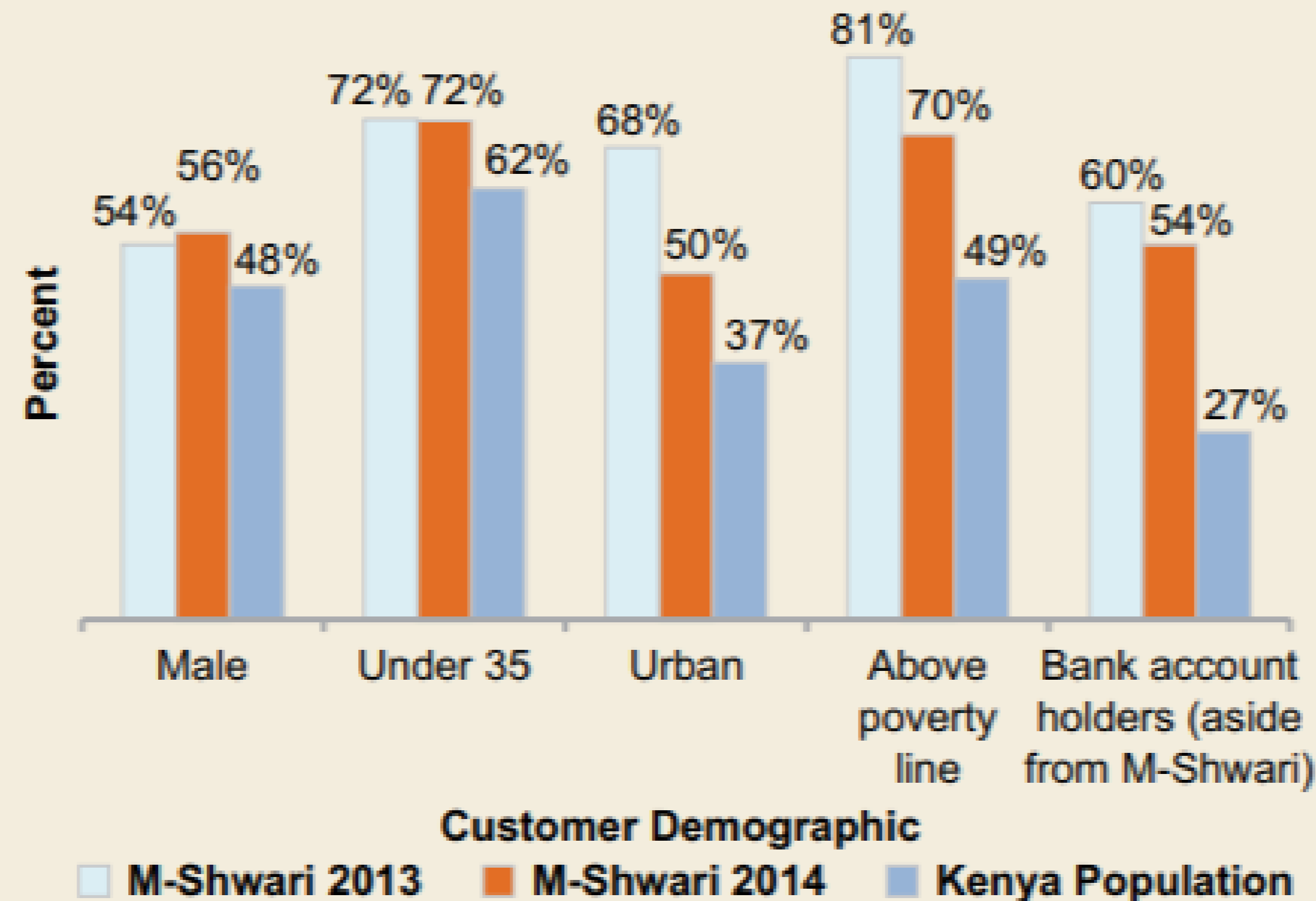
### TABLE 1 Key M-Shwari Statistics

Total savings accounts	9.2 million opened 7.2 million unique customers 4.7 million active 90 days
Total number of loans	20.6 million cumulative loans since launch 2.8 million unique borrowers since launch 1.8 million active as of December 2014
Deposit amounts	US\$1.5 billion deposited since launch US\$45.3 million deposit balance as of December 2014
Loan amounts	US\$277.2 million disbursed since launch US\$17.7 million outstanding as of December 2014
Average savings balance	KES 504 (US\$5.56)—all accounts KES 911 (US\$10.06)—active 90 days KES 1971 (US\$21.76)—active 30 days
Nonperforming loans	2.2% over 90 days

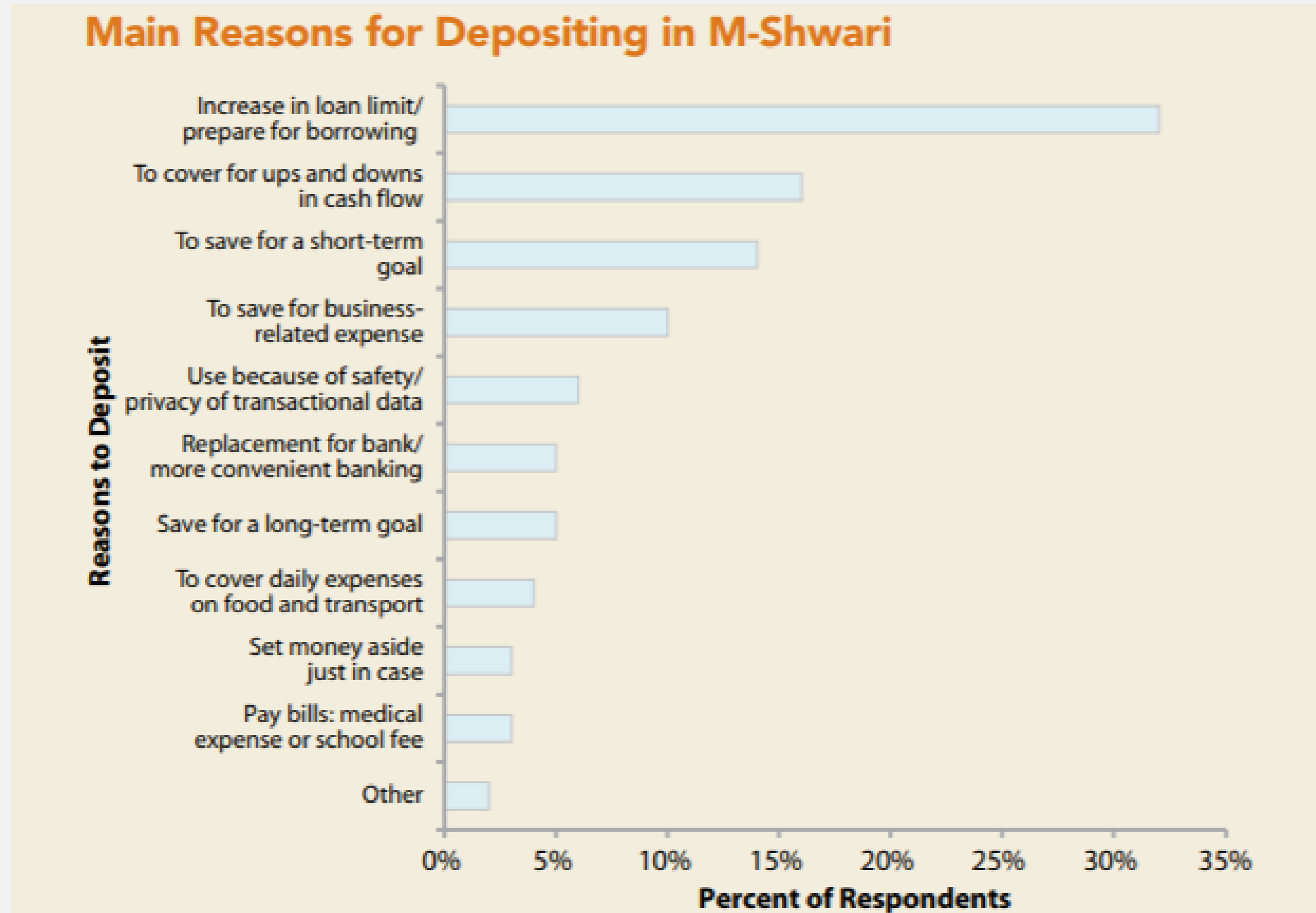
## M-Shwari case study (2015)

Like M-Pesa, M-Shwari started out more young, urban and male but became more inclusive over time

**M-Shwari Customer Demographics: Change from 2013 to 2014 and Compared with General Kenya Population**



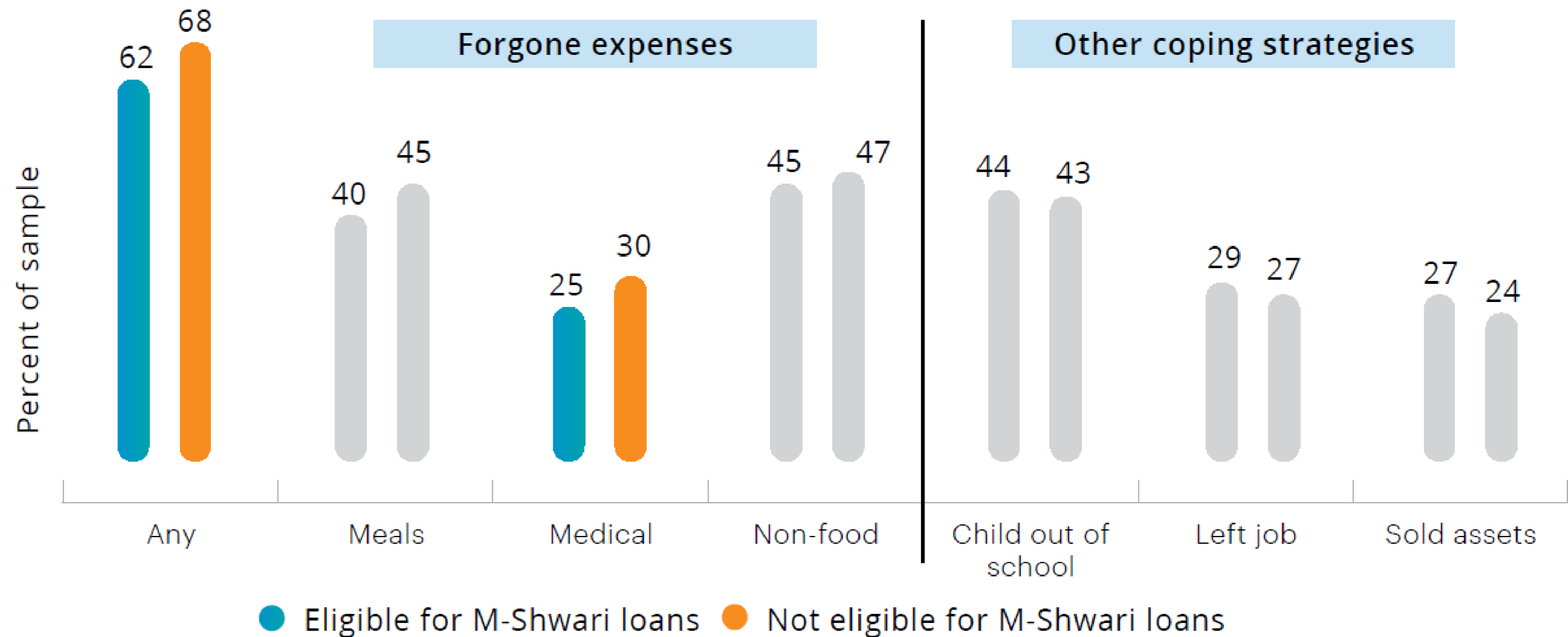
# Many reasons for saving but credit the biggest



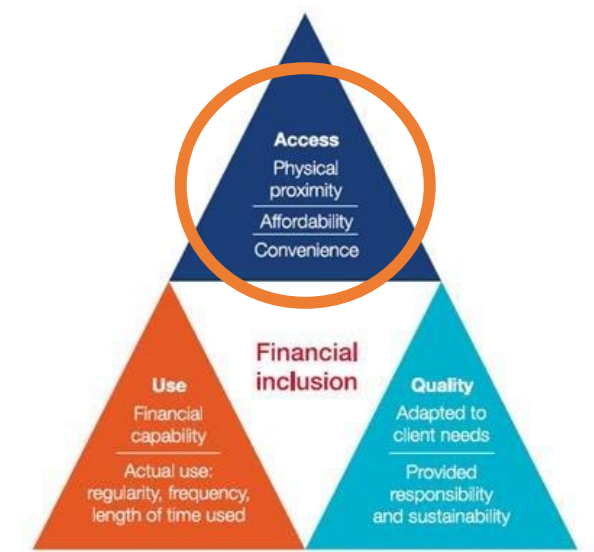
# 2017 Impact study showed M-Shwari borrowers less likely to forgo expenses following a shock

**Figure 6:** Access to M-Shwari decreases the likelihood that households forego medical expenses in the aftermath of a negative shock

Risk coping strategies in response to any negative shock in the past 6 months, by M-Shwari borrowing eligibility status

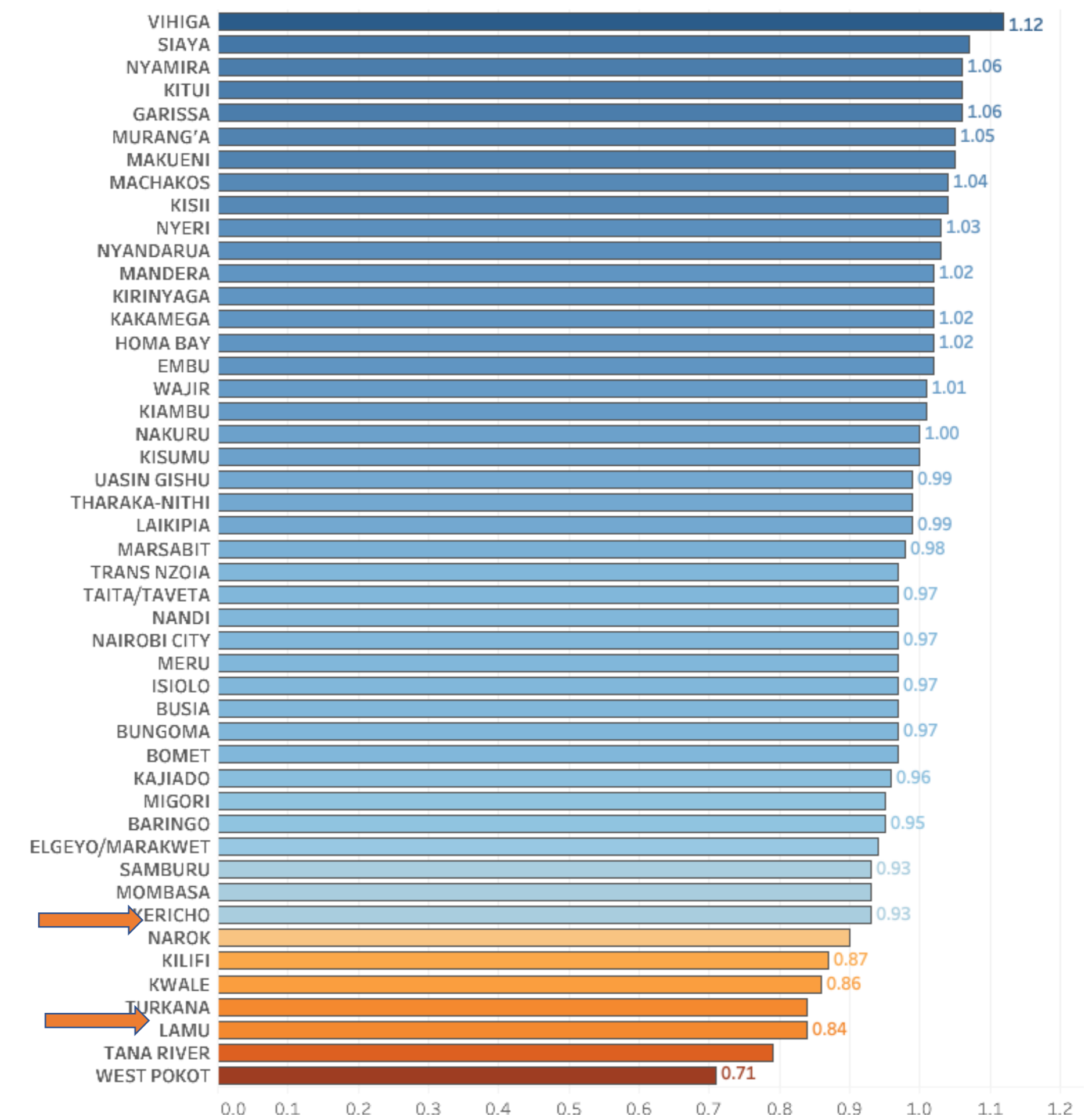


# Digital Divide – Mobile Phone Ownership

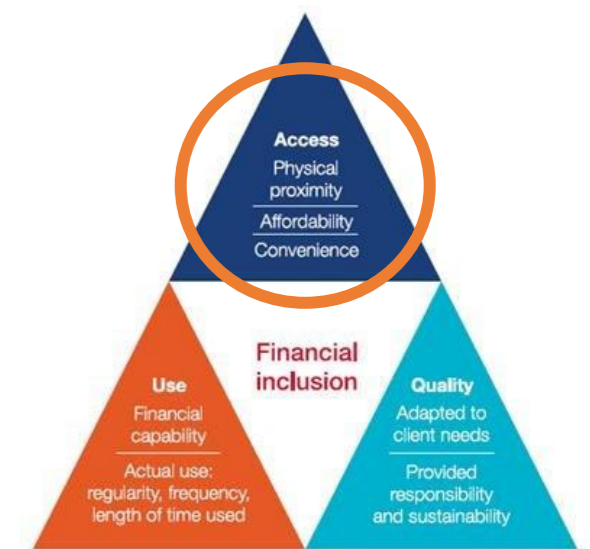


- In 2019, only **47%** of the population aged 3 and above owned a mobile phone (feature or smartphone)
- There appears to be a broadly equitable distribution of mobile phone ownership between genders
- **In 20 of 47 counties female ownership of mobile phones was at parity or above male ownership**
- In only 7 counties did female mobile phone ownership fall below 90% of male ownership

NUMBER OF FEMALE MOBILE PHONE OWNERS FOR EVERY MALE MOBILE PHONE OWNER

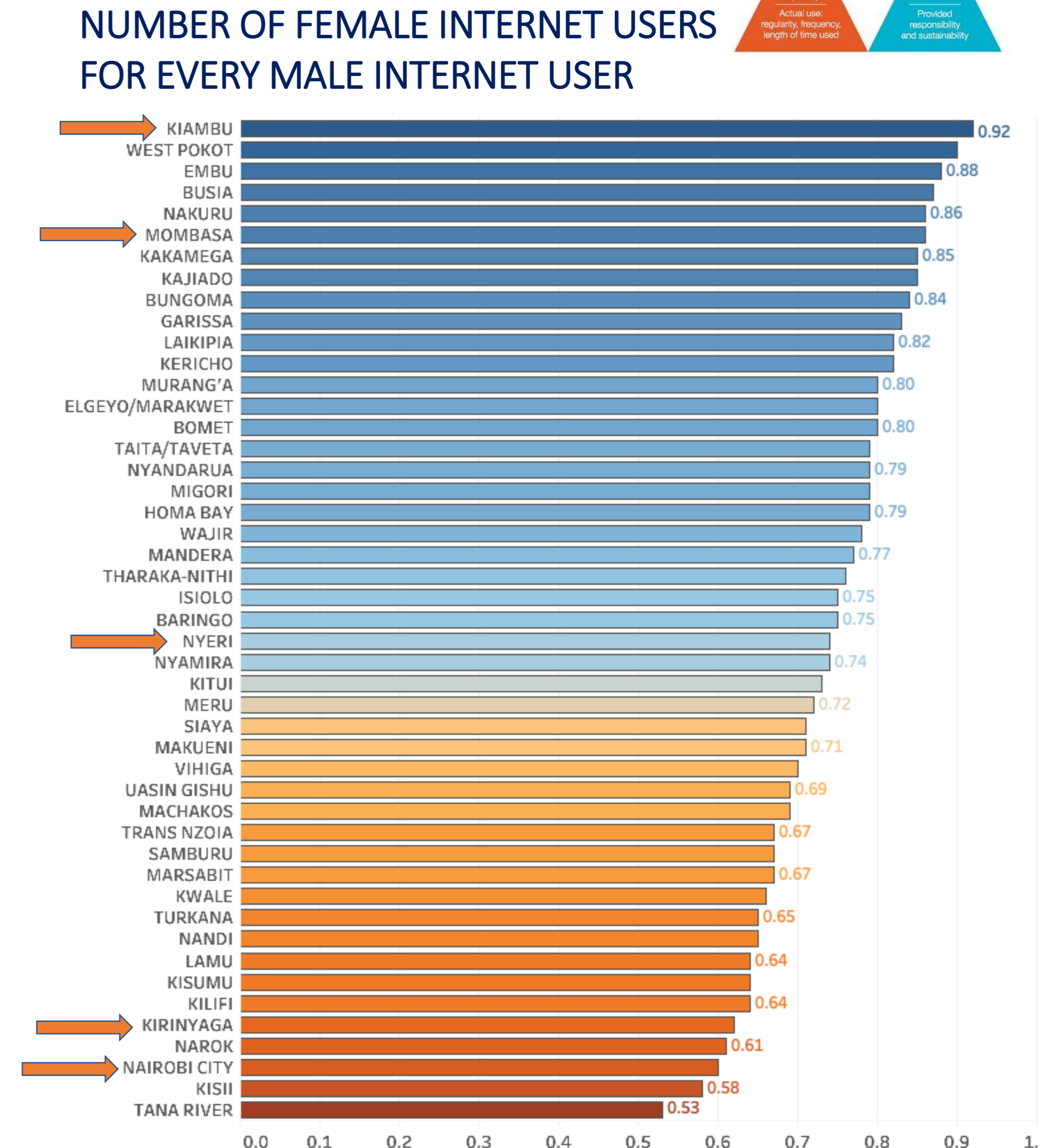


# Digital Divide – Internet Access



- Only **23%** of the population aged 3 and above have **used the internet**
- Internet usage is highly gendered and varies widely between counties
- 5 counties with the lowest incidence of multidimensional poverty have vastly different levels of inequality with Nairobi being the 3 most unequal nationally and Kiambu being the most equal.
  - **Nairobi** – female usage **60%** of male usage
  - **Kiambu** – female usage **92%** of male usage

Kenya National Bureau of Statistics: Population and Housing Census 2019



Young, urban men

Self-employed or  
wage-employment

Digital borrowers use  
more financial  
services than the  
average Kenyan adult



Digital loans are not widely used by  
**the most vulnerable groups**  
characterised by irregular cash  
flows



# Deepening

# Not broadening



# Over indebtedness

- Algorithms determine creditworthiness based on **willingness to pay rather than ability to pay**
- Algorithms predict repayment likelihood not debt stress
- Many digital loan providers do not access CRB credit histories for applicants making them blind to loan stacking
- This allows, if not promotes, over indebtedness
- In 2018, **20% of recipients of digital loans reported reducing food consumption to repay their loans.** This figure likely increased markedly economic fallout from the COVID-19 pandemic



# Algorithmic Credit Scoring and Bias



**Taste Based /Personal  
Bias**

**Statistical/Systemic  
Bias**

“Gender  
blindness” can  
be a cause of  
unintentional  
exclusion



AppleCard - husbands  
received 10 to 20 times the  
credit limit of their wives

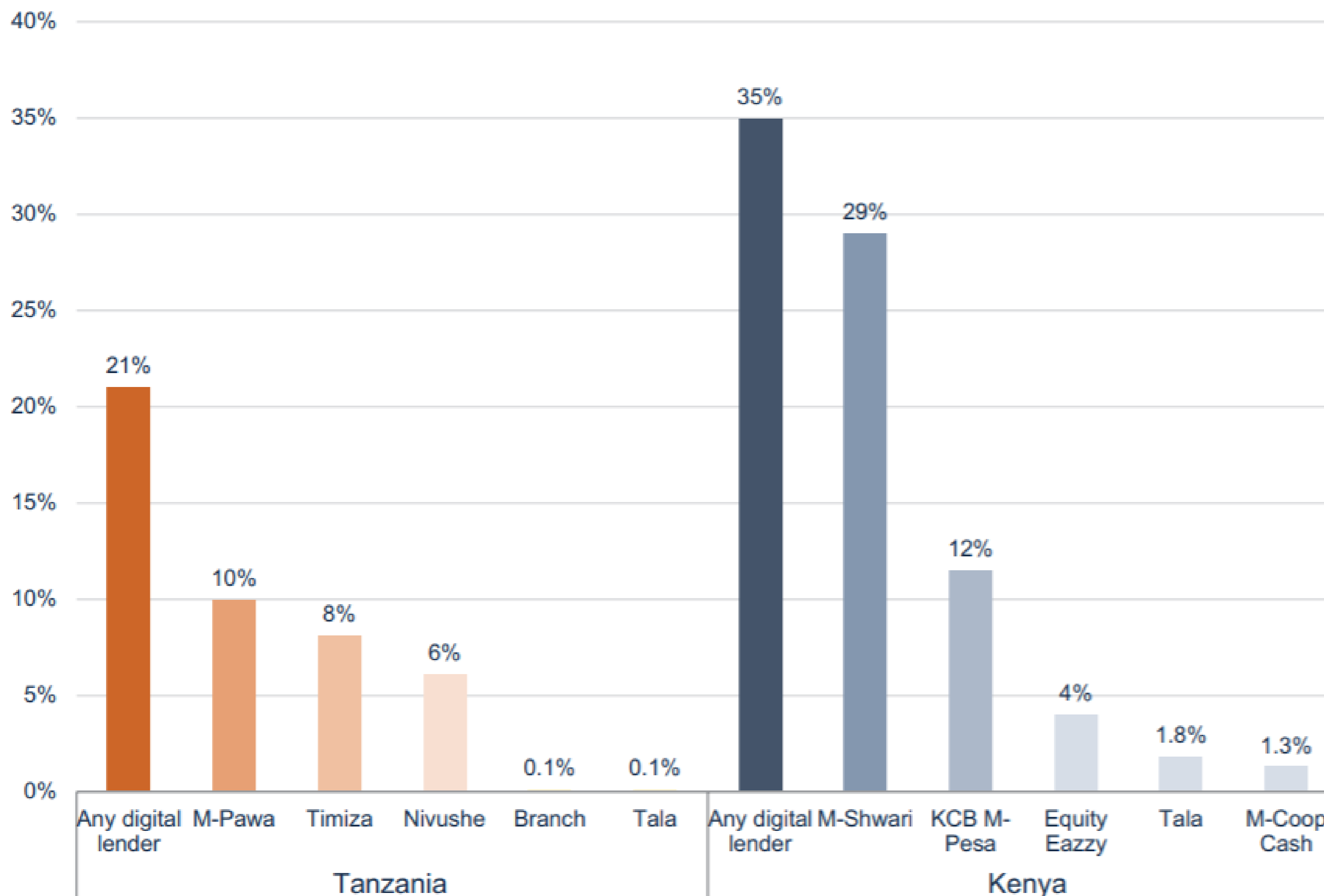
Investigation took  
over 1 year

# Transparency

In 2018, **19% of digital loan users reported experiencing at least one form of poor transparency** e.g. unexpected fees or not understanding the costs or terms of the loan

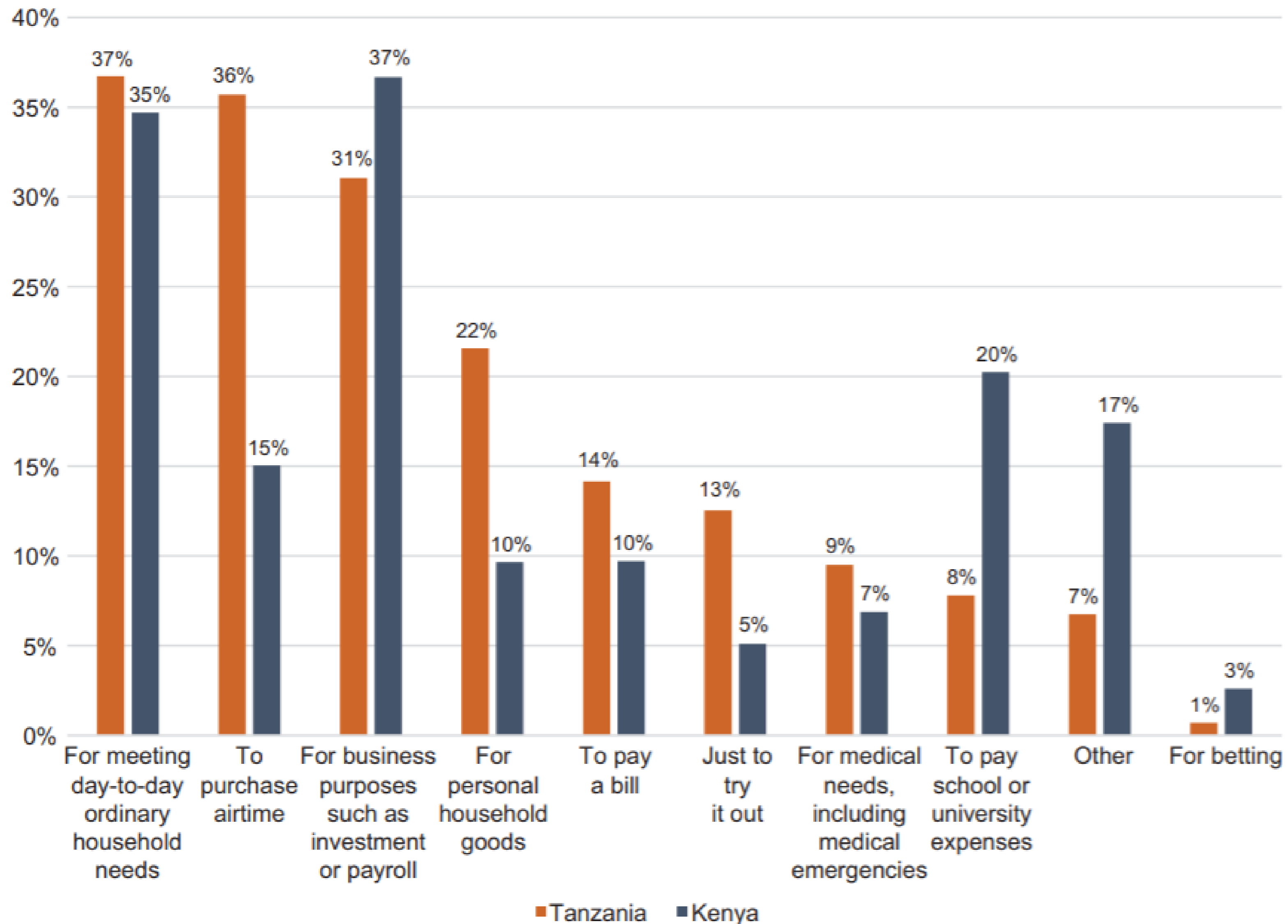
# Digital credit in Kenya & Tanzania (2018)

**FIGURE 1. Share of mobile phone owners who have borrowed from each lender (top five in each country)**



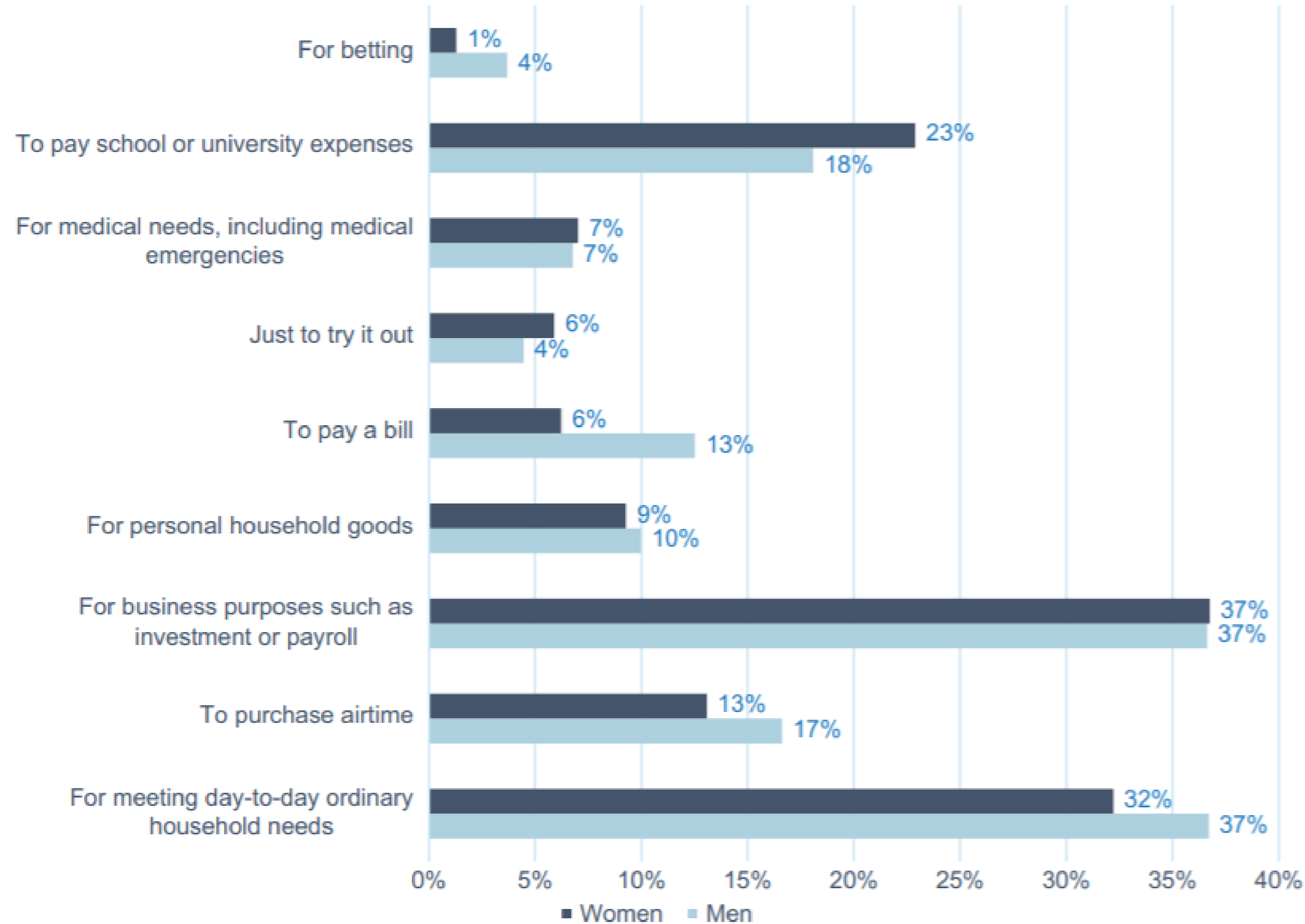
# Digital credit in Kenya & Tanzania (2018)

**FIGURE 5. Uses of digital credit**

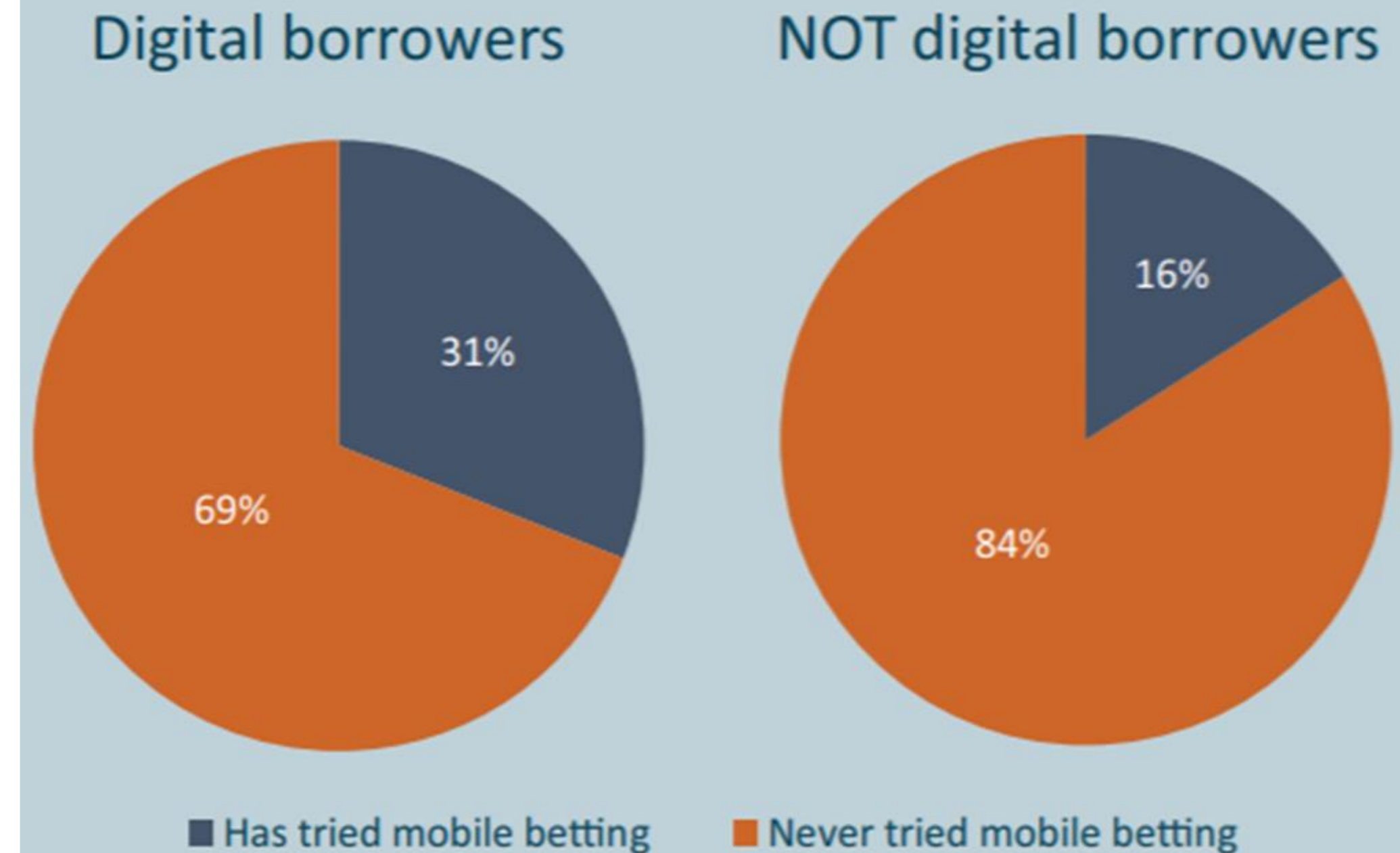


# Digital credit in Kenya & Tanzania (2018)

**FIGURE 9. Uses of digital credit, by gender, Kenya**

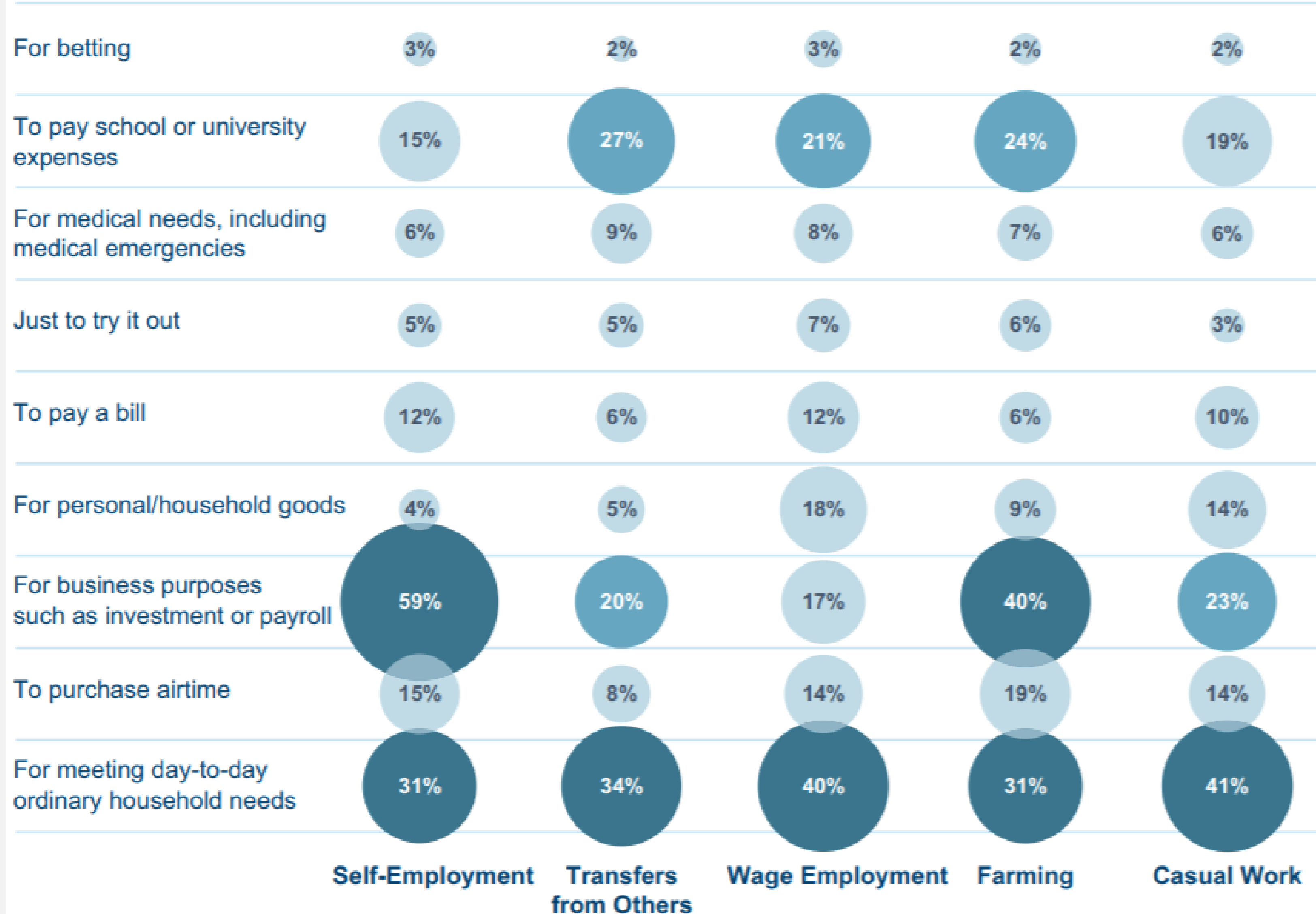


**FIGURE B2-1. Use of mobile betting by users and nonusers of digital credit**



# Digital credit in Kenya & Tanzania (2018)

**FIGURE 6. Uses of digital credit, by primary income source, Kenya**



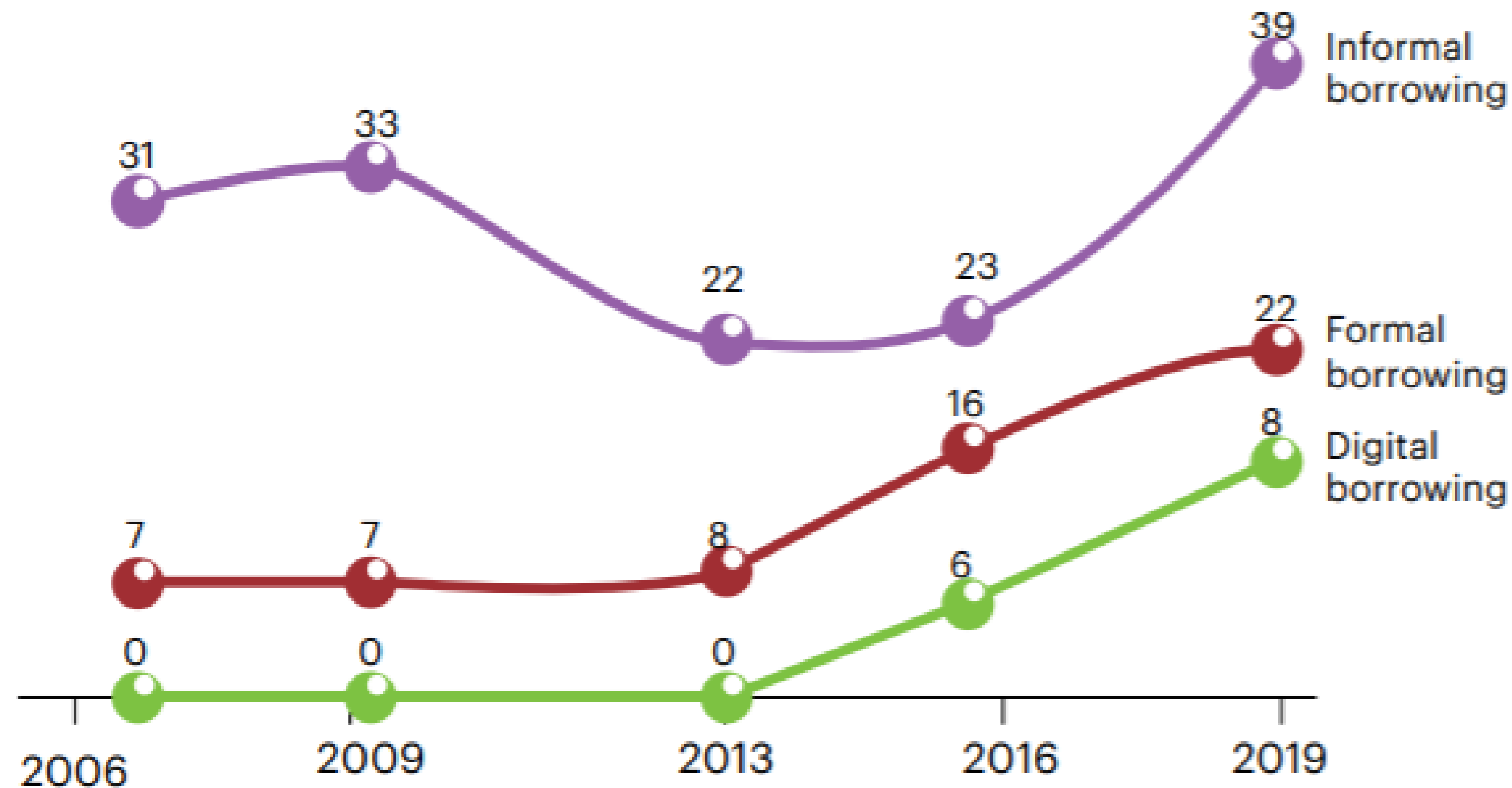
# Digital credit audit report

Evaluating the conduct  
and practice of digital  
lending in Kenya

September 2019

# Digital credit audit (2019)

**Figure 1: Percentage of adults (18+) borrowing from formal, informal and digital sources**



**“ Digital loans are mainly used for everyday consumption and are the most used source of credit for emergencies due to their ease of access**  
– FinAccess 2019

# Digital credit audit (2019)

LOAN
SAVE
FRIENDS
YOU

**Save Now, Borrow Tomorrow!**

Save for at least 1 week and get a loan of between 1 times and 3 times the amount you save. e.g. save Ksh 500 to borrow upto Ksh 1500

Your savings will also grow at a rate of 1% per month.

If you start today, we will deposit Ksh 250.0 to get started you started. Press the Learn More button below to hear more

☐ I agree to [Terms & Conditions](#)

LEARN MORE
OPEN ACCOUNT

**Table 1: Registration fees vs loan disbursed**

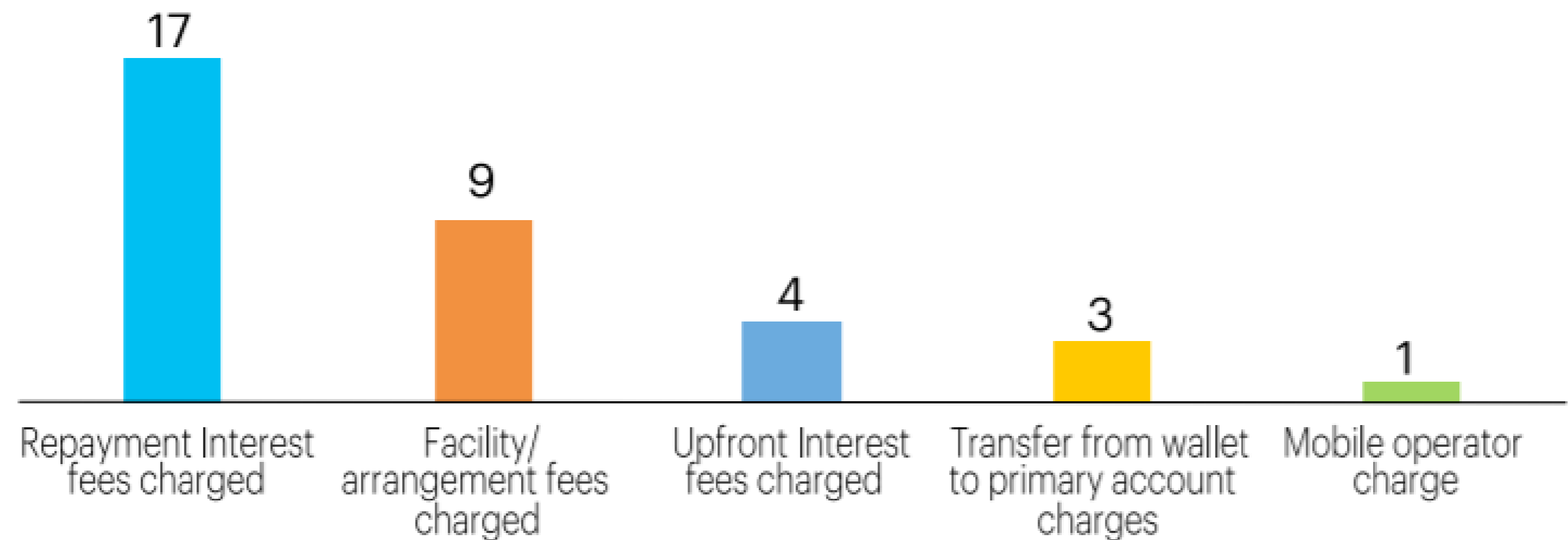
Lender	Fee (KShs)	Purpose	Loan amount (KShs)
Utunzi	<b>200</b>	Registration and CRB check	<b>700</b>
Kano	<b>350</b>	Membership	<b>700</b>
Dolax	<b>250</b>	Registration	<b>150</b>
Craft	<b>250</b>	Registration	<b>300</b>
Upazi	<b>250</b>	Registration	<b>150</b>
Usawa	<b>400</b>	Registration	<b>700</b>

# Digital credit audit (2019)

**2016 vs 2019 APR for select products**

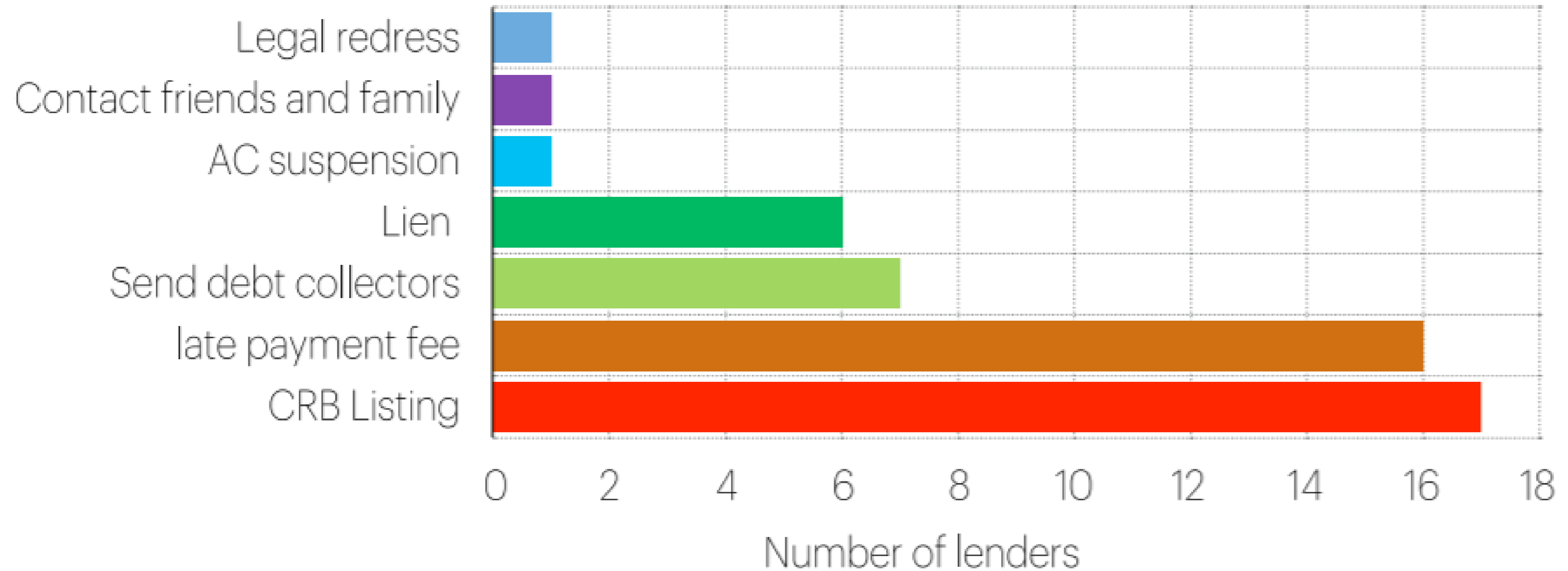
Lender	2016 APR <sup>24</sup>	2019 APR
Branch	12% - 170%	<b>182%</b>
Eazzy loan	27%	<b>110%</b>
Kopa Cash	183%	<b>442%</b>
KCB M Pesa	49% - 73%	<b>49%</b>
M-Shwari	91%	<b>91%</b>
Get Saida	+ 91%	<b>286%</b>
Tala	61%-243%	<b>180%</b>

**Figure 5: Types of fees charged**



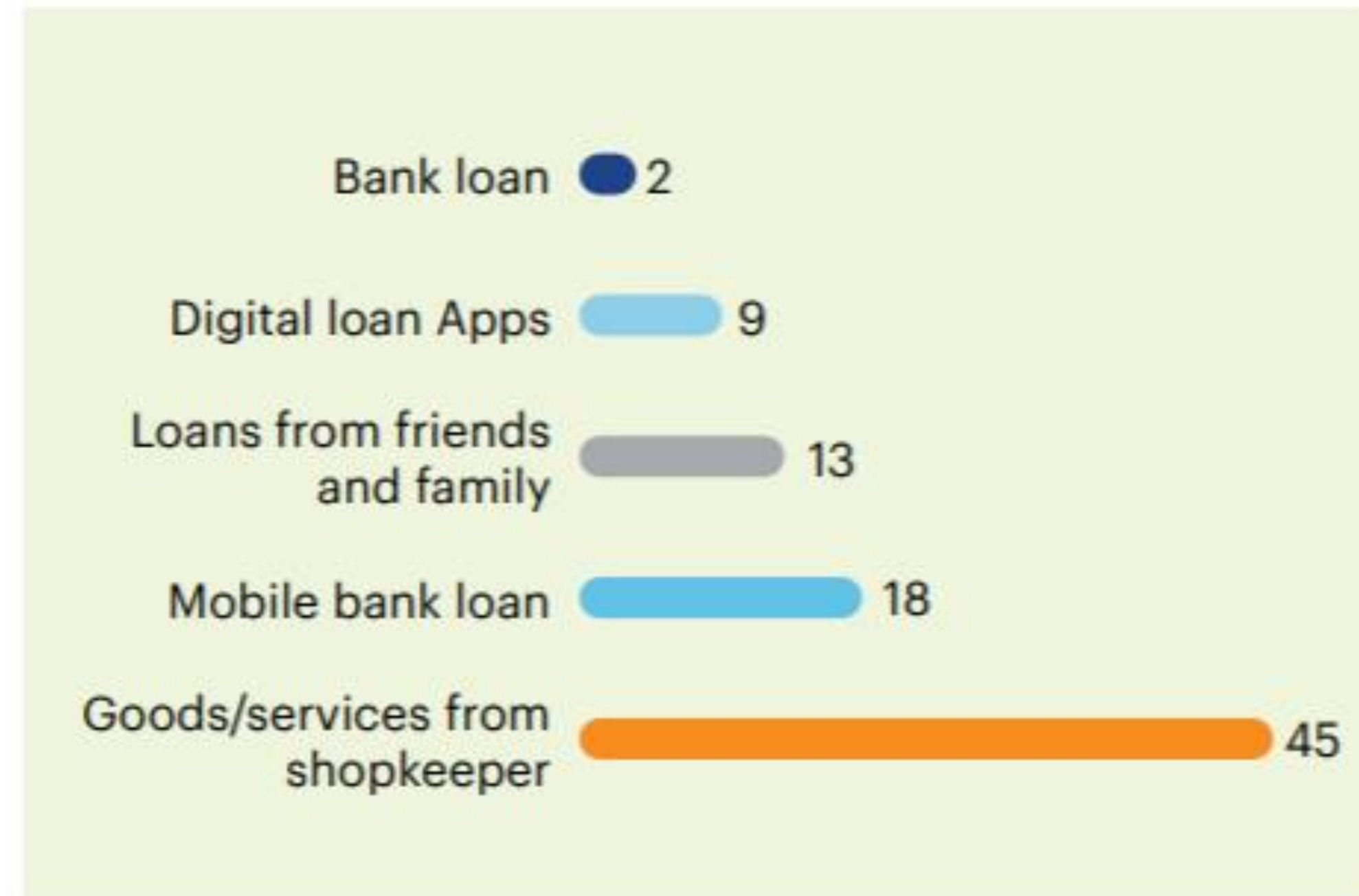
# Digital credit audit (2019)

**Figure 7: Implications for late repayments**



# Digital credit audit (2019)

**Figure 2: Loan defaulters from key credit types (%)**



**Figure 3 : Levels of debt stress (%)**



Source: 2019 FinAccess data.



# Digital Credit Market Inquiry

## Stakeholder Validation Workshop

**Competition Authority of Kenya &  
Innovations for Poverty Action**

May 11, 2021



# Digital credit market inquiry of the Competition Authority of Kenya

*“To identify and address potential consumer protection concerns in the regulated and unregulated digital credit markets.”*

Government of Kenya Gazettement  
Vol. CXXII  
February 21, 2020

## Market Inquiry Objectives

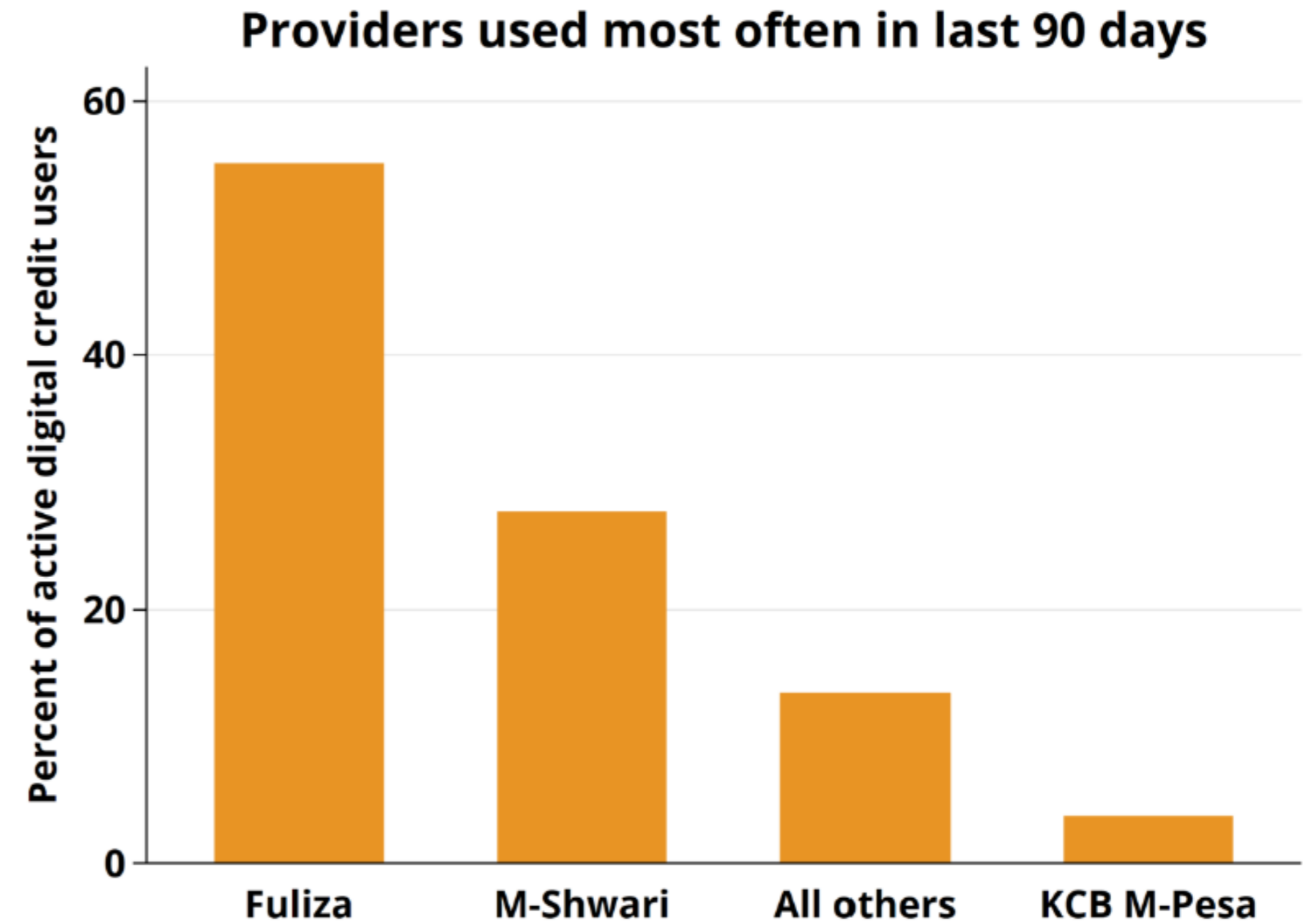
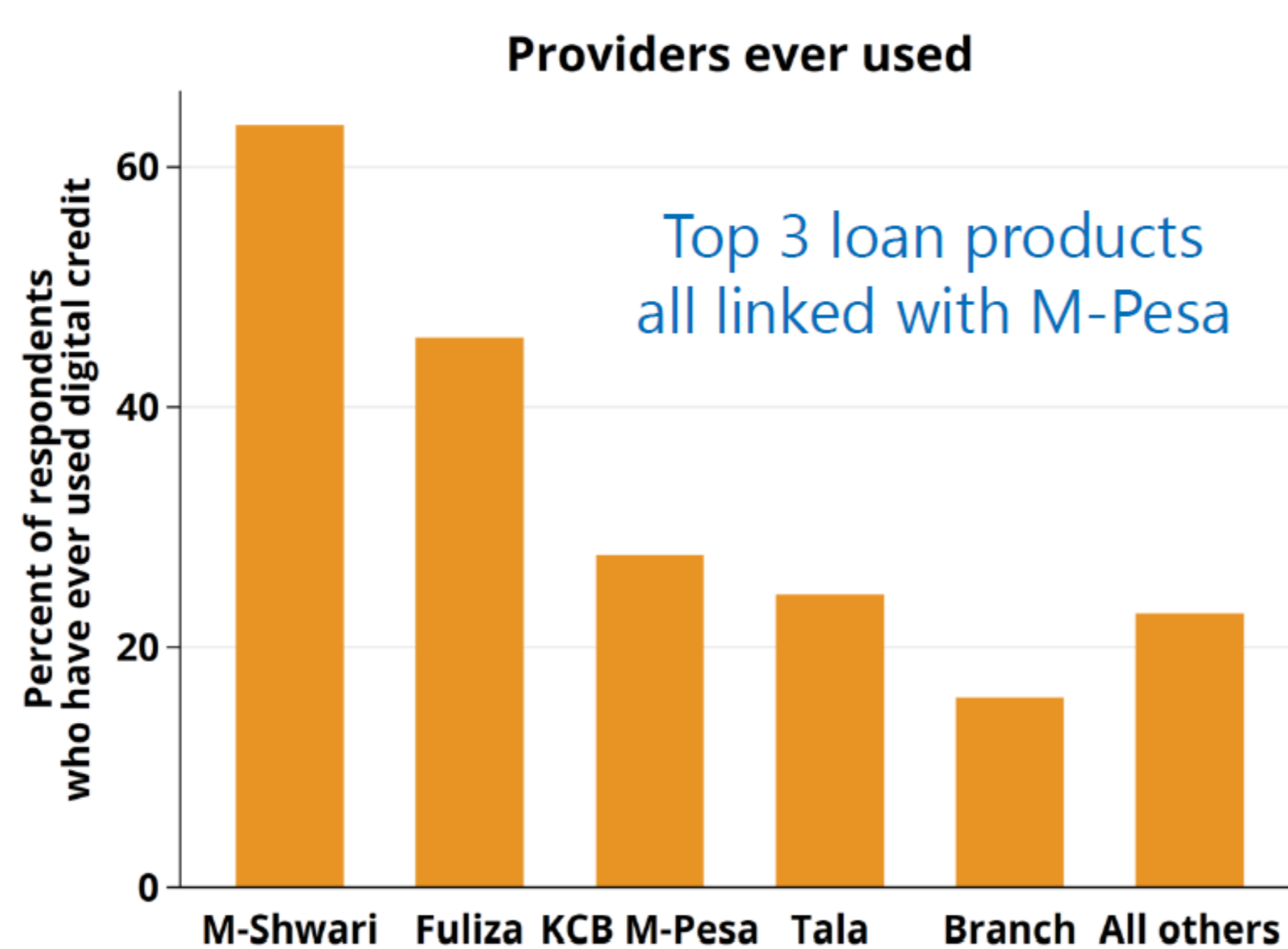
1. Provide evidence regarding size and nature of DFS and digital credit markets
2. Identify potential consumer protection risks within Kenya's digital credit sector
3. Increase transparency and comprehensiveness of product information and terms and conditions
4. Address probable fraud in DFS
5. Improve consumer redress for digital credit
6. Increase consumer control over personal information to expand choice and competition
7. Inform development of policies to ensure adequate consumer protection across regulated and unregulated lenders and equal protection of all Kenya consumers



# Digital Credit Market Inquiry

Consumer protection survey data

## Mobile loan use is concentrated in a few lenders

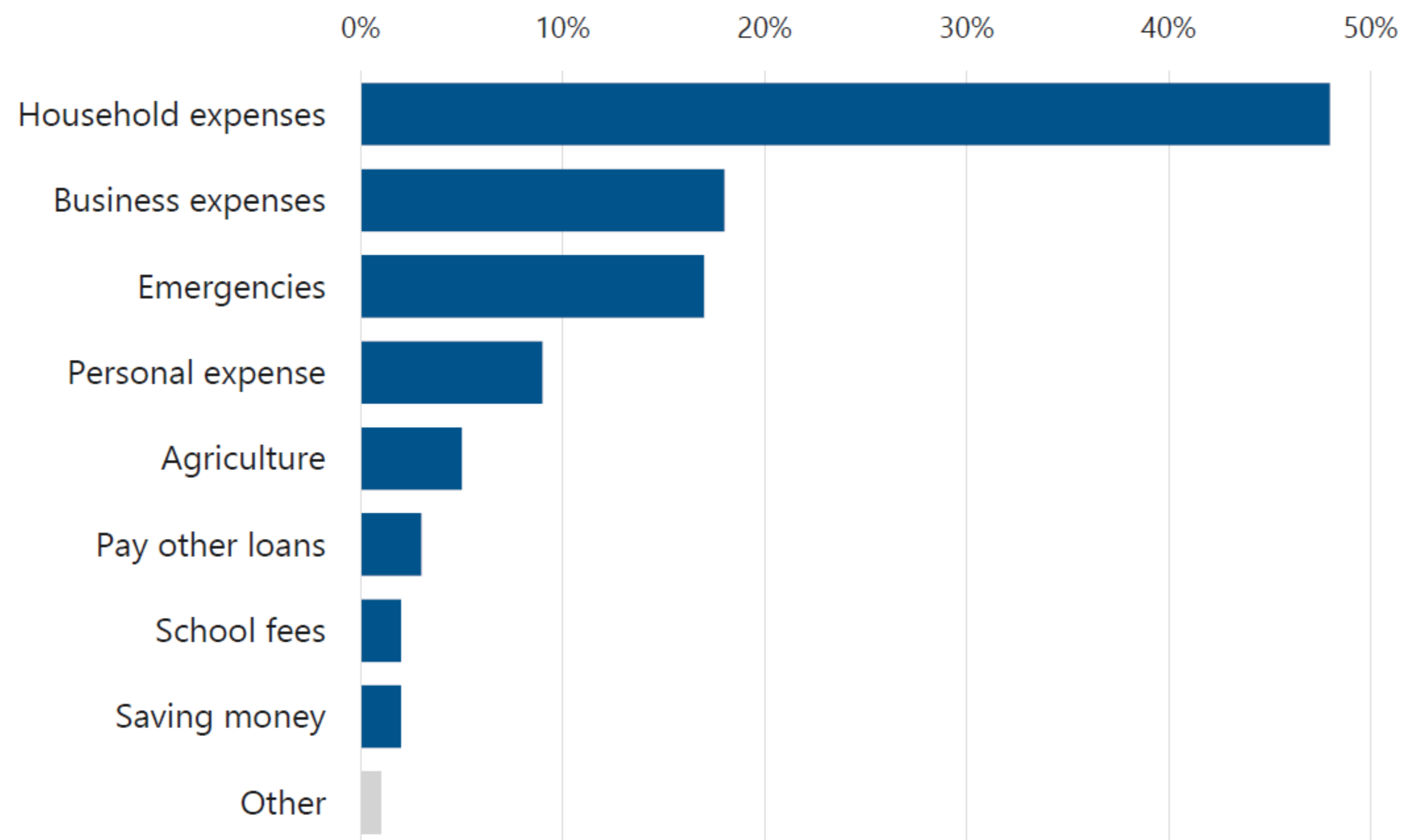


793 DFS users were surveyed from September 14 – October 18, 2020, via random digit dial method

# Digital Credit Market Inquiry

Consumer protection survey data

## Mobile loan uses



**57%**  
Percentage of respondents who use mobile loans for household or personal expenses

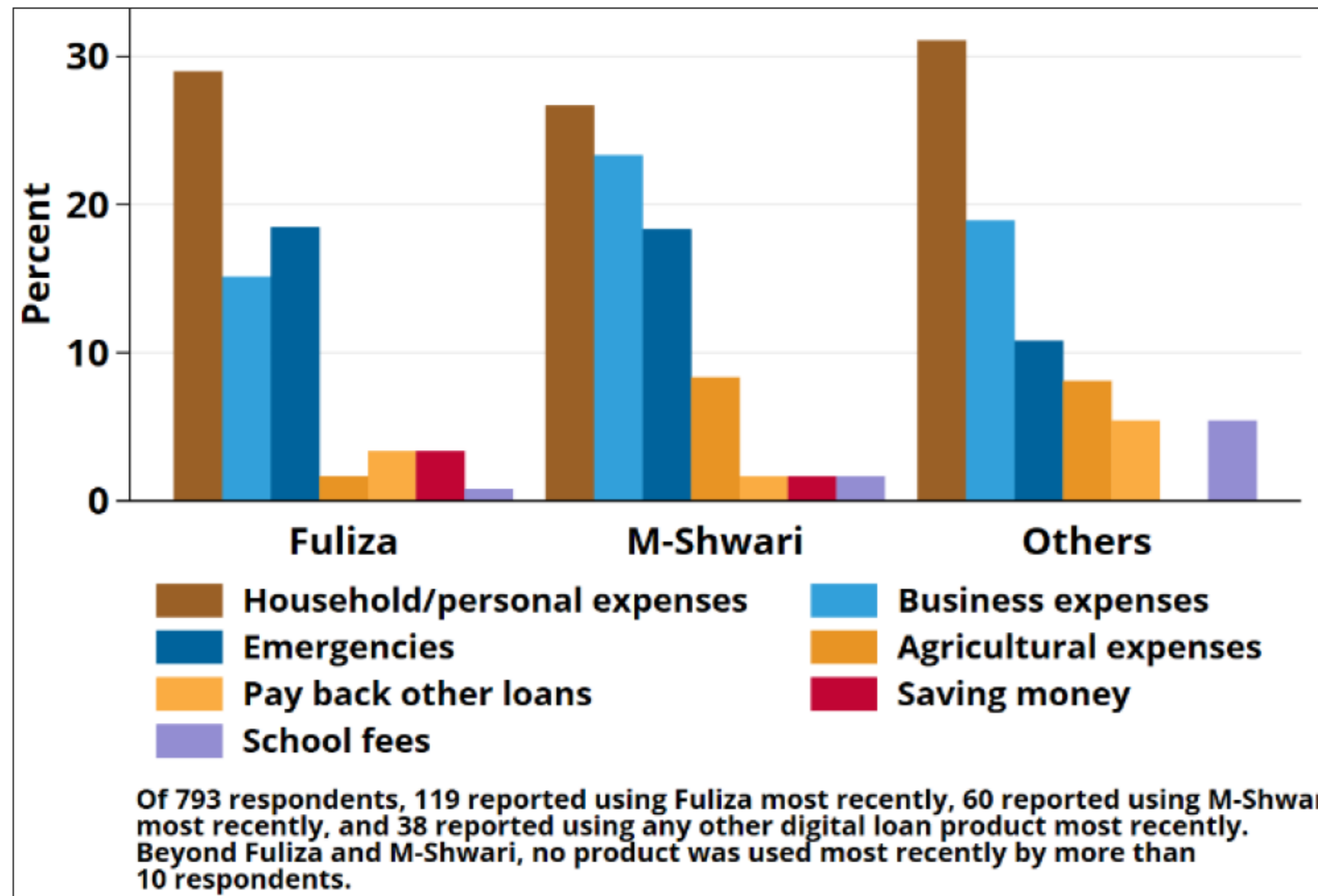
**23%**  
use mobile loans for business or agriculture expenses

**17%**  
use mobile loans for emergencies

# Digital Credit Market Inquiry

## Consumer protection survey data

### Mobile loan uses are primarily consistent across providers



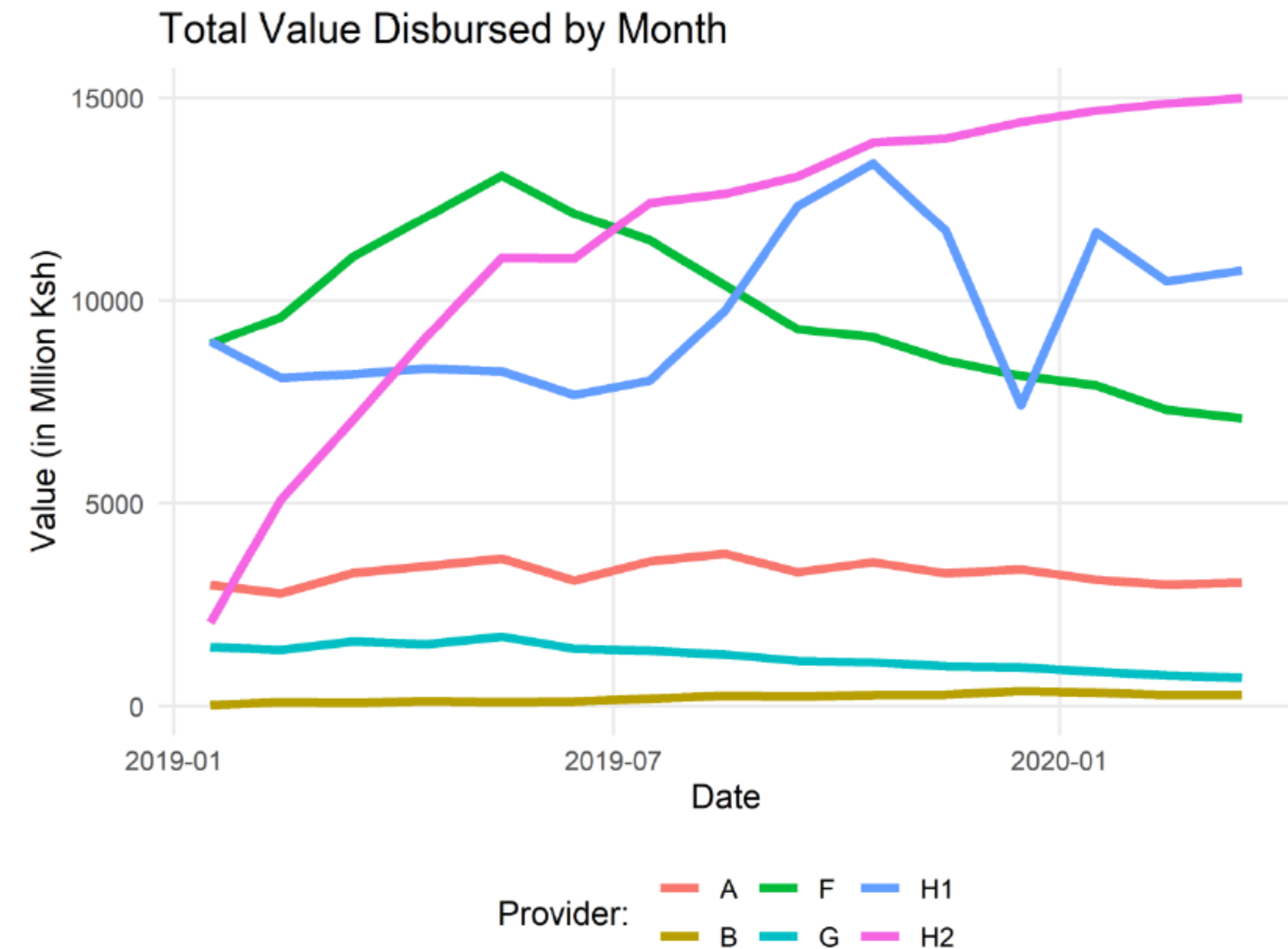
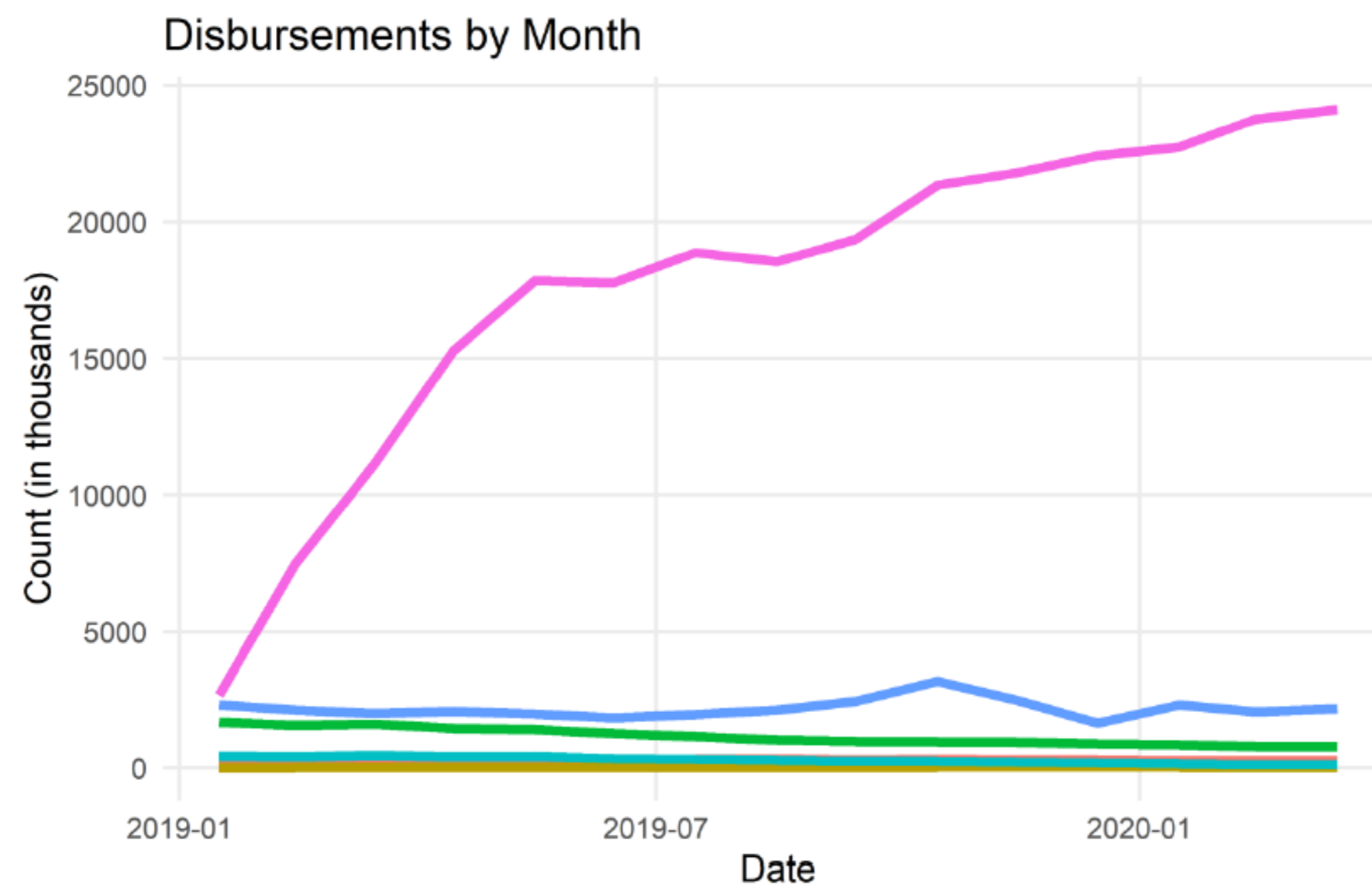
Main variation is higher relative use of Fuliza for emergencies.

# Digital Credit Market Inquiry

## Digital credit provider administrative data

Market dynamics shifted significantly in 2019 with a new overdraft product

Product H2 became the largest lender by value by Q3 2019

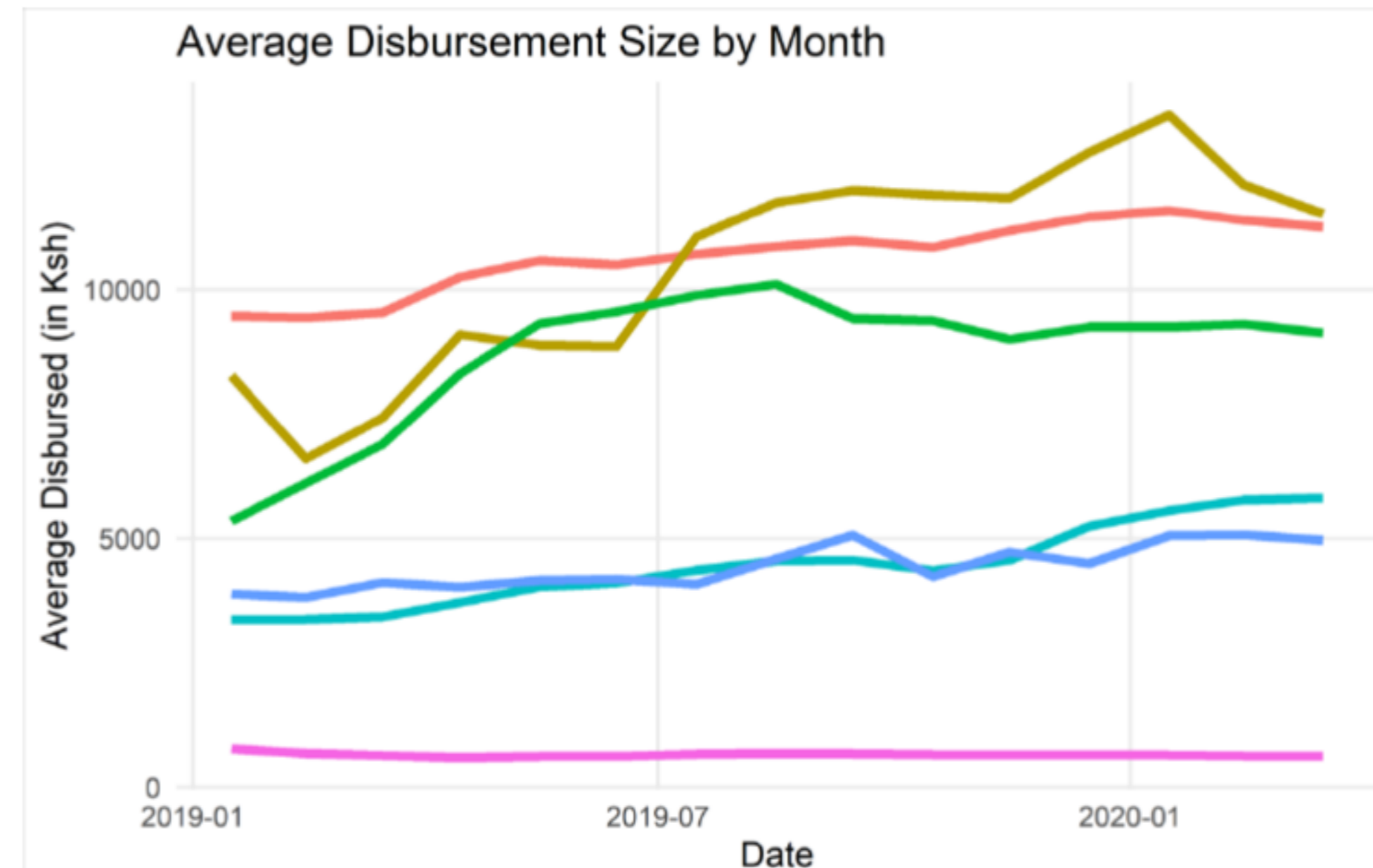
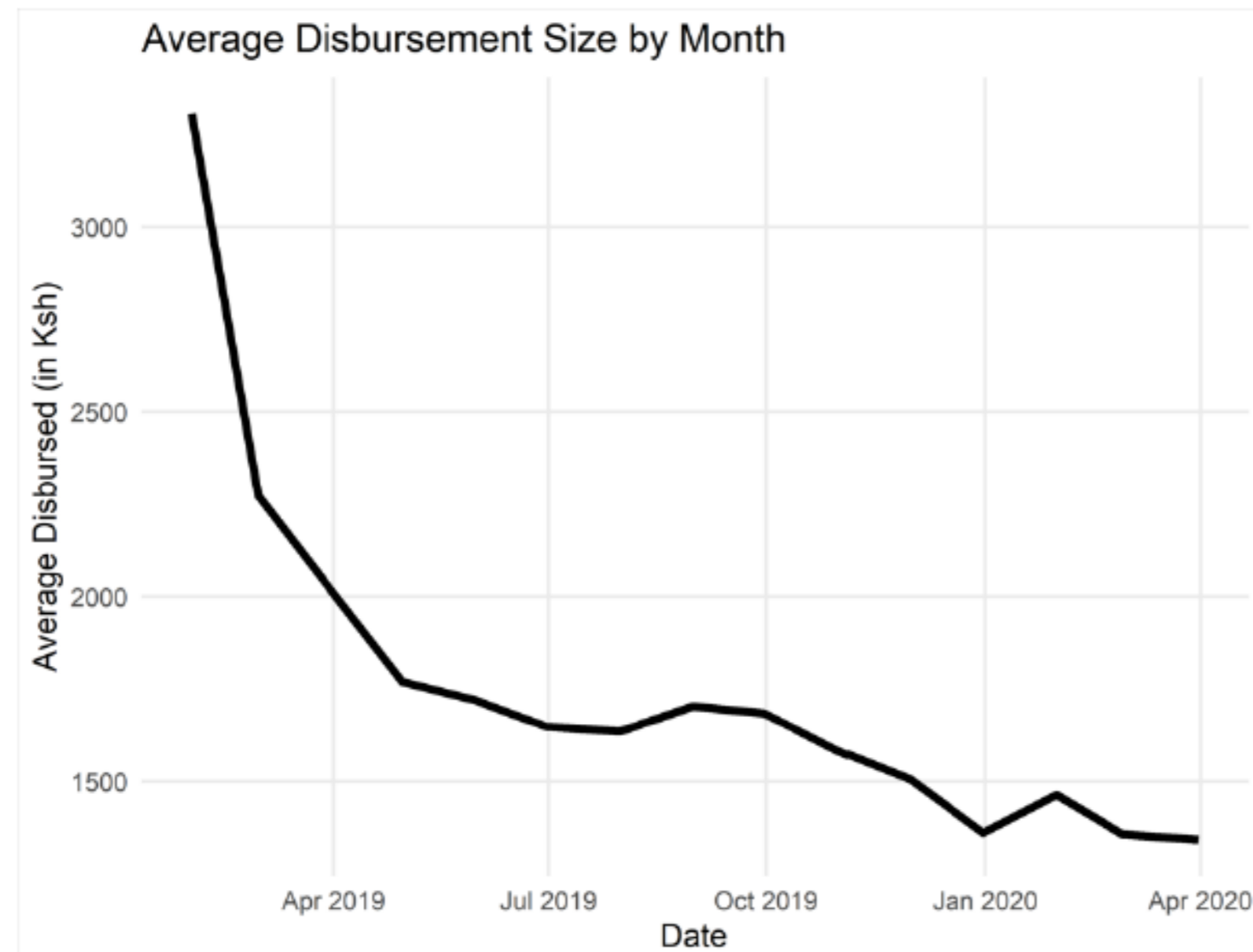


# Digital Credit Market Inquiry

## Digital credit provider administrative data

### Volumes and values shifted significantly in 2019

Most providers increased their average loan size, yet average loan size reduced overall—due to large volume of tiny loans disbursed by H2.



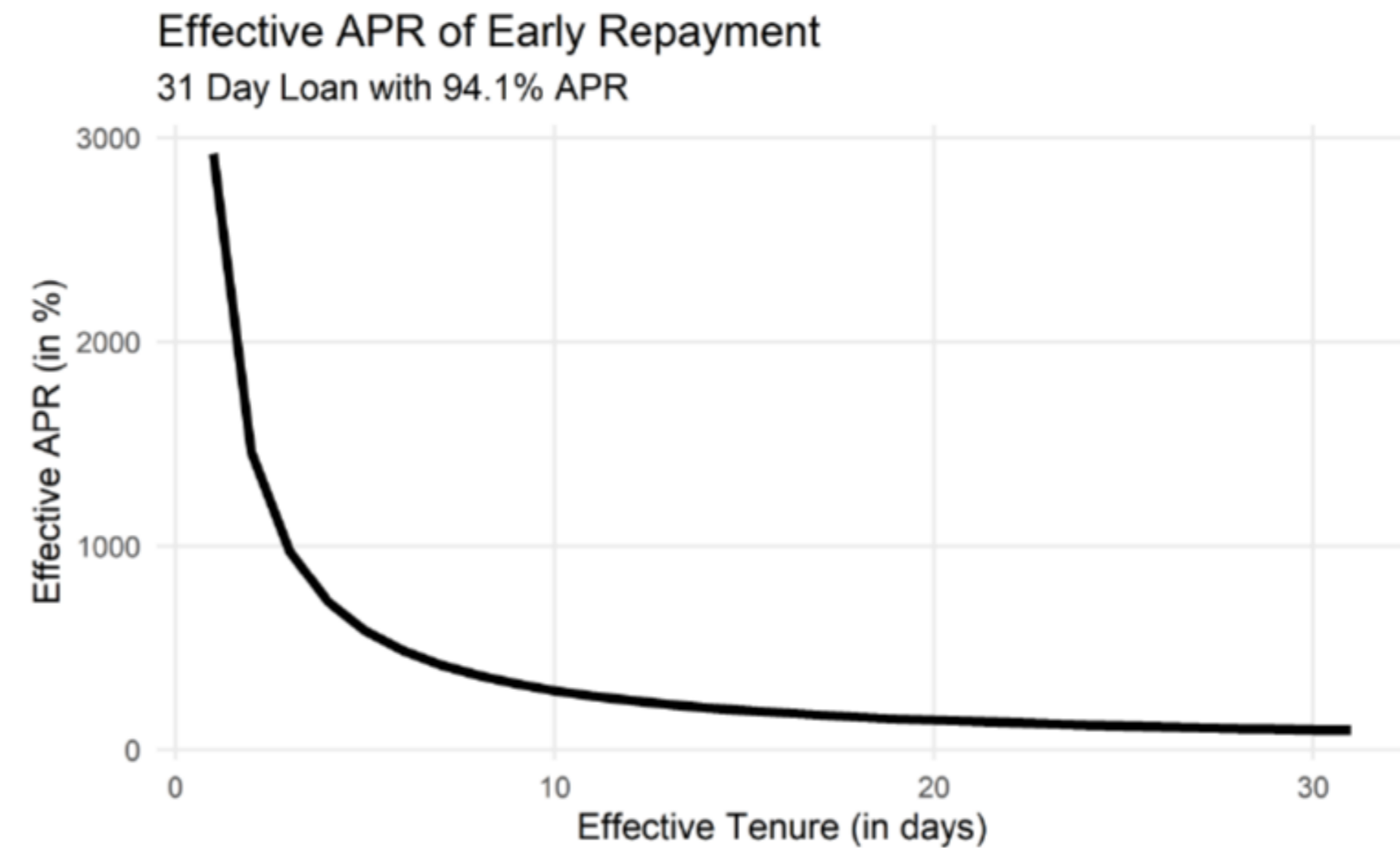
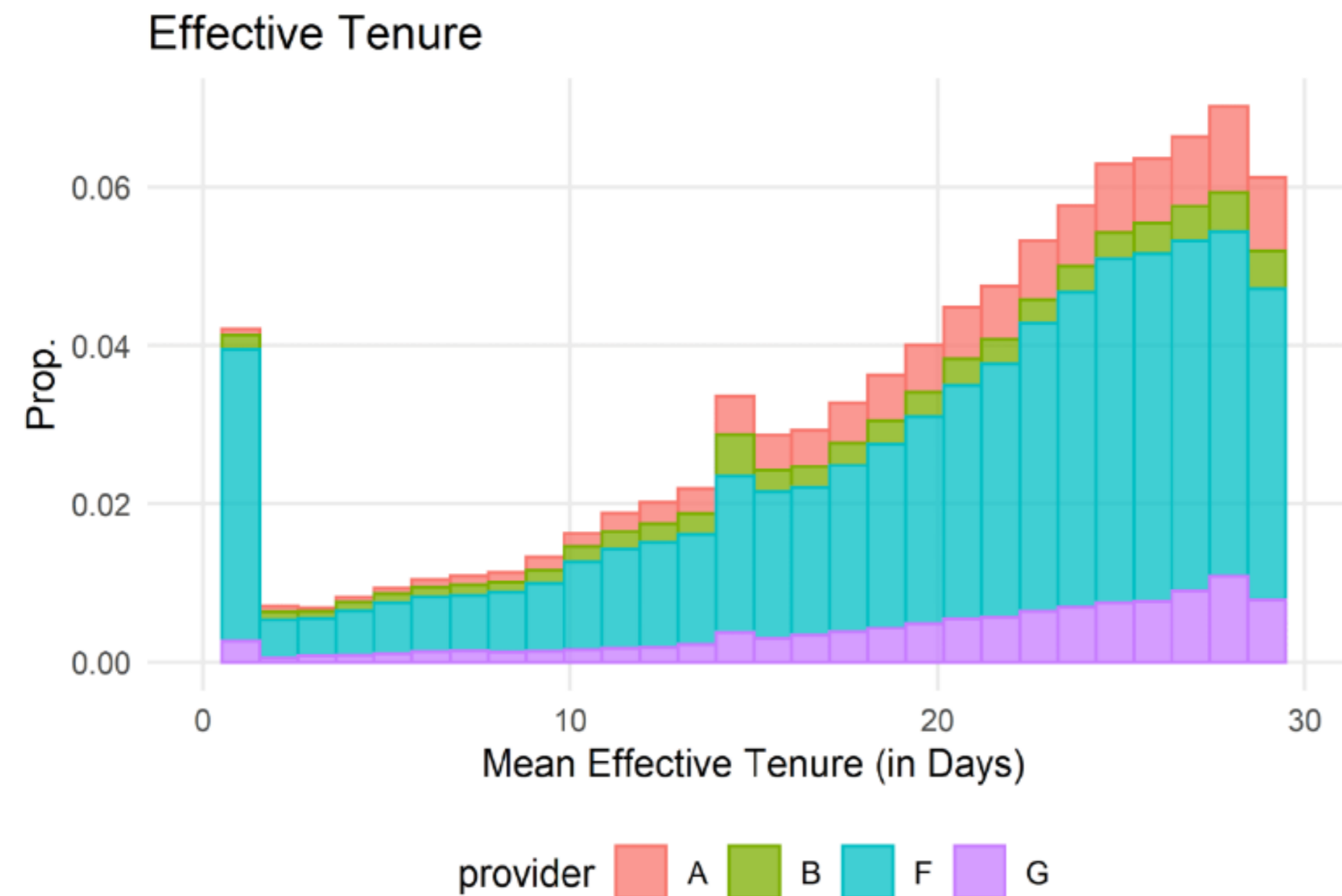
*Did providers offer larger loans to differentiate themselves or did "small" borrowers substitute into H2 from other sources?*

Provider: A F H1 B G H2

# Digital Credit Market Inquiry

## Digital credit provider administrative data

Many loans are repaid early—even in 1 day—raising the “effective APR”



# Digital Credit Market Inquiry

## Late repayment is very common in digital credit

### Survey data:

**77% of mobile loan users** reported having not been able to pay a loan on time at least once.

### Administrative data:

- Evidence of **habitual late repayment by some borrowers** and rolling over/extension of loans when they pass due date
- From one Provider: Borrowers ages 18-24 are most likely to be late and to default.

Gender	Proportion late	Proportion defaulted
Female	19.6%	6.5%
Male	20%	7.9%
No data	19%	7.1%
Age Group		
Age group	Proportion late	Proportion defaulted
18-24	27%	10.9%
25-44	19.6%	6.8%
45-64	16.6%	5.6%
65+	18.9%	7.2%
No data	19.2%	7.4%
<b>ALL</b>	<b>19.4%</b>	<b>7.2%</b>

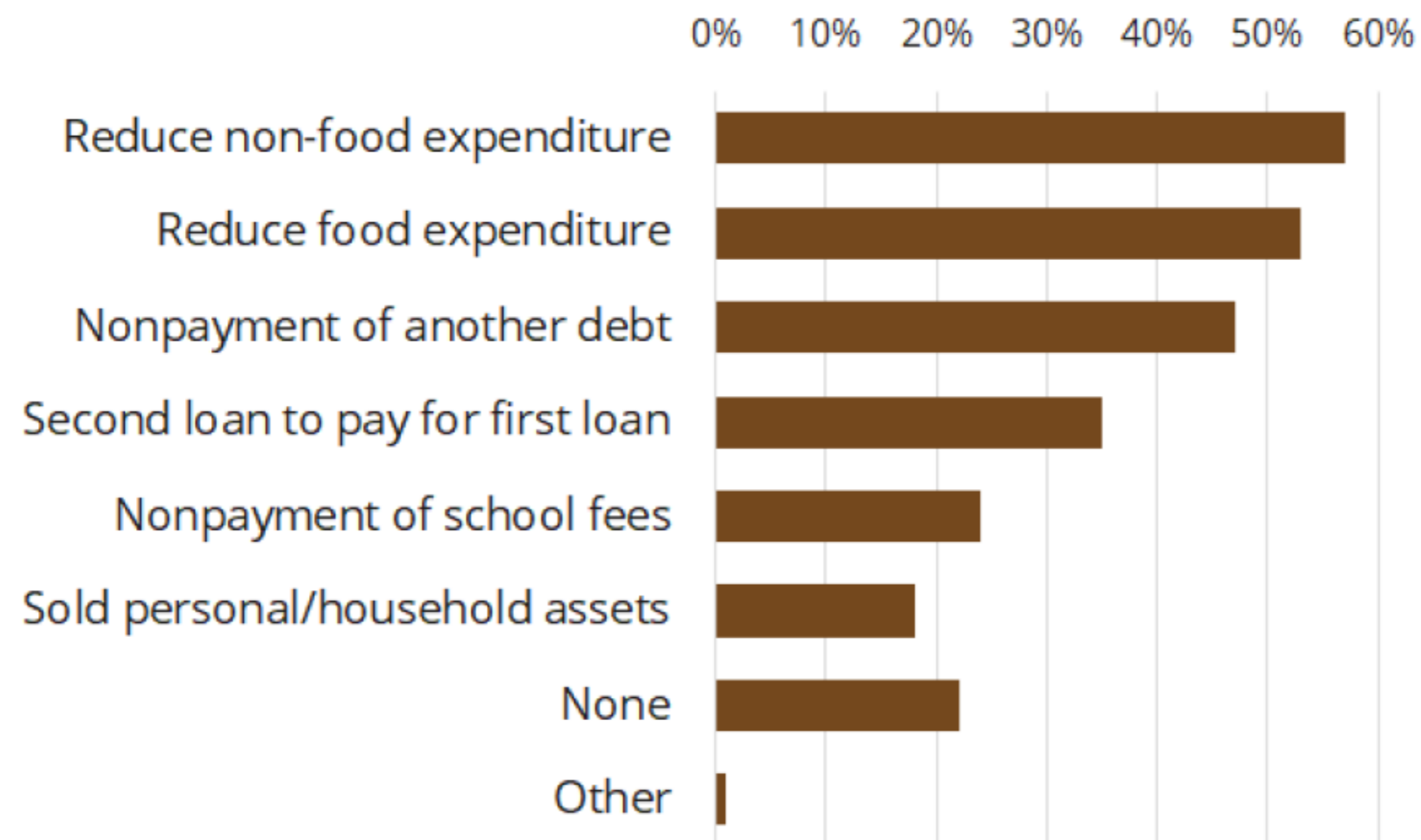


# Digital Credit Market Inquiry

## Consumer protection survey data

Reduced expenditures are the most common sacrifices made to repay mobile loans

**Percentage of mobile loan users who reported making sacrifices to repay mobile loan (n=430)**



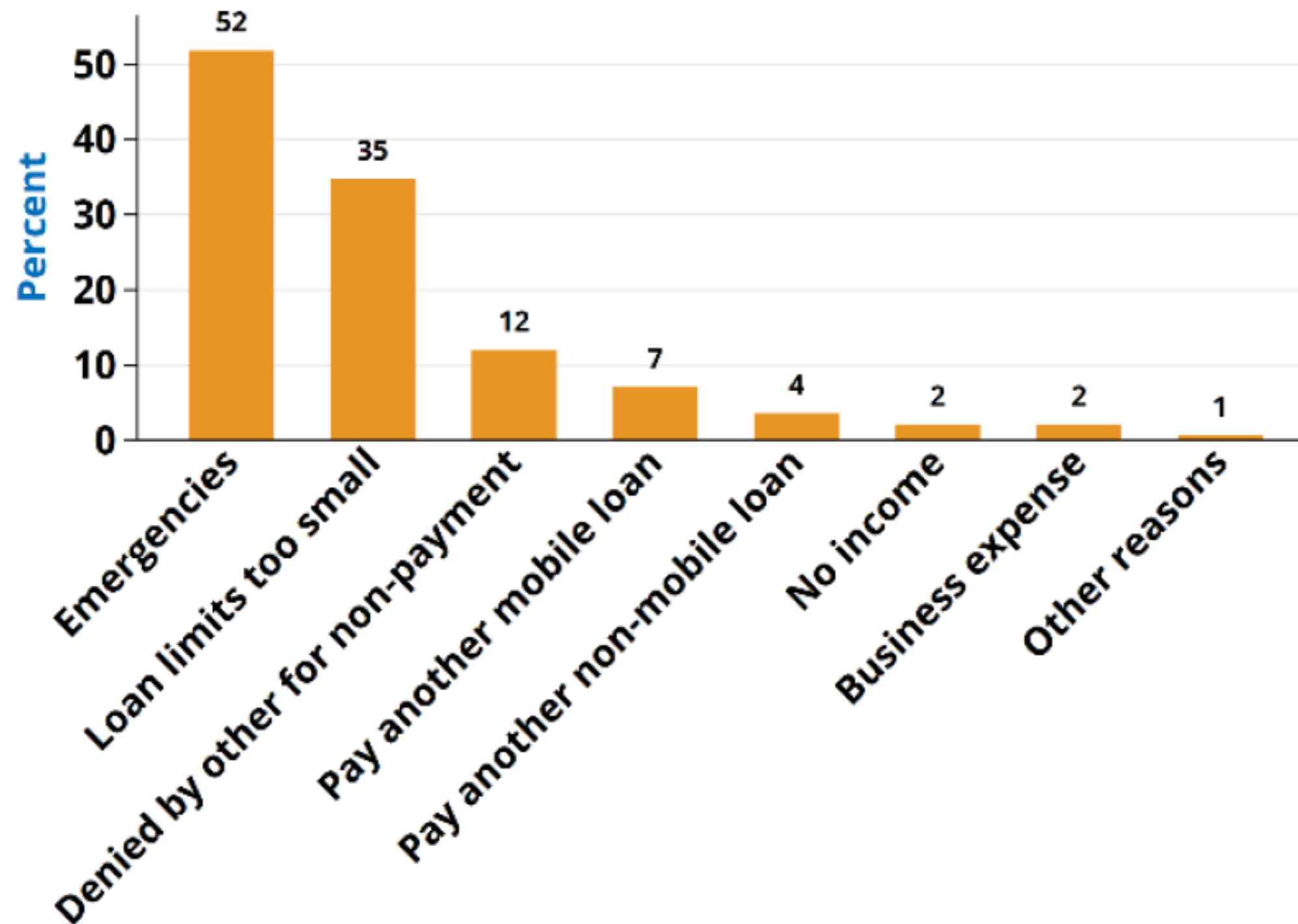
- This makes sense given many loans are taken for consumption purposes, according to survey respondents
- Some evidence mobile loan debts impact debt service of other loans

# Digital Credit Market Inquiry

## Consumer protection survey data

### Multiple borrowing is mainly due to emergencies

#### Reasons for taking multiple mobile loans at same time



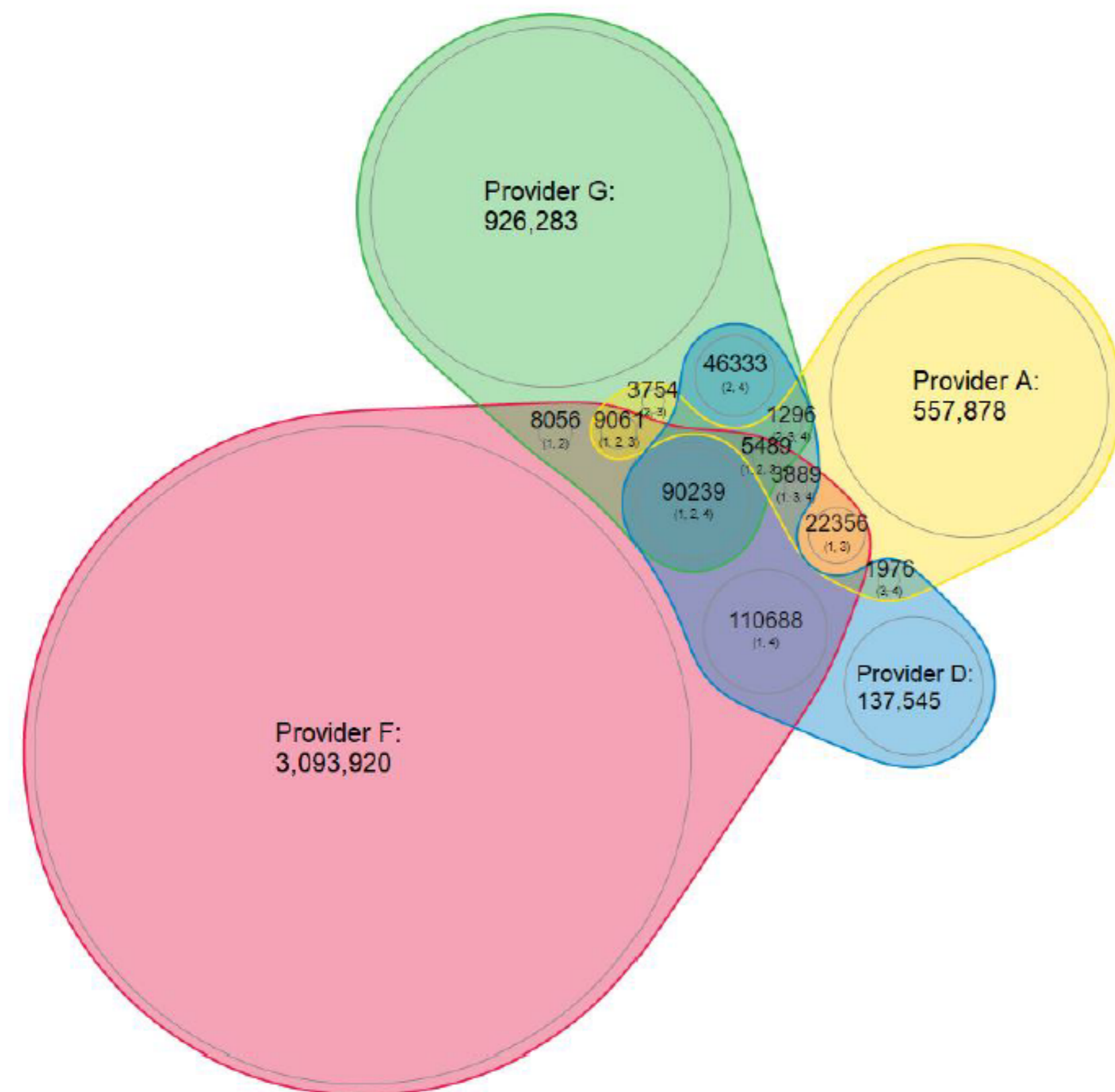
#### Increase in multiple borrowing during the pandemic

- 33% of mobile loan users reported they had multiple mobile loans active at the same time before March 16<sup>th</sup>, when much of Kenya shut down due to the pandemic.
- These borrowers were then asked if they had multiple active loans at any point after March 16<sup>th</sup>, and 44% of these borrowers reported also having multiple active loans at some point before the pandemic.

# Digital Credit Market Inquiry

## Digital credit provider administrative data

### Multiple account holding



Sufficient information to match some borrowers at four providers in data submissions

6% of borrowers have multiple accounts

- Not the full extent of multiple account holding
- More prevalent among men than women
- More common among those 25-64 years old than among younger than 25 or older than 65

Wide variation in overlap across providers as shown in the Venn diagram

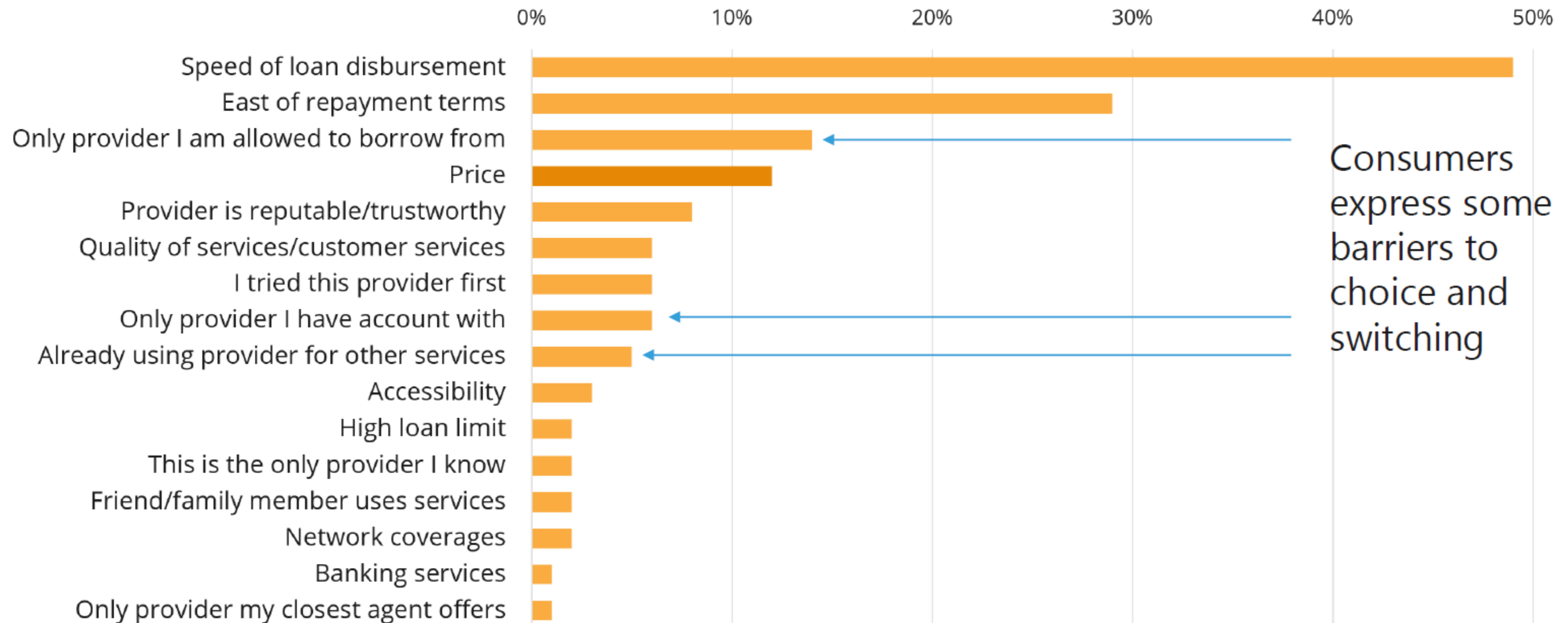
Need for more complete industry data to fully map out this issue as it has important implications for information-sharing systems

# Digital Credit Market Inquiry

## Consumer protection survey data

### Price is not a top three factor in choice of provider

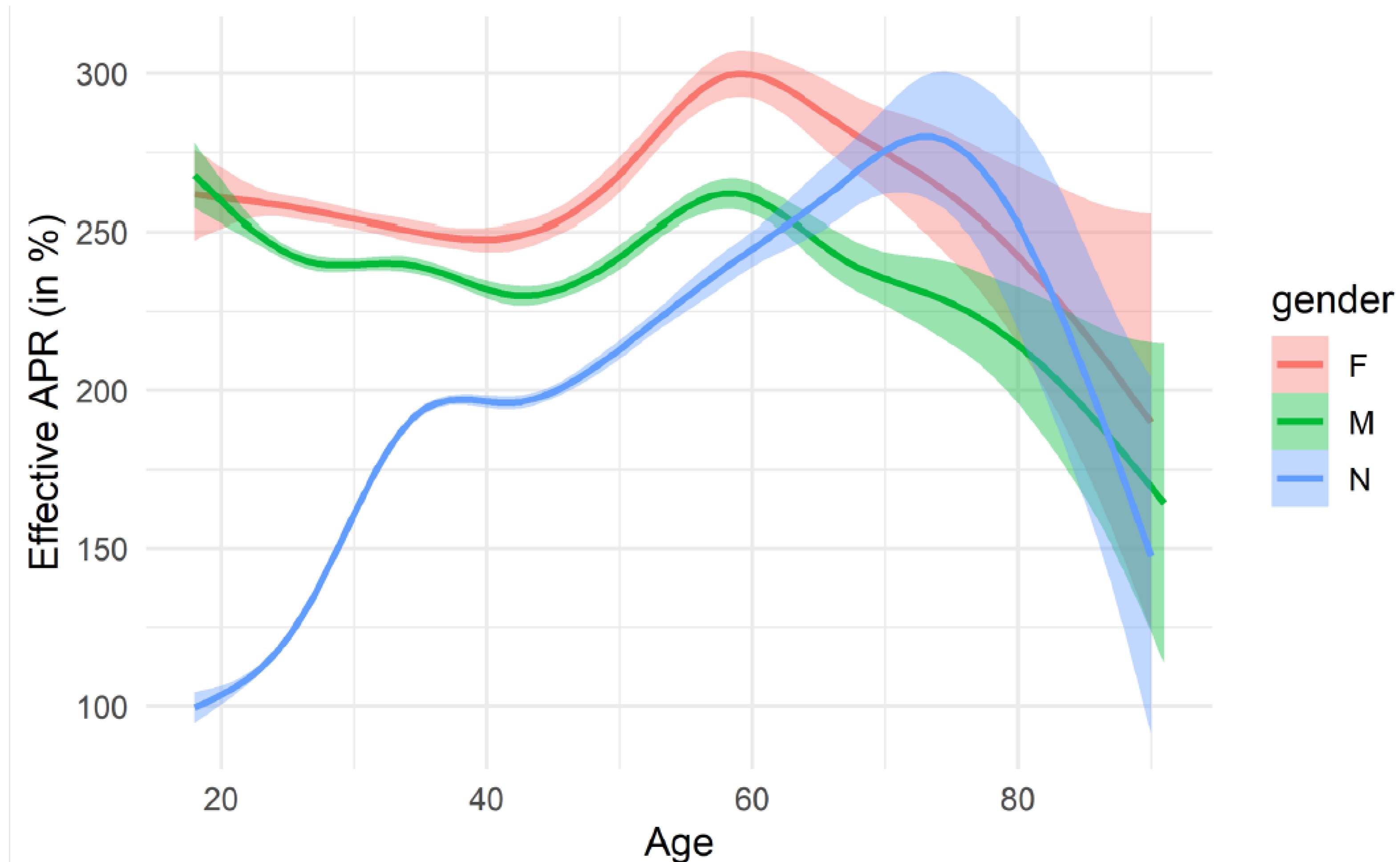
Reasons for choosing mobile loan provider (n=217)



# Digital Credit Market Inquiry

*Digital credit provider administrative data*

## Effective APR varies by age and gender

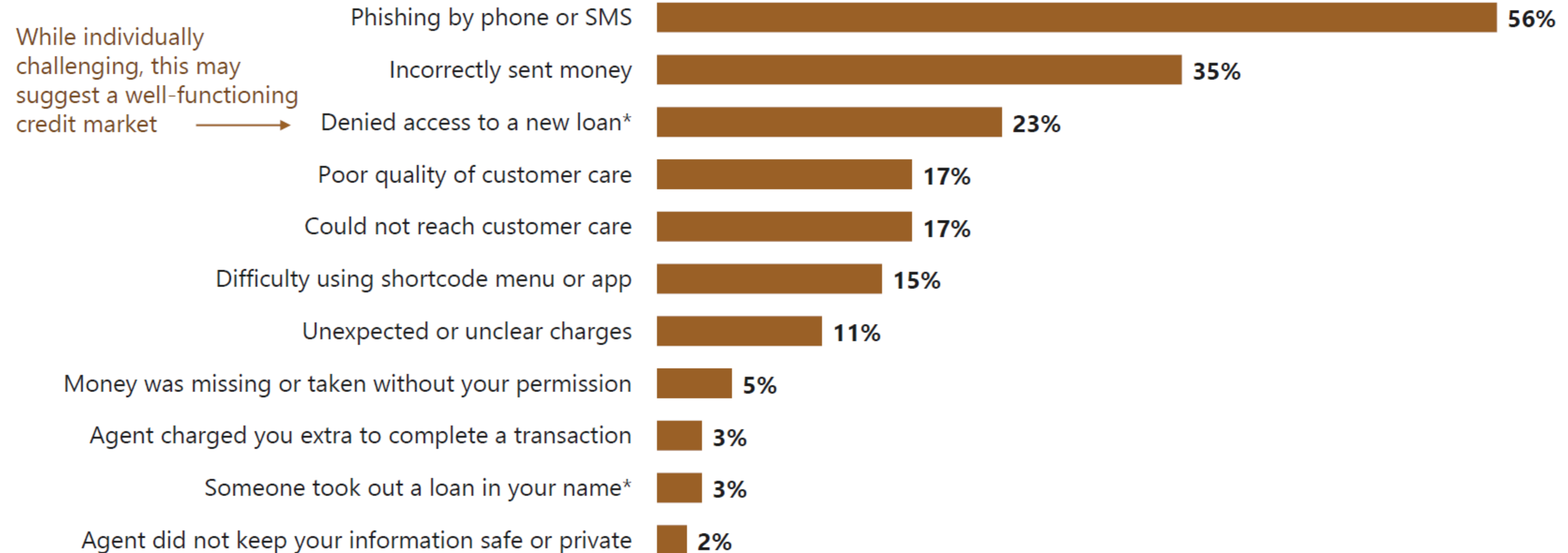


# Digital Credit Market Inquiry

## Consumer protection survey data

### Scam attempts are most common challenge in DFS

Percent of respondents, reporting consumer protection challenges:



\* Loan-specific challenges reflect percent of mobile loan users, not all respondents

49 Notes: n=769–793 except for "Denied access to a new loan (n=430) and "Someone took out a loan in your name" (n=426); January – October 2020





Impact of COVID-19

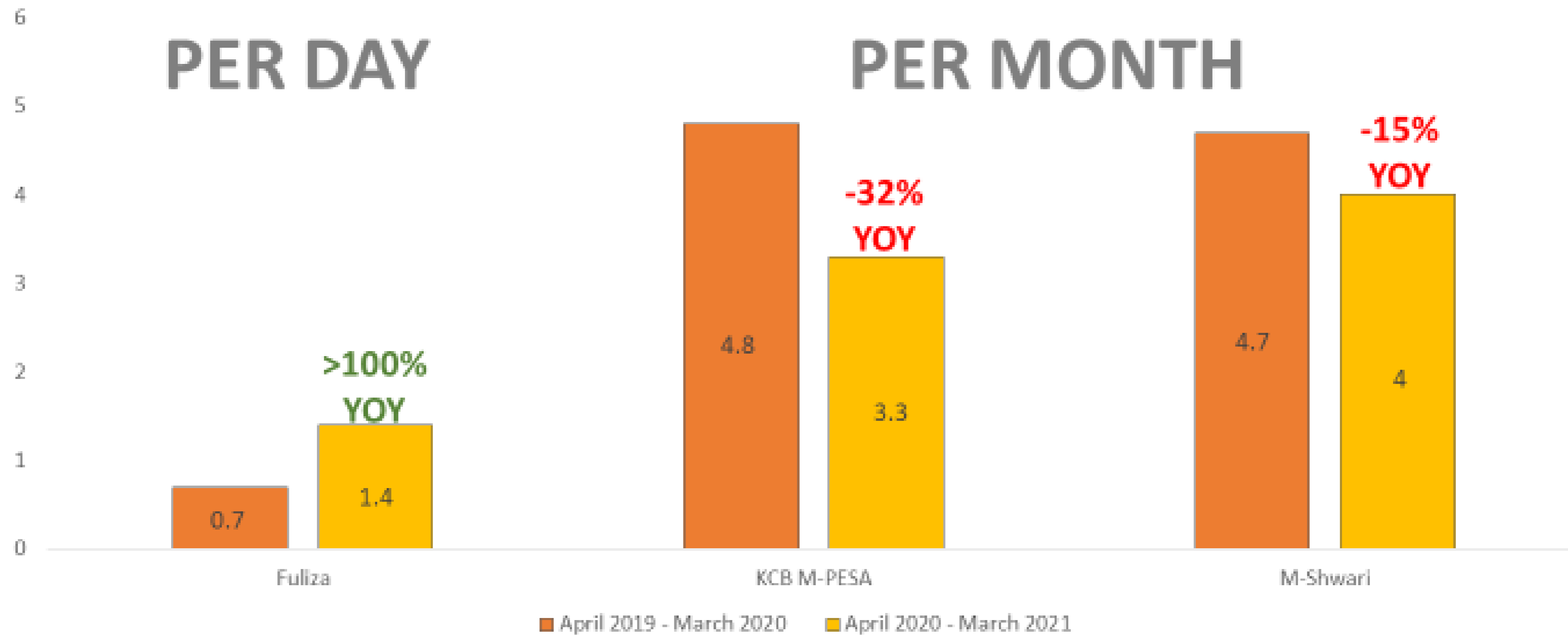
# Unregulated Digital Credit Only Apps

Credit offered by members of DLAK dropped by 50% to KShs 2 billion a month after COVID-19 was detected in the country



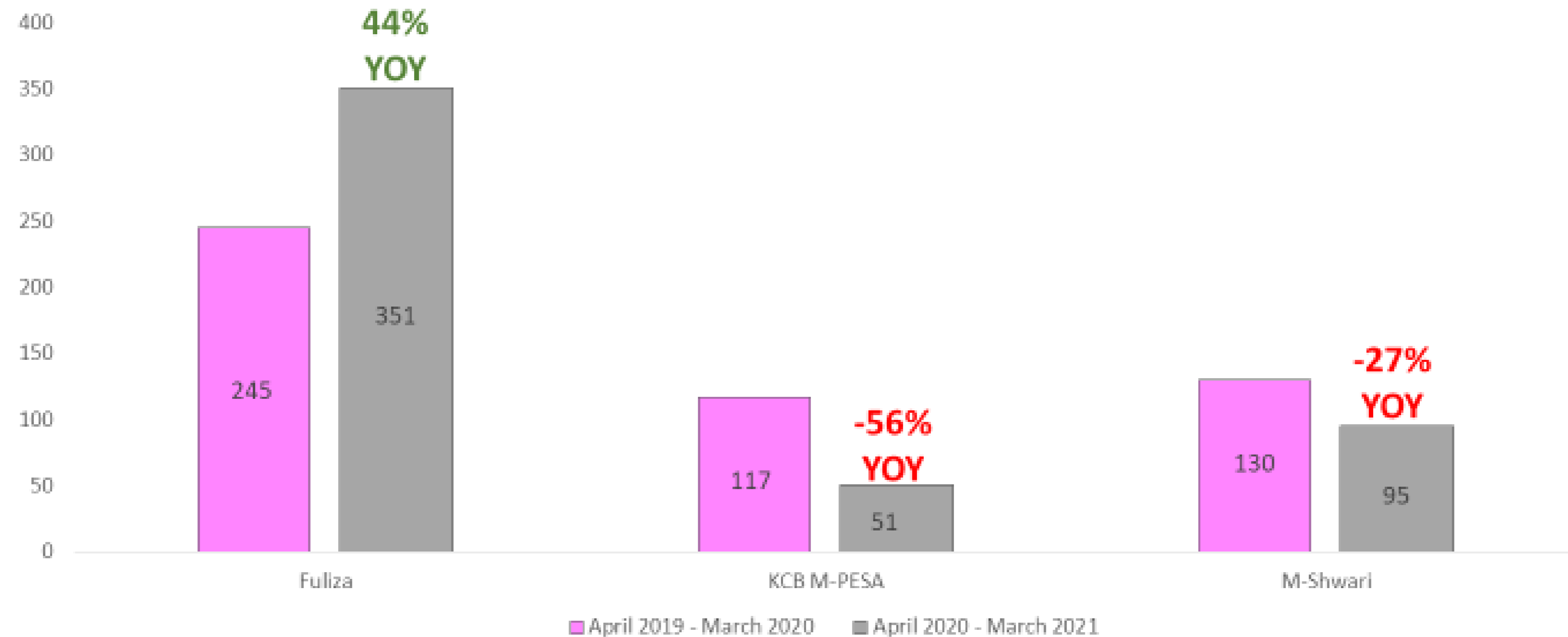
# Safaricom financial results

## Million active users



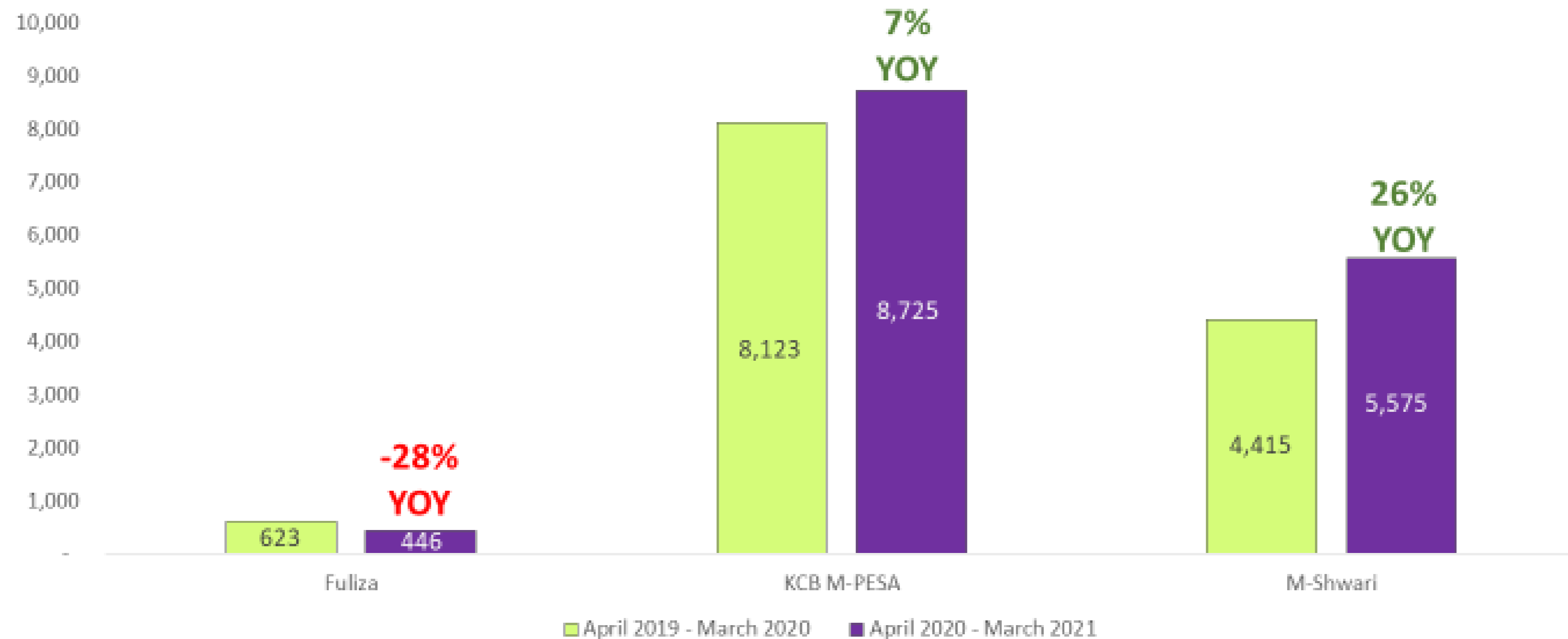
# Safaricom financial results

## Total value of credit (billion KShs)



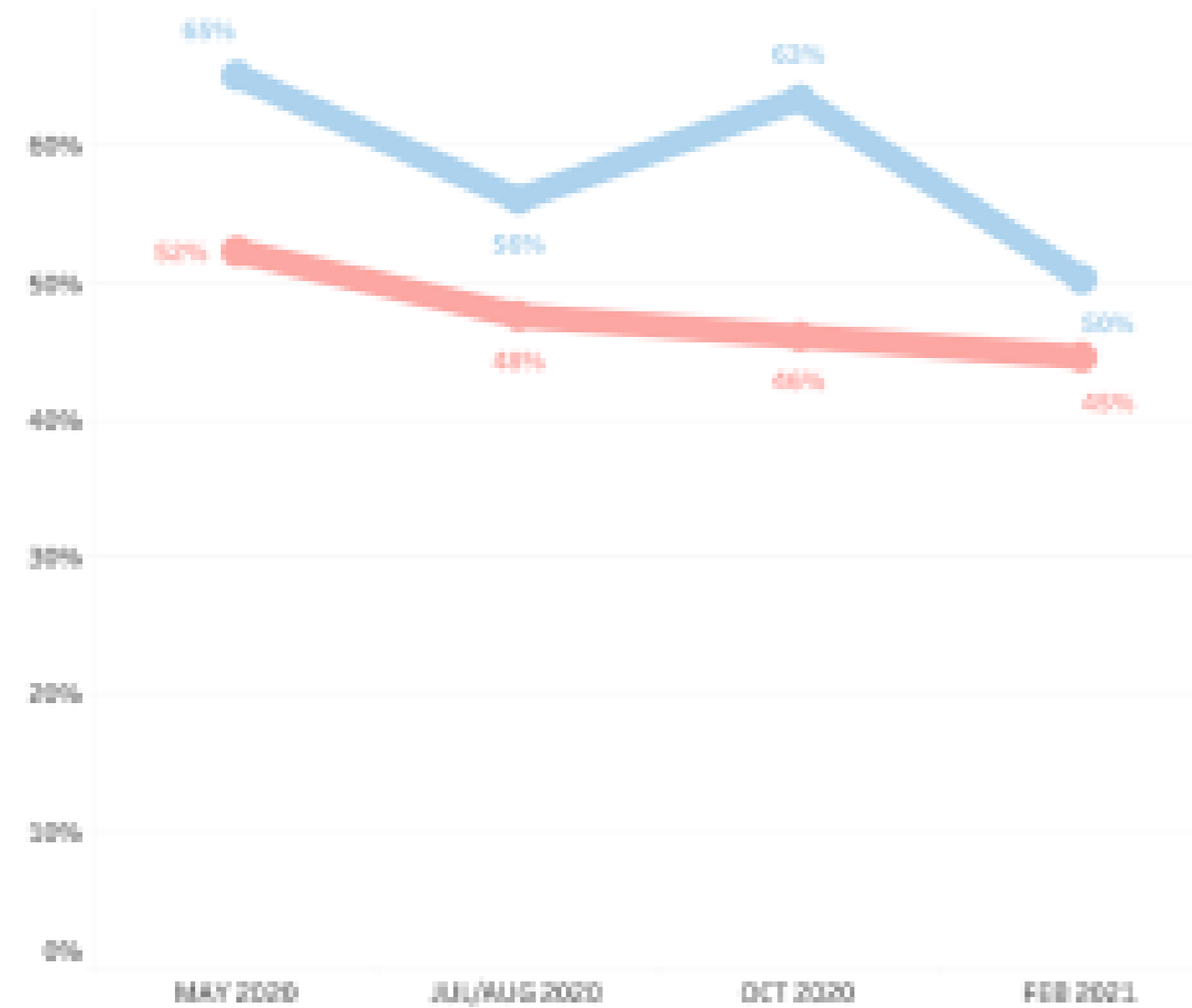
# Safaricom financial results

## Average loan size



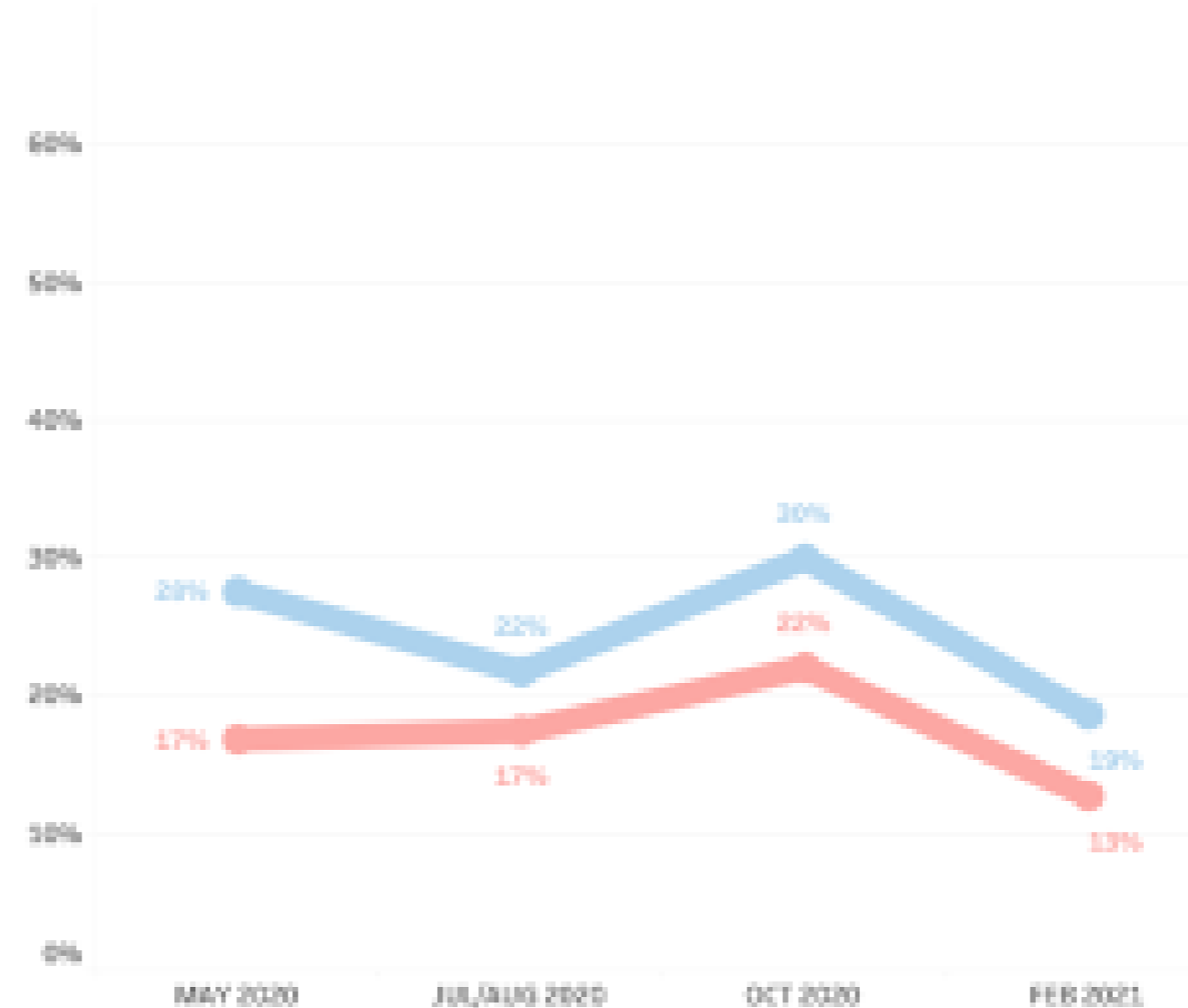
# Kantar 2020 -2021

## Mobile bank loans

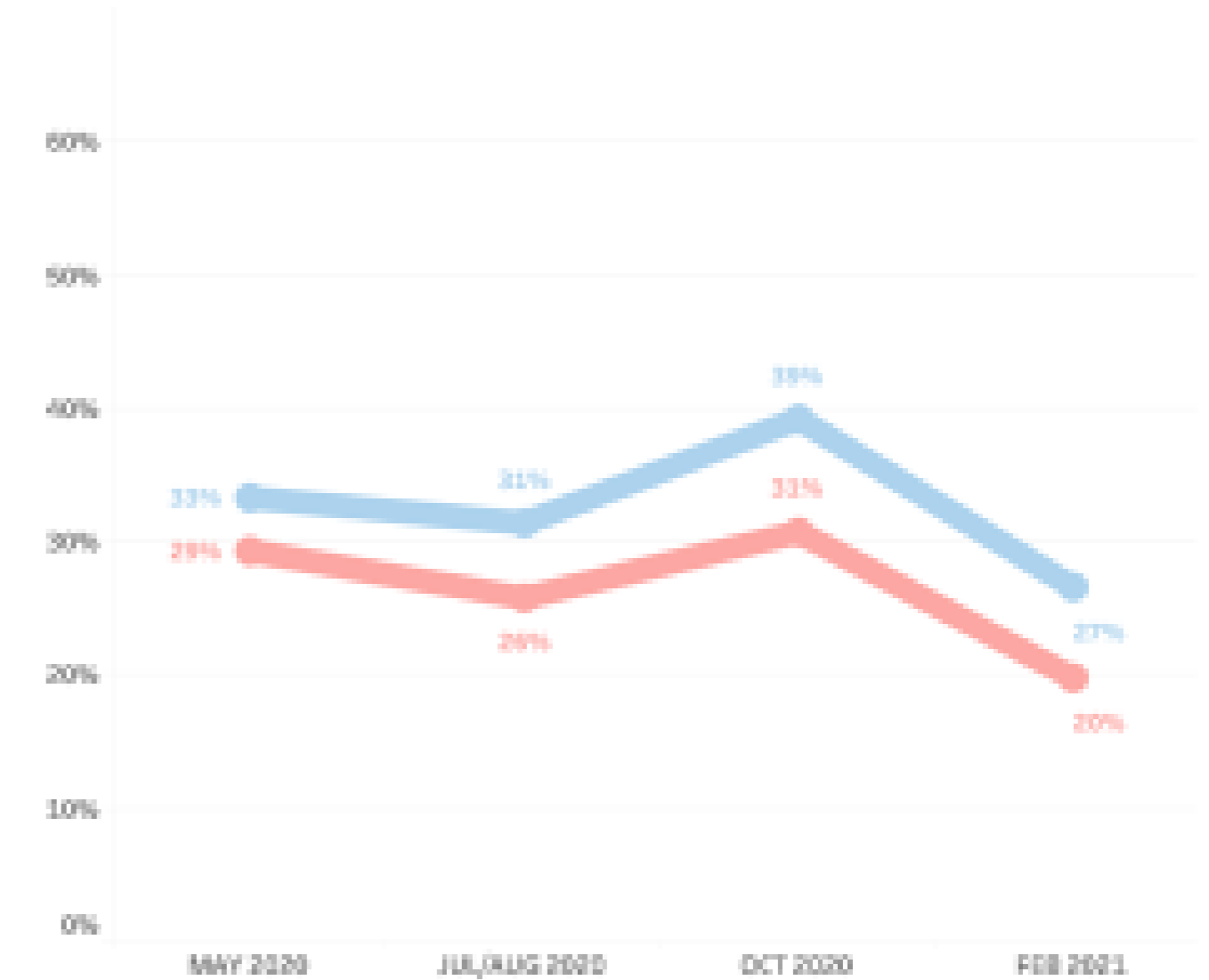


■ FEMALE  
■ MALE

## Mobile money credit (Fuliza)

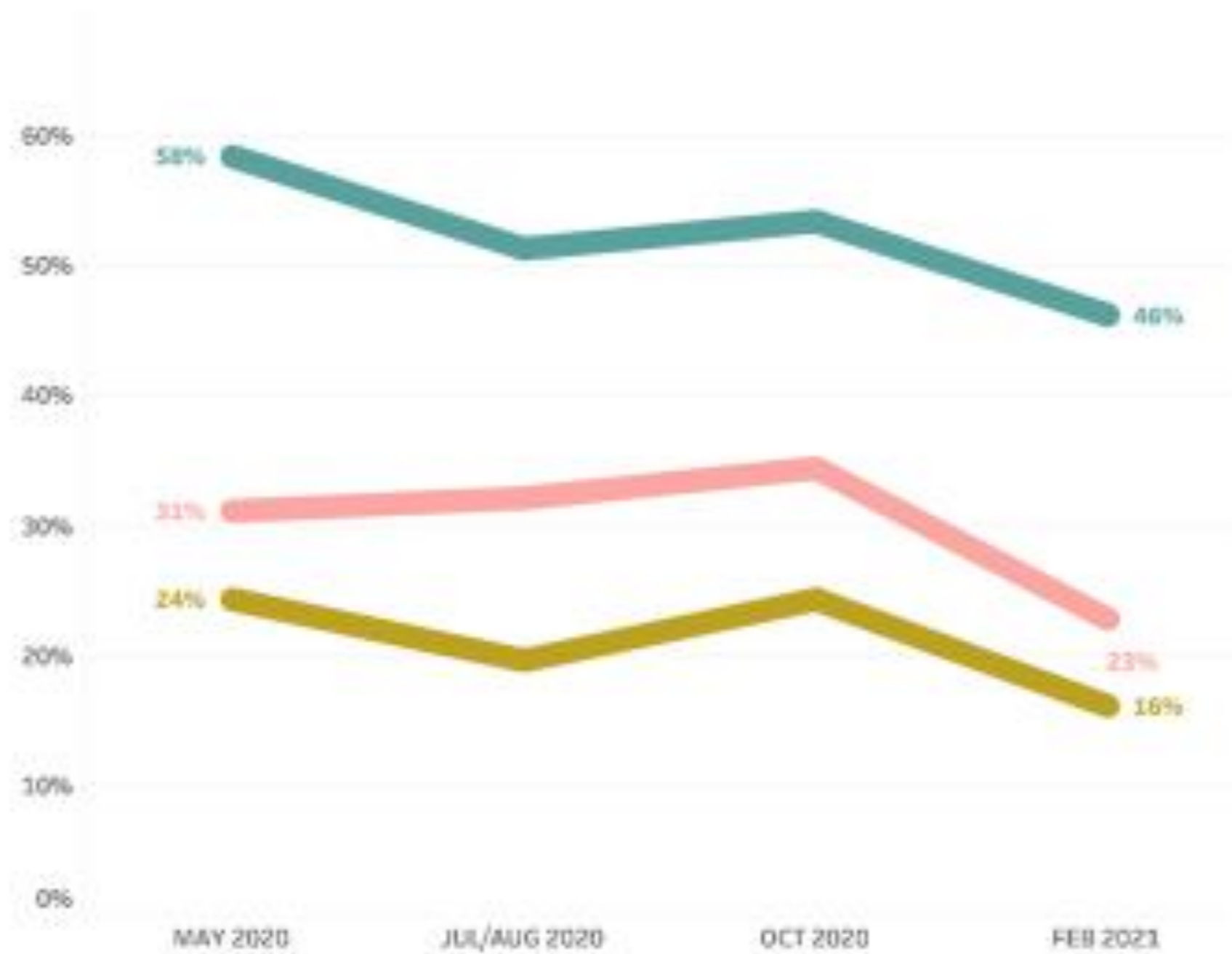


## Credit only apps

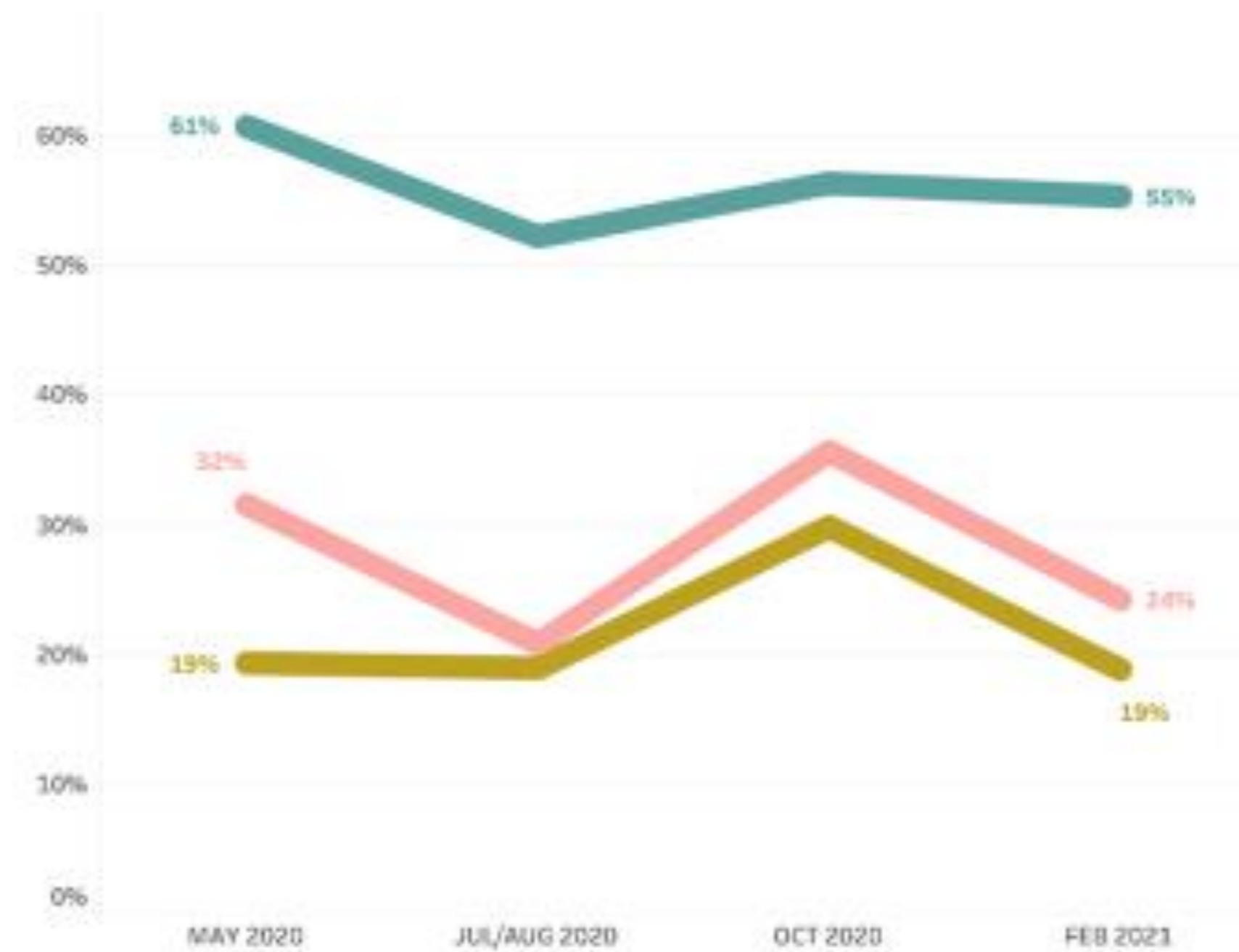


# Kantar 2020 -2021

## Rural Usage



## Urban Usage



■ MOBILE BANK LOAN  
■ MOBILE MONEY LOAN - FULIZA  
■ DIGITAL APP LOAN

# Digital Credit & Financial Inclusion

Tamara Cook  
FSD Kenya

ICPAK 37<sup>th</sup> Annual Seminar  
May 2021

