

# The Aadhaar Project

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OVERALL MANDATE OF THE AADHAAR PROJECT

AADHAAR AND IT'S POTENTIAL

DIRECT BENEFIT TRANSFER AND AADHAAR



#### WHY AADHAAR FOR INDIA

- ► ONLY 50 MILLION INDIAN HOLD PASSPORT
- ► CLOSE TO 100 MILLION HOLD PAN CARD
- ► CLOSE OF 200 MILLION HAVE DRIVING LICENSE
- ► VAST SECTION OF POPULATION DON'T HAVE ANY ID PROOF



#### Context of Aadhaar

- Providing a formal identity proof to millions of residents
- ▶ This identity proof would be a gateway to access services
- Need to streamline government expenditure cut wastage and leakage
- Need for a transparent and accountable system of public expenditure
- Social inclusion project with a developmental focus



#### UIDAI issues Aadhaar numbers...





Basic demographic data and biometrics stored

Standardized identity attributes

No duplicates(1:N check)

Minimal demographic data collected

UID = 1568 3647 6218

UID ⇔ Unique number ⇔ Random number

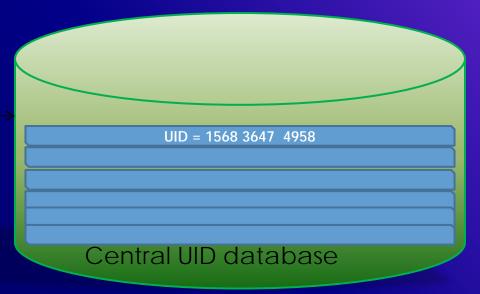


#### ... and authenticate IDs online, real-time

Authentication - 'Are you who you claim to be?'







- 1:1 check, no ID fraud
- Only YES/NO response, no details no invasion of privacy
- Person can see self-details, no one else can



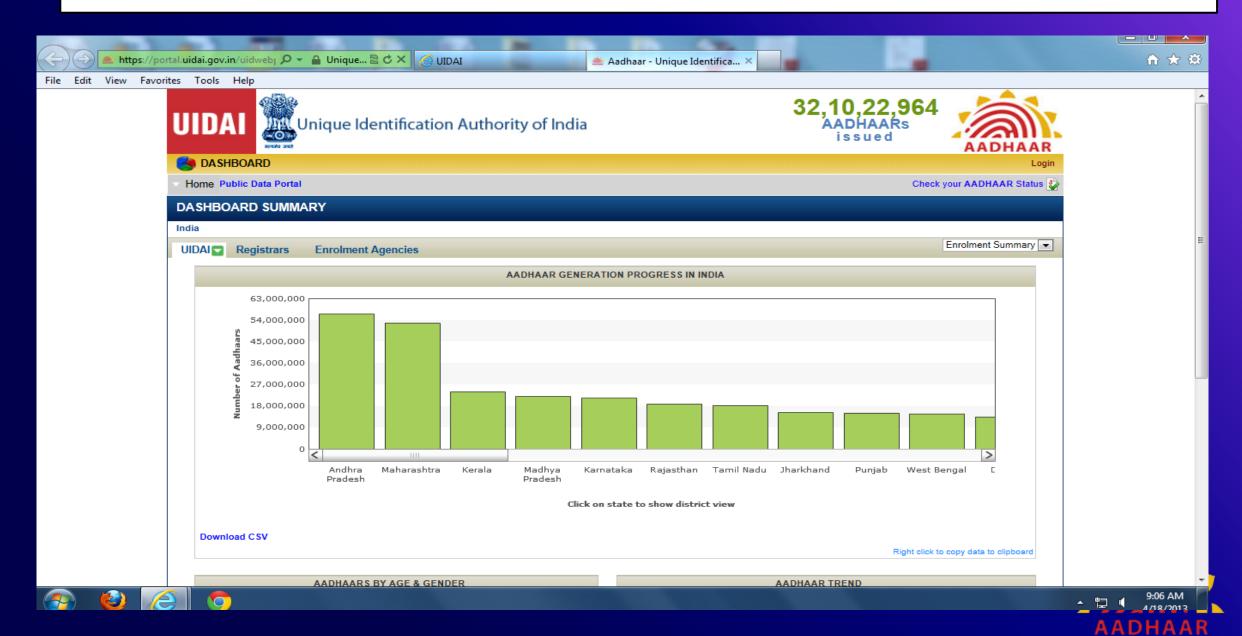
## Where are we today...



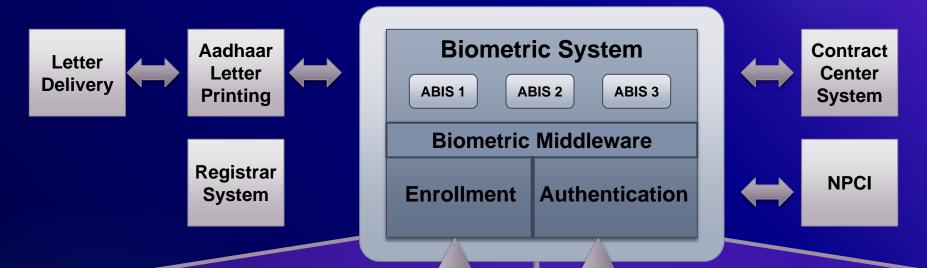
- UIDAI started issuing Aadhaar in Sept 2010
- ► Over 320 million Aadhaars issued so far
- ► Over 380 million residents enrolled
- ▶ Target is 600 million by 2014



#### AADHAAR GENERATION STATUS STATE WISE



#### Partner Ecosystem



Enrolling Agency

Operator Cert

Training Agency

Device Testing & Cert

Enrollment Ecosystem



ASA



Auth User Agencies Device Testing & Cert

Authentication Ecosystem



#### Dimensions of the Aadhaar Project

- ▶Scale
  - ► Geographically Daily Operations across India
  - ▶25,000+ stations deployed
- ▶ Speed
  - ~1m/day mark reached in less than 18 months of 1st Aadhaar Generated
- Operations Model
  - ► Public (Registrar) Private (Enrollment Agency) partnership driven



#### Aadhaar Technology







**Enrollment Packets** 

















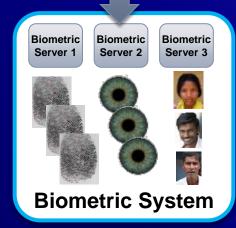




















# Enrolment centre, Andhra Pradesh





# Enrolment Centre, Jharkhand





# Enrolment Centre, Puducherry





# Aadhaar and it's potential



# Service Delivery potential due to Authentication

- Transactions normally require verification of identity
- Aadhaar online authentication will provide a common platform which can be used across all transactions and other applications.
- Entitlements should reach the intended beneficiary nontransferability can be ensured
- This can be effectively done by authentication at the point of service delivery
- Many sectors will be able to use as a proof of presence for the beneficiary



## Empowerment, Choice and Convenience

Identity

 Unique identity to every resident of India which is nationally valid – especially useful for those who have no proof of identity

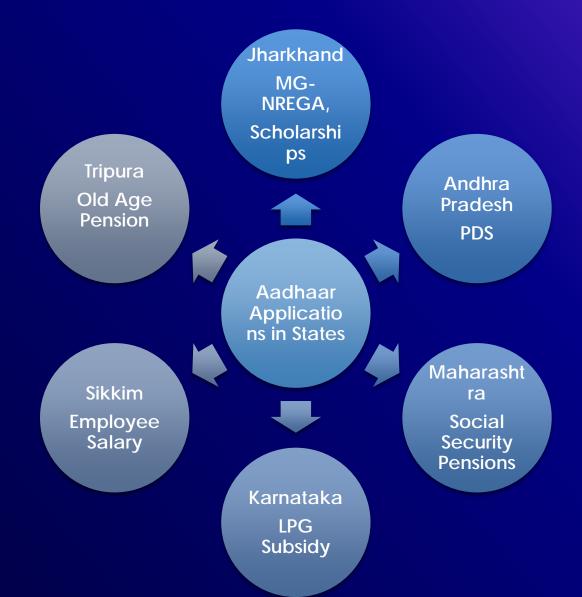
Mobility

 Aadhaar authentication because of its on-line nature can also be verified anytime, anywhere.

Gateway to Services  As Aadhaar can become a KYC for a whole range of products and services (bank accounts, mobile connections, LPG connections, state Govt. services, insurance, etc)



# Aadhaar based government application pilots – Country wide spread





#### MNREGA payments through Micro-ATM in Jharkhand





# PDS delivery based on Aadhaar Authentication in East Godavari, Andhra Pradesh



#### Old age pension payment in Tripura



#### AADHAAR PLATFORM FOR BANKING

#### Access

- Open Bank Accounts using Aadhaar Sufficient KYC
- Existing Bank Account can be linked to Aadhaar number

#### Address

- Transfer funds to Aadhaar Enabled Accounts
- Simplifies disbursal of funds uses only one account for all disbursals
   Convenience for the beneficiary

## Transactions

- Withdrawal and deposit, check balance
- End to end auditability and traceability
- Inter-operable, portable anytime anywhere
- Better than local, non-interoperable solutions that limit choice

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# Aadhaar accepted as KYC for various services



Mobile connections



Bank A/Cs, Insurance, etc.



LPG Connections



**State Government Services** 



Train Travel



Many other services.

#### AADHAAR AS E-KYC SERVICE

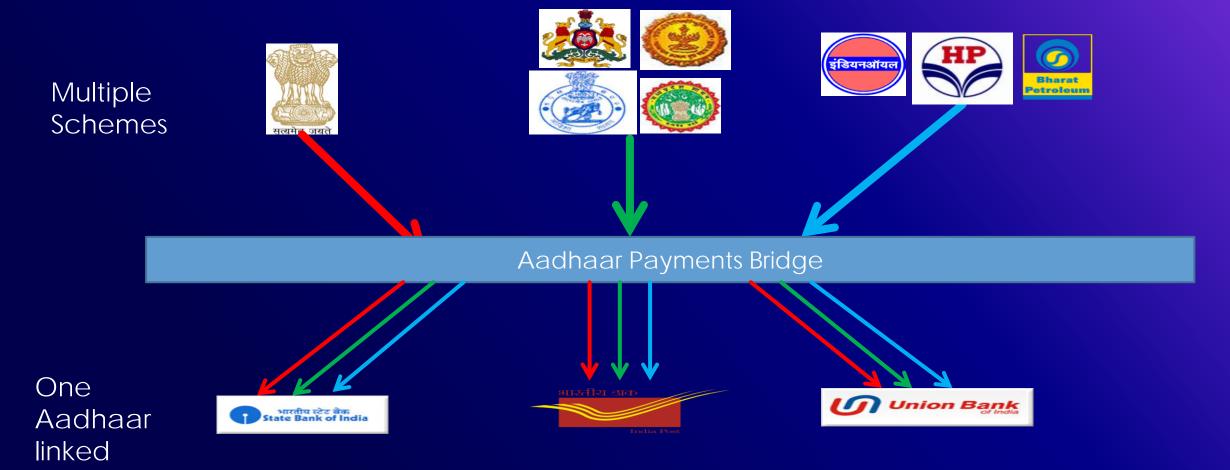
- 1. "Instant" Opening of Bank Account through a Micro-ATM based on Aadhaar authentication hugely empowering to the unbanked
- The Aadhaar e-KYC service instantaneously provides basic data (name, address, date of birth, gender, photograph) of the beneficiary to the Bank upon successful Aadhaar authentication.
- 1. The e-KYC service can scale up to lakhs of transactions on a daily basis
- 2. Provides convenience to the unbanked. Enables opening of large number of bank accounts on scale.



## DIRECT BENEFIT TRANSFER AND AADHAAR



#### All direct cash transfers into one account

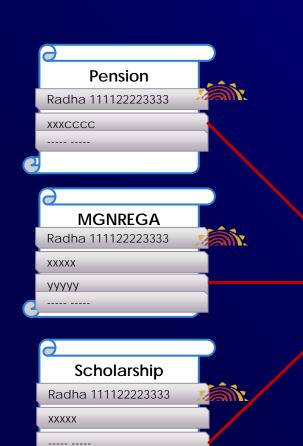


**APB Compatible with CPSMS** 

account



# End-to-End Direct Benefit Transfer Enabled by Aadhaar



1. Aadhaar to de-duplicate databases



2. Aadhaar as KYC to open bank account

#### Aadhaar Payment Bridge

- 3. Aadhaar as a payment destination
  - Bank Account portability
  - Many schemes, one Aadhaar linked bank account









4. Withdraw from any MicroATM – Choice and Convenience

#### Micro-ATM transactions

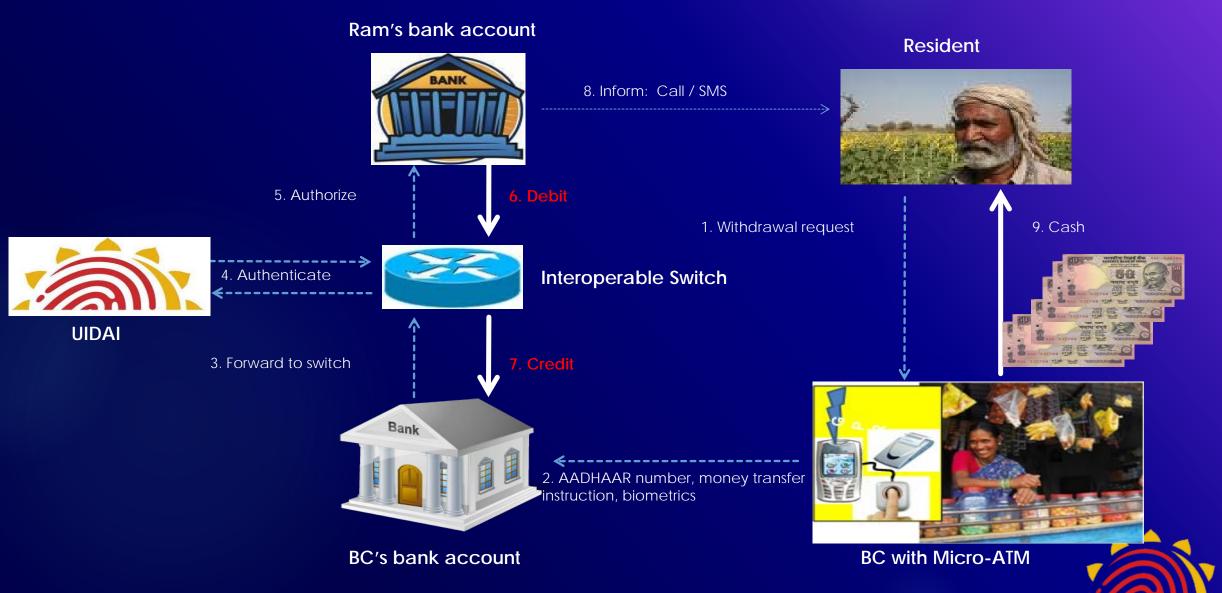
- 1. HANDHELD DEVICE AND BATTERY POWERED
- 2. ONLINE CONNECTIVITY THROUGH MOBILE NETWORK
- 3. MICRO-ATM STANDARDS SET BY RBI AND IBA (MANUFACTURED BY MULTIPLE VENDORS)
- 4. BIOMETRIC SCANNERS ARE CERTIFIED
- 5. INTEROPERABLE DEVICES AND CAN WORK FOR ANY BANK AND ANY BC



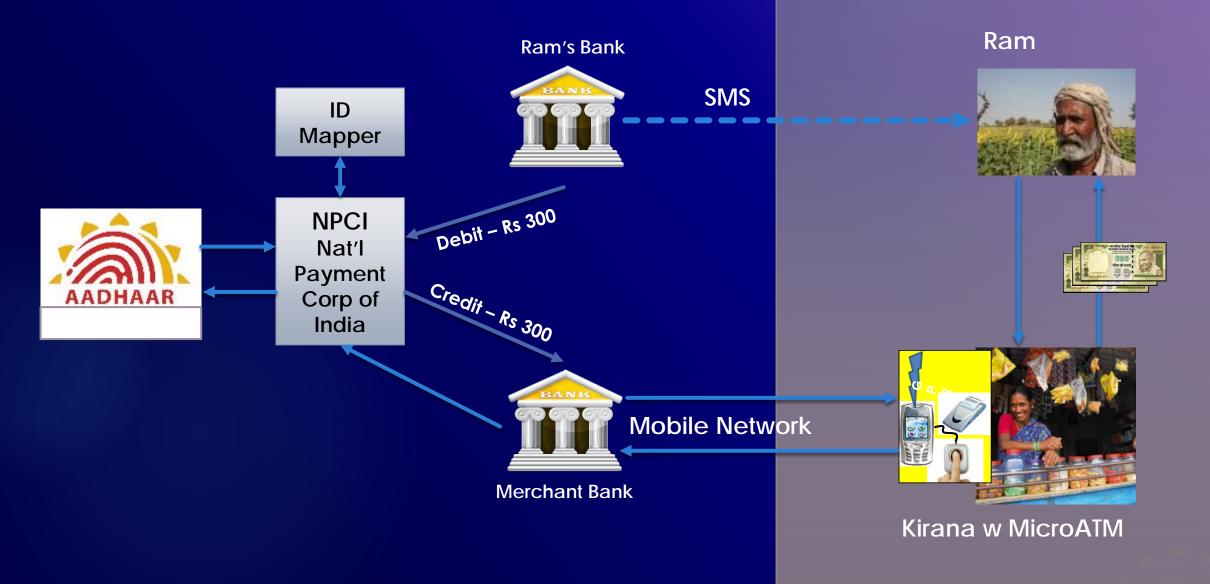
Total online transaction time less than 15 seconds – Verified on the ground from Tripura, Jharkhand, Maharashtra, and Andhra Pradesh



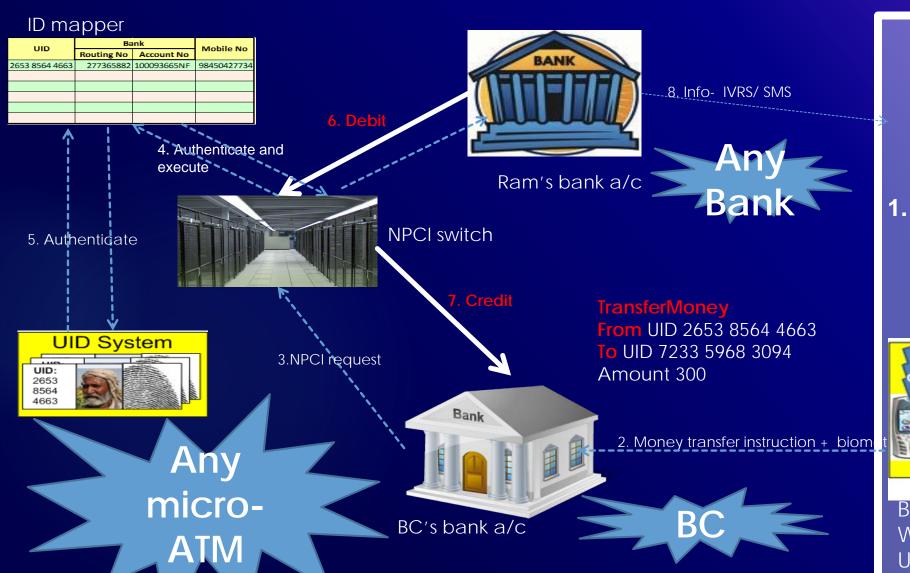
#### Convenient cash withdrawal

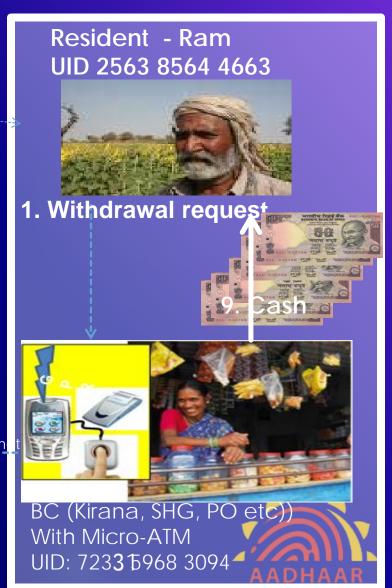


#### Ram Withdraws Cash at His Own Village



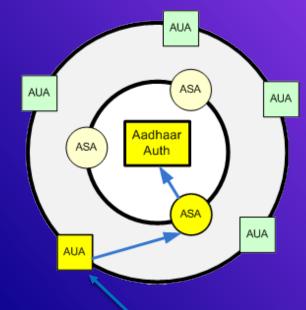
# Inclusive convenience banking





# Data Privacy and Security

- ▶ Enrollment System
  - ► Aadhaar random number with no information
  - ▶ Data encrypted at source Enrollment client
  - ▶ All packets biometrically signed by operator
  - Raw biometrics never stored in clear and decrypted only when needed
  - Data partitioned across multiple security
- ► Authentication System
  - ► Auth response only YES/NO
  - ► AUA and ASA perimeters
  - Supports Federated Auth model





Policy

Management

eGRC Platform

Incident

Management

Management

Management

Management

Management

Management

Risk

Management

**Enterprise** 

Management

Compliance

Management

Audit

Management

**Business** 

Continuity

Management

**Threat** 

Management

Vendor

Management



#### To conclude...

- The Aadhaar number is a form of empowerment to those who had no proof of formal identity
- Empowerment is achieved by providing access, choice, empowerment and convenience
- Government spends large amounts on social welfare programmes



Obligation on State to have the capacity to ensure effective implementation as well as reduce leakage and corruption. The expenditure should reach the intended beneficiary

► The Aadhaar project is **one of the means** by which efficient delivery of service and inclusion with access can be enhanced.

Extensive use of data analytics tools to improve monitoring of implementation



# The impact...



Aadhaar identity platform and Aadhaar enabled applications can help a billion people to participate in digital economy and avail services tailored to them!



# Thank You

