भारतीय राष्ट्रीय भुगतान निगम

NATIONAL PAYMENTS CORPORATION OF INDIA

NPCI Vision

To be the best payments network globally

NPCI Mission

To touch every Indian with one or other Payments Services

NPCI is a **not-for-profit company** building a robust, scalable & affordable payments infrastructure for India

An Umbrella Organization for all retail payments in India. Incorporated in the year 2008

NPCI was set up under the guidance and support of RBI & IBA

Presently **56 banks** are shareholders of NPCI out of which there are

19	Public Sector Banks
17	Private Sector Banks
3	Foreign Banks
7	Multi State Co-op Banks
10	Regional Rural Banks

RBI Driving Innovation

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- **Vision paper** on payments & settlement systems (2016-18)
- **Regulatory Sandbox Guidelines**
- **New banks** licensing - Payment Banks, Small Banks, PPIs, etc.
- **P2P Lending** draft regulations
- **Paperless KYC** regulations, **cardless payments**
- Approving **interoperability Specifications and Banking Ombudsman**
- Approving **all new payment systems**
- New **Account Aggregator** guidelines to unlock data

NPCI Products for Electronical Txns

Business Types	Business Channels	NPCI Products
C2B	Kirana Stores, Gas Stations, Mobile Recharge Outlets	RuPay, BHIM, UPI, IMPS, AEPS, BHARAT BILLPAY, *99#
B2B	Retailer to supplier/ distributor	RuPay, BHIM, UPI, IMPS, BHARAT BILLPAY, NACH, *99#
P2P	Remittances	BHIM, UPI, IMPS, *99#
B2C	Salaries	NACH
P2G	Tax, Public Transit Public Distribution Services Utility payments	RuPay, BHIM, IMPS, BHARAT BILLPAY, NETC, NACH, CTS, *99#
G2P	DBT, Wages Social Security Scheme	NACH, CTS

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Milestone of Product Developments

2010
- NFS – NATIONAL FINANCIAL SWITCH
- IMPS – IMMEDIATE PAYMENT SERVICE

2011
- CTS – CHEQUE TRUNCATION SYSTEM
- RuPay ATM & POS

2012
- NACH – NATIONAL AUTOMATED CLEARING HOUSE

2013
- APBS – AADHAAR PAYMENT BRIDGE SYSTEM
- AEPS – AADHAAR ENABLED PAYMENT SYSTEM
- RuPay eCOM

2014
- RuPay Platinum
- *99#

2015
- RuPay International

2016
- UPI – UNIFIED PAYMENTS INTERFACE
- BHIM
- NFS – NATIONAL FINANCIAL SWITCH Interoperable Cash Deposit
- NETC
- RuPay EMV

2017
- RuPay EMV & NCMC
- BHIM AADHAAR
- BHARATQR
- BHARAT BILLPAY

2018
- UPI 2.0 – UNIFIED PAYMENTS INTERFACE

2019
- RuPay NCMC Delhi Metro (Pilot)

RuPay

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Banks Issuing RuPay Cards [including Co-op Banks & RRBs] **1155+**

Banks Issuing Platinum Debit Cards **75+**

Banks Issuing International Platinum Debit Cards **40+**

Total no. of RuPay cards as on March'19 **580 + Mn**

2.5 Lac+ Total number of Credit Cards as of March'19

Banks Issuing RuPay Credit Cards **15**

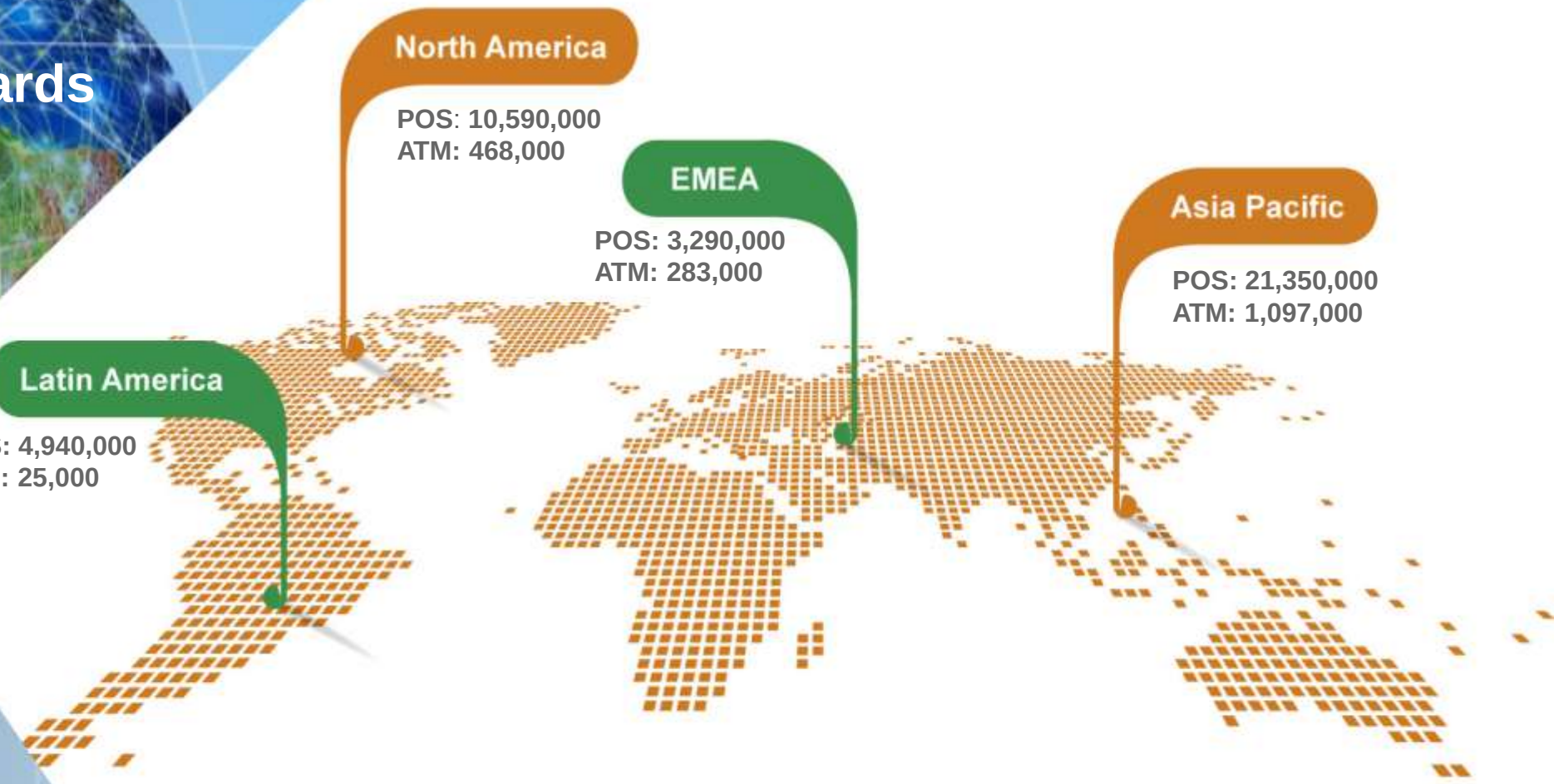
85+ Mn Total no. of cards as on March'19 by Cooperative & RRB Banks

56 Mn POS Transactions in March'19

54 Mn eCOM Transactions in March'19

213 Mn ATM Transactions in March'19

Global Acceptance of RuPay Global Cards



743 INTERNATIONAL LOUNGES ACCESSIBLE ACROSS 123 COUNTRIES

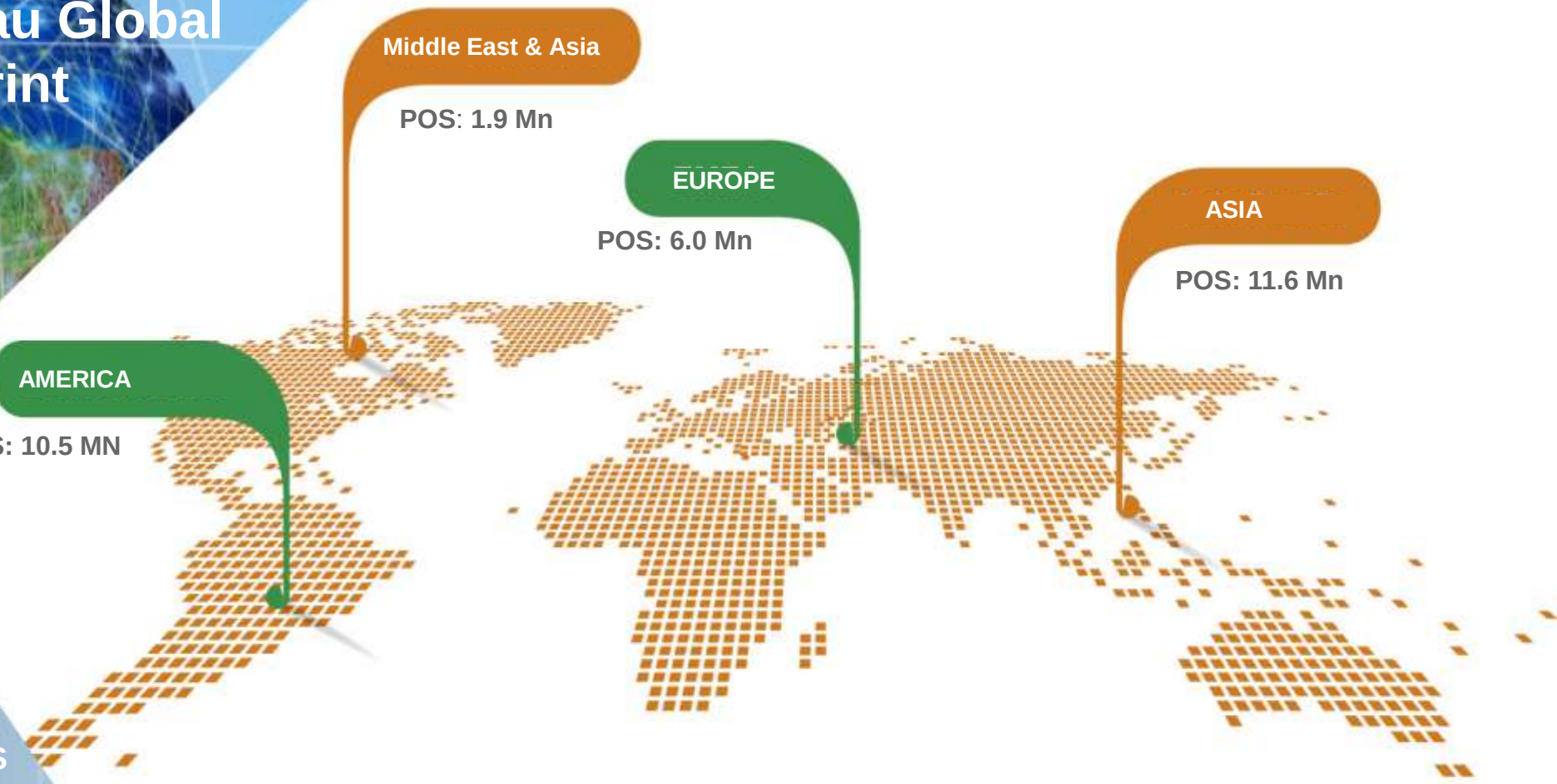
40.01MM+ GLOBAL OUTLETS

1.8MM+ GLOBAL ATMS

190 COUNTRIES / TERRITORIES

Note: Areas shaded in dark orange denotes countries/territories with transactions in the last year for Discover Global Network; this does not confirm interoperability. Totals reflect number of merchant outlets accepting through December 2016

Japan Credit Bureau Global Acceptance Footprint



30 MN+ GLOBAL OUTLETS

190 COUNTRIES / TERRITORIES

RuPay

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Strategic partnership with JCB & CUP in India

Total FTAs in India in 2016 - 8.80 million

8 Asian countries are in top 15, contributing around 31% of the Foreign Tourist Arrivals to India, Japan & China together contribute around 5% of the total FTAs to India

JCB	UnionPay 银联
111 Mn+ Cardholders globally 15 million cards issued outside Japan	About 6.5 Billion Cardholders globally, 35 million cards issued in around 40 countries/regions outside China
0.2 milion+ FTAs from Japan to India in 2016	0.25 million+ FTAs from China to India in 2016
Over all transaction volume of JCB cards was $236 billion in the year 2016	UPI's average transaction value is between $600-$800 (POS) & $200-$300 (ATM)
Transactions for the year 2017-18 in India at ATM:1,164 & at POS: 2,518	Transactions for the year 2017-18 in India at ATM:33,570 & at POS: 1,675

Contactless

ONE NATION. ONE CARD.

BHARATQR

National Payments Corporation of India collaborated jointly with the ICS (International Card Schemes) to develop the common standard for QR code. The genesis of this strategic initiative is based to drive interoperability among QR based payment products of different networks.

Acquirer Banks (34)

Top 5 Banks – HDFC Bank, Equitas Small Finance Bank, RBL Bank, Axis Bank and SBI

Issuer Banks (32)

Top 5 Banks - Canara Bank, HDFC Bank, SBI, City Union and Yes Bank

March'19 Volume of Transactions : 2,926

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- Map multiple bank accounts into one single UPI App
- Both Collect & Pay options for Instant Interbank Payments
- Pay through secured Payment Address (UPI ID)
- Single click 2 Factor Authentication for enhanced security
- QR Code Scan & Pay
- Merchant Payments for both eCom & POS spends
- Customer Cashback Scheme
- Over 50+ UPI Apps and BHIM available in Google Play and/or App Store

BHIM | UPI
BHARAT INTERFACE FOR MONEY | UNIFIED PAYMENTS INTERFACE

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142 Banks on board.

BHIM App and other 49 UPI Apps on store.

More to follow soon...Download Now

BHIM | UPI
BHARAT INTERFACE FOR MONEY | UNIFIED PAYMENTS INTERFACE

Major Merchants live as on date

BILLERS

BSES, CESC, Jio, MAHANAGAR GAS, MTNL, GROFERS, TATA POWER, MAHAVITARAN, RELIANCE Energy

RETAIL

MOTHER DAIRY, METRO, Apollo, McDonald's, more, Haldiram's, Café Coffee Day, spencer's, DMart, Reliance, BIG BAZAAR, KFC, lifestyle

MISCELLANEOUS

Justdial, DREAM11, TATA Sky, Thyrocare, rechargeitnow

LIFE INSURANCE

bharti AXA, ICICI PRUDENTIAL, SBI Life, IDBI FEDERAL, Edelweiss Tokio Life, pnb MetLife, BAJAJ Allianz, HDFC Life, LIC, MAX LIFE

LIFESTYLE & SHOPPING

Myntra, BIBA, JABONG, spencer's, SHOPCLUES, VIP, METRO SHOES, NYKAA, croma, Flipkart

ECOM

FreshMenu, zomato, SWIGGY, foodpanda, Bewakoof, GROFERS, PharmEasy

GENERAL INSURANCE

HDFC ERGO, TATA AIG INSURANCE, BAJAJ Allianz, IFFCO-TOKIO, FUTURE GENERALI, ICICI Lombard, RELIANCE GENERAL INSURANCE, SBI General

TRAVEL & ENTERTAINMENT

OYO, yatra.com, PVR CINEMAS, make my trip, IRCTC, Cinépolis, redBus, OLA, OYO, ADLABS, abhibus, Uber, goibibo, bookmyshow, cleartrip

EDUCATION & DONATION

MAKE A DIFFERENCE, AMNESTY INTERNATIONAL, cry.org, HelpAge India, Akshaya Patra, CDAC

BHIM BHARAT INTERFACE FOR MONEY

UPI UNIFIED PAYMENTS INTERFACE

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UPI Mandate- with one time execution and block functionality

Overdraft facility now on UPI

Signed Intent & QR

Invoice in the Inbox (view and pay)

Foreign Inward Remittance enabled on UPI

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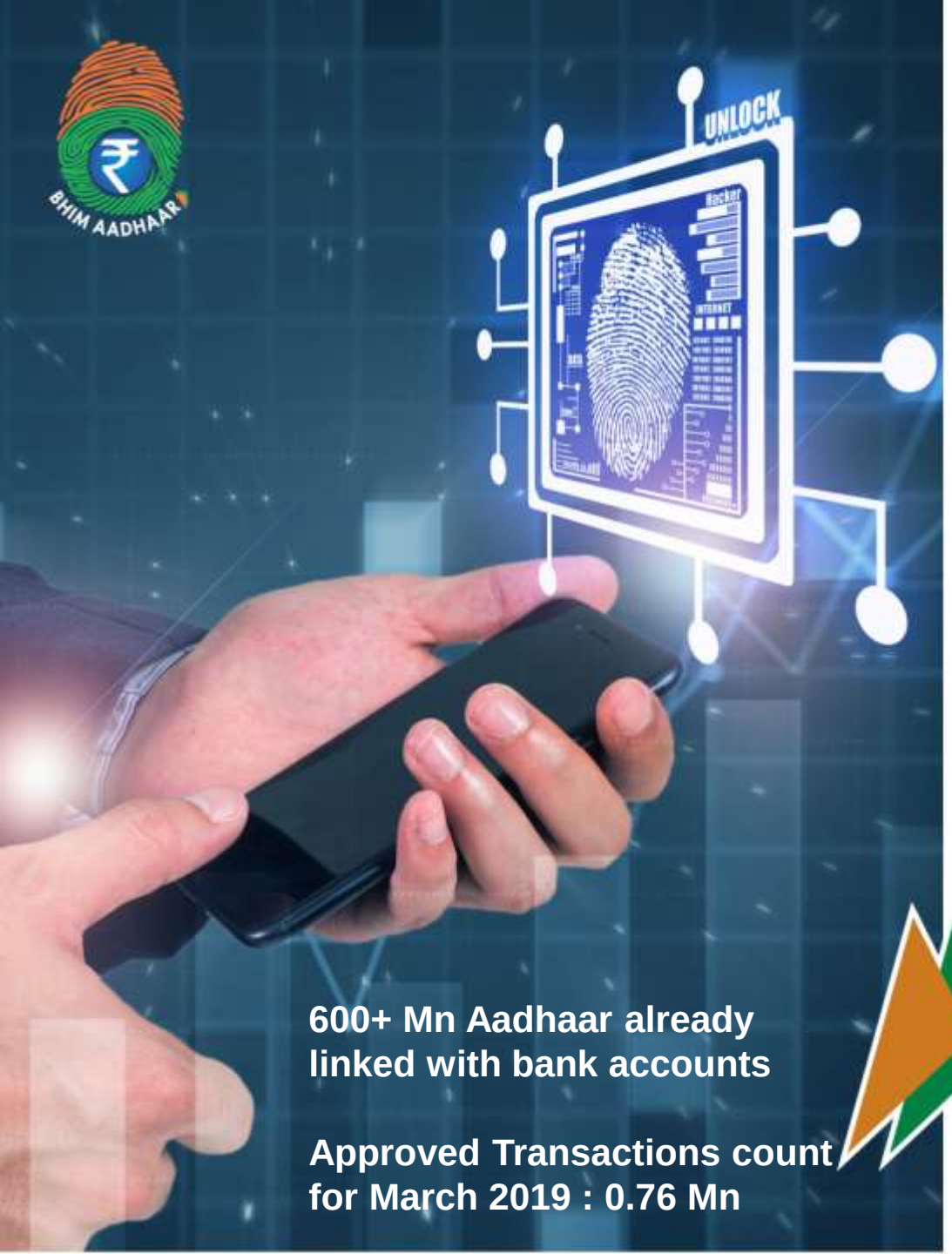
- Instant fund transfer using UPI ID or A/C No. & IFSC or Mobile No.
- Works without Internet – Uses voice connectivity
- Accessible through a common code *99# across all GSM Telecom Operators
- No additional charges while roaming for using the service
- Round the clock availability, even on weekends & bank holidays
- No need to install any app in mobile handset for accessing this service
- Additional channel for banking and a key catalyst for financial inclusion
- Available in 13 different languages of your choice



600+ Mn Aadhaar already linked with bank accounts

Approved Transactions count for March 2019 : 0.76 Mn

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ONE KEY Initiative – BHIM AADHAAR

- Merchant to accept payment by authenticating the customer's biometrics
- Valid Aadhaar number and having an Aadhaar linked bank account may use BHIM Aadhaar
- Merchant's existing mobile phone can be enabled for accepting BHIM Aadhaar Pay transactions
- 1.15 billion Aadhaar holders can pay for purchase of goods/services by using biometric
- Customers can transact without holding his/her mobile phone

AEPS
AADHAAR ENABLED PAYMENT SYSTEM

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FINANCIAL

- CASH WITHDRAWAL
- CASH DEPOSIT
- AADHAAR TO AADHAAR FUND TRANSFER

NON-FINANCIAL

- BALANCE ENQUIRY
- DEMOGRAPHIC AUTHENTICATION
- BFD – BEST FINGER DETECTION
- E-KYC
- Mini Statement Service

1.62 Billion approved transactions FY 2018-19

1.96 Billion approved transactions in FY 2018-19

121 Mn On us in March 2019

63 Mn Off us in March 2019

SERVICES OFFERED

NETC
NATIONAL ELECTRONIC TOLL COLLECTION

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NHAI toll payments go digital with NETC

National Highways — 460 Tolls

State Highways — 39 Tolls

Banks Live as on date — 22 Issuer & 8 Acquirer

Mechanism of Interface — Completely Interoperable

Issuance — 4.7 Mn Tags Issued

27 Mn volume of transactions for March 2019
595 Cr in value of transactions for March 2019

BHARAT BILLPAY

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OFFERS INTEGRATED AND INTEROPERABLE BILL PAYMENT SERVICES DIGITALLY, BOTH THROUGH ONLINE CHANNELS (100+) AND PHYSICAL OUTLETS (2.6 Mn) with 150 BILLERS

BILL PAYMENT MARKET SIZE : INR 5.85 TRILLION
TRANSACTION VOLUME FOR MARCH 2019 PASSING THROUGH BBPCU): 92.83 LAKHS
TRANSACTION VALUE FOR MARCH 2019 (PASSING THROUGH BBPCU) : 1061 CR

ELECTRICITY (69)

WATER (30)

GAS (20)

TELECOM (26)

DTH (5)

NACH
NATIONAL AUTOMATED CLEARING HOUSE

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MORE THAN 3812 SCHEMES OF BOTH CENTRAL AND STATE GOVERNMENTS IS GETTING MIGRATED IN PHASED MANNER

DBT : AADHAAR BASED TRANSFERS
129.84 Mn

NON DBT : ACCOUNT BASED TRANSFERS
73.63 Mn

NON DBT
28.43 Mn

VOLUME OF TRANSACTIONS FOR March 2019

- Bulk Transactions – Subsidies, Interest, Pension, Salaries, Utility Payments, Insurance Premium, more
- Aim to consolidate multiple ECS systems
- Supports UIDAI - Aadhaar based transactions

- Credit & Debit Functionality
- 1308 Banks are part of the system
- 2861.38 Mn Transactions FY 2018-19

CTS
CHEQUE TRUNCATION SYSTEM

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- 1,192 unique Banks
- Total volume Processed 1111 Mn for FY 2018-19
- Implementation of Centralized Positive Pay System
- Centralised Clearing House (CCH) went live in November 2018

99.16 MN SUCCESSFUL TXNS TILL March 2019

NFS
NATIONAL FINANCIAL SWITCH

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OFFERS INTEGRATED AND INTEROPERABLE FINANCIAL AND NON-FINANCIAL SERVICES FOR ANY BANK FROM ANY ATM THROUGH 10 TRANSACTION TYPES FOR CONSUMERS INCLUDING INTEROPERABLE CASH DEPOSITS (ICD)

460 Mn approved transactions in March 2019 with 99.85% uptime

Seismic Shift in Landscape

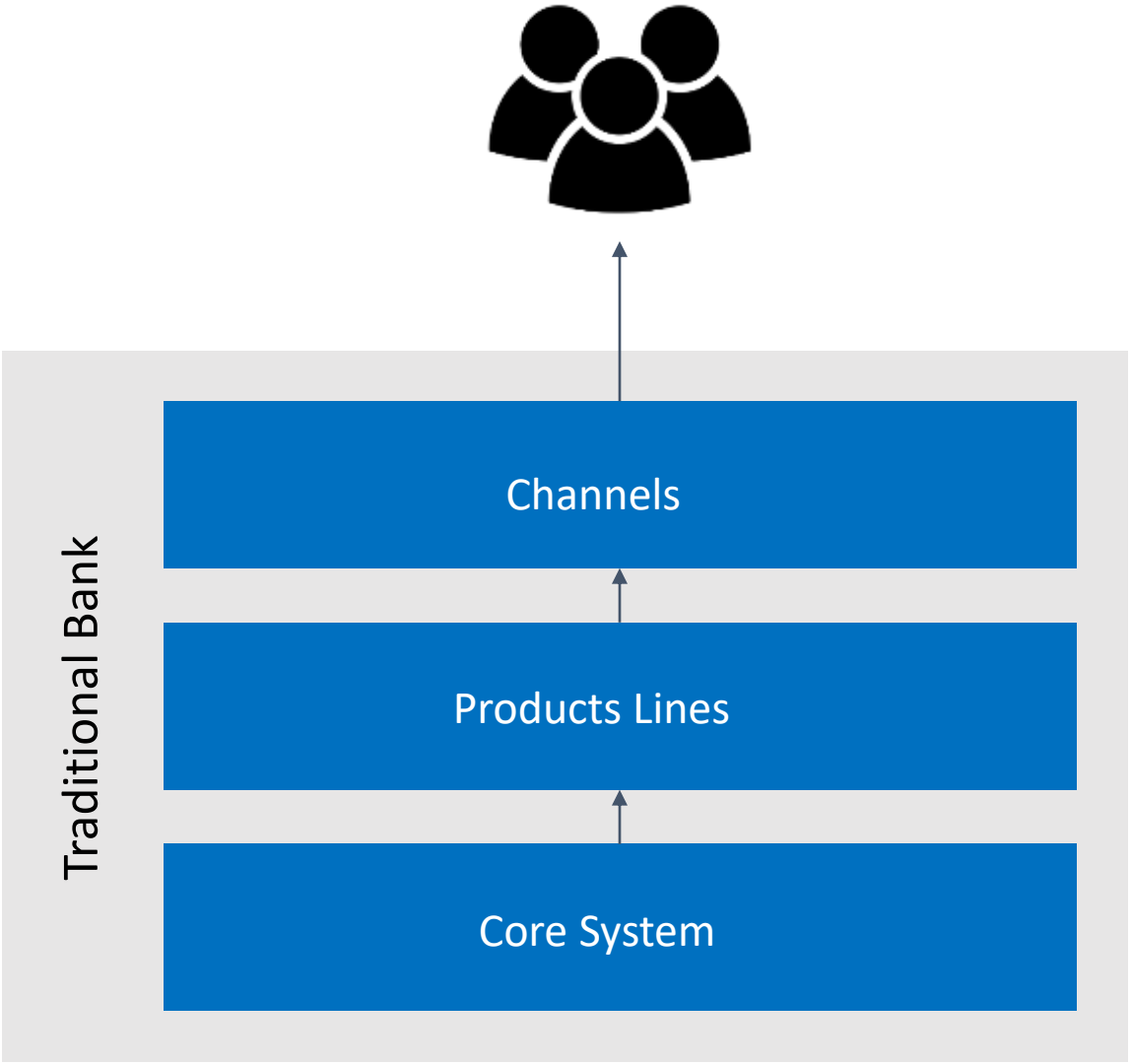
Ongoing Technology Revolution

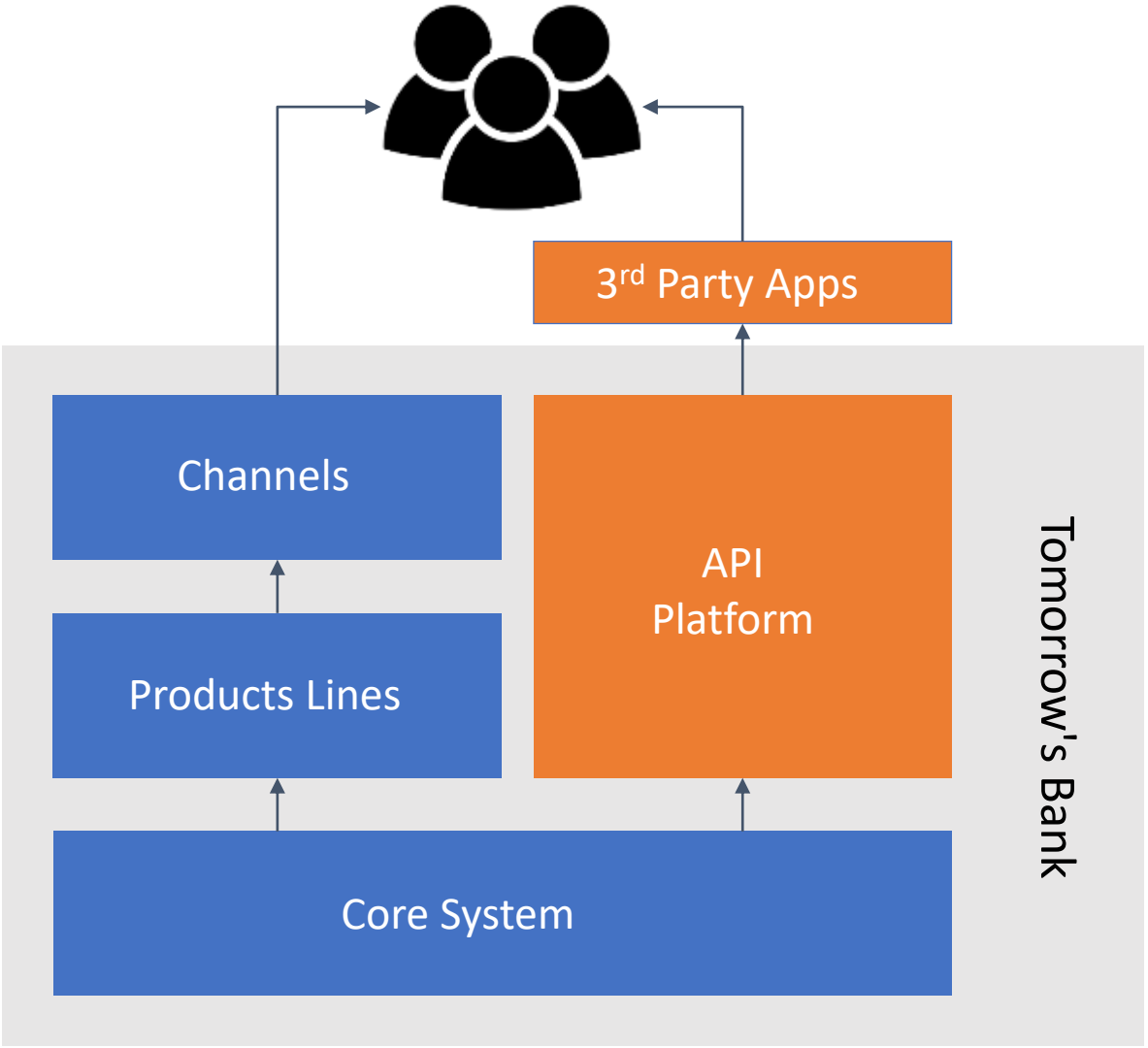
Growing Customer expectations

Entry of non-traditional players

“Change is the only constant”

Product to Platform Approach





NPCI : Payments System Sandbox

Other Fintech API Sandboxes

stripe api

Visa Developer

Mastercard Developers

TYPES

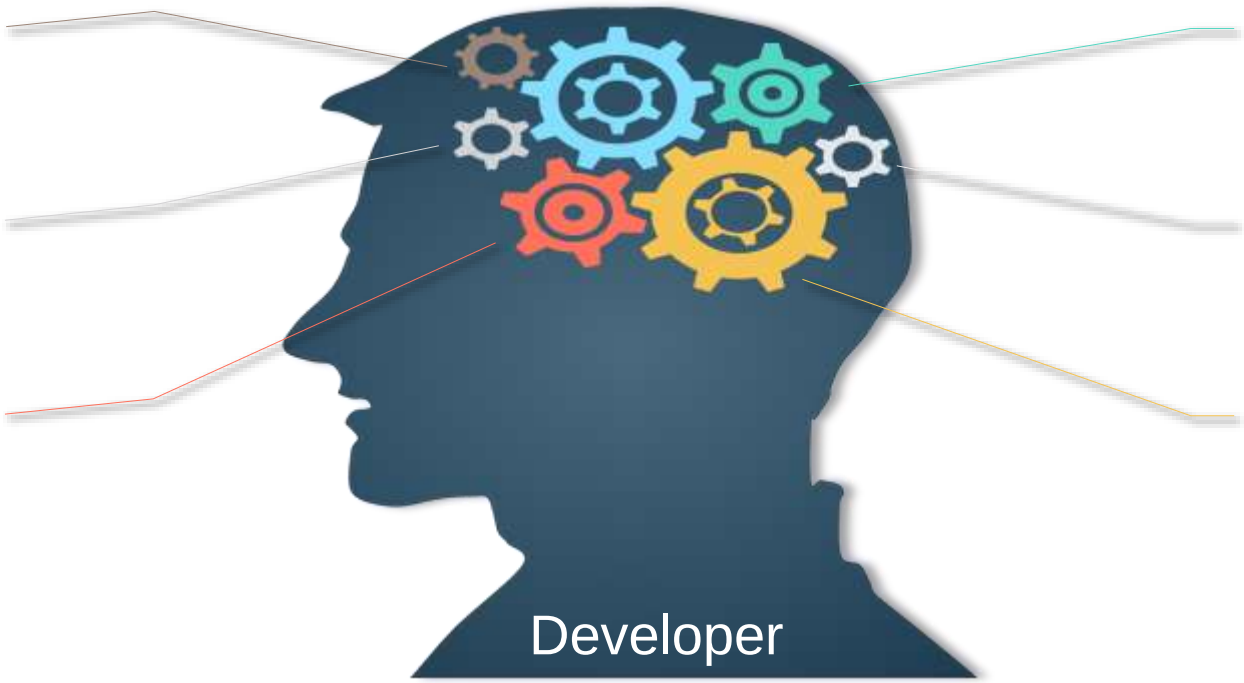
Payment Products
Data analytics & Intelligence

Value Added Services
Security & Regulatory

Problem Identification

Co-creation culture

Quick Product Introduction

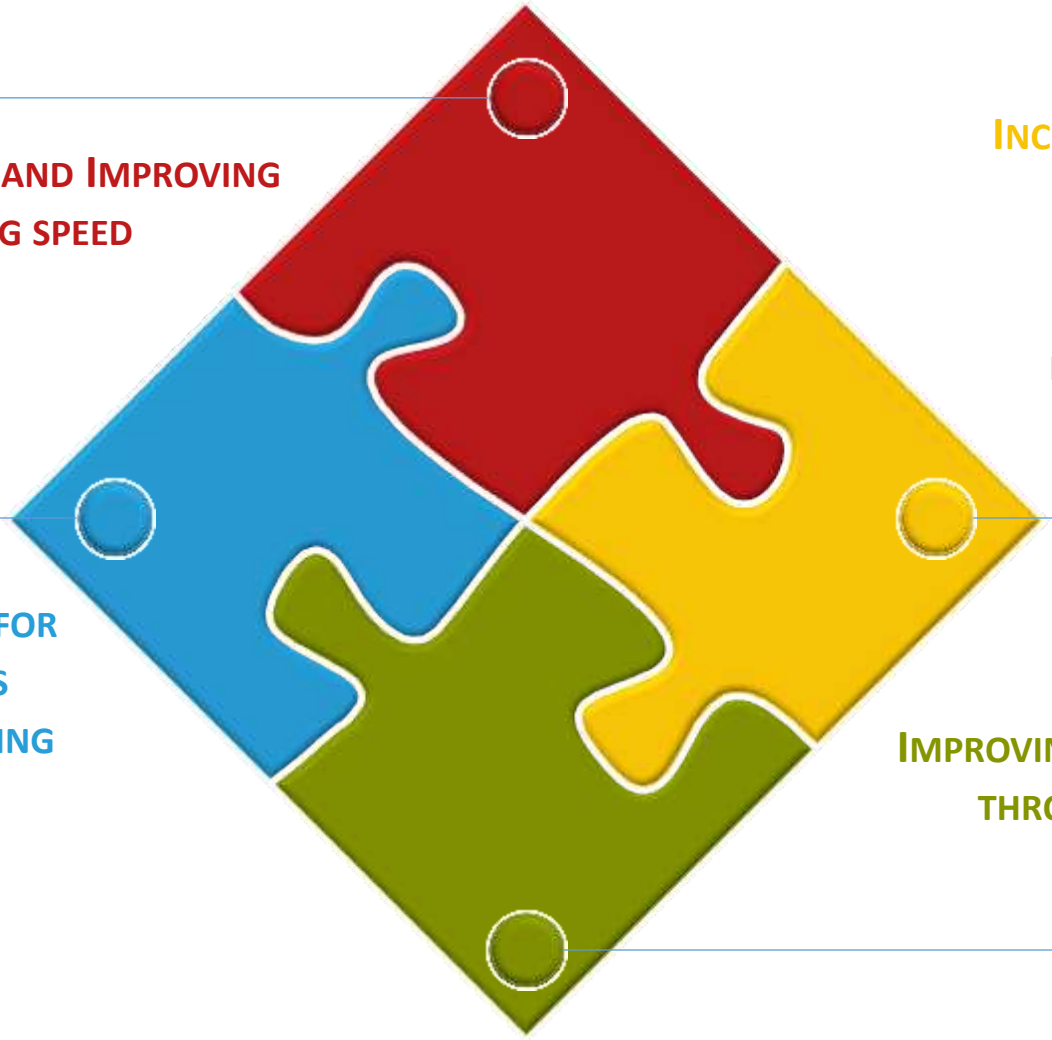


Payment API integrations

API monetization

Expansion of ecosystem

Blockchain in Clearing and Settlement



Reducing complexity and Improving end-to-end processing speed

Increasing transparency and immutability in transaction record keeping, further reducing operational and financial risks

Decreasing the need for reconciliation across multiple record-keeping infrastructures

Improving network resilience through distributed data management

Pilot POC with member banks on Payments, Clearing and Settlement

India Remittance Network

Lower the cost of operation with efficiency

Fast track with standardized process of remittance

25 Million Indian Diaspora

Create transparency & simpler operational flow

New banks to become beneficiary for international inward remittances

USD 62.7 Billion

Challenges for Ecosystem Growth

System Scalability
01

High cost of acquiring infrastructure
03

Lack of acceptance touch points
05

Barriers for innovation
07

Skillsets (AI/ ML/ Blockchain)
02

Lack of digital products Awareness
04

Slow technology adoption rate
06

Increasing Security requirements
08

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WE ARE PAVING WAY TOWARDS A LESS CASH SOCIETY BY PROVIDING SECURE, INSTANT, CONVENIENT AND AFFORDABLE PAYMENT SOLUTIONS FOR ALL INDIANS.