

Indian Retail Payment Initiatives Serving a Billion People

Chicago Payments Symposium



भारतीय रिज़र्व बैंक
RESERVE BANK OF INDIA

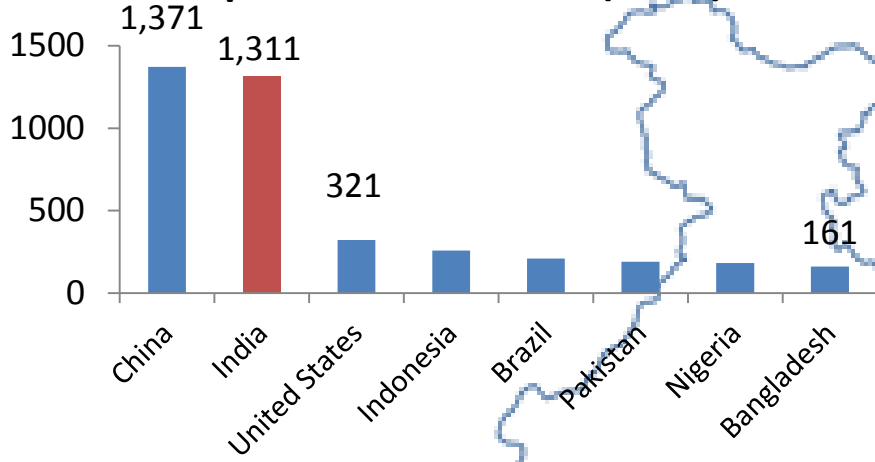
Nanda Dave

October 12, 2016

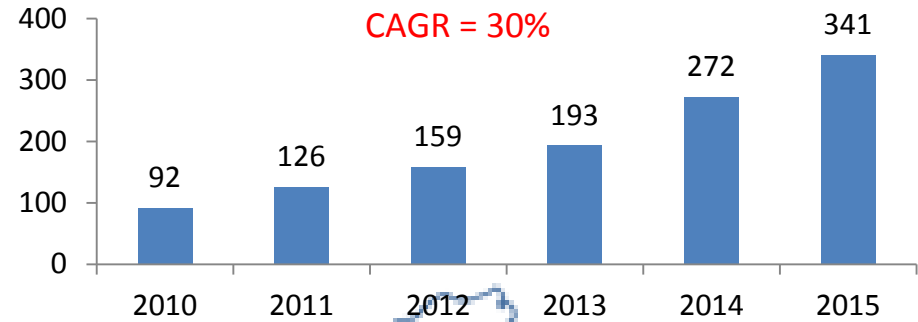


India at a glance

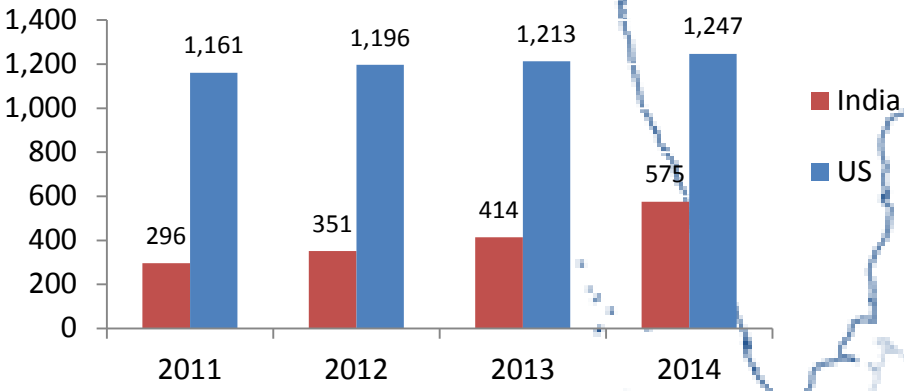
Population in million (2015)



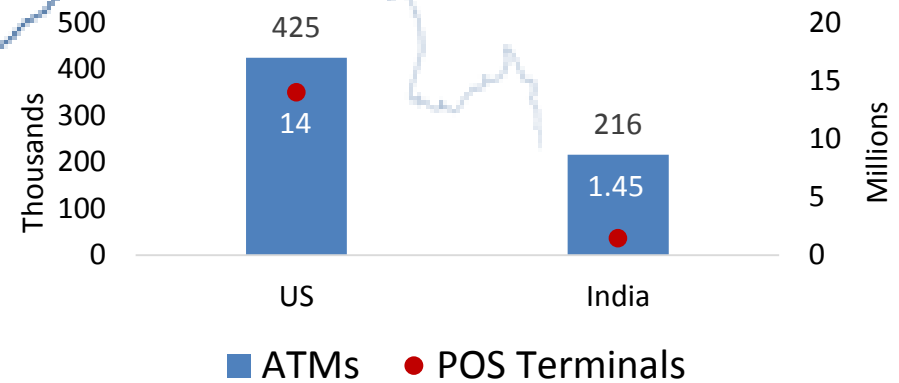
Internet Users in India (in Million)



Credit and Debit Cards Issued (in million)



ATM and POS Comparison





Reserve Bank of India

Main Functions

Monetary Authority

Regulator and Supervisor of financial system

Regulator and Supervisor of
Payment and Settlement Systems

Manager of Foreign Exchange

Issuer of Currency

Developmental Role

Banker to Government

Banker to Banks





Payments Vision 2018

Building best of class payment and settlement systems for a 'less cash' India through responsive regulation, robust infrastructure, effective supervision and customer centricity

Key Drivers

Financial Inclusion

Move to a 'Less Cash' economy

Demand for faster payments

Interoperability

Integration of government payments

Key Enablers

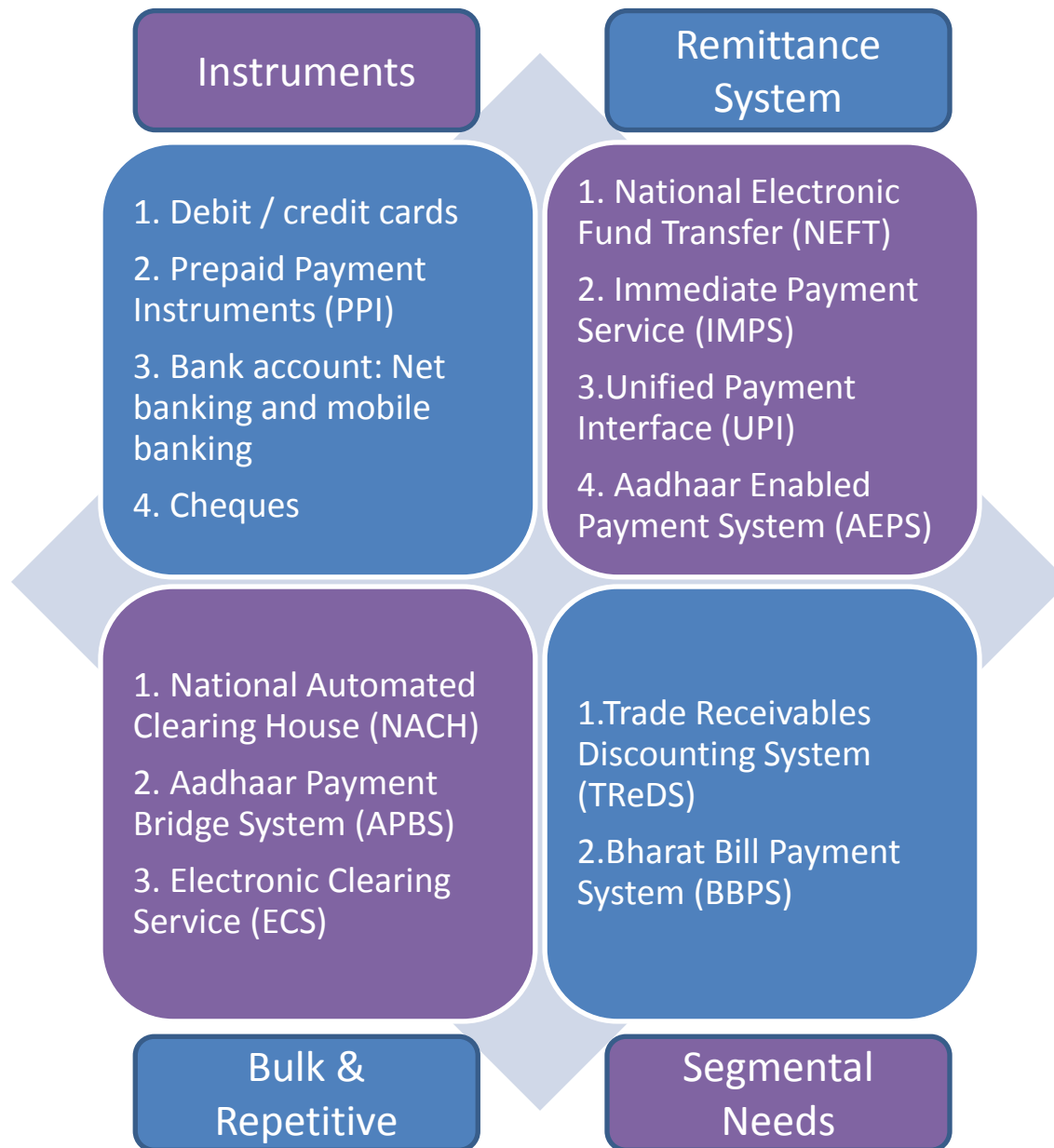
Government Push

Smart phone Penetration

Widespread Innovation



Retail Payments Ecosystem





Key Initiatives

Card Payments

Aadhaar (Biometric Identity) Based Payments

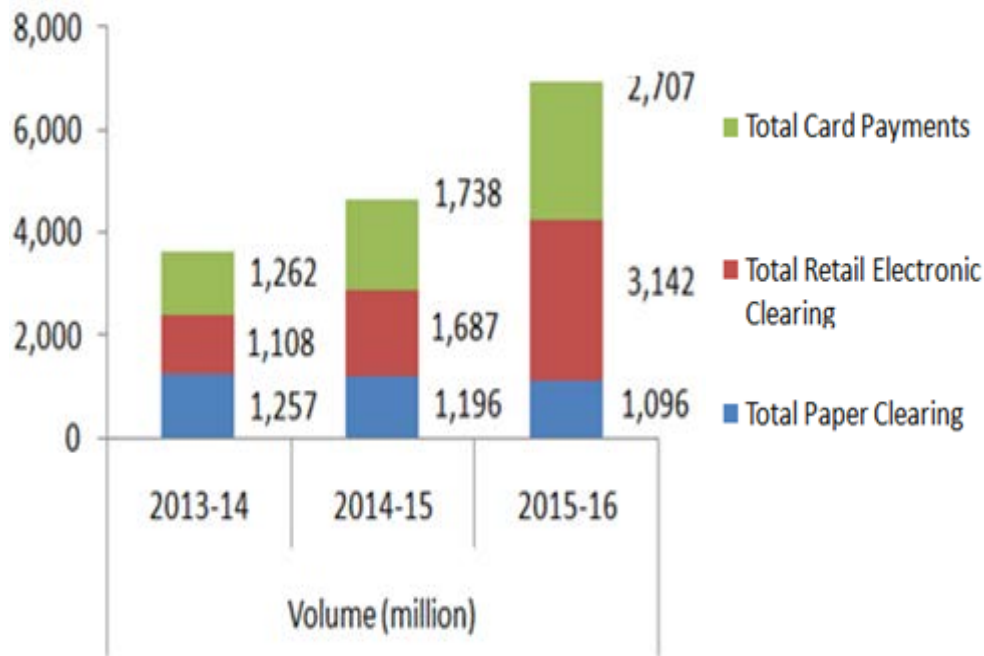
Mobile Payments

Fast Payments

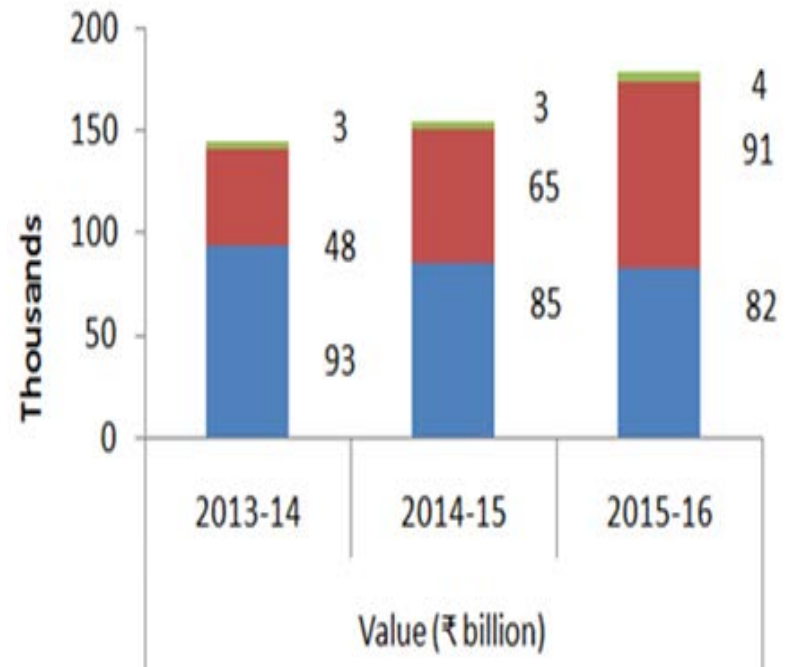


Electronic Retail Payments

Transaction Volume



Payment Value



Card Payments

Aadhaar

Mobile Payments

Fast Payments



Securing Card Transactions



2015 onwards

- NFC payments
- EMV Chip and PIN cards (2018)
- EMV processing at ATMs (2017)

2012 - 2014

- PIN@POS for Debit cards
- EMV processing at POS

2009 - 2011

- Online Alerts
- AFA for CP/CNP
- PIN validation at ATMs

- Debit Cards: 688 million
- Credit cards: 26 million

Card Payments

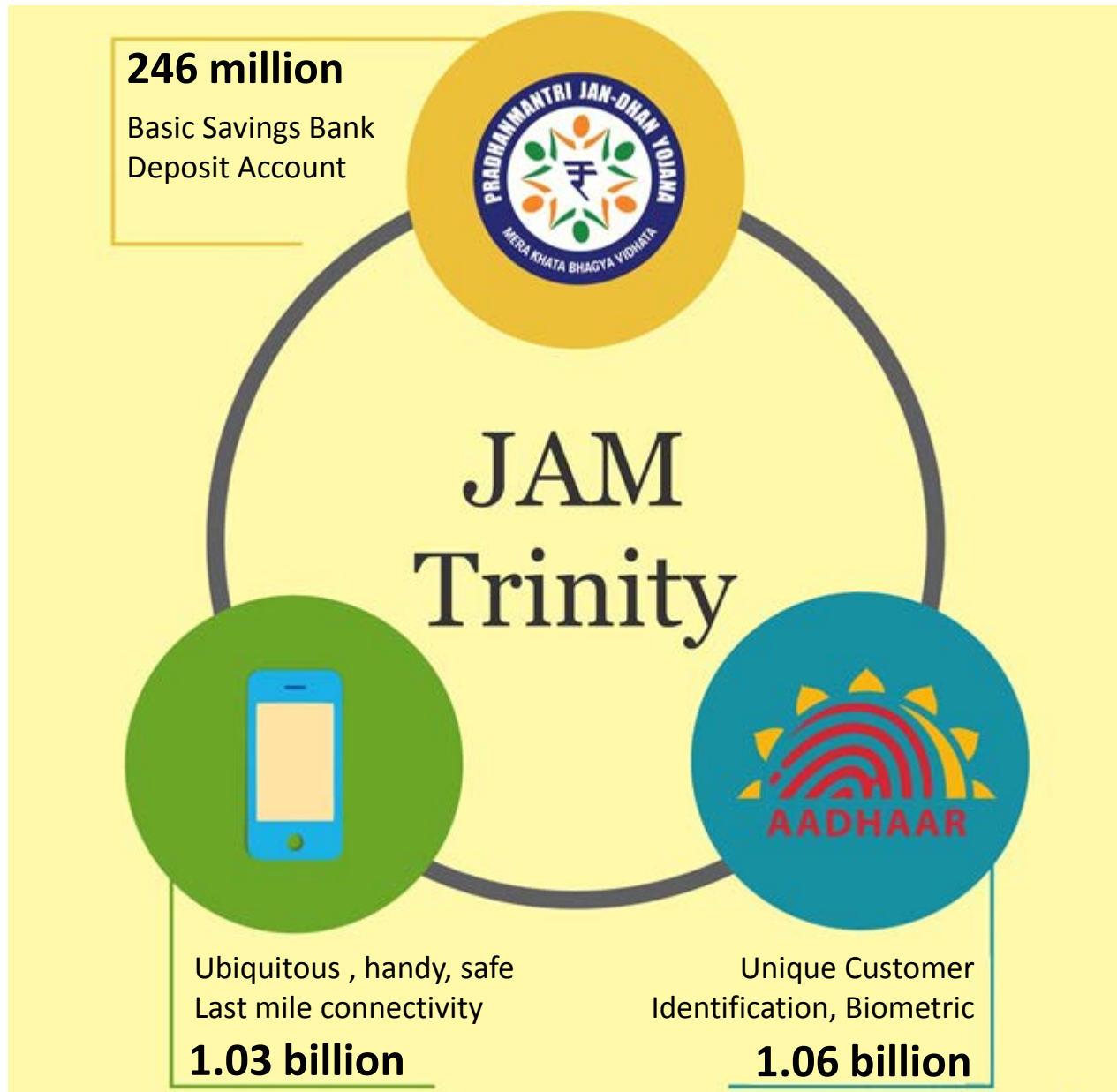
Aadhaar

Mobile Payments

Fast Payments

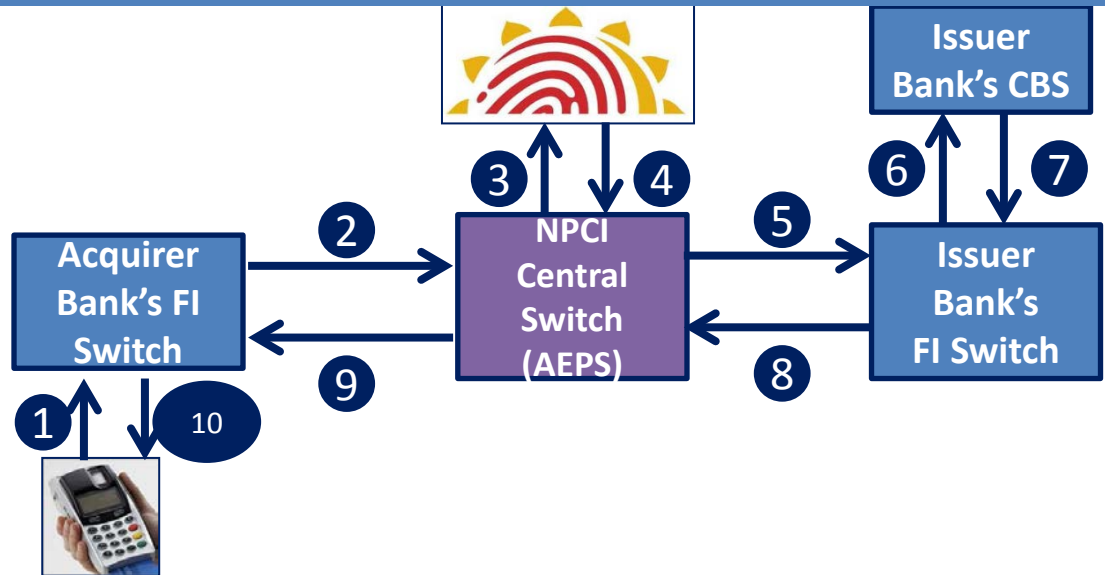


JAM Trinity

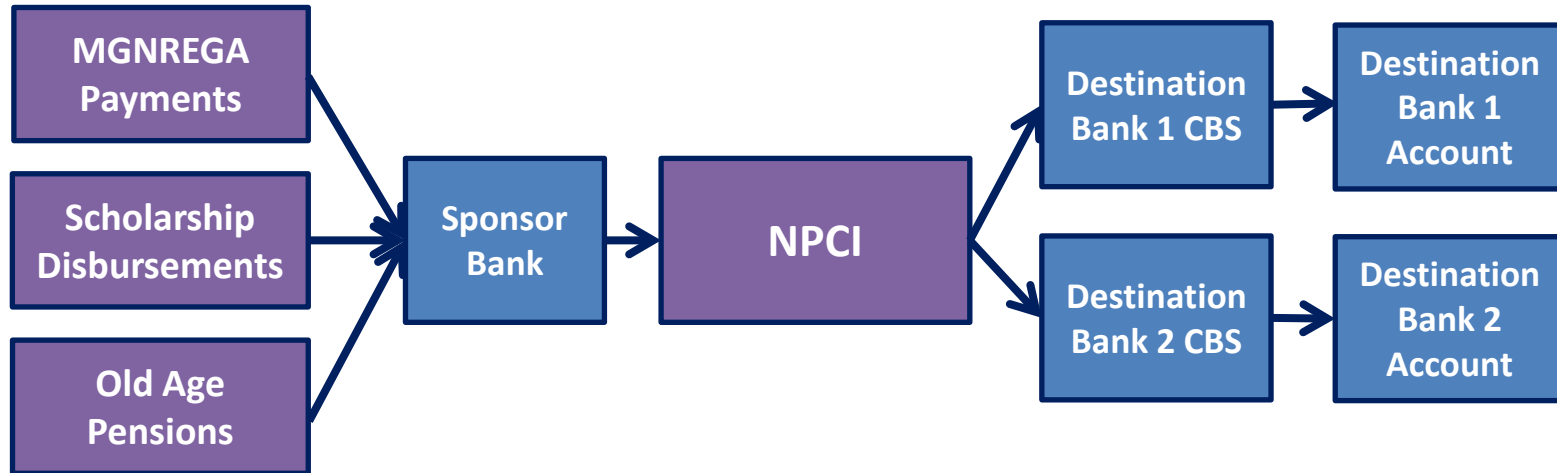




Aadhaar – Unique Biometric Identity



Direct Benefit Transfer



Card Payments

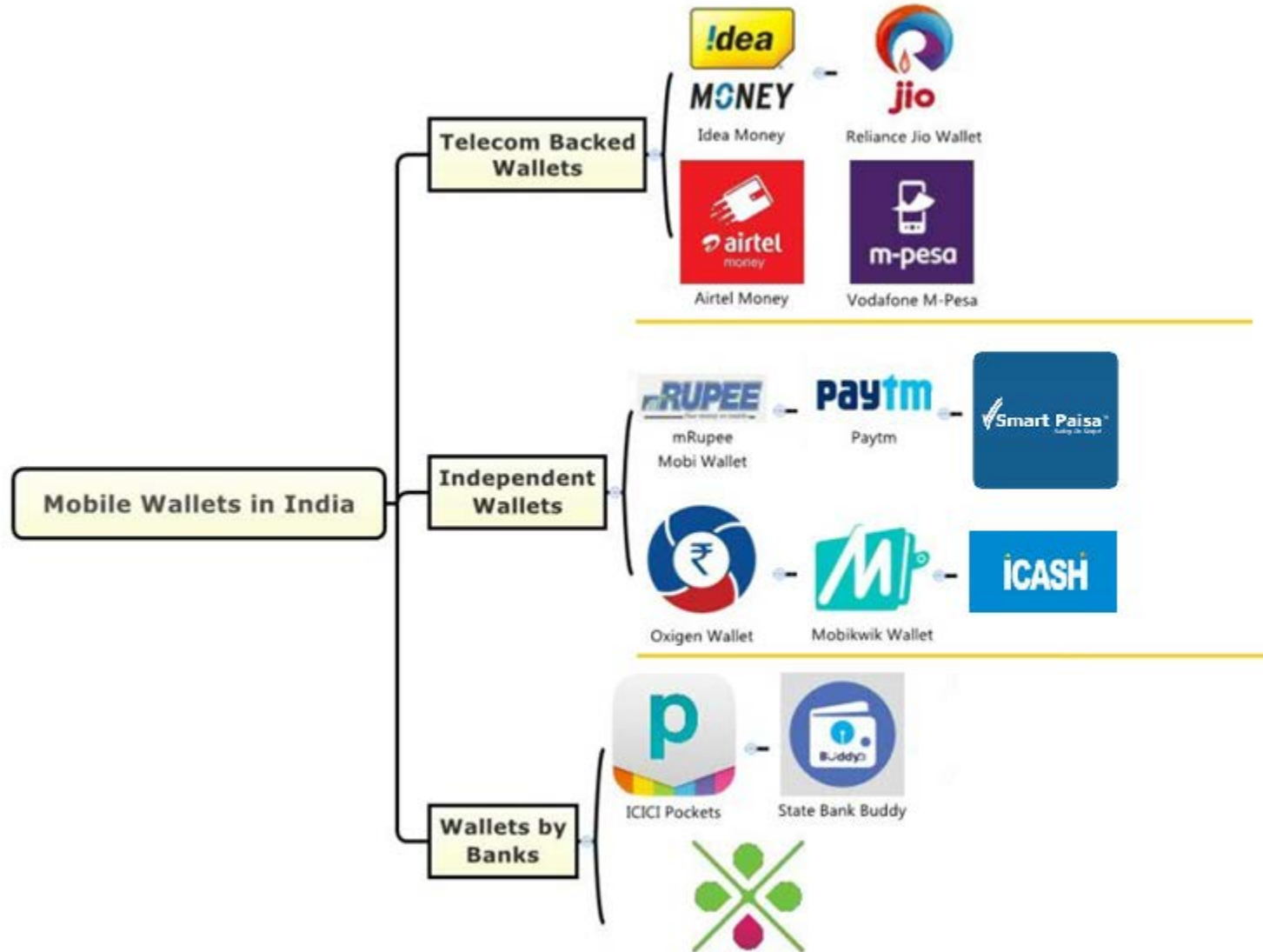
Aadhaar

Mobile Payments

Fast Payments



Mobile Wallets in India



Card Payments

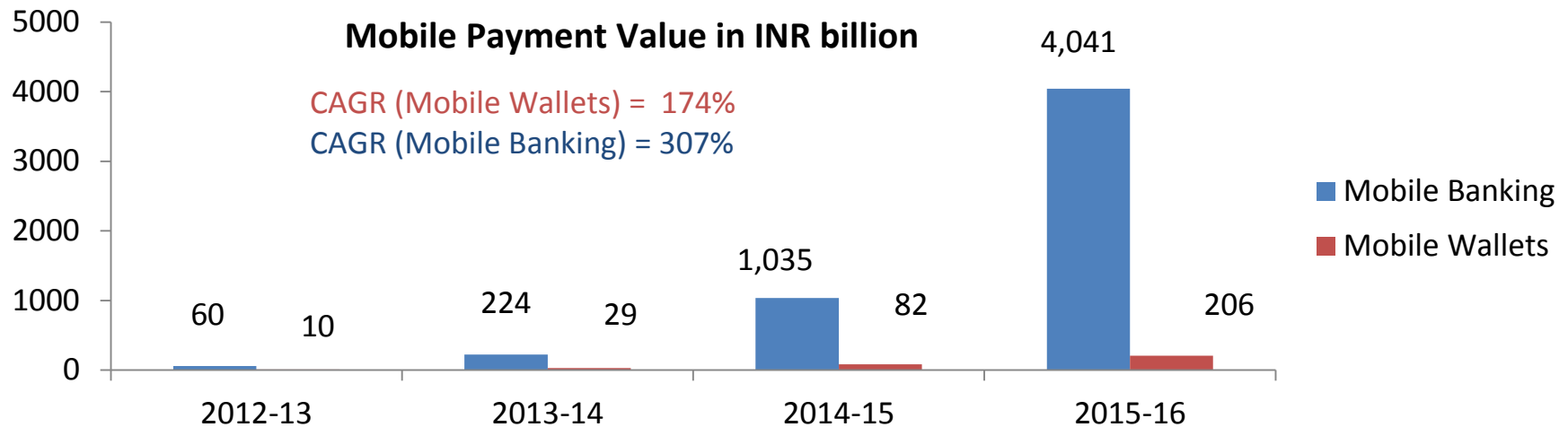
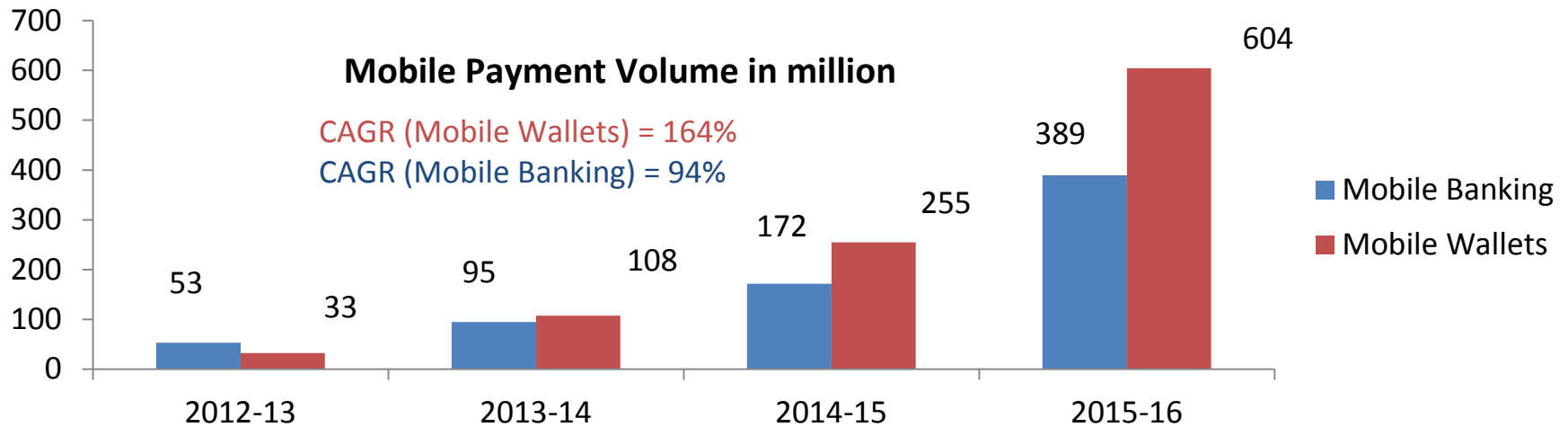
Aadhaar

Mobile Payments

Fast Payments



Mobile Payments at a glance



Card Payments

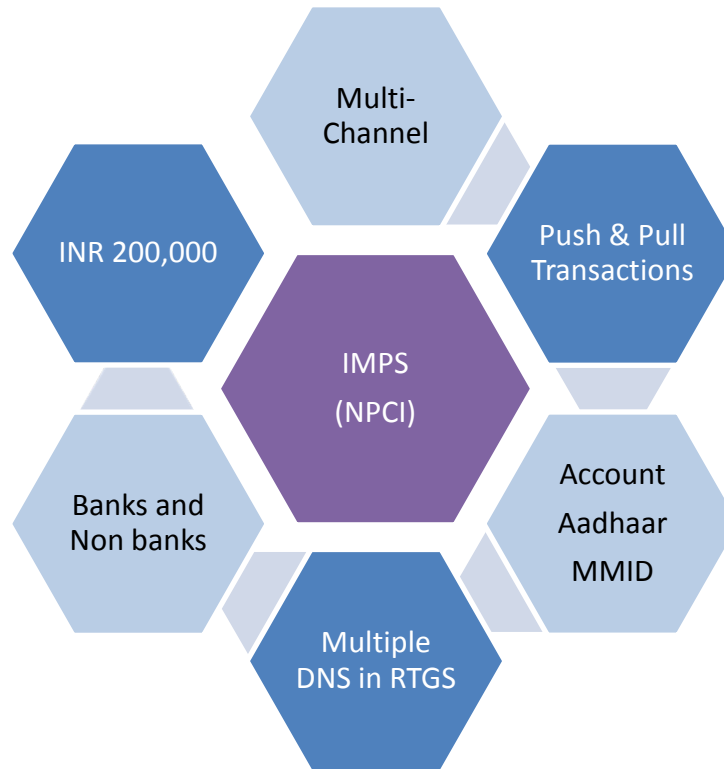
Aadhaar

Mobile Payments

Fast Payments



Fast Payments System: IMPS



Card Payments

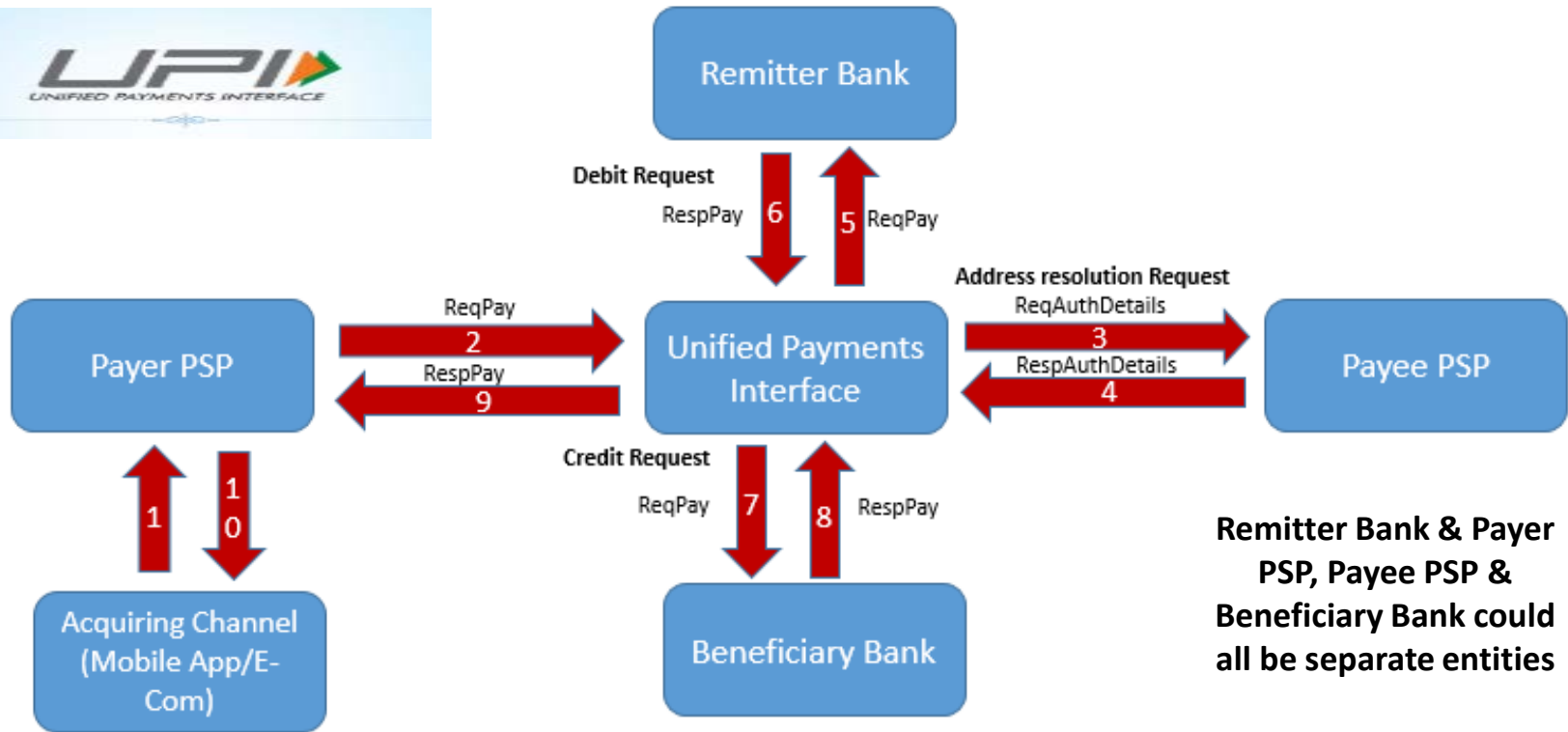
Aadhaar

Mobile Payments

Fast Payments



Unified Payment Interface (UPI)



Virtual Address

Push & Pull Payments

Interoperable Merchant payments

Rides on IMPS (24 x 7)

Card Payments

Aadhaar

Mobile Payments

Fast Payments



The Way Forward

Increasing Acceptance Infrastructure

Leveraging the mobile

Enhanced use of Aadhaar in payments

Creating Customer awareness

Cyber Security



Thank You!

You may reach out to me at:

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BBPS: Bharat Bill Payments System

Single Window for anywhere anytime bill payment

Offers accessibility, convenience and enhances consumer trust

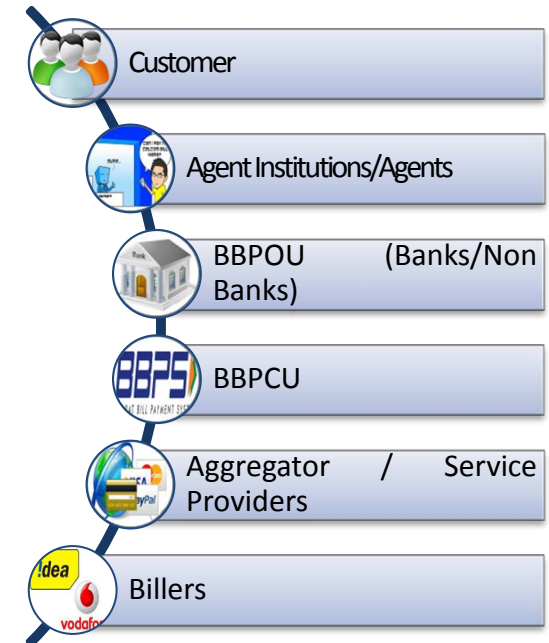
“Anytime anywhere” interoperable Bill Payment System

Will set common standards across the country both for ON-US and OFF-US Bills

Allows Multiple Payment Modes

Instant and Verifiable Confirmation of Payments

System Participants





*99# NUUP – National Unified USSD



- Inter-operable mobile banking service on USSD (Unstructured Supplementary Services Data) platform
- Banking customers dial a common number *99# to access an interactive menu on the mobile – irrespective of telco or bank
- Works even without internet.
- Works on basic phone as well as smartphone.
- All 11 telcos in the country are connected to the platform
- Service is offered in 11 regional languages and English
- Transaction value limited to INR 5000
- Financial and Non-financial transactions
- 4.33 million transactions in September, 2016



Cheque Clearing Systems

85 – 90 million
Cheques per
month

CTS
(Three grids)

Electronic
Cheque Clearing
(Over 1200)

T+1 Clearing

CTS 2010
standards

National
Archival for
Images

Positive Pay

Bank's Logo
Bank's Details
Bank's Address
IFSC Code

Bank's Logo
in UV

Micro Lettering

DDMMYYYY

Pay या धारक को or Order

Rupees रुपये

4.9 Cheque Printer Details / CTS-2010

अदा करें ₹

Ac. No. 012345678900000 ← Printing of Account No. field

Void Pantograph

SPECIMEN
"CTS-2010"

Signature Space indicator → Please sign above

⑈0000??9⑈ 0000000000 ⑆⑆ 0000000⑈ ⑆0

Cheque Printer Details / CTS-2010