India's Techade
Transformative changes in India

Content

"Five decade journey in SIX years"

IMF Report 2023

Challenges Faced by India

Challenges India faced upto 2014

| Low Internet Penetration | Leakages in the Public Delivery System | Middle-men interference | Rampant Corruption and Delays | Transparency and accountability missing |

India Stack

WHAT is IndiaStack

- India Stack – framework of open APIs and digital public goods.

- Aim - To **unlock the economic primitives** of identity, data, and payments at a population scale & accelerate India's **digital transformation** and enhance financial inclusion.

- Designed to provide a **secure and interoperable platform for the delivery** of various services.

- Leveraging the power of technology and data for common good
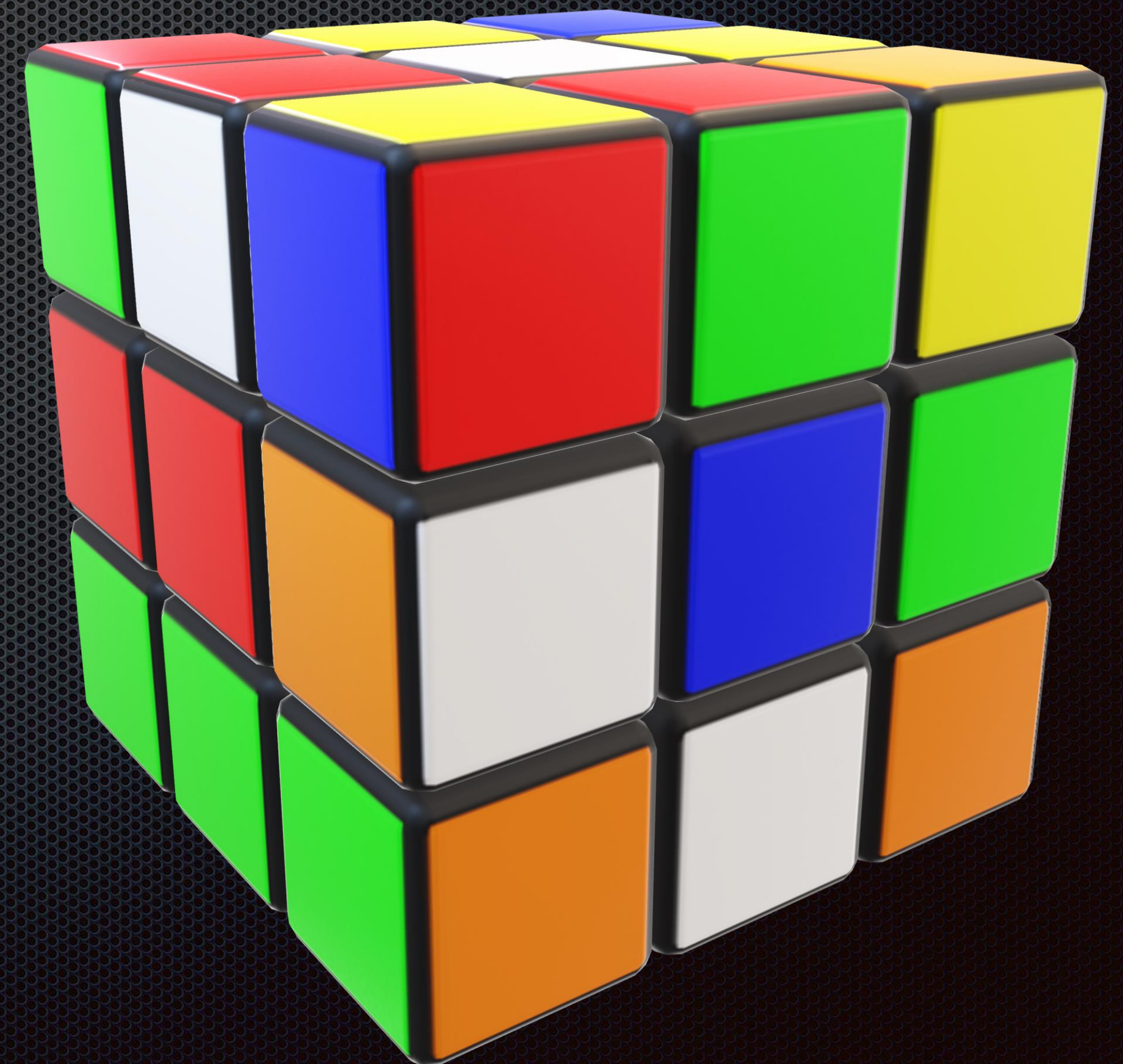
WHY India Stack

- Post 2014 India decided to **incorporate technology into Governance**

- Decided to bring **people and Government closer**

- **Reduce time-consuming** redundancies

- Used technology to **Improve Transparency**

- **Incorporated Technology** to cut out middlemen and plug Leaks

Layers of India Stack

Presence-less

Paper-less

Cash-less

Consent

Presence less layer :
Where a universal biometric digital identity allows people to participate in any service from anywhere in the country.

Paperless layer :
Where digital records move with an individual's digital identity, eliminating the need for massive amount of paper collection and storage.

Cashless layer :
Where a single interface to all the country's bank accounts and wallets to democratize payments.

Consent layer
Consent layer : Which allows data to move freely and securely to democratize the market for data.

India Stack :Digital Revolution

Digital Revolution

JAM TRINITY	→	**REMOVING 10 CRORE FAKE BENEFICIARIES**
DIRECT BENEFIT TRANSFER	→	**RS.31 LAKH CRORE TRANSFERRED & SAVING RS. 2.75 LAKH CRORE**
PREVENTION OF CORRUPTION ACT	→	**MADE MORE STRINGENT BY AMENDMENT IN 2018**

Raising the Benchmark -Digital India

50 crore+ people banked under Jan Dhan – world's largest financial inclusion scheme

Laid the foundations of Digital India Government services are made available directly to the citizen

114 crore+ Mobile Connections – making India the world's largest connected democracy

137 crore+ Aadhaar – world's largest Digital Identity Programme

Led to Direct Benefit Transfer (DBT) the world's largest social benefits transfer program

At the core of India's transformed digital payment landscape **UPI**

New India
LESS Government, MORE Governance

Aadhaar Authentication

Aadhaar e-KYC eSign
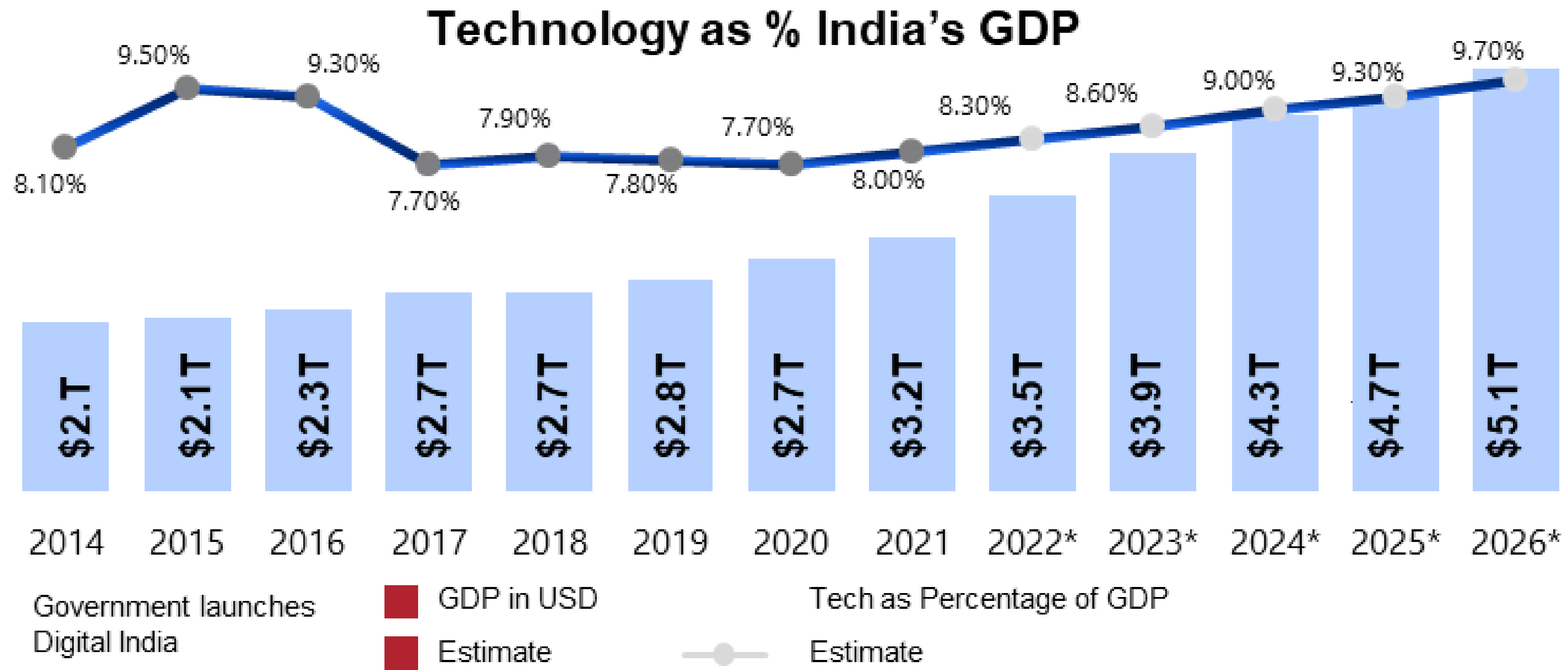
Digital Locker

Unified Payment Interface (UPI)

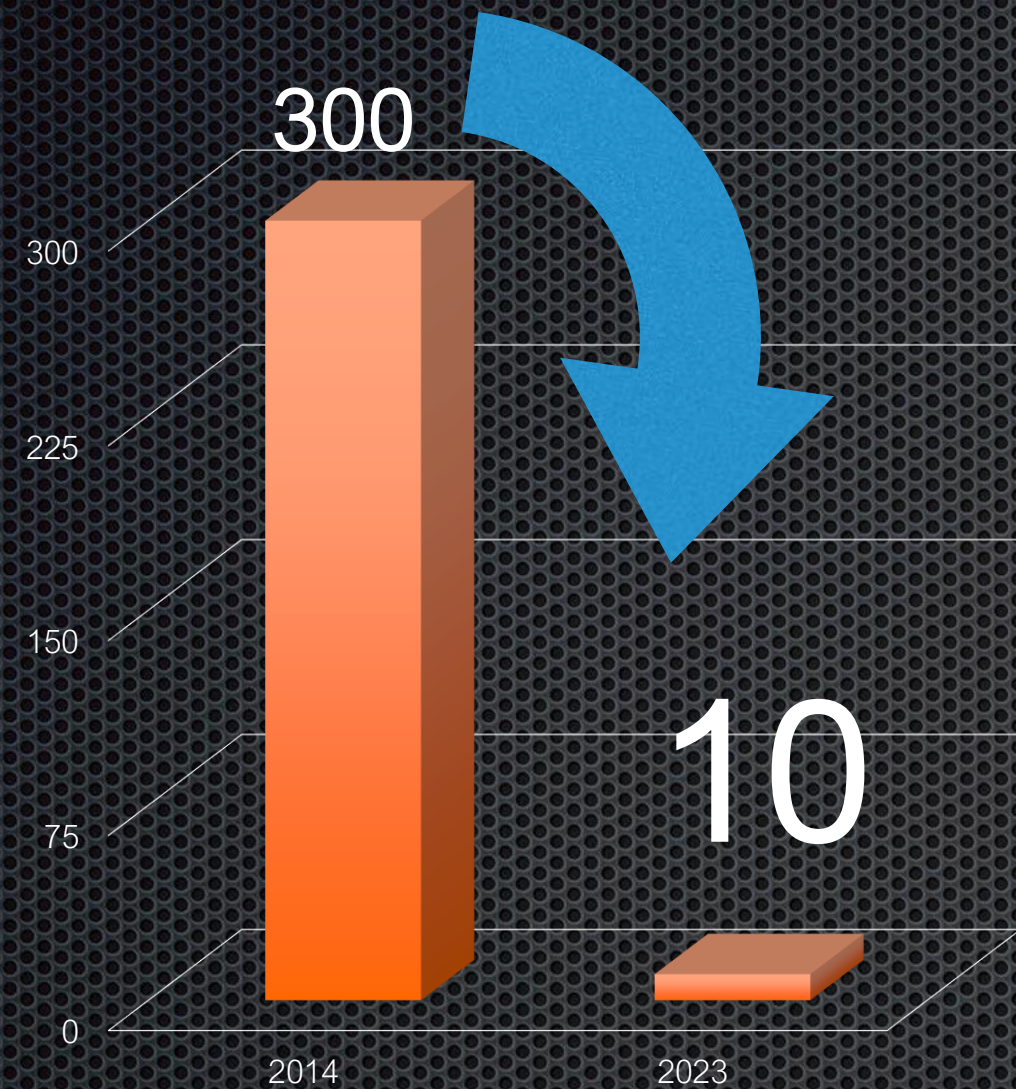Digital User Consent - still work in progress.
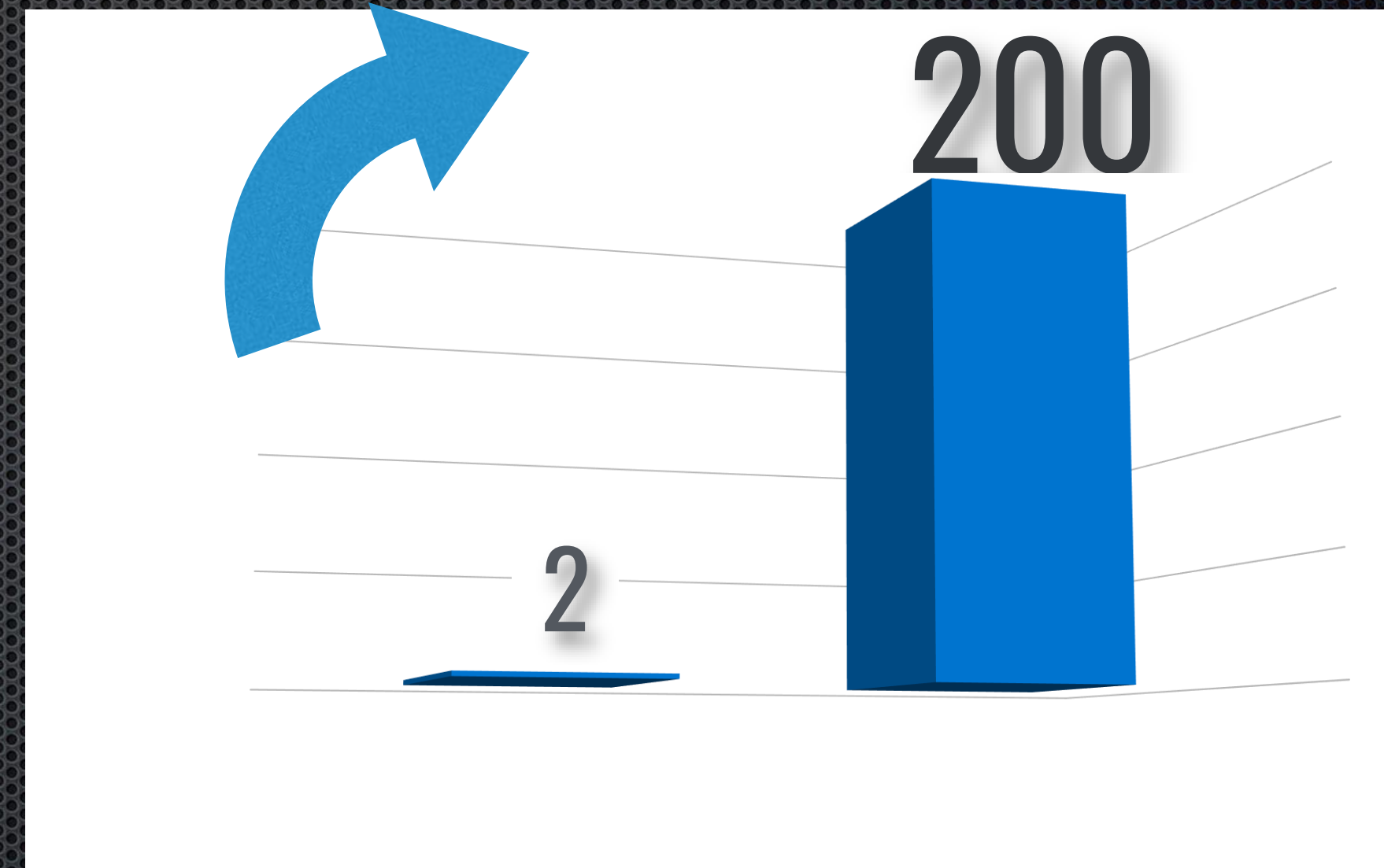
India's Techade

Technology-powered India

Technology as % India's GDP

Year	GDP in USD	Tech as Percentage of GDP
2014	$2.T	8.10%
2015	$2.1T	9.50%
2016	$2.3T	9.30%
2017	$2.7T	7.70%
2018	$2.7T	7.90%
2019	$2.8T	7.80%
2020	$2.7T	7.70%
2021	$3.2T	8.00%
2022*	$3.5T	8.30%
2023*	$3.9T	8.60%
2024*	$4.3T	9.00%
2025*	$4.7T	9.30%
2026*	$5.1T	9.70%

Government launches Digital India

GDP in USD
Estimate

Tech as Percentage of GDP
Estimate

Impact of Technology Driven India

Cost of Data (Rs/gb)

Number of Mobile
Manufacturing Units

300

10

300
225
150
75
0

2014   2023

200

2

Rapid Decrease in
cost of Data

Digital Quality of Life Indian
52 out of 121 countries

Internet Speed increased
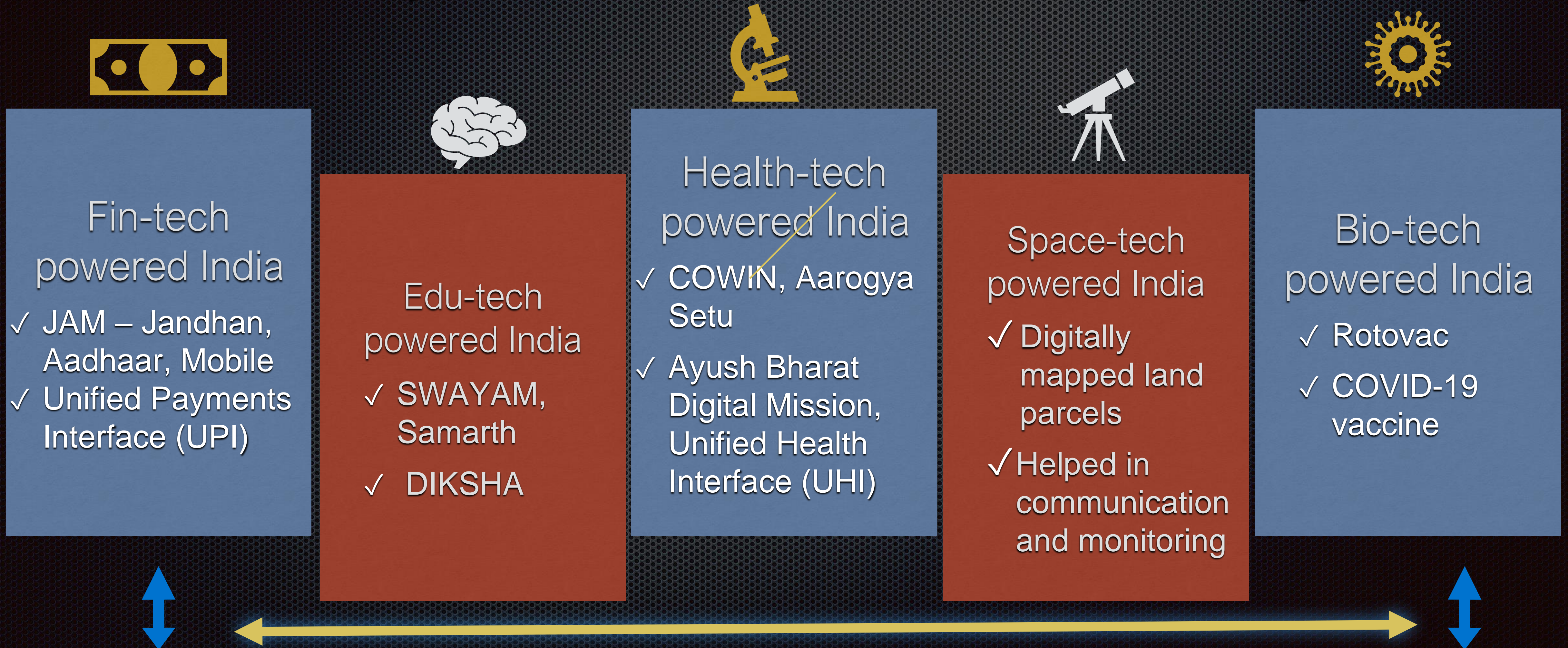by 297 % in the last 9 years

Success of Digital India

Technology-powered India

Technology-powered India has achieved remarkable progress in the last decade. Additionally, India's tech-ade promises even more spectacular growth.

Fin-tech powered India
- ✓ JAM – Jandhan, Aadhaar, Mobile
- ✓ Unified Payments Interface (UPI)

Edu-tech powered India
- ✓ SWAYAM, Samarth
- ✓ DIKSHA

Health-tech powered India
- ✓ COWIN, Aarogya Setu
- ✓ Ayush Bharat Digital Mission, Unified Health Interface (UHI)

Space-tech powered India
- ✓ Digitally mapped land parcels
- ✓ Helped in communication and monitoring

Bio-tech powered India
- ✓ Rotovac
- ✓ COVID-19 vaccine

Aadhaar

AADHAAR

1.38 Billion Enrollments

97 Billion e-Authentications Done

Led to **DBT disbursal of USD 372 Billion** in Govt. welfare schemes

Changing Mindsets of New Bharat

UPI MONTHLY VOLUMES
Let's join hands for the greater good.

AUG 2023

10.58 bn
TRANSACTION COUNT
AUG 2023

15.76
Lakh Crore
TRANSACTION AMOUNT (₹)

61%
YoY GROWTH
Transaction Count

47%
YoY GROWTH
Transaction Amount

9.96 bn
TRANSACTION COUNT
JULY 2023
15.34 Lakh Crore
TRANSACTION AMOUNT (₹)

9.34 bn
TRANSACTION COUNT
JUNE 2023
14.75 Lakh Crore
TRANSACTION AMOUNT (₹)

#UPICHALEGA
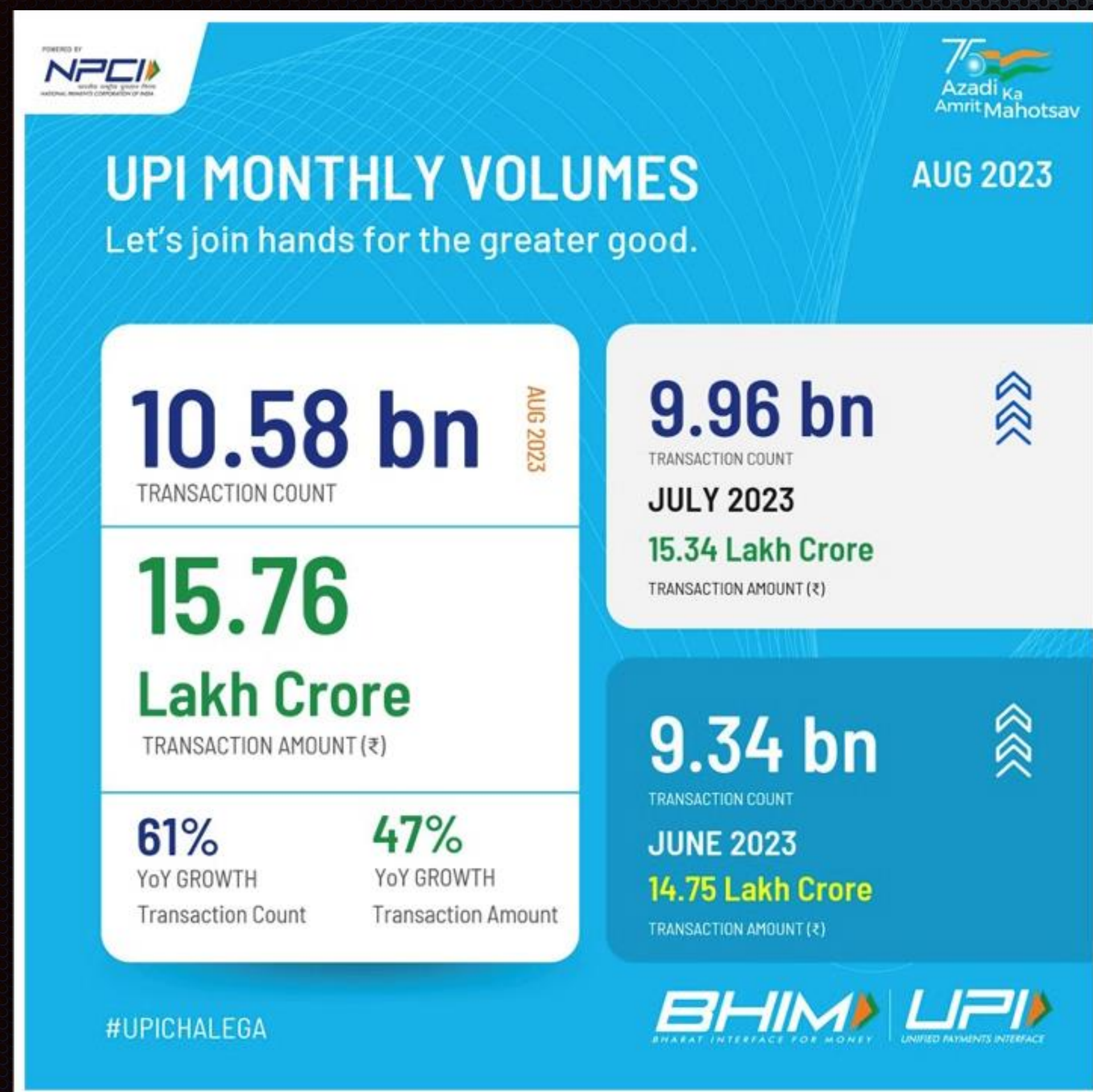
46% of Real-time transactions have taken place in India

10.58 billion transactions by volume
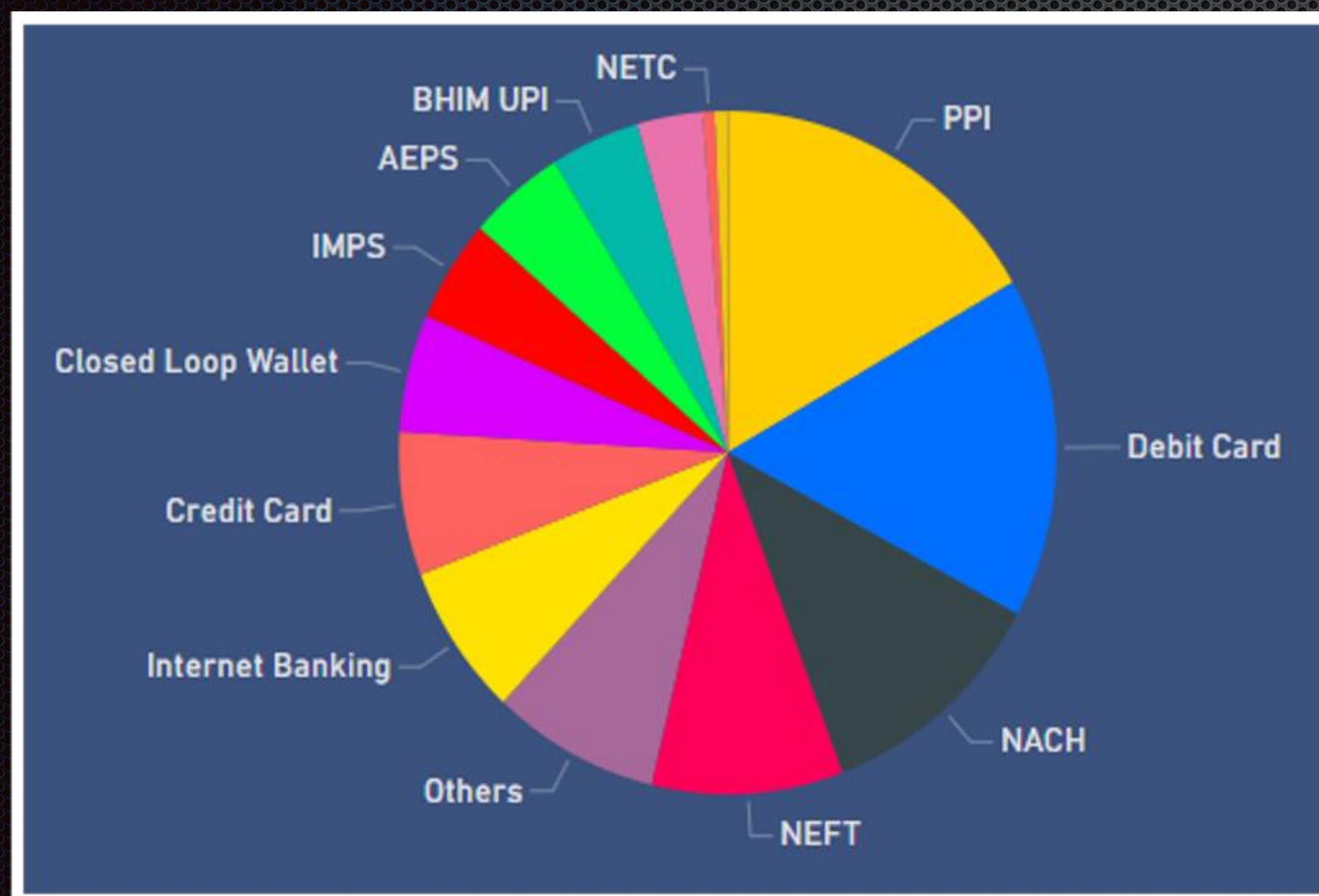
Rs 15.76 lakh crore transactions
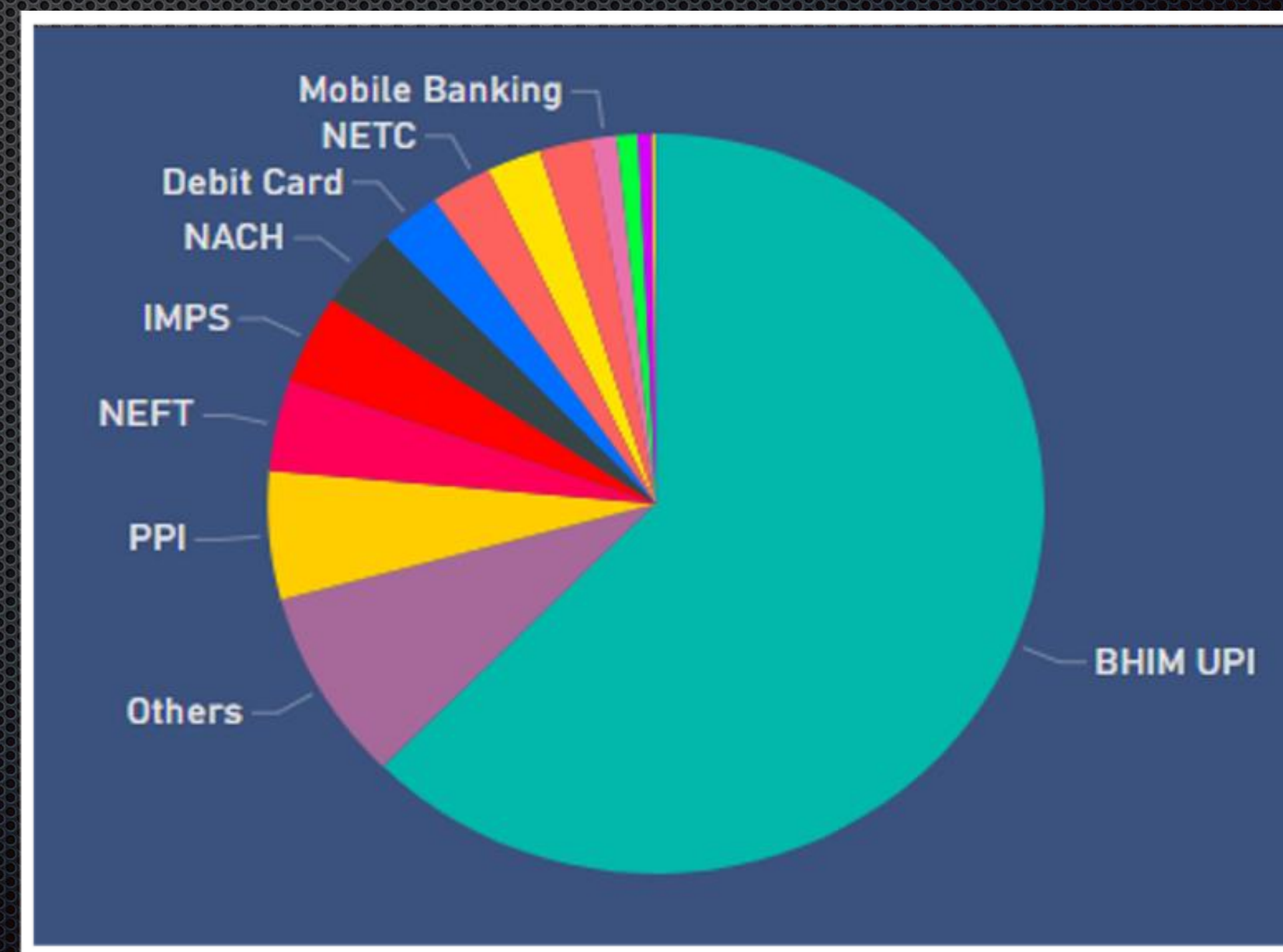
458 Banks live on UPI

61% YoY growth
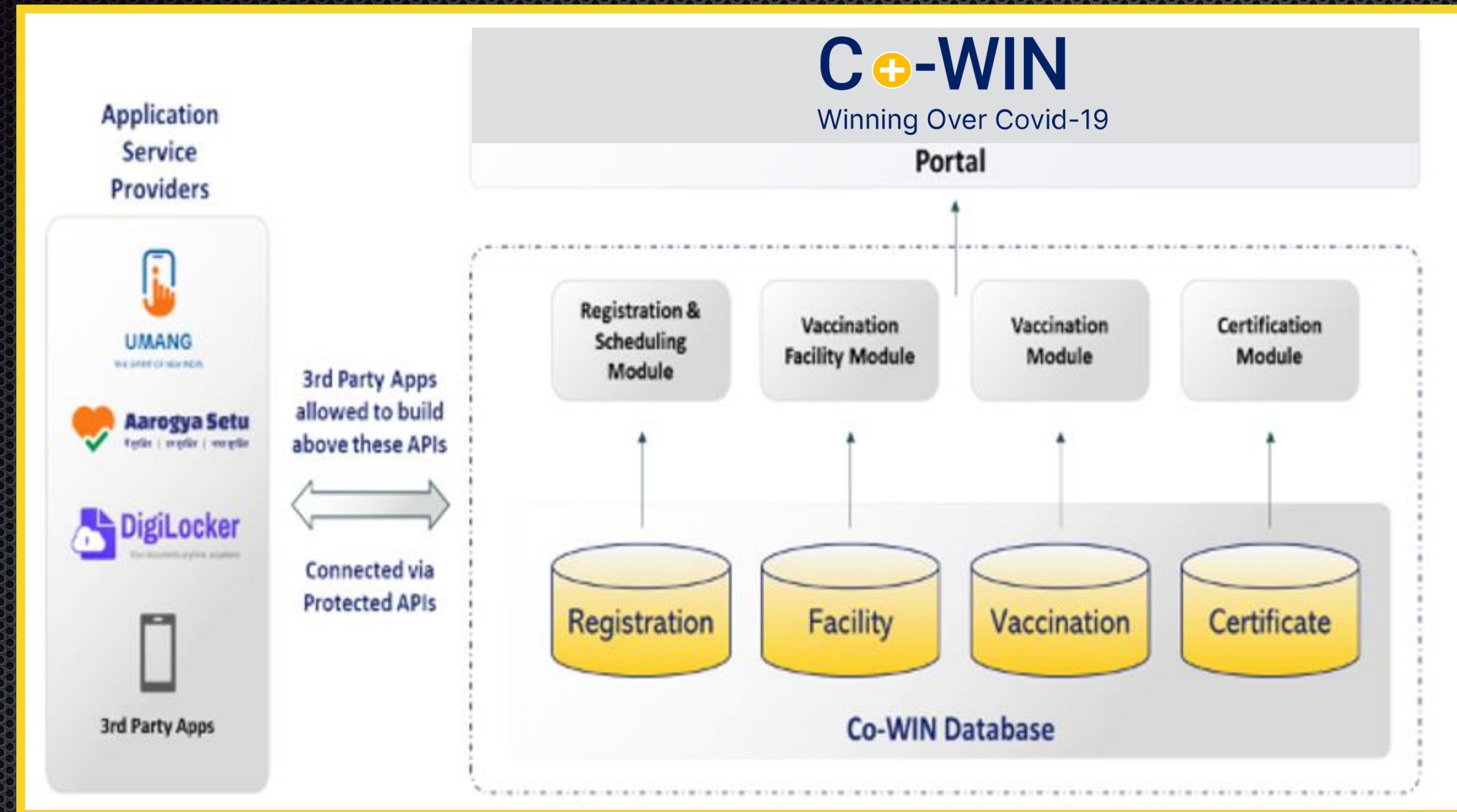
Co-WIN

1.11 Billion Registrations

100+ Apps integrated with CO-WIN and providing search, booking and certification facility to their users

Handled peak of **2.5 Billion API**

Helped administration of **2.21 Billion vaccination** doses

Making Strides in Healthcare Technology

- ⊙ Ayushman Bharat Digital Mission (ABDM) launched to create an 'open digital health ecosystem'- 44.6 crore people allocated ABHA (Health ID)

- ⊙ 2.2 billion doses of vaccine administered

- ⊙ 8 biotechnology parks set up, 4 biotechnology parks under construction

- ⊙ National Biopharma Mission (NBM) to nurture technological capabilities in bio-pharmaceuticals, medical devices and diagnostics

- ⊙ 30 MSMEs sanctioned to support affordable product development

- ⊙ E-Sanjeevani gaining prominence - 15 crore+ patients served

POSHAN Tracker

Reduction in Underweight in Children NFHS-4- 38.4%
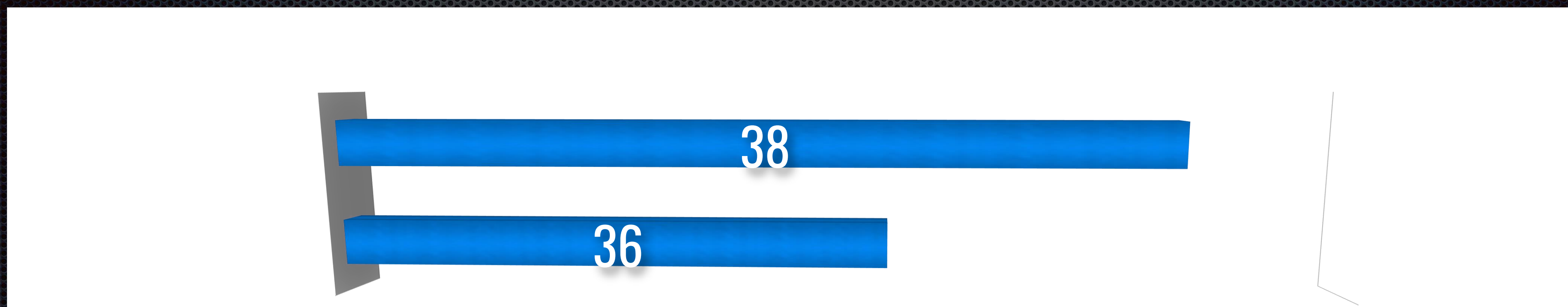
Provides nutritional services to **101 Million** beneficiaries

Tracks last mile service delivery through **1.4 Million** Anganwadi Workers

Serving **12 Million women & 89 Million children** up-to the age of 6 years

![DigiLocker - Document Wallet to Empower Citizens]

DIGI LOCKER STAISTISTICS
- 6.22 Billion Issued Documents
- 184 Million Users
- 630+ Types of documents

Paperless initiative providing private locker to every citizen in Government of India's cloud.

Platform for issuance and verification of documents & certificates digitally

Ensure authenticity of the e-documents

Provide consent based and secure access

Anytime, anywhere access to their documents by the individuals

Environment Friendly

GOVERNMENT E- MARKET PLACE

MARKETPLACE FOR PUBLIC PROCUREMENT OF COMMON USE GOODS AND SERVICES

END-TO-END AUTOMATED SOLUTION FOR GOVERNMENT BUYING, RIGHT FROM ORDER TO FULFILMENT

IMPLEMENTATION OF E-TENDERING IN PUBLIC PROCUREMENTS

TO ENHANCE COMPETITIVENESS, TRANSPARENCY, AND ACCOUNTABILITY IN PUBLIC PROCUREMENT

PROVIDE COMPETITIVE PRICES AND RELIABLE QUALITY OF PRODUCTS/SERVICES

Government e-Marketplace

GeM
Government e Marketplace
Efficient • Transparent • Inclusive

₹ 2 lakh crore
(GROSS MERCHANDISE VALUE, FY 2022-23)

31 Lakh+
PRODUCTS ON PORTAL

Holistic and Inclusive Governance

UMANG App provides a single platform to access major e-Gov services - Over **5.50 crore registrations and 377 crore transactions** done

MyGov established as India's Citizen Engagement Platform - Over **3.27 crore users**

DigiLocker providing authentic digital documents to citizens - Over **627 crore** documents issued

Jeevan Pramaan enabling pensioners to issue their 'Digital Life Certificates' online – Over **7 crore** certificates issued

Common Services Centres (CSCs) for delivering e-Services to rural and remote locations – Over **5 lakh functional CSCs**

Land mapping being done in the villages with drone technology under **PM SVAMITVA Yojana** – Over **8 Crore Land Parcels** digitised

National Scholarship Portal (NSP), a common portal for all Government scholarships – **150 scholarship schemes**; **6.73 crore applications** verified

Tech India **FUTURE**

Quantum Leap with Artificial Intelligence (AI)

- YUVAi (Youth for Unnati and Vikas with AI) launched for School Students to learn & apply AI skills

- AIRAWAT project for providing a common computing platform for AI research

- India is a founding member and council chair of Global Partnership on Artificial Intelligence (GPAI)

- Bhashini AI-enabled multi-language translation tool currently available in 10 languages

- India is on the path to manufacturing of Semiconductors which would help in enhancing India's capabilities.

Unleashing the Power of Supercomputing

28 Supercomputers installed under National Supercomputing Mission

Total capacity of more than 24 Petaflops (1015) **developed**

100+ institutions connected to supercomputers over National Knowledge Network (NKN

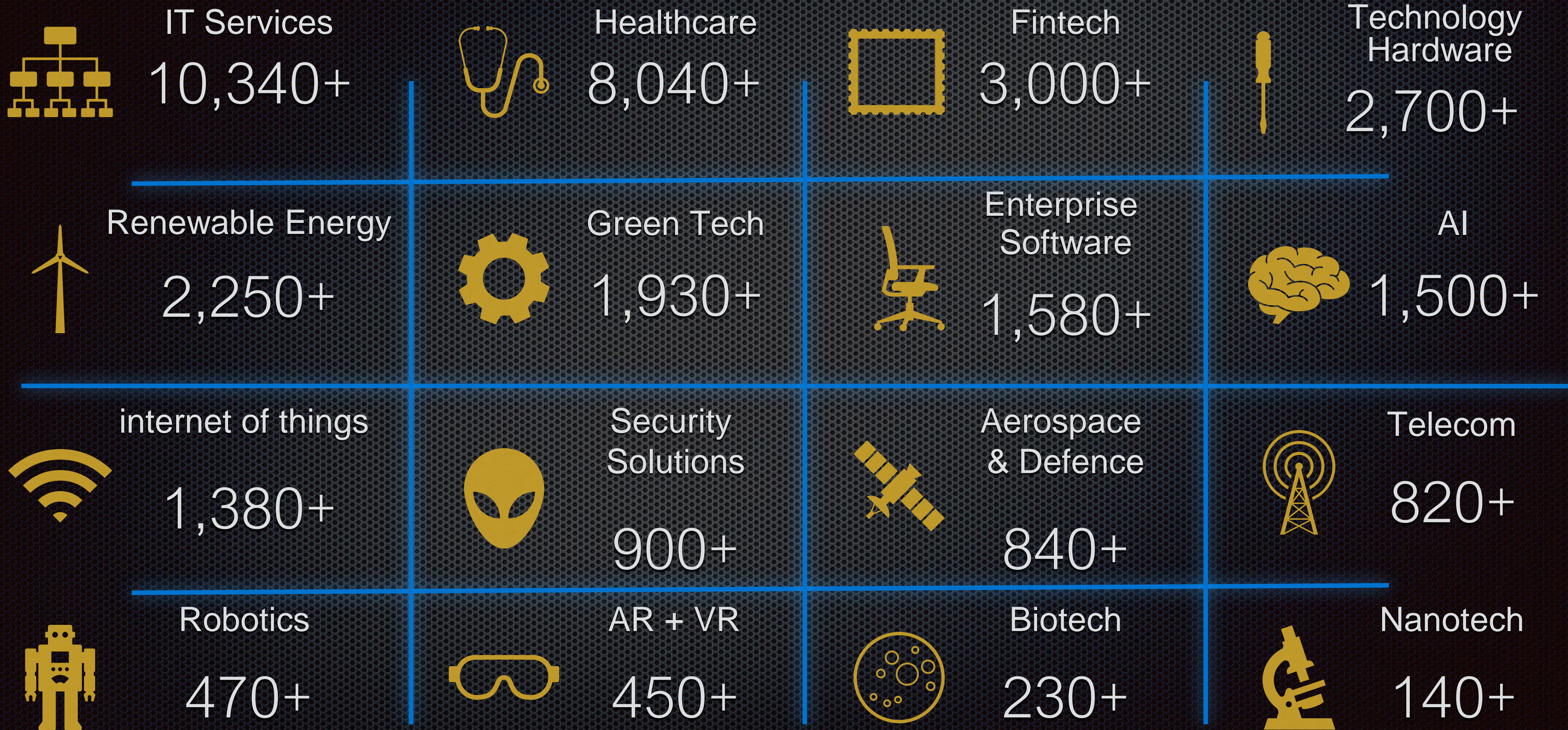17,500+ manpower **skilled**

Indigenous Rudra server **developed**

12 more supercomputers **with a** total capacity of 41 Petaflops is scheduled to be commissioned in a year

Building a Thriving Startup Ecosystem

IT Services 10,340+	**Healthcare** 8,040+	**Fintech** 3,000+	**Technology Hardware** 2,700+
Renewable Energy 2,250+	**Green Tech** 1,930+	**Enterprise Software** 1,580+	**AI** 1,500+
internet of things 1,380+	**Security Solutions** 900+	**Aerospace & Defence** 840+	**Telecom** 820+
Robotics 470+	**AR + VR** 450+	**Biotech** 230+	**Nanotech** 140+

Creating Capabilities in Space Tech

- India became the 4th country to have successfully landed a spacecraft on the lunar surface, and the 1st to land on one of the moon's south pole

- Next generation launch vehicle – the GSLV MKIII launched successfully in November 2022

- AstroSat, the first dedicated space telescope made major breakthroughs by discovering 5 new galaxies in August 2022

- Gaganyaan Programme to mark India's foray into the new age of human space exploration

- Spacetech Innnovation Network (SPIN) and IN-SPACe to promote private players

- Vikram-S, India's first privately built rocket, was launched successfully

ISRO in Numbers
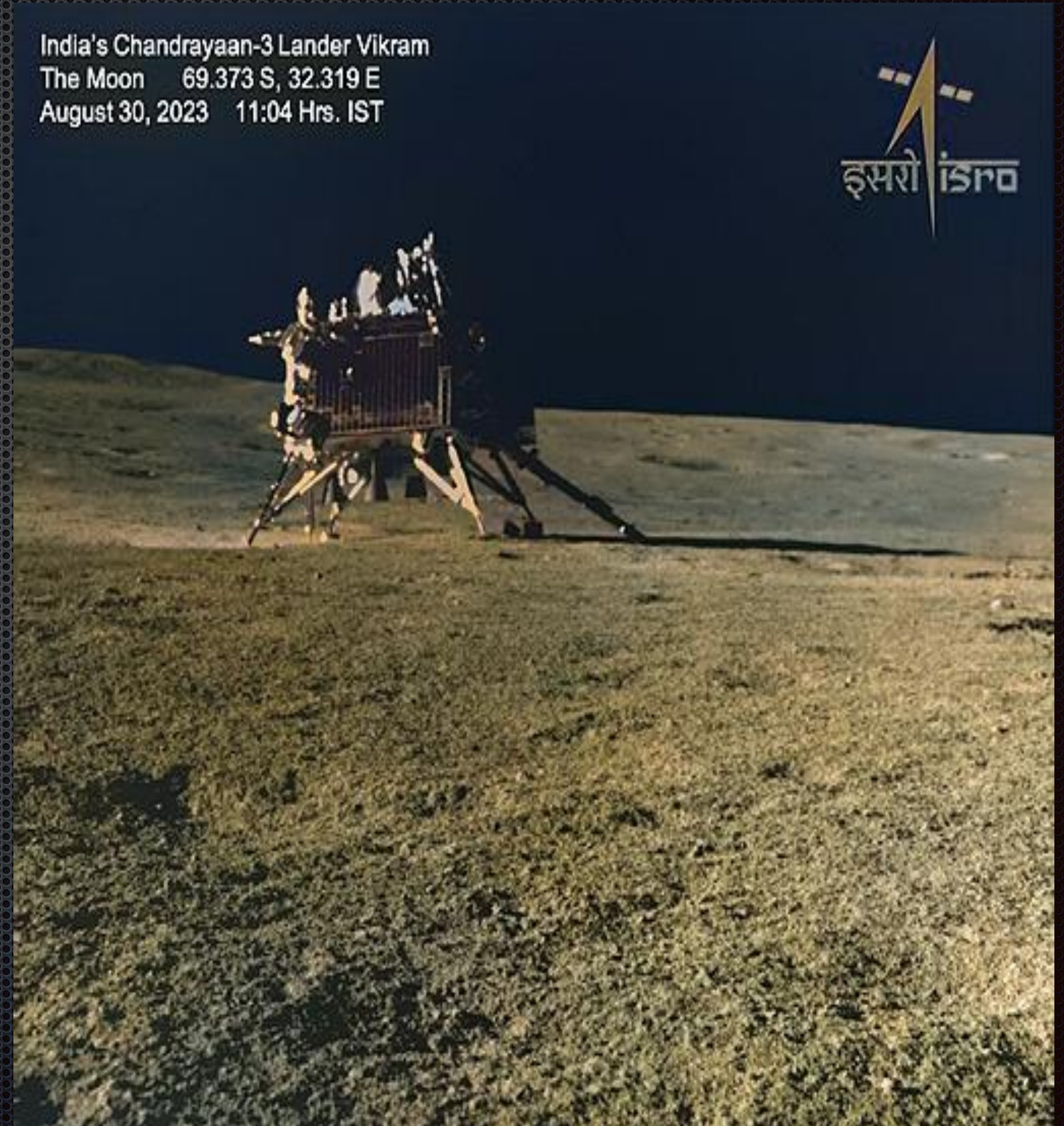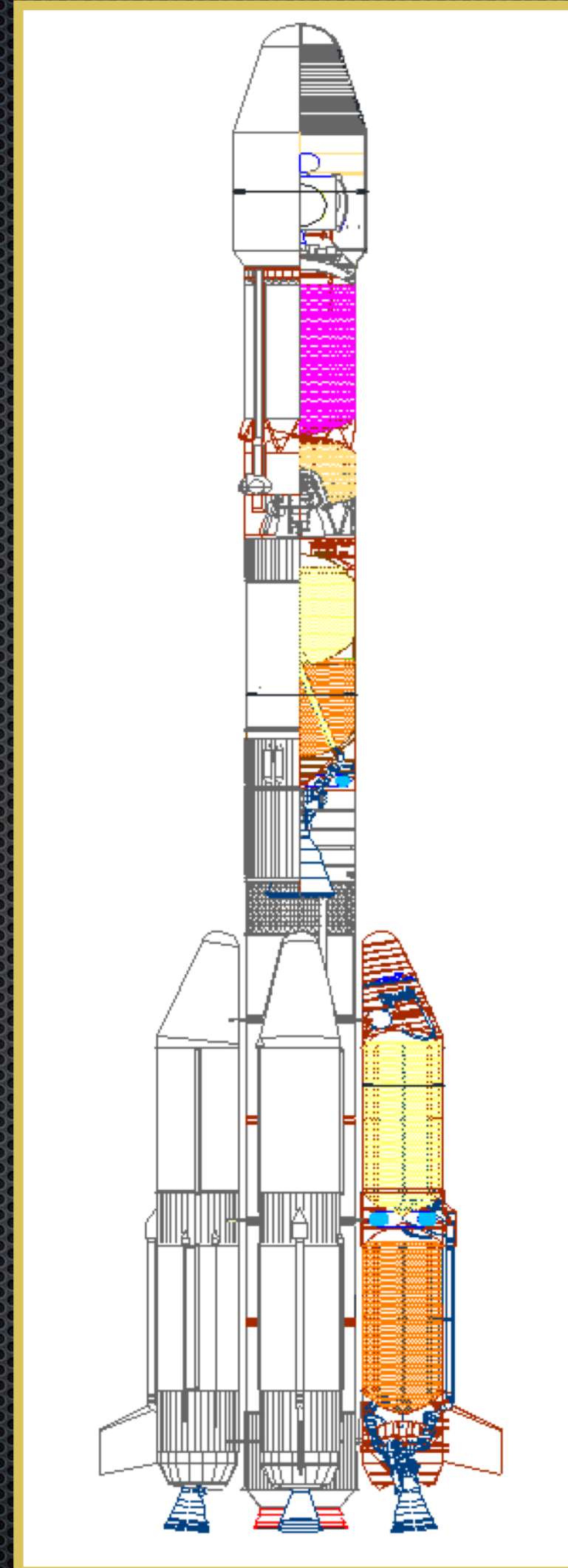
Foreign Satellites: 431

Spacecraft Missions: 124

Launch Missions: 93

Student Satellites: 15

Satellites by Indian private players: 3
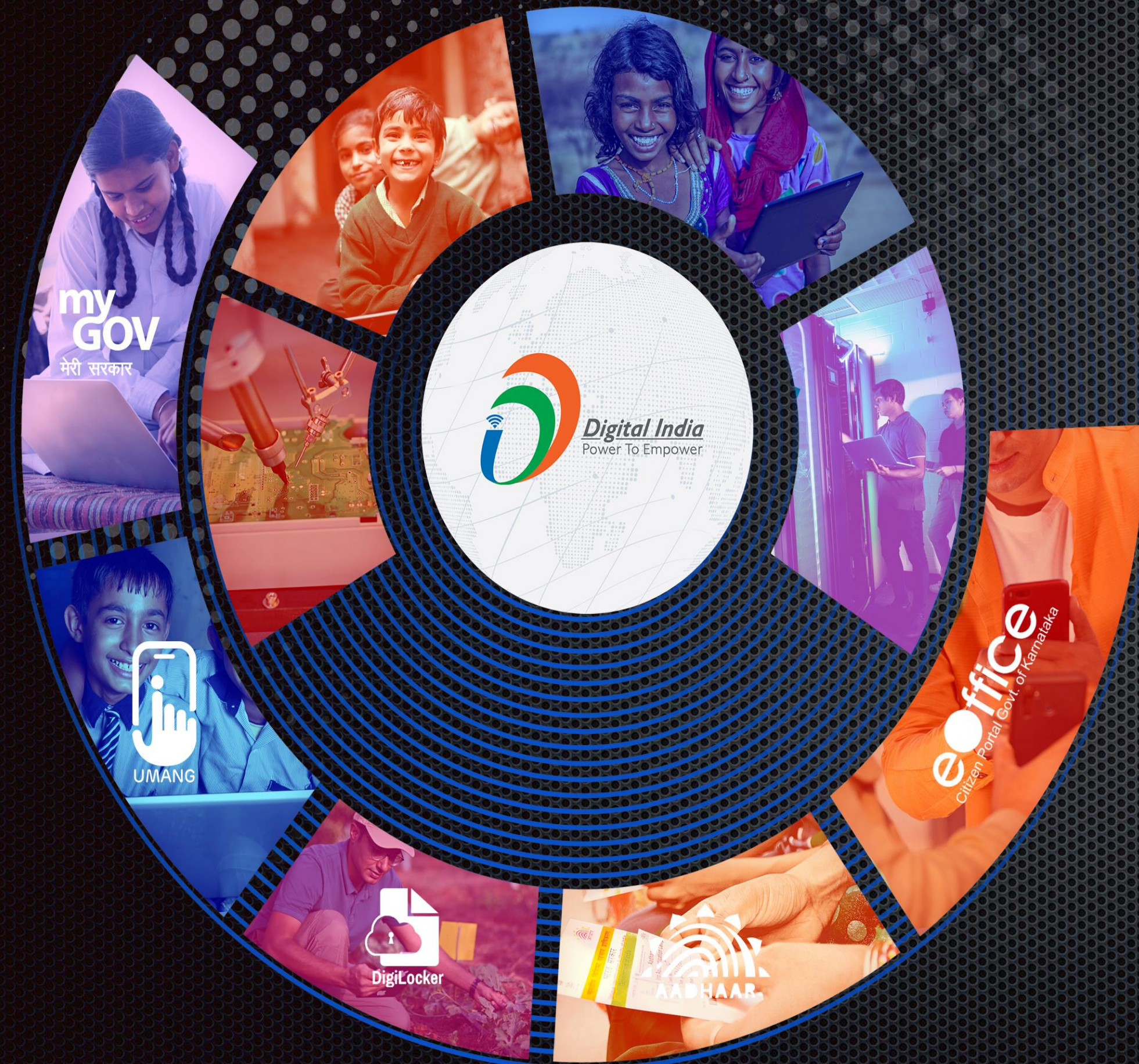
Reentry Missions: 2

India's Chandrayaan-3 Lander Vikram
The Moon   69.373 S, 32.319 E
August 30, 2023   11:04 Hrs. IST

इसरो ISRO

India Tech **Transforming the WORLD**

India Stack Goes Global

- India Stack serves the purpose of **being secure and ensure increased penetration of welfare within the country**

- The **Open-Source nature of India** Stack has got several countries interested in implementing it in their country

- India Stack will give a **new angle into Governance and Economies**

- **UPI is currently accepted** in France, Singapore, UAE and Sri Lanka

- **MoUs** with countries namely Armenia, Sierra Leone, Suriname, and Antigua & Barbuda has been signed

Achievements in 10 years: The Techade

5.50 crore registrations in UMANG App

1st in Global Real Time Online Transactions

5 lakh+ functional Common Services Centres (CSCs)

220 crore+ Vaccines provided through Co-WIN app

6.73 crore applications verified in National Scholarship Portal

8 crore+ Land Parcels digitised PM SVAMITVA Yojana

3.27 crore+ users in MyGov

734 seconds to 47 seconds, time reduced at toll due to Fast Tag

Lowest Data rate in the world

50 crore+ people have access to formal banking through Jan Dhan Accounts

137 crore+ Aadhaar world's largest Digital Identity Programme

114 crore+ Mobile Connections – India is world's largest connected democracy