

DIGITAL TECHNOLOGIES FOR THE CURRENT WORLD

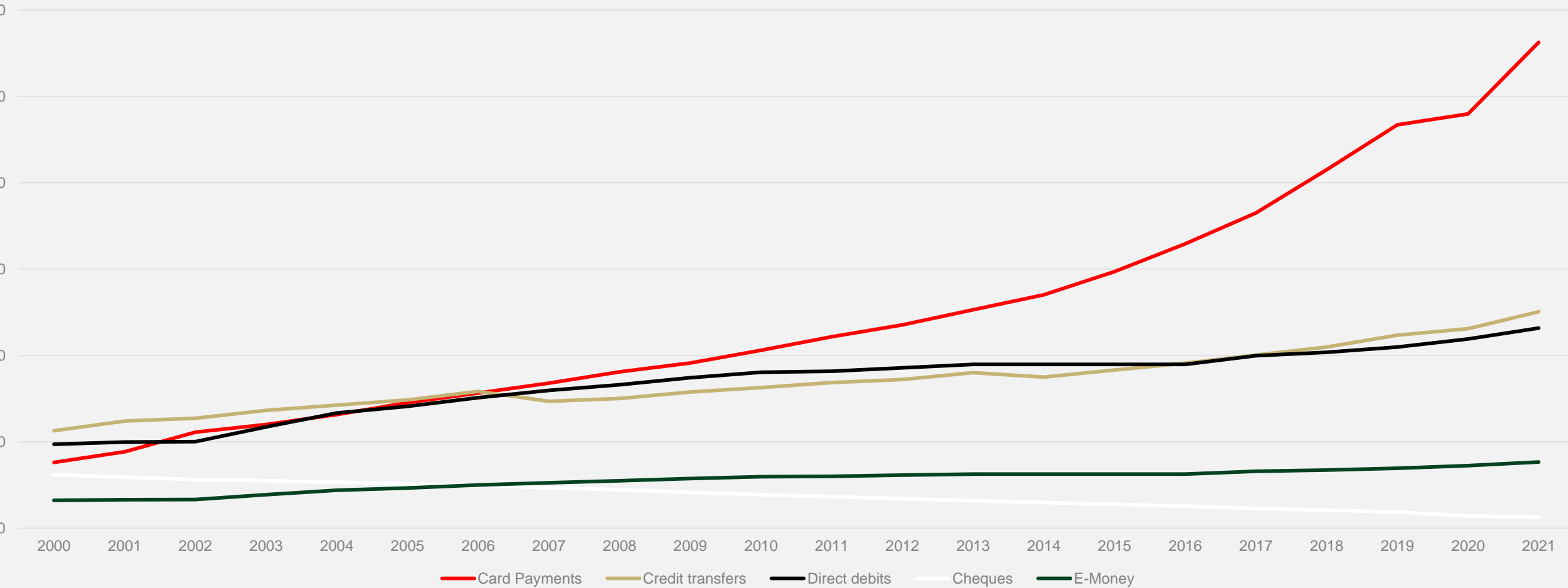
Lessons for cash

Miroslav Vichev, CEO



PENETRATION OF CARD PAYMENTS FROM 2000 TO 2021

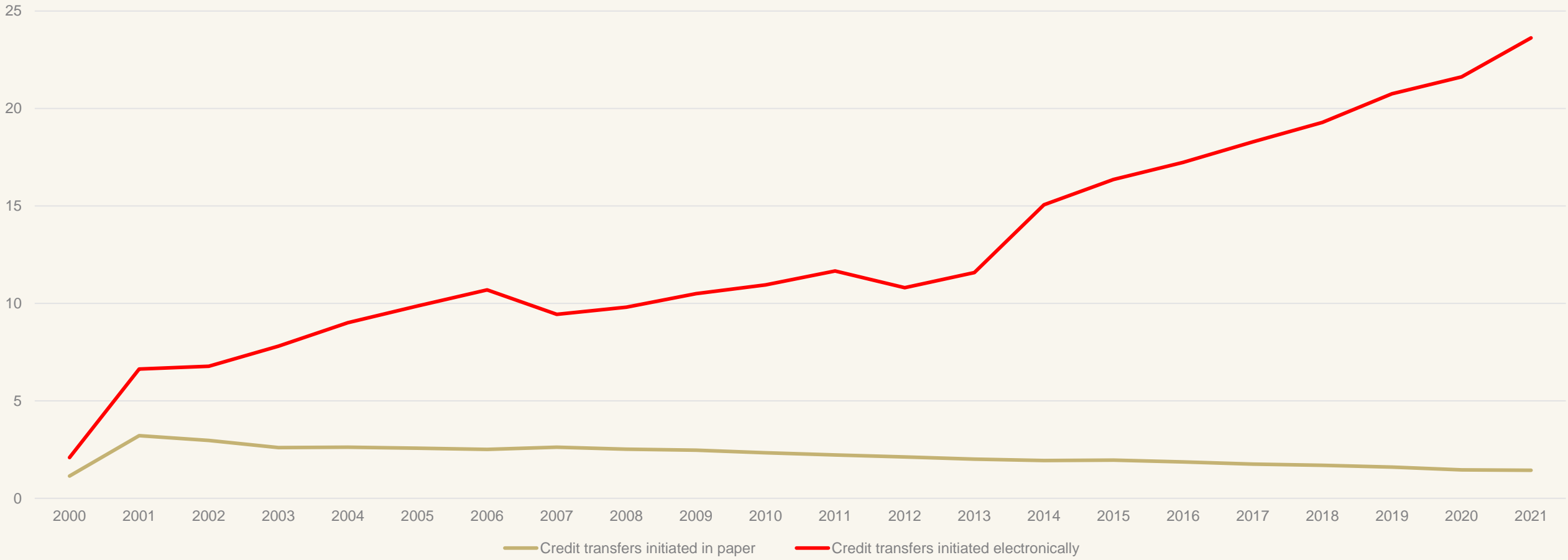
Use of the main payment services in the euro area
(number of transactions per year in billions)



Source: ECB.
Note: Data have been partially estimated for periods prior to 2010, as methodological changes were implemented in previous years and some corresponding data are not available. The historical estimation done by the ECB ensures comparability of figures over the entire period.

PENETRATION OF ELECTRONIC CHANNELS FROM 2000 TO 2021

Credit transfers by channel
(number of transactions per year in billions)



Source: ECB.
Note: Data have been partially estimated for periods prior to 2010, as methodological changes were implemented in previous years and some corresponding data are not available. The historical estimation done by the ECB ensures comparability of figures over the entire period.

CARD PERSONALIZATION EVOLUTION AND TRENDS

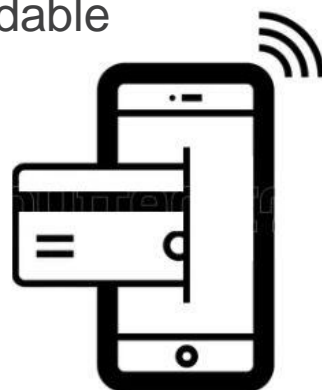
DATA ENCODING

Mag stripe cards – cardholder data is stored on magnetic ribbon

Chip cards (EMV) – cardholder data is stored in the chip

Contactless chip cards – cardholder data is stored in the chip and is readable Contactless (NFC)

Virtual (tokenized) cards – cardholder data is stored in software wallet on mobile device



ePIN Distribution – via SMS or/and app

PHYSICAL PERSONALIZATION

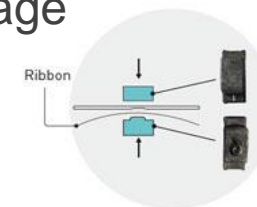
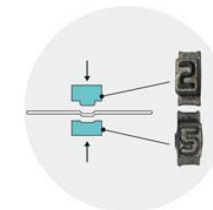
Emboss printing – embossed card can be used on card imprinter

Indent printing – restricting the usage to magstripe and chip (on imprinter)

“Flat card” trend

UV durable printing on card – allows vertical and reversed card designs

Laser engraving – personalization of metal, polycarbonate and wooden cards



POS PAYMENTS EVOLUTION AND TRENDS



SoftwarePOS – Enter amount > Tap to Phone > Receive e-receipt > Process transaction



Contactless POS – Enter amount > Tap the card > Sign the receipt > Automatic processing of transaction

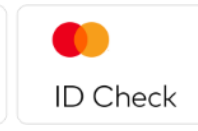


Magstripe POS – Enter amount > Slide card > Sign the receipt > Automatic processing of transaction



Card imprinter – manually Placing the card > Placing paper > Sliding bar over > Client signs the paper > Enter transaction manually in back office

TRENDS OF E-COMMERCE CARD PAYMENTS



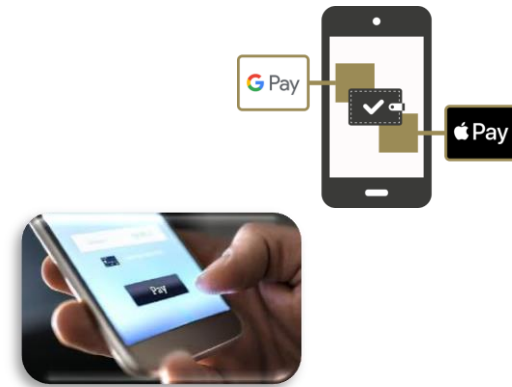
More secure

- Based on PSD2 and Regulatory Technical Standards
- Requirements for SCA / Two-factor authentication
- From 3DS v.1.0.2 to EMV 3DS



More flexible

- From desktop and laptop to mobile payments and digital wallets



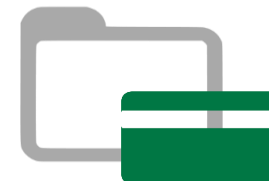
Without friction

- From passwords to biometric authentication and frictionless transactions



Focused on long-term relationship

- From single transaction to Credential on File and Recurring payments



A hand holding a pen over a laptop keyboard, with a large white circle containing the text 'INSTANT PAYMENTS' overlaid on the image. The background is a warm, golden-brown color with a circular graphic element.

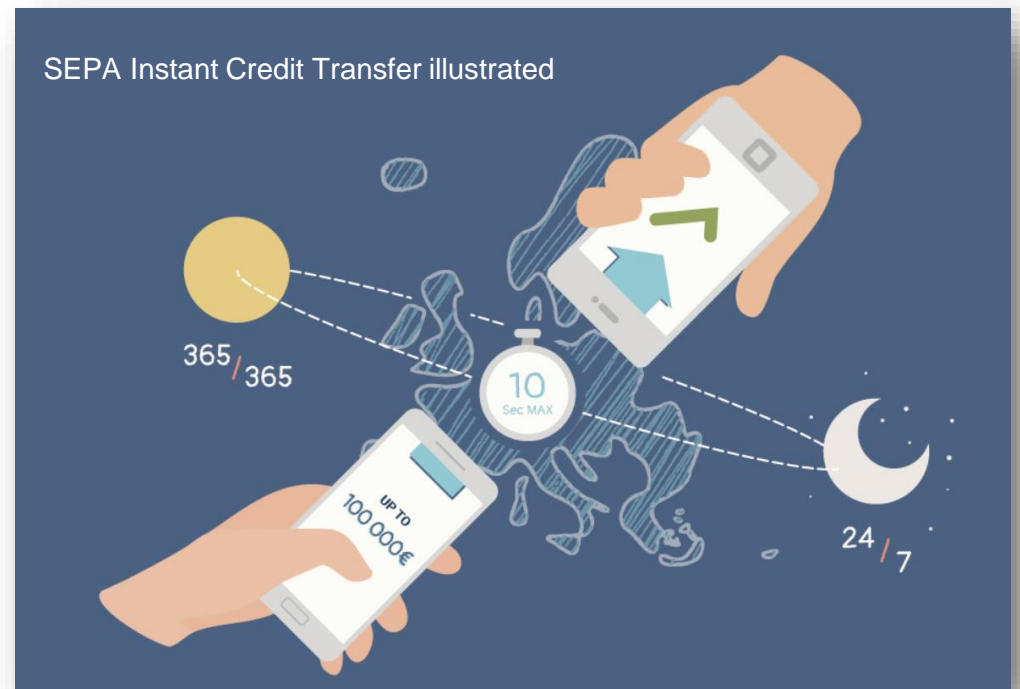
INSTANT PAYMENTS

SEPA INSTANT CREDIT TRANSFER SCHEME

SEPA Instant Credit Transfer (SCT Inst) heralds a new era in payments. Payments are no exception to an increasingly digital and immediate society.

Consumers expect ever easier and faster services. The SCT Inst. scheme delivers these by enabling pan-European credit transfers with the funds made available on the account in less than ten seconds.

It works for credit transfers made in euro, up to a maximum amount of 100,000 euros per transaction. The money is available in the account of the payee within ten seconds. All adhering scheme participants have to be technically capable to process the SCT Inst transactions on a 24/7/365 basis.



SCT INST GROWTH SINCE ITS LAUNCH

NUMBER OF SCT INST SCHEME PARTICIPANTS

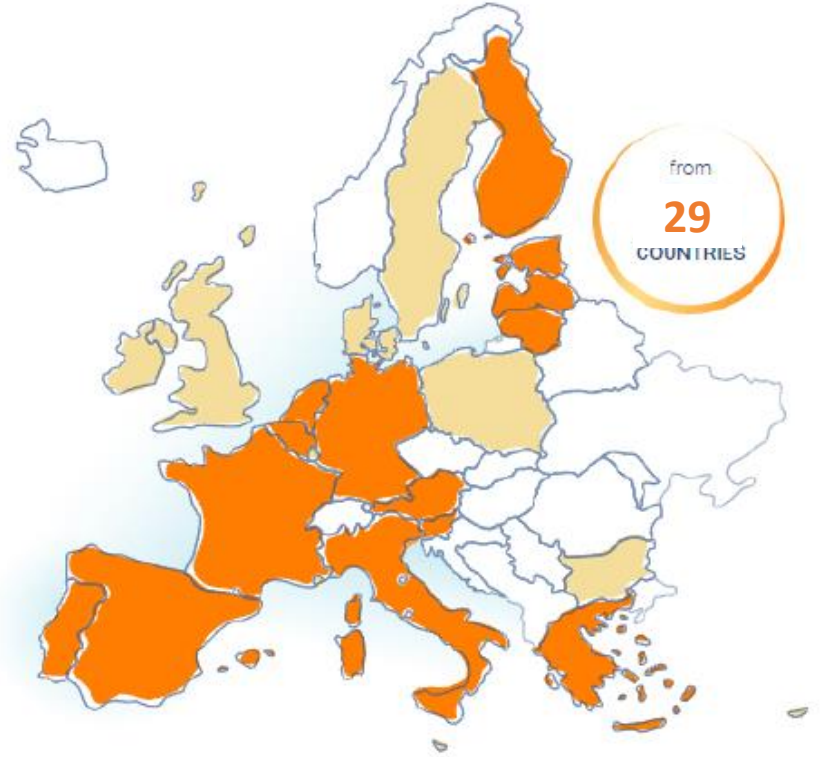


2 313

PAYMENT SERVICE PROVIDERS
HAVE ALREADY JOINED THE SCHEME

60%

OF EUROPEAN PSPS



from
29
COUNTRIES

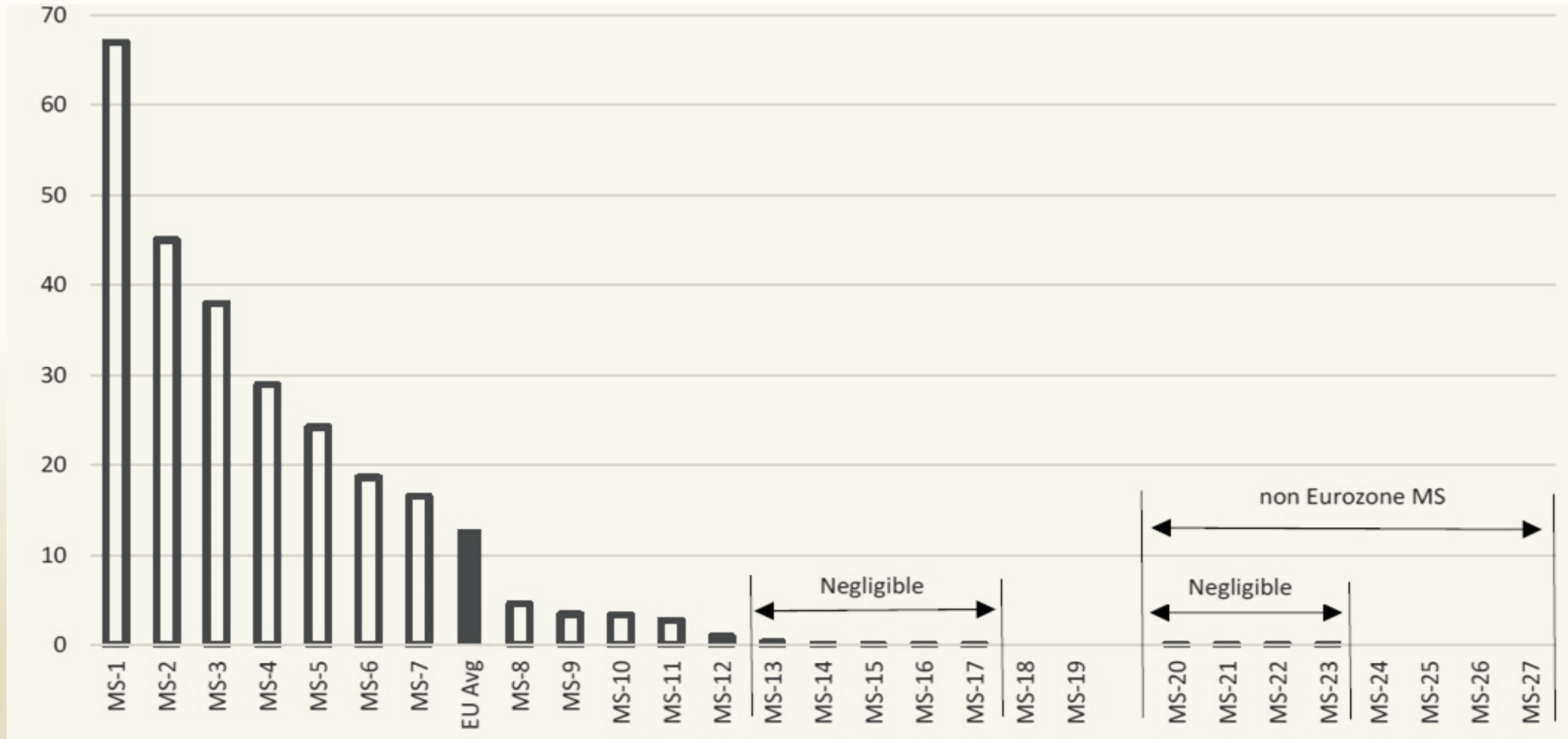
- At least 1 SCT Inst participant and a majority of payment accounts in the country
- At least 1 SCT Inst participant but no majority of payment accounts in the country
- Readiness date: 24 June 2023
- No SCT Inst scheme participants in the country

71%

PSPS IN THE EURO AREA

INSTANT PAYMENTS IN EUROPE

As of Q4 2022 around 14% of all euro credit transfers in the EU were processed as instant payments



EPI Digital wallet solution

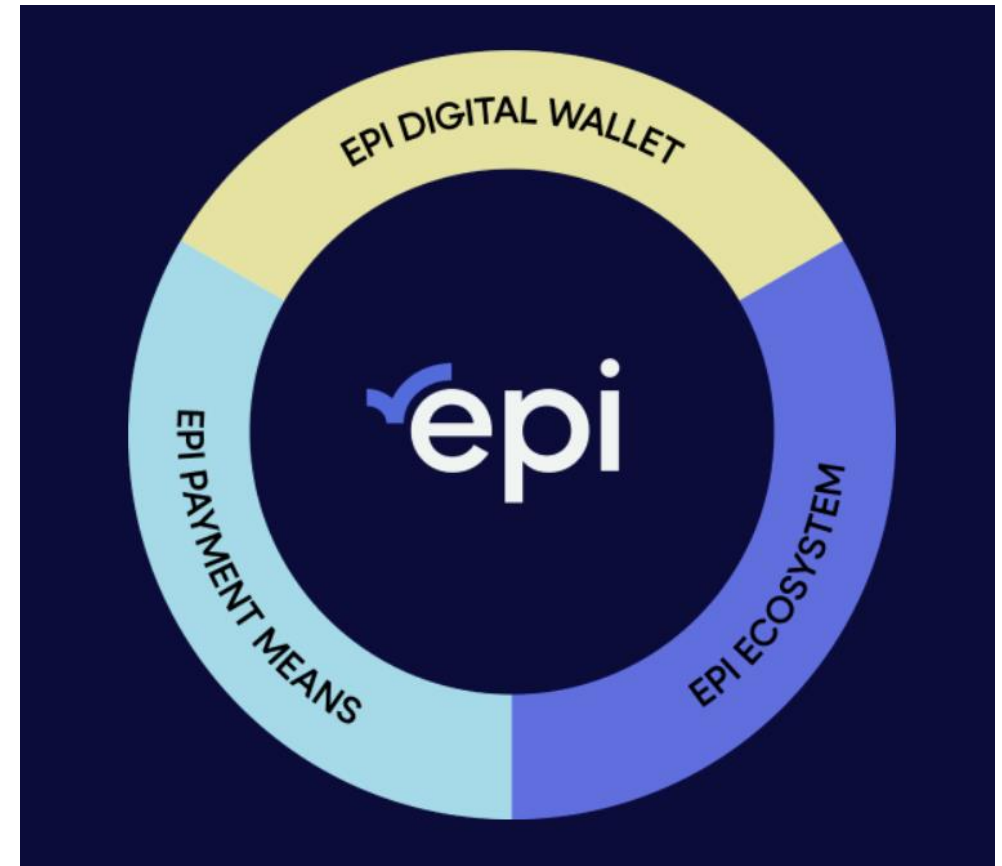
At the epicenter of EPI's offering is digital wallet product. The customer-centric, easy to use app will facilitate payments from and to any of a customer's eligible bank accounts with a higher degree of transparency and control than is currently available. In time, the app could hold other payment methods issued by third parties too, as well as facilitating the wide range of other services that EPI will integrate into the payment flow. These added-value services could in the future include bank funded buy-now-pay-later, e-ID or merchants' loyalty programs. The digital wallet will be a separate consumer-facing brand which is currently in development.

EPI Payment means

EPI is building a flexible and secure payment scheme allowing existing instant account to account payment infrastructures to be used in a wider range of use cases. The payment applications will extend and be enhanced over time. Customers will be able to use any of their eligible bank accounts to pay instantly, securely and with ease.

EPI Ecosystem

EPI is acting as the bridge between a multitude of parties in the complex payment landscape. Technically speaking, EPI will therefore be an open 4-corner scheme.



PREFUNDED SETTLEMENT

EXTREMELY STABLE AND SECURE SETTLEMENT PROCESS

BORICA introduced prefunded settlement in BISERA6 for both instant payments and standard credit transfers in BGN, which significantly accelerated the payment process.

BORICA is about to implement the mechanism for Continuous Gross Settlement (CGS) in TARGET on a prefunded model and for SEPA payments through BISERA7-EUR, which will improve service levels for end users as well.



Ensures secure settlement for the receiving institution to make the funds immediately available to the recipient's account



Credit risk between participants is eliminated because transactions are executed only within the limits set by a given participant



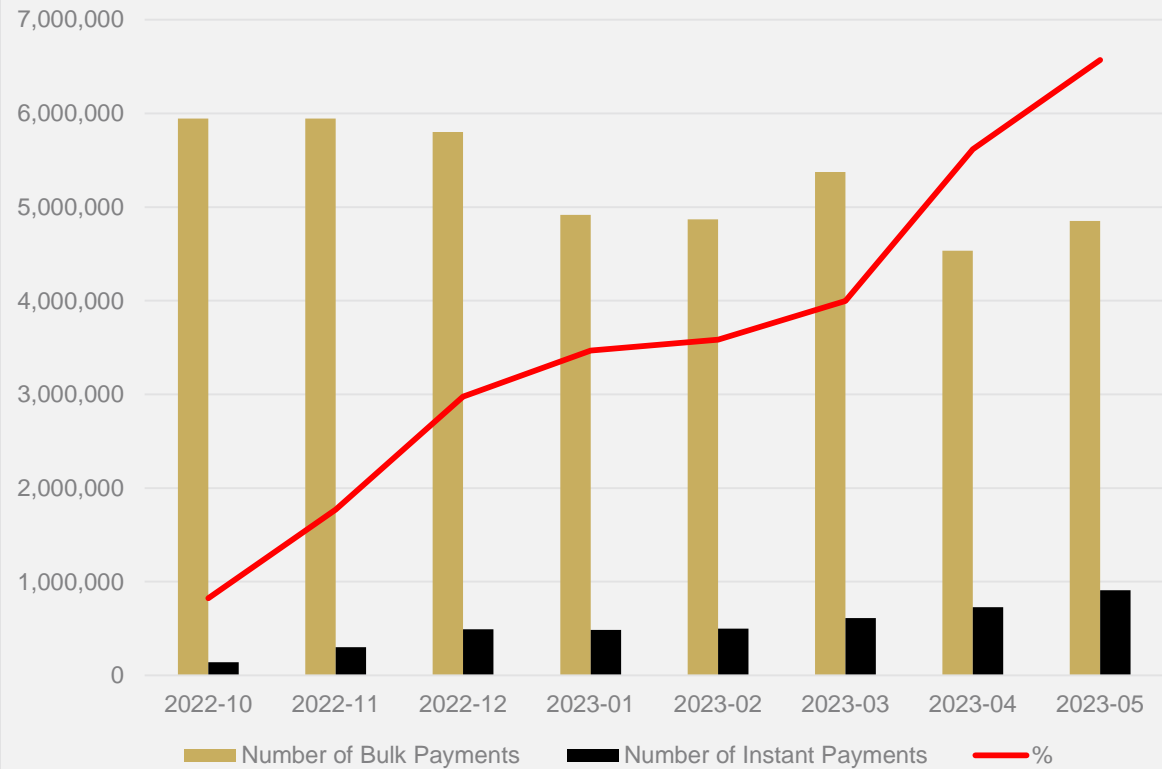
At no time does the operator take possession of the funds set aside by the participants - they are kept in a special account in Bulgarian National Bank



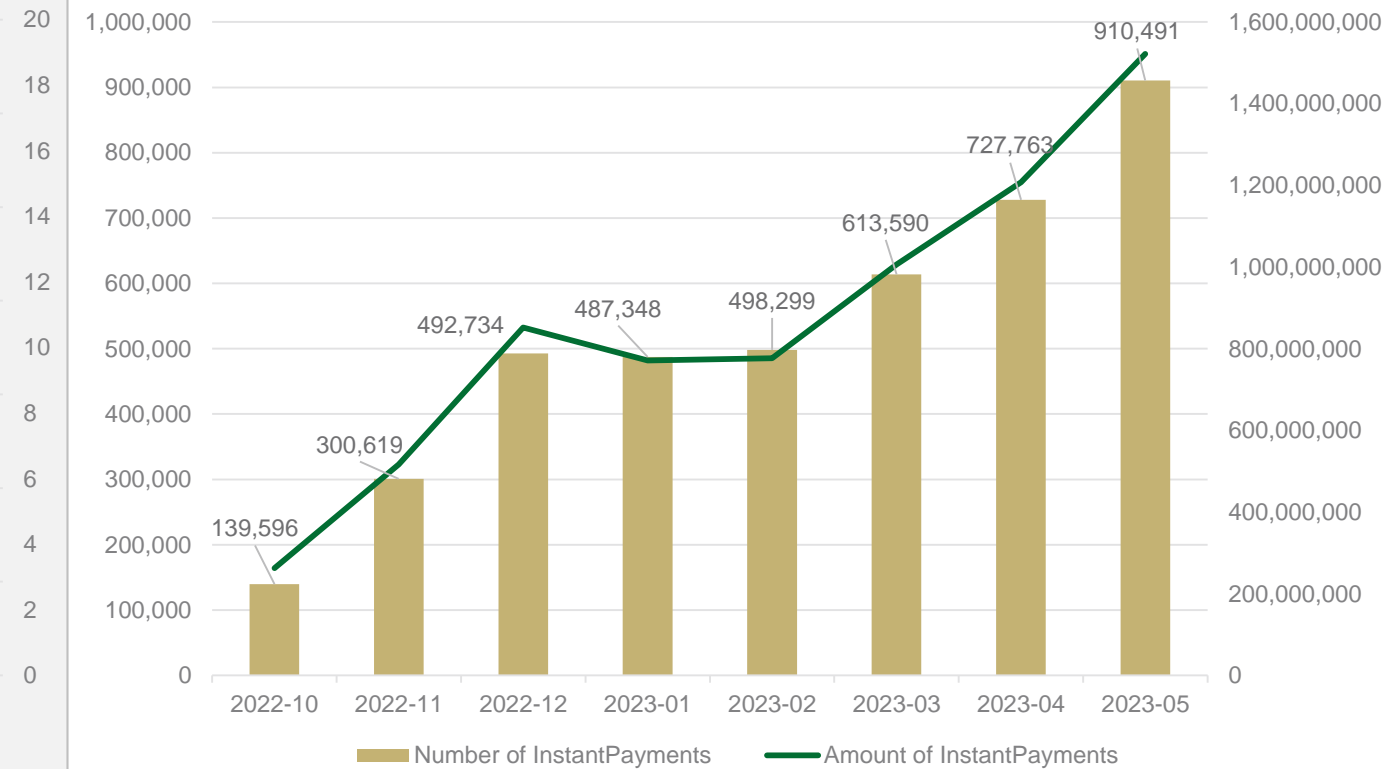
There is no discrimination - the procedure is open and fair for all participants

INSTANT PAYMENTS PENETRATION IN BULGARIA

Share in % of Instant Payments in BISERA6

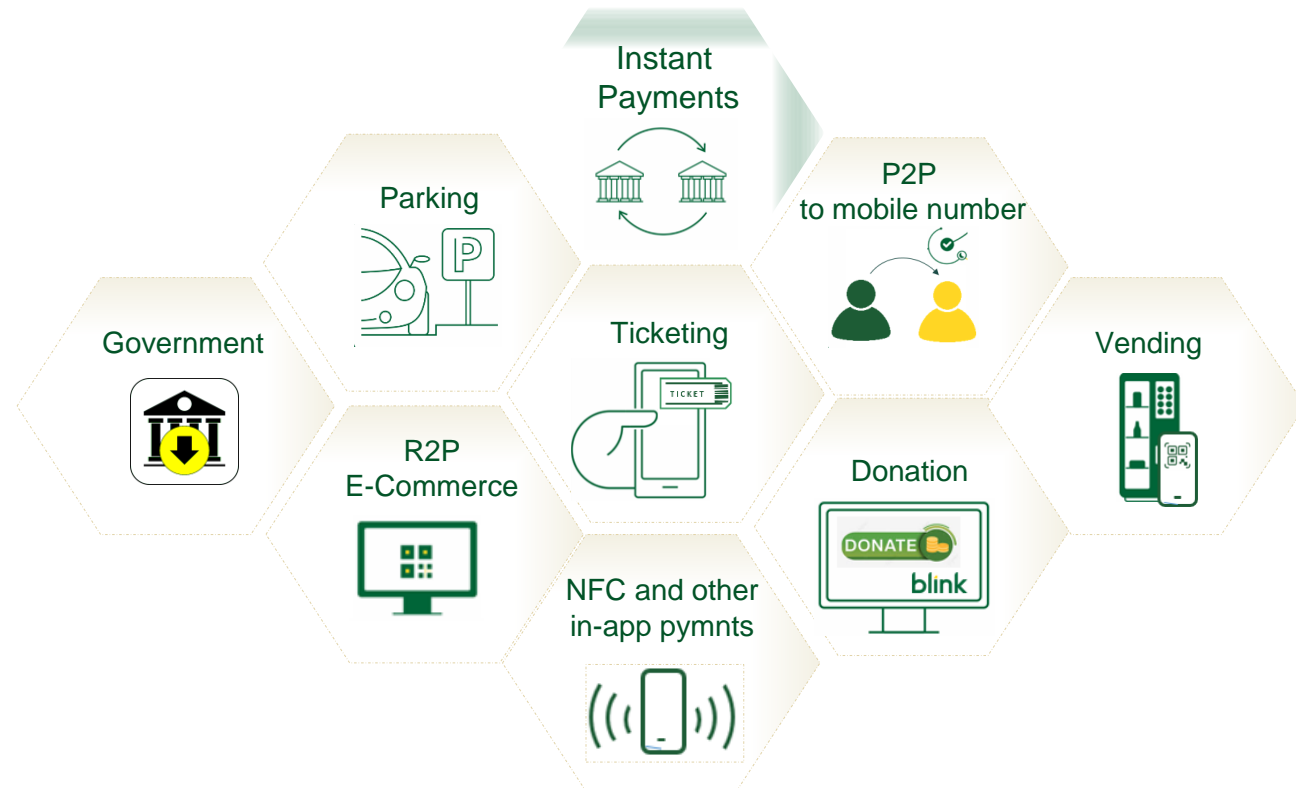


Statistics Instant Translations



Migration from CASH and PAPER to DIGITAL

Account payments **blink**



MARKET COVERAGE AND DEVELOPMENT

33 Payment Service Providers



VAPS

Stage 1

2022-2023

blink
Instant payments via PSP channels

Over 95% reachability till 01.04.2023

Stage 2

2023

P2P with Mobile Lookup

Over 70% reachability till 31.12.2023

Parking zones

Private parking
Events
Donations

Stage 3

2024

Vending Self-service

R2P Online E-Commerce

Budget payments

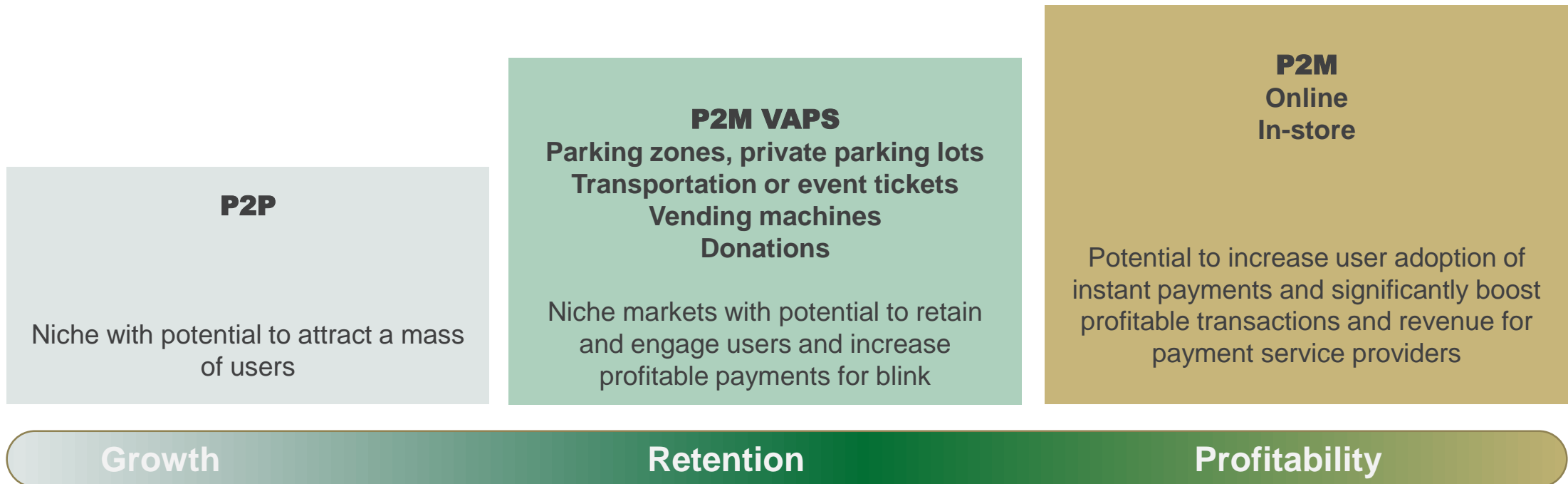
Stage 4

2024-2025

In-store

UNLEASHING THE FULL POTENTIAL OF INSTANT PAYMENTS

- Our primary focus is on the P2P service to mobile numbers, aiming **to rapidly attract a substantial user base** and acquaint them with the convenience of blink instant payments.
- After successfully building a robust user community on blink, our next stride is **to captivate and retain users** by enticing aggregators and low-value service providers. This strategic move will cover niches where cash transactions prevail, such as hourly parking (blue and green zones), transportation tickets, events, self-service vending machines, donations, and more.
- Having paved the way for underserved sectors and merchants lacking POS devices, our ambition is to entice online merchants and physical retailers. This initiative will **boost the usage of blink among users**, further expanding its reach and impact.



**Thank
you!**