# IFC MOBILE MONEY SCOPING COUNTRY REPORT: TURKEY



Creating Markets, Creating Opportunities

## **TURKEY SUMMARY- PAGE 1**

**OVERALL READINESS RANKING** 

The Turkish financial sector is highly advanced. However, stakeholders appear less driven to promote access to financial services other than payment services.

**CURRENT MOBILE MONEY SOLUTION** 

Currently all major banks and 2 of 3 biggest telecom providers offer mobile money solutions.

**POPULATION** 

80.17 million (2014) 92.96% (high) (2013)

MOBILE PENETRATION **BANKED POPULATION** 

57% through banks (2014)

PERCENT UNDER POVERTY LINE

16.9% (2010)

**ECONOMICALLY ACTIVE POPULATION** 

**MOBILE NETWORK OPERATORS** 

Workforce: 27.56 million (2014)

**ADULT LITERACY** 

95%, age 15yrs+ can read and write (2014)

MAIN BANKS

Turkcell, Vodafone, Avea

Türkiye İş Bankası, Ziraat Bankası, Garanti Bank, Akbank, Yapı ve Kredi Bankası

REGULATION

Recent regulation on payments which clarifies which institutions may offer digital payments and which may issue e-money. Only banks may offer financial services such as deposits and loans. However, banks may not operate via agents other than the postal system.



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### **TURKEY SUMMARY - PAGE 2**

#### OVERALL MOBILE MONEY IMPLEMENTATIONS

- Over three fourths of all transactions in banks currently happen over alternate delivery channels (ADCs) which includes ATMs, call center, internet, and mobile banking. Thus, banks view ADCs as being integral to their value proposition to clients. All leading banks offer mobile and internet banking services to clients.
- ✓ Till recently, 2 (Turkcell, Vodafone) of the three major MNOs offer mobile money solutions. Levels of activity on these mobile solutions have been low. In 2015, Turkcell has temporarily discontinued its mobile money solution, given the low take up.
- Mobile banking is typically encouraged via applications available on android and iOs platforms.

#### PROPOSED OR RUMORED IMPLEMENTATIONS OF NOTE

- ✓ Avea Only one of the three major mobile network operators that does not have a mobile money solution. Beginning to develop their strategy for mobile financial services.
- ✓ Fiba Banka Fiba Banka is interested in expanding through mobile financial services through partnerships with mobile network operations

#### OTHER ITEMS OF INTEREST

The retail payment switch BKM also offers a mobile payment solution. This solution is offered in partnership with a network of banks. Thus, clients of these partner banks may use the BKM payment solution for added security.

Creating Markets, Creating Opportunities

### **TURKEY SUMMARY - PAGE 3**

#### OTHER CONSIDERATIONS

- ✓ Digital financial services initiatives by banks target mainly the banked and affluent population which has access to smart phones. Most Tier 1 and Tier 2 banks are looking for expansion by adding students and young professionals as customers, rather than by reaching out to remote/ rural areas.
- On the other hand, Tier III banks, whose rural presence is poor, are in search of attractive partnerships which will help them expand outreach.
- Regulation appears to be enabling as the new law defines non-bank payment providers (such as MNOs, post office and others). In this regulation, agents may provide cash in and cash out services for end clients.
- ✓ From a regulatory perspective, banks cannot use agents for financial transactions meaning the opportunity to use agent based banking for financially excluded is limited.



## **Macro-economic Overview**

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### MOBILE BANKING MARKET POTENTIAL

#### **Key Country Statistics**

- Population: 80.17 mil (2014)
- Age distribution: 26% (0 14 years) 67% (15 64 years) 7% (>65 years) (2014)
- GDP (PPP): \$1.109 trillion (2012 est.)
- GDP per capita (PPP): \$14,800 (2012 est.)
- Urban/rural split: 73% urban/ 27% (rural) (2014)
- Population below Poverty Line: 16.9% (2010)
- Literacy rate: 95% (2014)
- Banking penetration: 57% (2014)
- Personal remittances, (current US\$, 2010-2014)
  - Received: \$1,135,000,000
  - Paid: \$330,000,000
- Workforce: 27.91 million (2014)
- Mobile phone penetration: 92.96% (2013)

#### Insights

- Turkey is a mid-sized country, with a young population with high disposable income, which is very tech savvy.
- It has a sophisticated banking industry which serves 58% of the population (30 mil people, through 11,157 branches).
- Mobile usage is widespread in the country.
- Internet consumption in Turkey is high. As early as 2011, the average internet user was spending 29.4 hours weekly; the worldwide average is about 23.1 hours a week. Online commerce is also growing rapidly.
- Most Tier 1 and Tier II banks have already launched mobile payment products, MNOs have also shown interest.
- However, existing deployments target affluent customers, rather than targeting the unbanked/ under-banked population

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## REGULATORY BODIES INVOLVED IN MOBILE BANKING

### Roles & Responsibilities

Central Bank: CENTRAL BANK OF THE REPUBLIC OF TURKEY (CBRT)

 The mission of the central bank is to maintain economic stability and preserve the soundness and integrity of the banking and financial systems.

Telecom Authority Bilgi Teknolojileri ve İletişim Kurumu (BTK)

- Independent organization, under the Ministry of Transport and Communications
- MNOs are private and require approval of BTK prior to launching operations
- BTK creates and maintains competition in the sector; protecting the rights of the consumer
- BTK also monitors technical and economic efficiency for all telecommunications services

Banking Regulation and Supervision Agency (BRSA)

- Duties include: regulation, supervision, strategic planning, & developing financial sector & enforcement of directives
- BRSA ensures reliability & stability in financial markets
- It is in charge of protecting rights and interests of depositors
- Turkey passed a law in June 2014 which provides greater clarity on non-bank payment service providers. This law will be regulated by BRSA

## **REGULATORY FRAMEWORK, SLIDE 2**

### **Current Regulations**

E-money
Institutions &
Payment
Institutions

- The new law defines two new types of institutions electronic money institutions (EMIs) and payment institutions (PIs).
   Only EMIs may issue e-money while PIs may only facilitate payments.
- The law describes e-money as that which is accepted as a payment instrument by natural and legal persons other than the electronic money issuer.
- However, funds thus acquired may not be termed deposits and the payment institution may not grant loans.

**Banks** 

- Banks are covered by banking law.
- The Banking Law is silent on electronic money, but the Payment and E-Money Law permits banks to issue electronic money without any further authorization

### **Implications**

- EMIs and PIs are seen to be mainly facilitating payment services rather than any other financial services.
- At the same time, they are also allowed to store funds in electronic wallets.
- At this stage, both EMIs and PIs may conduct the following payment transactions: operating a payment account, payment transactions including transfers of funds on a payment account of the payment service user and direct debits, issuing or acquiring of payment instruments, money remittance and services for mediating invoice payments.
- Only two kinds of institutions may issue electronic money – EMIs and banks.

## **REGULATORY FRAMEWORK, SLIDE 2**

### **Current Regulations**

#### **Implications**

## Use of Third Party Agents

- Banks cannot recruit third party agents.
   And third parties may not do AML/ KYC for banks.
- Some banks are using postal system (PTT) as an agent as this is specifically approved by the BRSA. PTT is primarily used for payment services such as credit card payments and credit payments.
- EMIs may recruit agents to conduct their business; however, the e-money issuer is ultimately responsible for the client and agent.
- Banks which are interested in diverting business from their branches are signing up clients at the doorstep, offering them services via alternative delivery channels. At the time of account opening, a bank staff must witness customer's signature
- Some banks are using postal system (PTT) as an agent as this is specifically approved by the BRSA. PTT is primarily used for payment services such as credit card payments and credit payments.

#### **Technology**

 Each payment provider needs to establish a local, compliant IT infrastructure  For PSPs, this could be a strong disincentive since they would need to have local IT infrastructure. In the neighboring EU, for example, one license could cover the whole EU.



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## **Financial Sector**

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## FINANCIAL SYSTEM OVERVIEW

57% of the Turkish market is banked by the formal sector – this represents considerable opportunity for growth. Specifically, women are disproportionately excluded compared to men.

#### **BANKS**

- Turkish banking sector is the second largest Central and Eastern European banking system with an asset size of USD 778 billion.
- It has 49 banks; 32 are deposit taking (including 3 state-owned), 13 are specialized investment and development banks and 4 are participation banks (interest free/ Islamic banking).
- There are 11,157 branches in Turkey nationally, of which 3,489 belong to state owned deposit banks.

#### MICROFINANCE INSTITUTIONS

- MFI regulation in Turkey does not exist. Current endeavors are not scalable profitably as they follow the not for profit model and were created through special dispensation.
- Current organizations such as TGMP and Maya Foundation exist as a result of special permissions which are not replicable. Both are Not for Profit.
- Given the relatively high level of banked population in Turkey, there is no special regulation which covers financial institutions other than banks.
- Certain banks such as Seker Bank and Ziraat Bank (state owned) serve what would traditionally be considered the microfinance segment. In this study, they have been included under banks.

#### **PAYMENT INFRASTRUCTURE**

- As at the end of 2014 Turkey had 46,000 ATM machines nationwide
- There is a reported 2.4 million POS terminals as at the end of 2014.
- There are over 105 million debit cards and close to 57 million credit cards.



## FINANCIAL SYSTEM OVERVIEW – ADDITIONAL PLAYERS

#### **SWITCHING, CLEARING & SETTLEMENT**

- The Turkish payment, clearing and settlement framework consists of various electronic systems that cover largevalue payments, stock exchange payments, cheque clearing and credit card payments.
- The Turkish real-time gross settlement system (TIC-RTGS) settles inter-bank payments in Turkish liras. It is owned and operated by the Central Bank of Turkey.
- The Turkish electronic securities transfer and settlement systems (TIC-ESTS) provides issuance, principal and interest payment processing, custody and transfer and settlement services for Government bonds and Treasury bills.
- In the retail payment sector, there are two important national payment switches.
  - Bankalararası Kart Merkezi (BKM) is the inter bank clearing and settlement of card transactions. BKM was set up by a group of banks.
  - Bankalarasi Takas Odalari Merkezi (BTOM) or the Interbank Clearing House Centre manages check settlement in Turkey
- ISE Settlement and Custody Bank (Takasbank).settles and clears all trades for the Istanbul Stock Exchange (ISE) trades.
- Takasbank is also the central counterparty clearing house (CCP) for derivatives transactions for Turkish Derivatives Exchange (TurkDEX).
- For dematerialized capital market instruments trading on ISE markets, Central Registration Agency (CRA) is the central securities depository



## FINANCIAL SYSTEM OVERVIEW – ADDITIONAL PLAYERS

#### CREDIT BUREAU http://www.kkb.com.tr/eng/index.asp

- Turkey has two credit bureaus: Kredit Kayit Borusu (KKB) or Credit Bureau of Turkey and Credit Registry of the Central Bank..
- KKB was established in the mid-90s and distributes information regarding individuals and legal entities for credit-related purposes. It is owned by 9 banks. It also has 147 corporate members comprising 39 banks (of which 9 are shareholders), 13 consumer financing companies, 74 factoring companies, 17 leasing companies and 3 insurance companies.
- Since 2012, any person or legal entity may request a credit report on an individual provided consent is obtained beforehand.
- The Credit Registry of the Central Bank collects and disseminates information on both individuals and legal entities (such as firms). The information is collected from both bank and non-bank credit institutions.

#### **BORSA ISTANBUL (BIST)**

- BIST is the only exchange entity of Turkey, combing the earlier Istanbul Stock Exchange (ISE) and the Istanbul Gold Exchange (IGE).
- BIST is owned by: 49% Government of Turkey, 41% ISE, 5% Derivatives Exchange of Turkey, 4% IMKB members, 1% IMKB brokers and 0.3% IGE
- There are 320 companies trading on the ISE today.
- http://www.borsaistanbul.com/en/home-page



### NON COLLATERAL BASED MICRO LENDING

Turkish Grameen Microfinance Program (TGMP)

• 61 034 Customers • 90 Branches

• Loan portfolio: \$19.1 mil

• Average loan size \$250

• Average loan size \$195

Maya Foundation

• Not for profit wholesale lender • Interested in working with MFIs on innovative products and services

- Turkey does not have non-collateral based micro-lending sector. The examples above are small and not replicable, given that there is no regulatory structure that supports growth of MFIs.
- In terms of initiatives in digital financial services, TGMP has a partnership with Turkcell, the largest MNO whereby:
  - Donated 400 smart phones for loan officers free of charge. They use these phones to text client's about instalments, collections, and disbursements.
  - In the future, there is a plan to use NFC-enabled mobile system to collect and disburse micro-credit; at the moment, it is all cash-based.
  - Clients receive ATM cards through a Turkcell-Garanti partnership.
  - Built a crowd funding platform to raise money



## **BANKING SECTOR**

Amounts are in USD, exchange rate: 2.5TRY to USD1.00

 Assets: \$78.76 bn Garanti Deposits: \$53.36 bn Assets: \$26.28 bn **TEB**  Deposits: \$16.17 bn Assets: \$53.42 bn ls Deposits: \$95.11 bn

 Branches: 994 • ATMs: 4,152

• POS Terminals: 541,000

Credit Card: 9.4 mn

Total Customers: >13 mn

Active MFS app: 1.55 mn customers

 Active internet banking: 3.26 mn customers

85% of all txns on ADC

Branches: 544 • ATMs: 1,677

• POS Terminals: 120,000

Credit Card: n/a

Total Customers: 5 mn

Active MFS app: 120K customers

Active internet banking: 500K customers

80% of all txns on ADC

Branches: 1,333

• ATMs: 6,290

• POS Terminals: 252,658

Credit Card: 6.5 mn

Total Customers: 16 mn

Active MFS app: 727K customers

· Active internet banking: 2.1 mn customers

80% of all txns on ADC

**ABank** 

Assets: \$31 bn

• Deposits: \$17 bn

• Branches: 73

• ATMs: 154

• POS Terminals: 2,000

Credit Card: n/a

• Total Customers: 100,000

MFS application in development

Fiba

Assets: \$2.67 bn

Deposits: \$1.82 bn

· Branches: 62

• ATMs: 87

POS Terminals: 2,000

· Credit Card: n/a

Total Customers: 47,000 active

Interested, but no immediate plans

## **BANKING SECTOR**

**Seker Bank** 

Assets: \$ 8.47 bn

Deposits; \$5.42 bn

Branches: 312

• ATMs: 563

• POS Terminals: n/a

• 'Producer' Cards\*: 20,516

Total Loan Customers: 300K

· Active MFS app: just started in 2014

Ak Bank

Assets: \$87.48 bn
 Deposits: \$48.92 bn

Branches: 544

• ATMs: 1,677

• POS Terminals: 120,000

· Credit Card: n/a

• Total Customers: 13 mn

Active MFS app: 1.2 mn customers

Active internet banking: 2.1 mn customers

Odea

Assets: \$10.24 bn

Deposits: \$8.4 bn

Branches: 48

ATMs: 58POS Terminals: n/a

Credit Card: 250,000

• Total Customers: 400K

· Active MFS app: Recent, # not available

Active internet banking: 25K

Yapi ve Kredi

Assets: \$78 bn

Deposits: \$43 bn

Branches:1,003

• ATMs: 3,606

• POS Terminals: 456,000

• Credit Card: >10 million

• Total Customers: 9.7 mn

Active MFS app: 530K customers

Active internet banking: 3.2 mn customers

• 83% of all txns on ADC

## **CURRENT TRENDS IN THE RETAIL BANKING SECTOR**

#### RISE OF 'DIRECT' OR BRANCHLESS BANKING

- There is a strong move by most retail banks to move towards a "branchless" banking model whereby accounts are opened and serviced for customers outside the bank branch.
- This is for two reasons: firstly, banks find it more expensive to service customers in branches. Branches are also already congested. Secondly, banks find that customers do not wish to visit bank branches.
- New customers, particularly students and professionals, are comfortable with technology and are able to conduct banking transactions enabled by innovation. Most banks show that up to 80% of transactions happen on alternate delivery channels including mobile, internet, and ATM-enabled banking.
- mPara, ING Direct: all examples of bank products which are being delivered through this new "branchless service."
   Eventually, customers will be able to apply for a loan via ATM, web, & m-banking.
- Notably, Odeabank a relatively new entrant to the Turkish banking sector is proposing a radical change to branch
  banking through its automatic branches which will make dramatic use of technology. They envision their branches as
  self-operated kiosks, with ATMs, and video interface to speak with customer service representatives
- Some of the technology-enabled functions in Odea branches include:
  - Mobile application to find nearby branches and get a customer queue number
  - Smart billboards with ads for financial products outside their branches. These billboards have technology for recognizing the age and gender of the person standing in front of them and provide advertisements according to this information.
  - Voice and video calls with contact center representatives who provide financial advice 24/7
  - Touchscreen devices providing information, games, and other applications while clients wait



### CURRENT TRENDS IN THE RETAIL BANKING SECTOR

#### BANKS OFFER MOBILE BANKING AS PART OF THEIR SERVICES

- Banks offer mobile banking as part of their product offering. It is offered as an additional channel to access a bank's products and services. However, the offering is meant for affluent customers since m-banking aps are targeted towards owners of smartphones, rather than feature phones.
- Smartphones are on the rise in Turkey −30% of mobile phone subscribers have smartphones. It is expected that in 10 years, there will be 100% smartphone penetration.
- Current services on offer is skewed towards those with smart phones, not necessarily towards under-served segments.
- However, no bank has unlocked the potential for mobile financial services and banks are looking for solutions to dramatically drive customers towards mobile financial services.



### **BANKING SECTOR**

BKM Express (Bankalararası Kart Merkezi or Interbank Card Center)

- Run by BKM, the inter-bank switch for debit and credit card payments
- BKM Express allows you to pay online without revealing credit card information; facilitates ecommerce
- The credit card is integrated with your BKM express account
- There are approximately 15 banks participating in this & 500 merchants
- · Advantage: online security, no need to reveal credit information online
- Has launched a mobile application as well with very limited acceptance at retail agents.
- Significant proportion of e-business happens via BKM Express
- Mobile app has an android and iOs platform
- BKM Express is a powerful payment instrument, given the network of participating banks
- E-commerce is growing fast in Turkey, showing upwards of 30% growth YoY.
- BKM Express is keen to focus on other specific instances and develop a value propositions for very specific segments: e.g.: customer who does not wish to get out of the car to pay for petrol, tie-ups with municipalities to channel payments for public transport, among others.
- Mobile banking still to take off for payments at retail outlets helped by the fact that 30% of phones in Turkey
  are smart phones and the proportion is increasing



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## **MOBILE NETWORK OPERATORS**

- The telecom sector has three major players Turkcell, Vodafone, and Avea. Market shares have tended to stay the same over time.
- However, revenue share from data shows increase over time, demonstrating usage of phone for internet access in the Turkish market
- Smart phone penetration is at 30% and market sources indicate that this is expected to grow to 100% in 10 years.



- Owner Supervisory Board, Privately Owned by Cukurova Holdings
- Middle of ownership dispute
- 34.3 mil customers
- Market share: 47.6%

#### **PARTNERSHIPS**

- Garanti Bank
- Ak Bank
- TGMP



- Owner Vodafone
- Managed by Zain Telecommunications
- 21.1 mil customers
- · Market share: 29.3%

#### **PARTNERSHIPS**

- Tiaxa
- PTT (postal system)
- ING Bank
- Visa



- Owner Türk Telekom, Türkiye İş Bankasi
- 16.6 mil customers
- Market share: 54.5%
- None so far, but planned



## MOBILE NETWORK OPERATOR: MARKET DESCRIPTION

#### **CURRENT SITUATION**

- 69 million mobile subscribers corresponding to a 92.96% penetration rate of the total population.
- Mobile penetration rate exceeds 100% when the 0-9 age group population is excluded.
- 30% of mobile phones are Smart phones, the expectation is that smart phones will be an ever increasing proportion of the total number of mobile phones in circulation.
- Usage of data on mobile phones is on the rise
- Mobile telephony reaches all financially excluded groups in Turkey including women and low income individuals

#### TRENDS/ EXPECTATIONS

- Telecoms will allow banks to deepen their outreach into unbanked households.
- While banks have merchant network, the MNOs have the outreach to people.
- The new law standardizes all current e-money issuers in the market including MNOs.
- By the new rule, although MNOs can issue e-money, they still need to partner with a bank to provide anything other than payment services such as deposits, credit, etc.



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**Mobile Financial Services Landscape** 



## MOBILE NETWORK OPERATOR: DISTRIBUTION NETWORK

#### MNO Agent structure

#### **MNO** owned stores

- Turkcell Owned stores:1,200
- Vodafone owned stores: 1,200
- Avea owned stores: unknown

#### **Sub-dealers**

- •Turkcell sub-dealers:3,000
- •Vodafone sub-dealers: 15,000
- Avea sub-dealers: unknown

#### **Semi-exclusive dealers:**

- •Turkcell sub-dealers:10,000
- •Vodafone sub-dealers: 6,000
- Avea sub-dealer: unknown

#### **Turkish Postal System**

•PTT offices: 4,400

If mobile operator facilitated agency banking were to be implemented, these stores could be the initial targets for such an implementation.



## PAYMENT SERVICE PROVIDERS

#### The leading direct carrier billing company Mikro Odeme of Turkey. They provide the platform for the following services: enabling MNO **Mikro**Ödeme clients to pay via SMS, enabling pre-paid cards, and enabling credit card payment via SMS. lyzico Provides a platform to let e-commerce sites and other apps easily accept online payments. Currently the leader iyzico in its sector. IFC is in the process of making an investment in lyzico. Provides solutions to meet chip and payment technologies mandated by EMV standards.

Fatura Matic



Bill payment service provider including utility bills, mobile recharge, internet, cable, and others.



## PAYMENT SERVICE PROVIDERS

**PayU** 

Payu

An international payment service provider that is currently operating in 16 countries worldwide. PayU Turkey started in 2011; its goal is to become one of Turkey's leading payment solutions providers for merchants in e-commerce.

iPara



Turkish payment services provider. iPara offers an e-wallet service for customers. Merchants who are part of the network can accept payments from their customers. iPara offers several features such as enhanced security, charge protection, and services whereby the buyer can authorize the transfer of funds to the sellers once they have received the goods they bought.

#### **Paymentwall**

📤 Paymentwall

US-based payment service provider who has offices in Turkey. Provides the following payments services: mobile carrier billing through SMS, online cash payment through pre-paid card, and a system through which merchants can accept payments through 100 local different payment options.

#### Skrill



A global payment service provider providing payment solutions such as money transfer, payment gateway solutions and online payment. Skrill's product includes Skrill's Digital Wallet service that lets customers pay online securely, transfer funds and send money to anyone with an email address to over 200 countries and 40 currencies.

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## Mobile Financial Services Landscape



## **BANK MFS LANDSCAPE**

 Banks offer mobile banking as an alternate way to access bank accounts. As agent banking is not yet an option from a regulatory perspective, transfers and payments continue to predominate.

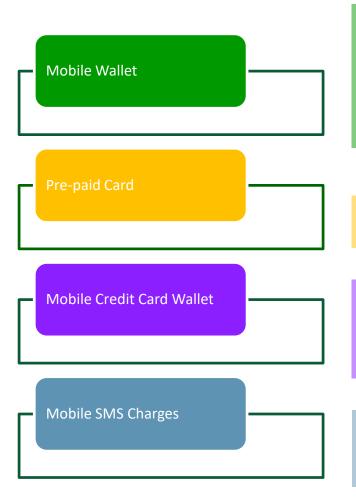
	Internet Banking	Mobile Banking
ABank	✓	✓
HSBC	✓	✓
Garanti	✓	✓
İş Bankası	✓	✓
Akbank	✓	✓
Yapı Kredi	✓	✓
Denizbank	✓	<b>√</b>
Finansbank	✓	✓
ТЕВ	✓	✓
Şekerbank	✓	✓
Tekstil	✓	✓

Internet Banking (2014 3rd Quarter)	Number of Txns (000)	Txn Ratio	Txn Volume (in millions)	Volume Ratio
Money Transfers	63,281	46%	488,705	70%
Payments	48,748	35%	30,390	4%
Investment Txns	10,759	8%	135,308	19%
Credit Card Txns	11,711	<b>9</b> %	16,393	2%
Other Financial Txns	2890	2%	27,374	4%
Total	137,389	100%	698,170	100%

Mobile Banking (2014 3rd Quarter)	Number of Txns (000)	Txn Ratio	Txn Volume (in millions)	Volume Ratio
Money Transfers	17,528	37%	42,851	<b>79</b> %
Payments	15,361	33%	1,933	4%
Investment Txns	6,051	13%	1,353	3%
Credit Card Transactions	6,565	14%	5,186	10%
Other Financial Txns	1,335	3%	2,671	5%
Total	46,841	100%	53,993	100%

## **MOBILE NETWORK OPERATOR: DFS PRODUCT MIX**

MNOs cannot offer any products other than payments and transfers. Thus, depends largely on their merchant acquisition strategy.



- Mobile wallet which provides a store of value and can be used to pay for goods and services
- Although P2P transfer are technically possible, has not been introduced in the market yet.
- Turkcell (This initiative has been temporarily discontinued)
- Vodafone
- Pre-paid card with user's phone number
- Turkcell, Vodafone, Avea
- Mobile Card Wallet: An application which stores all card debit, credit, and pre-paid
- Enables various payment transactions without the physical card
- Turkcell, Vodafone
- Payment via SMS
- Charged to bill for post-paid and to balance for pre-paid
- Turkcell, Vodafone, Avea

