



Unified Payments Interface

[Source: PIB](#)

Why in News?

The [International Monetary Fund \(IMF\)](#) released a note titled **Growing Retail Digital Payments: The Value of Interoperability**, emphasizing the role of the [Unified Payments Interface \(UPI\)](#) in transforming India's digital payment ecosystem.

What is Unified Payments Interface (UPI)?

- **About:** UPI is a real-time mobile payment system developed by [National Payments Corporation of India \(NPCI\)](#)
 - It allows users to link multiple bank accounts into one app for seamless peer-to-peer and merchant transactions.
- **Working:** UPI enables both **push (send) and pull (receive) transactions** using a [Virtual Payment Address \(VPA\)](#), with two-factor authentication, eliminating the need to enter bank details each time.
- **Technologies Used:** UPI is built on [IMPS \(Immediate Payment Service\)](#) and integrates [Aadhaar Enabled Payment System \(AePS\)](#).
 - IMPS facilitates funds transfer to an account of the beneficiary with a participating bank, based on beneficiary's Mobile Number & Mobile Money Identification Number (MMID) or Account number & Indian Financial System Code (IFSC).
 - The AePS allows basic banking services like cash withdrawal, deposit, balance enquiry, and money transfer (interbank or intrabank) using Aadhaar authentication.
- **BHIM App:** [Bharat Interface for Money \(BHIM\)](#) is a UPI-based payment app developed by NPCI.

How Has UPI Transformed India's Digital Payment Ecosystem?

- **Scale and Adoption:** UPI processed Rs 24.03 lakh crore through **18.39 billion transactions in June 2025**.
 - UPI now serves 491 million users and 65 million merchants, connecting over 675 banks on one platform.
 - India's UPI is now the **world's top real-time payment system**, processing over 640 million daily transactions more than **Visa's 639 million** and powers **85% of India's digital payments** and nearly 50% of global real-time payments.
 - UPI has integrated digital payments into daily life in India, enabling instant 24/7 transactions and easy management of all bank accounts through one app.
 - **Two-factor authentication** ensures safety, while **UPI IDs** protect privacy by avoiding the need to share sensitive bank details. **Quick Response (QR) codes** make payments at shops fast and easy.
- **Interoperability:** UPI enabled seamless, platform-agnostic payments by removing the **limits of closed-loop systems** like restricted wallets or bank-specific transfers.
 - It allows users to transact across different apps and banks, making digital payments easier and more flexible.

- This openness also pushed apps to compete and improve, driving innovation and better user experience.
- **Financial Inclusion:** UPI's **zero-cost, real-time transfers** have made digital payments **accessible for small vendors and first-time users**.
 - It has empowered **millions of kirana stores and micro-businesses**, while also promoting digital literacy and building trust in digital finance.
- **Global Reach and Diplomacy:** UPI is now live in **7 countries**, including the UAE, Singapore, Bhutan, Nepal, Sri Lanka, France, and Mauritius.
 - Its launch in France marks its entry into Europe. India is also pushing for UPI to be adopted across **BRICS nations**, which would boost **remittances** and simplify payments for Indians abroad.

Digital Foundation Behind UPI

- UPI's global success is rooted in years of investment in digital infrastructure, with India building a strong foundation through the **JAM trinity** (Jan Dhan Yojana (financial inclusion), Aadhaar (digital identity), and Mobile connectivity) along with affordable internet.
 - As of mid-July 2025, **Jan Dhan Yojana** opened over 55.9 crore bank accounts, bringing millions into the formal financial system and enabling direct benefit transfers.
 - **Aadhaar** gave every resident a unique biometric-linked identity. With over 142 crore Aadhaar numbers generated by June 2025, it enabled secure authentication and underpinned services like UPI.
 - **Connectivity** improved rapidly with one of the **world's fastest 5G rollouts** (4.74 lakh base stations now cover almost all districts).
 - Data costs dropped from Rs 308/GB in 2014 to Rs 9.34 in 2022, supporting 116 crore mobile users.
- These pillars made UPI the world's top real-time payment system and a global model for digital finance.

UPSC Civil Services Examination, Previous Year Questions (PYQs)

Prelims

Q1. With reference to digital payments, consider the following statements: (2018)

1. BHIM app allows the user to transfer money to anyone with a UPI-enabled bank account.
2. While a chip-pin debit card has four factors of authentication, BHIM app has only two factors of authentication.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Ans: (a)

Q2. Which of the following is a most likely consequence of implementing the 'Unified Payments Interface (UPI)'? (2017)

- (a) Mobile wallets will not be necessary for online payments.
- (b) Digital currency will totally replace the physical currency in about two decades.
- (c) FDI inflows will drastically increase.

(d) Direct transfer of subsidies to poor people will become very effective.

Ans: (a)

Q3. Consider the following statements: (2017)

1. National Payments Corporation of India (NPCI) helps in promoting the financial inclusion in the country.
2. NPCI has launched RuPay, a card payment scheme.

Which of the statements given above is/are correct?

- (a)** 1 only
- (b)** 2 only
- (c)** Both 1 and 2
- (d)** Neither 1 nor 2

Ans: (c)

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