



**BOT Digital Finance Conference 2023** 

# Innovation of Payments from India Experience Sep 14, 2023

# **Unique model by India – Digital Public Infrastructure**



Digital Identity

Layer 1



Digital Payment

Layer 2





Digital Data Exchange

Layer 3

# India Story: India leading from the front in the Digital space with India Stack



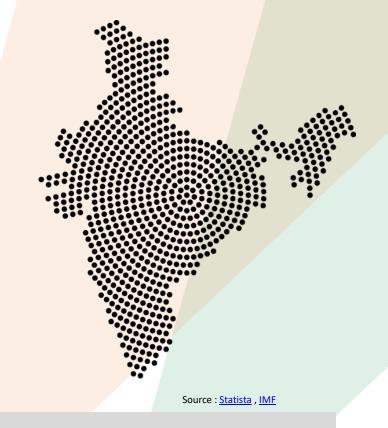
Population with the access to banking services



Largest digital ID issuance under Aadhaar scheme with 1.3 billion



Country with large liberalized internet (Affordable data with \$0.17 per GB, 1.2 Bn cell phone users with 70% smartphone)





Demographic dividend of India Indian median age 28 years



3<sup>rd</sup> largest fintech ecosystem with rapidly surfacing Unicorns



Active customers in digital payments - exponential growth of 367%



# National Payments Corporation of India – Transforming Payments

NPCI has Transformed and Modernized the Payment Infrastructure in India by driving innovations in payments

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

NPCI was set up under the guidance and support of Reserve Bank of India and Indian Banking Association

NPCI is a **Not-For-Profit Organization** 

19

Private Sector Banks

04

Foreign Banks

10

Multi State Co-op Banks 05

Regional Rural Banks 11

Public sector Banks

02

**Payments** Banks

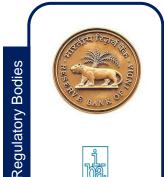
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Payment System Operators (Non-Banks)

04

Small Finance Banks

**Presently** 65 Partners are shareholders of **NPCI** 



ndian Banks' Association





Standard Chartered



**Deutsche Bank** 































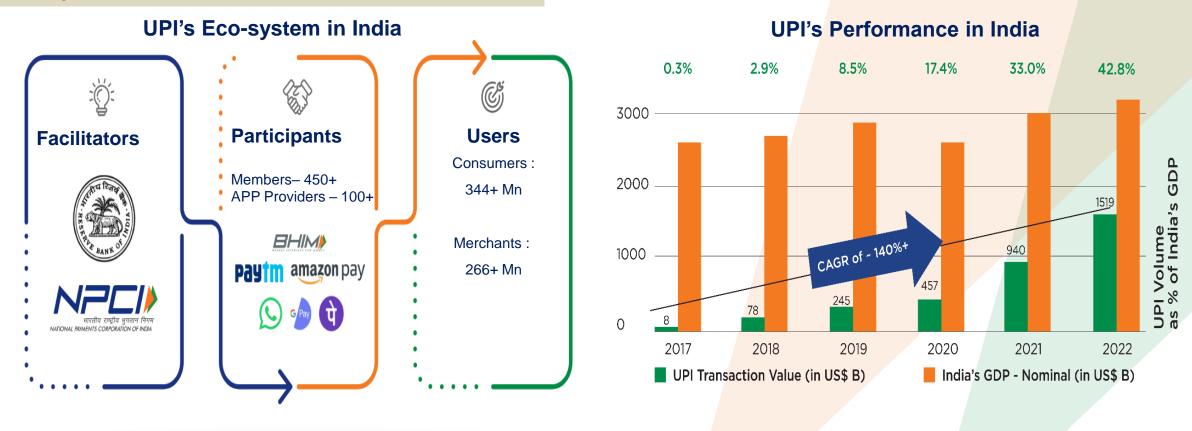




# With 74 Billion financial transactions on UPI in '22; India leads digital payments

UPI processed 10.6 Billion financial transactions and USD 190 Billion+ transaction value in Aug 2023

# 1 On processed value and volume in the World





75% share in digital payments in India and growing



Capacity to process ~1 Billion transactions/day



40% of instant payments in world are processed on UPI



US\$ 1.5 Trillion worth commerce in 2022









### Value created by UPI like deployment runs across multiple use-cases

#### **Merchant Payments**



Merchants sector for payments using QR as asset lite mode of acquiring

#### **Personal payments**



Person to person payments / remittances for various needs using UPI ID and/or UPI QR

#### **UPI on Delivery**



Payment on Delivery using QR scan and Pay; push payment using UPI ID

#### **Website Payments**



Online/ website payments using QR and Request to Pay feature merchant website

#### **Bill Payments**



Bill payments using QR and dynamic UPI ID for enabling direct bill payments

#### **Recurring Payments**



Recurring payments using the mandate facility of UPI like solution

#### **Biometric payments**



Biometric payments basis biometric authentication using a trusted third party (e.g., National ID provider)

#### **Feature phone payments**



Enable Feature phone payments using the USSD protocol integrated with RTPS

#### **UPI IPO Mandate**



Subscribe for IPOs using UPI. UPI IPO Mandate is a request on a smart phone app to block the fund for an IPO application

#### **UPI is CBDC ready**



UPI Protocol is future ready for Central Bank Digital currency support

# Digital transformation in India is well acknowledged....



#### With UPI, India has created something 'truly special': Mark Zuckerberg

Facebook CEO Mark Zuckerberg said he is 'excited' that WhatsApp has been approved to launch payments across India and said he wanted to thank all the partners who have made this possible

# India's UPI system a global model: Bill Gates

is working with other countries to roll out open-source technologies modeled on the country's imple-

India has built ambitious platforms for universal identification and digital payments, including the world's largest biometric database have drastically reduced the cost and friction of distributing aid to the poor, especially during the

"If people are going to study one country right now, other than

pore Fintech Festival on Tuesday "Things are really exploding there and innovation around that system

off after the government pushed demonetization in 2016, invalidat ing most of the country's high-value bank notes in a move to curb corruption and push Indians away

The Unified Payments Interface or UPI, has been aided by booming smartphone use and wireless data rates that are among the lowest in

use its UPI platform so payments can be sent easily among all services, including those from Facebook Inc., Amazon.com Inc., Walmart Inc., Paytm and any new upstart.



co-chairman of the Bill & Melinda tion is now helping some countries

based on open-source technologies, he added.

Aadhaar or "foundation" in Hindi Prime Minister Narendra Modi opposed the system before coming to power, but has since embraced it. Countries such as Russia, Morocco and Bangladesh have expressed nterest in the approach.

Gates, overall, was optimistic about how quickly vaccines were Covid-19 pandemic. He expects available in the first quarter of next year, which he called a significant

"Digital things overall - remote learning, telemedicine, digital

But Gates warned that addres ing the virus has to be done in an equitable way - rich countries shouldn't get to decide who gets

That's why his foundation is working with global manufacturers, including the Serum Institute in India, to make sure there are sufficient dosage numbers at

put an end to the coronavirus in 2022, though he warned agains

"We can't forget that another pandemic will come, so we need to invest and be ready," he said.

**UPI** makes India global leader in growth of real-time payments infrastructure as cash use declines: Report

#### How India became the global 'guru' of instant payments

The country is exporting its successful digital payments model to help other markets develop UPI ecosystems

Home / Companies / Interviews / India can repeat UPI success in e-commerce: Walmart CEO Doug McMillon

#### India can repeat UPI success in e-commerce: Walmart CEO Doug McMillon

# 'We talk about India in every board meeting'

#### IMF praises India's digital transformation, calls it world-class infrastructure': Asks other nations to learn from it

India's journey highlights lessons for other countries embarking on their own digital transformation



WEB DESK · Apr 6, 2023, 08:00 pm IST in Bharat, Technology



India's Aadhaar, UPI, CoWin Journey Inspiring; Others Can Follow for Digital Evolution: UNDP Officer



#### National Payments Corporation of India

Connecting commerce



# Formation of NPCI International for A Journey Beyond, to democratize payments

NPCI has formed a subsidiary - NPCI International Payments Limited (NIPL) in Q2 2020 to take indigenously developed best-in-class digital payment solutions to International markets





Financial Inclusion

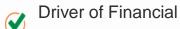
Cash Displacement

Sovereign Solution

Enable Open Banking



# Journey backed by our achievements in India



Inclusion ~744 Million

RuPay card holders

345+ Million Unified Payments
Interface users 266+ Million
Merchant QRs



#### **Our Objective**

UPI for Digital Public Good

Acceptance for UPI apps and RuPay
Cards Globally

Remittance to and from India with efficiency and speed

Fintechs Incubation

Multiplier of Economic Activity

Cross-border Interoperability

Enabler of National Agenda, with public infrastructure





# **Thank You**























