



AADHAAR

Mera Aadhaar, Meri Pehchaan

India Stack Developer Conference

Jan 25, 2023

Current State of Aadhaar: Enrolment Saturation



135.4 Cr

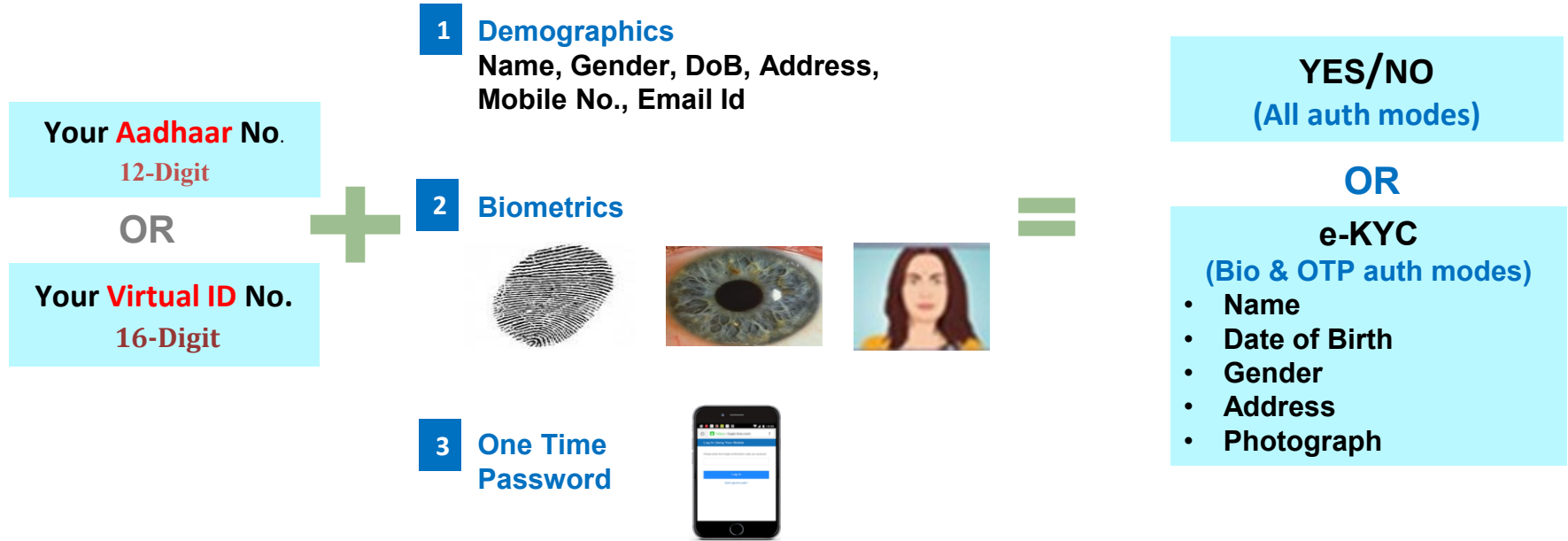
**Aadhaar Generated
Till Date**

**Updates now more
than 4 times the new
enrolments**

Aadhaar ('Live') Saturation

Age Group	Saturation
Overall	94.5 %
Adult (>18 years)	~ 100 %
5-18 years	95.3 %
0-5 years	37.2 %

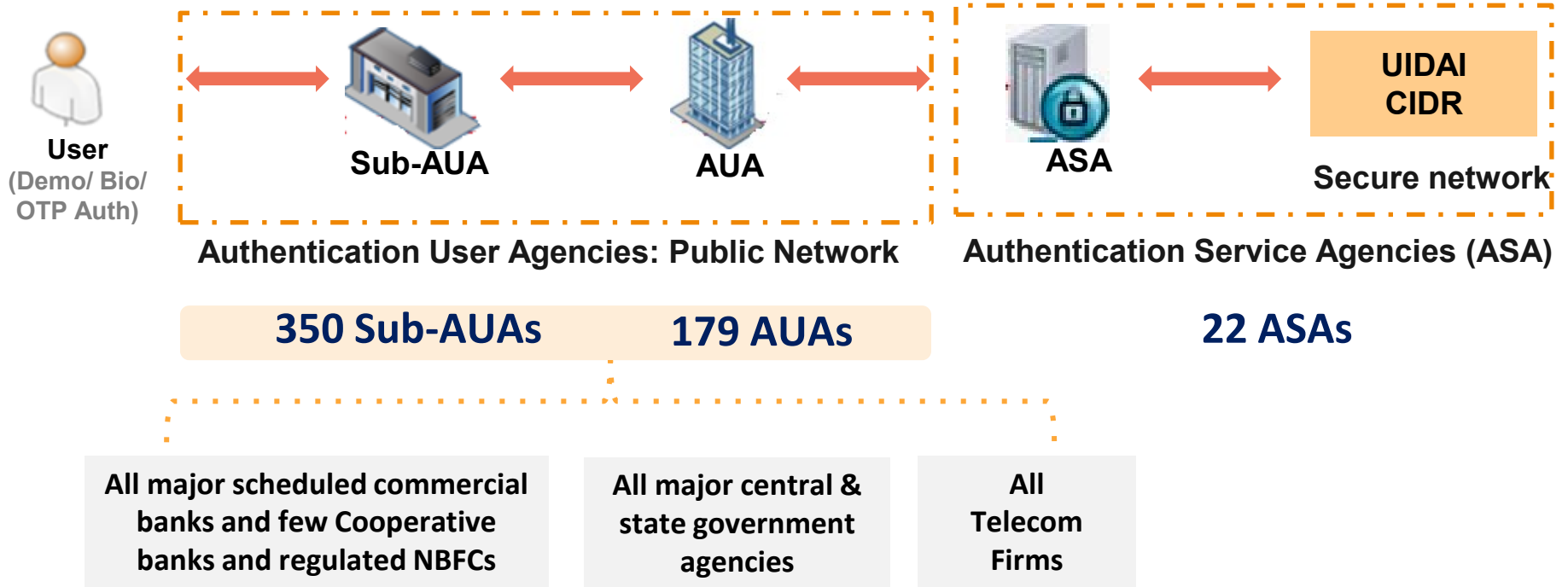
(Online) Aadhaar Authentications



7+ Cr authentications a day & growing

**Current total authentication transaction capacity of 10 Cr transaction/day;
Capacity being augmented to handle 20 Cr transactions/day**

Online Authentication Ecosystem



**Another 300 NBFCs (regulated by SEBI, RBI, IRDA) already notified to use Aadhaar;
Many more being added in near future**

Increasing Usage of Aadhaar: Cooperative Banks & NBFCs



- **Cooperative Banks:** Steps being taken to onboard all Cooperative Banks to Aadhaar platform: consultations with NABARD and NPCI underway on design and costs involved
- **NBFCs:** Efforts underway to make on-boarding process for NBFCs simpler in consultation with DoR and the financial regulators such as RBI, SEBI, PFRDA & IRDA

Recent Initiatives: Face Authentication Introduced

Launch of mobile-based Face Authentication on
Oct 15, 2021: ~ 1 Cr transactions in Dec, 2022

- 10 Entities on-boarded till date: NIC - DoPPW (Jeewan Praman), NIC AeBAS, NHA, FRUITS (Karnataka), RBL Bank, Kotak Mahindra Bank, GVWV & VSWS (Govt. Andhra Pradesh), Airtel Payments Bank Ltd., NTA, APT Online
- Process of on-boarding underway for another 9 entities

The Offline Version for Face Match also being tested



Recent Initiatives: Authentication Charges Reduced

Online Authentication

(Requires registration with UIDAI)

Yes/No



eKYC

Government Agencies **FREE**

Per transaction charges for all non-govt. agencies **₹0.50**

Government Agencies **FREE**

Telecom Firms **₹20 ₹1**

Other entities including Banks **₹20 ₹3**

Offline Verification / Voluntary Usage

(Can be done by anyone including Private Agencies)



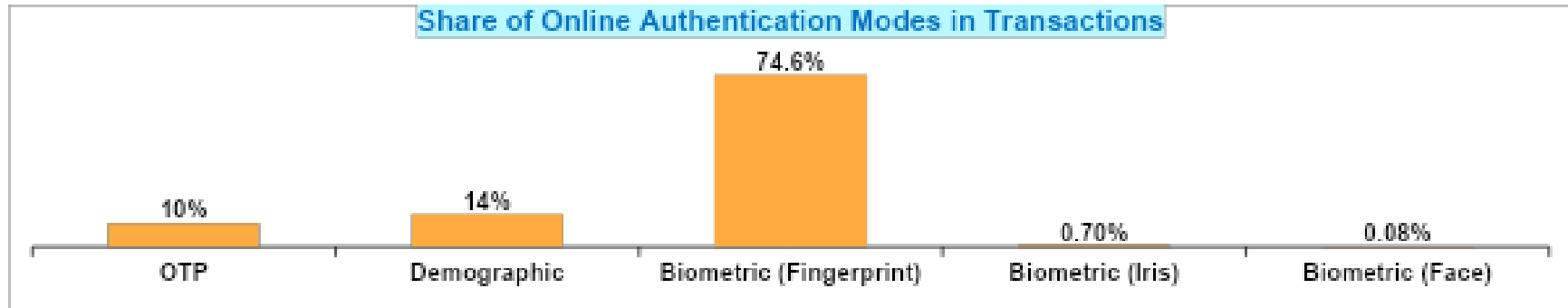
Has always been Free For All



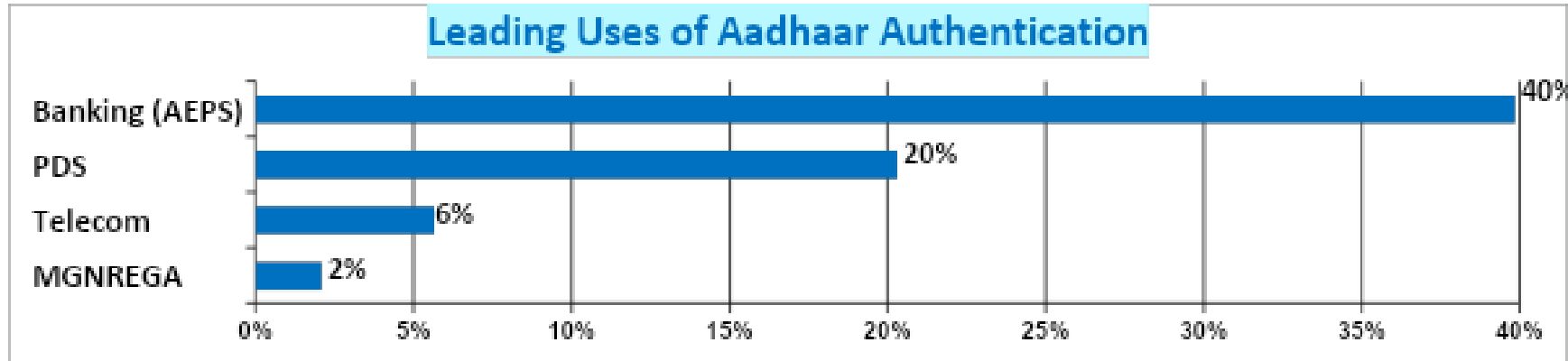
Special Focus on increasing Voluntary use of Aadhaar including via Offline Verification mode

Breakup of (online) Authentication Transactions

Share of Online Authentication Modes in Transactions



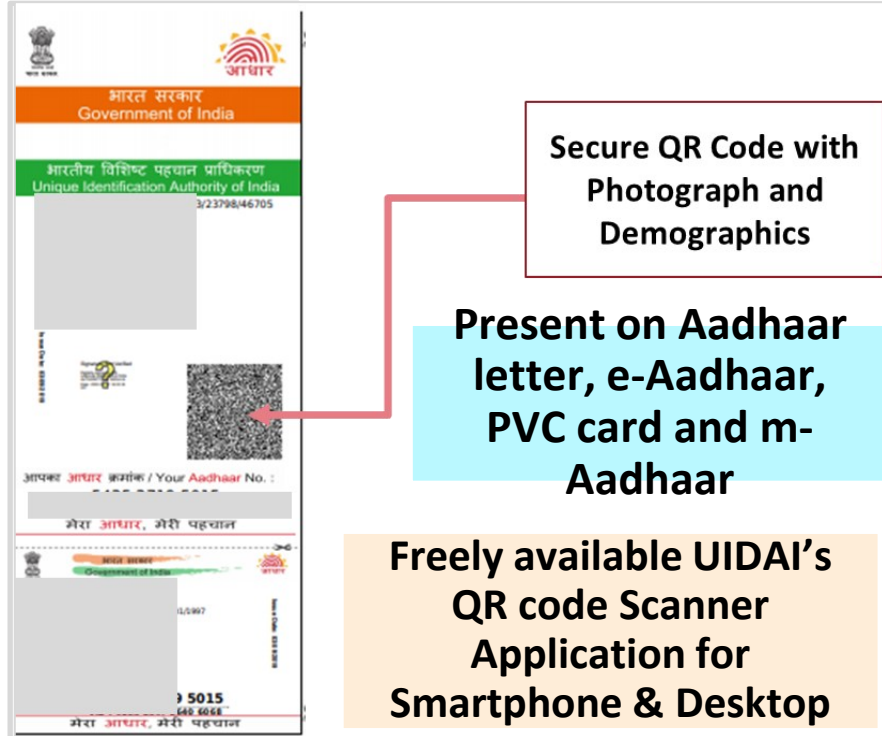
Leading Uses of Aadhaar Authentication



Offline Verification of Aadhaar

Use of Aadhaar for identity verification and carrying out KYC process locally

Digitally Signed Secure QR Code



Secure QR Code with Photograph and Demographics

Present on Aadhaar letter, e-Aadhaar, PVC card and m-Aadhaar

Freely available UIDAI's QR code Scanner Application for Smartphone & Desktop

Aadhaar PVC Card



Other Digital Formats of Aadhaar

- XML/PDF
- Preferred format for high quality photo
- Can be Shared online

Increasing Offline Use of Aadhaar by Businesses

mAadhaar-based Use-cases Development Underway



1

Offline KYC through
Deeplinking

2

Sharing Aadhaar
Offline KYC with an
Entity app running on
another device

3

Local face Match for
AUAs

4

Access Control Flow

Resident Consent Driven

Uses Local Face Match

Completely Offline

Developed Around mAadhaar

Aadhaar and India Stack

The Digital Public Infrastructure



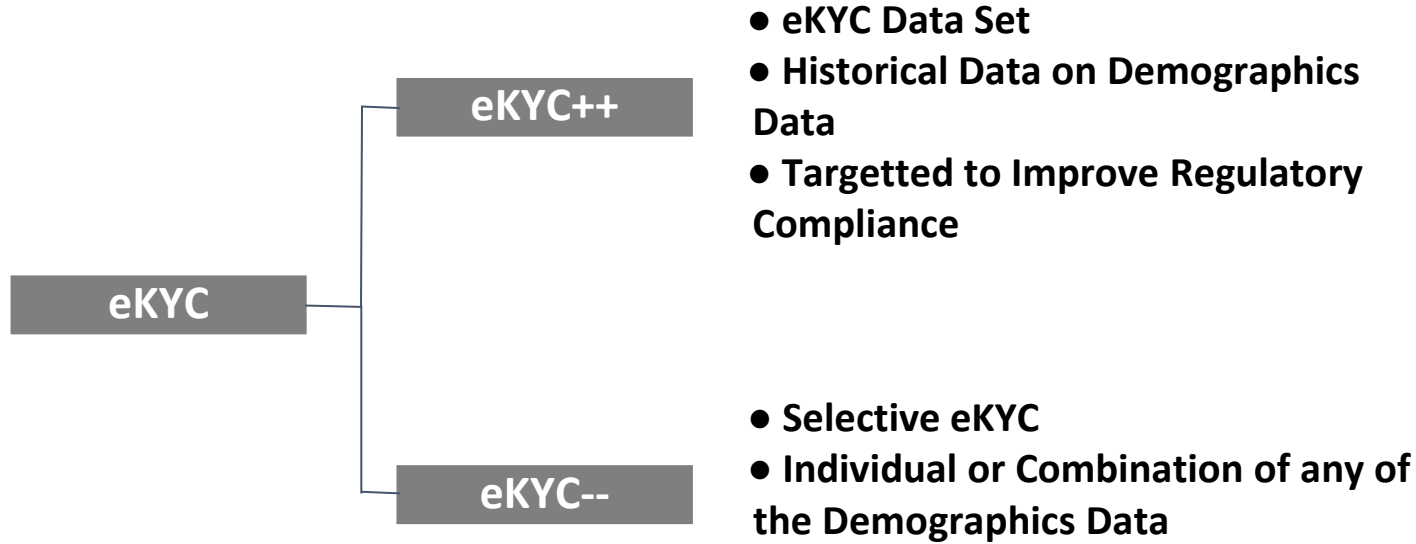
Aadhaar Provides the Foundational Identity Layer to the India stack

APB	AEPS	eKYC	eSign & Digilocker	UPI
Aadhaar as a central key for channelizing the Govt benefits & subsidies		Digital process of Know Your Customer verification	Issuance and verification of documents & certificates in a digital way	The most advanced card-less public payments system

- **AEPS** enabling doorstep banking: >40 crore transactions/month through 35 Lac Micro ATMs
- **eKYC** led to opening of > 45 crore bank accounts under PMJDY
- **eSign** Replacing the costlier and less-efficient dongle based Digital Signature Certificates
- **Aadhaar-linked Digilocker**: A Paperless way of storing Essential Documents
- **UPI registration based on Aadhaar** for benefitting the no-frills account holders

eKYC Related Enhancements

Need Based KYC Data Exchange



Would be Made Available Across All Channels (KUA/myAadhaar/mAadhaar)

Collaboration with Industry & Academia

Promoting Usage and Strengthening Aadhaar Ecosystem

- **Data Science Workbench**
 - For the Larger Research Community for Leveraging Anonymized Feature Database
 - Development of AI/ML Based Products and Services for Residents
- **Bug Bounty Programme**
 - In Progress for Technology Infrastructure and Application Eco-system
- **Standardisation**
 - Discussion Underway with MOSIP for Development of Standards
 - Will Promote Development of Secure Biometric Devices

Collaboration with Industry & Academia *contd..*



Promoting usage and strengthening Aadhaar ecosystem

- **Development of Indigenous Automated Biometric Identification System (ABIS)**
 - ❖ Development underway in collaboration with IIT, Hyderabad
 - ❖ Based on Deep learning (Artificial Neural Networks)
- **Volunteers from Industry**
 - ❖ Supporting product development activities at UIDAI
- **Young Professionals and Interns from Premiere Institutes**
 - ❖ About 40 Young Professional spearheading niche technology

Developer Initiatives

Promoting Innovation through Collaboration



- **UIDAI's Sandbox**

- Environment to Develop Products and Services Around Aadhaar APIs
- NASSCOM has Expressed Interest to Collaborate.
- Benchmarking of the Indigenous Biometric SDKs

- **Git Repository**

- Effort Underway to Collate Aadhaar Product Documentation in Git
- Reference Code around Aadhaar APIs and Products
- Issue Tracker for Two way Communication with the Developer Community

Many people here, have same name as yours, just tell the God your 'Aadhar number' clearly.



Thank You