

# ROLE OF NATIONAL IDENTITY SYSTEMS IN FINANCIAL INCLUSION & SERVICE DELIVERY

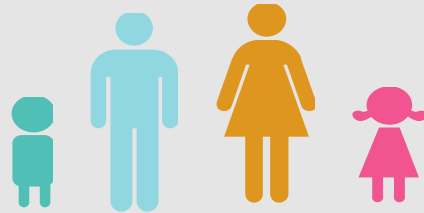
---

Himanshu Nagpal  
Financial Services for the Poor  
Bill & Melinda Gates Foundation

---

# IDENTITY AND FINANCIAL INCLUSION

**1.5 billion\***  
Unable to prove their identity



**Most unregistered children and adults come from poor, rural households:**

- **Africa:** 437 million (44% of people)
- **South Asia:** 630 million (36% of people)
- **Low income:** 348 million (39% of people)
- **Low-middle income (LMIC):** 841 million (31% of people)

*\*Estimated figures, World Bank ID4D Global Dataset, 2016*

**for 375 million\***  
not having an ID  
is a reason  
for not having a bank account



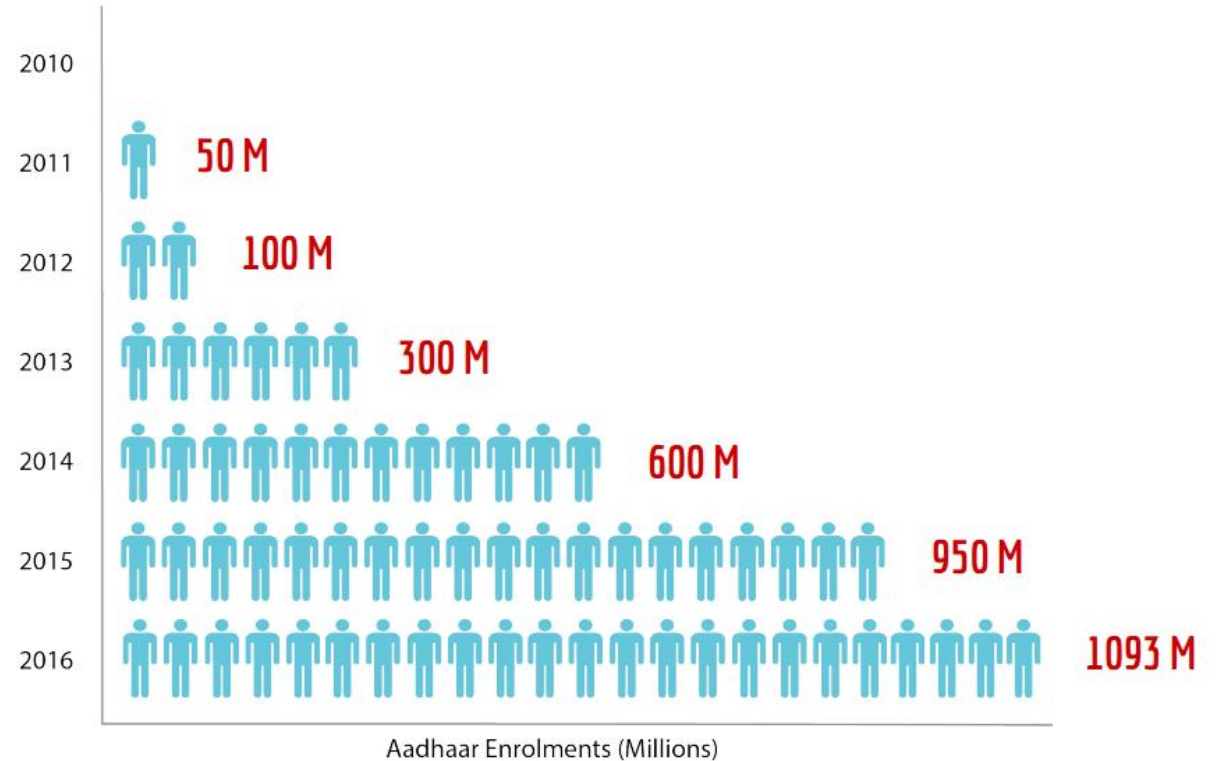
- **Lack of ID is Barrier:** 18% of Unbanked
- **Unbanked Estimate:** 2 Billion

*\*Source: Findex*

# INDIA APPROACH



 1 Billion in 5½ Years



Source: Data from <http://www.uidai.gov.in>

## DESIGN: SOME CHOICES INDIA MADE

- Minimal Data
- Including Children, Biometrics from 5Yr+
- Not Legal Identity
- Open Architecture: Competition, Commodity Hardware
- Open APIs: Easy Integration, Platform Approach
- No Card
- Leapfrog: No National ID to Digital National ID
- Decentralized enrolment with Public Private Partnership
- Anytime Anywhere Authentication and Consent Based E-KYC
- Public Good

# COSTS: AVERAGE ESTIMATE VS. AADHAAR

Key Factors : Economies of Scale, Cards (and type), inclusive registration needs, institutional capacity, data captured, etc.

**Costs of eID Systems**

Component	Description	Investment
Enrollment	Capturing identifiers at points of enrollment including biometric and biographic data	\$3 - \$6 per person
Register Maintenance	Database management and maintenance, updates, deduplication, other checks	+15% - 25% per year
Authentication Services	Mechanisms for verifying identity such as smart electronic cards that contain credentials on a chip (PINs, biometrics, PKI certificates) or online verification services	\$1.15 - \$5 per ID card depending on features +\$0.50 for digital certificates +\$0.05 - \$0.10 per year per card for maintenance <i>(POS Costs Additional)</i>

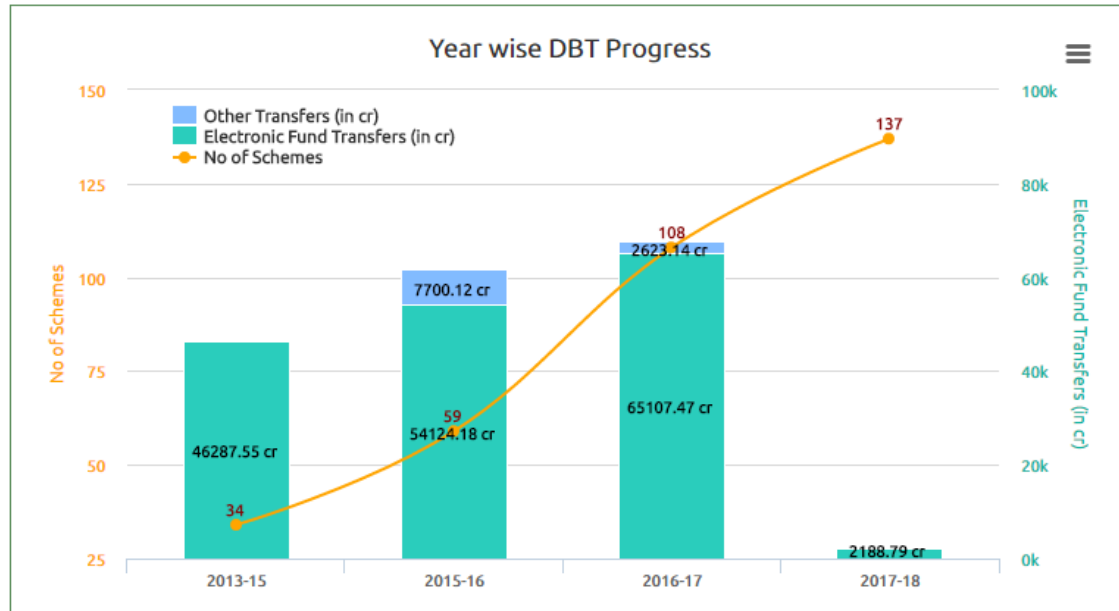
Source: Atick (2014).

- Average Aadhaar Enrollment Cost: **~\$1 per person**
- One off Voter Registration: \$15 per person  
Bolivia - \$22 Afghanistan (*Gelb Clark 2013*)
- Gelb estimates, for an average low income country, ID System:
  - ID system operating cost 0.2% GDP
  - Govt. Cash Payments 10-15% GDP
  - Only modest 2% of leakage elimination recovers operating cost

# BENEFITS: SERVICE DELIVERY



Direct Benefit Transfer  
Government of India



Source: <https://dbtbharat.gov.in/>

## Benefits:

- Cooking Gas Subsidy - accrued estimated savings of USD **\$2.26 Billion**  
(Source: UIDAI)
- Digitization of National Rural Employment Guarantee Scheme
  - **41% reduction in leakage** (from 30.7% to 20%)
  - Recipients spent 22 fewer minutes collecting payments (20% reduction)
  - Received payments 6-10 days sooner (17-29% faster)(Source: *Building State Capacity: Evidence from biometric smartcards in India*, by Karthik M. et. al.)

# BENEFITS: KYC COST



- A paperless Know Your Customer (KYC) process, wherein the Identity and Address of the subscriber are verified electronically (with explicit consent by the resident).
- Alternative to the current KYC process which is done on the basis of physical photocopies of the original documents (ID proof and Address proof)

Source: <https://indiastack.org/ekyc/>

## Benefits:

~\$5

Estimated KYC Cost for  
Traditional Banks in India

Vs.

~\$0.07

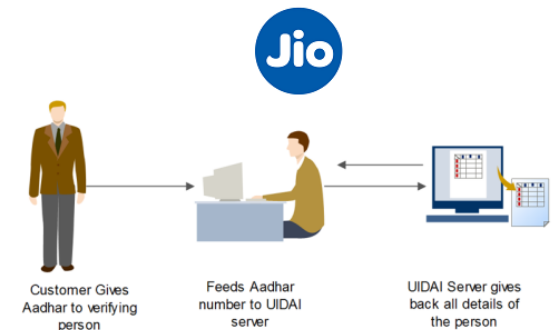
Estimated KYC Cost for  
Payment Banks in India  
(by utilizing SIM registration database)

Start using a new SIM in

**5 minutes**

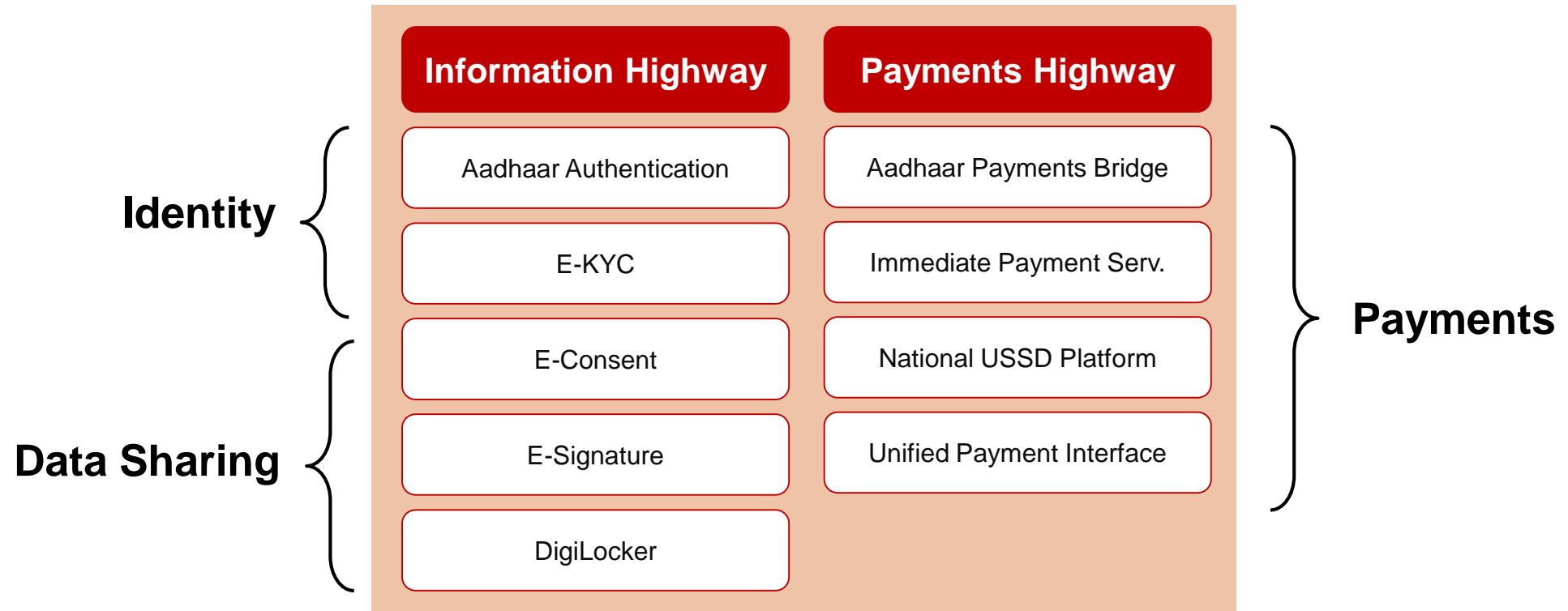
vs.

**2 days**



Source: Market dipstick surveys

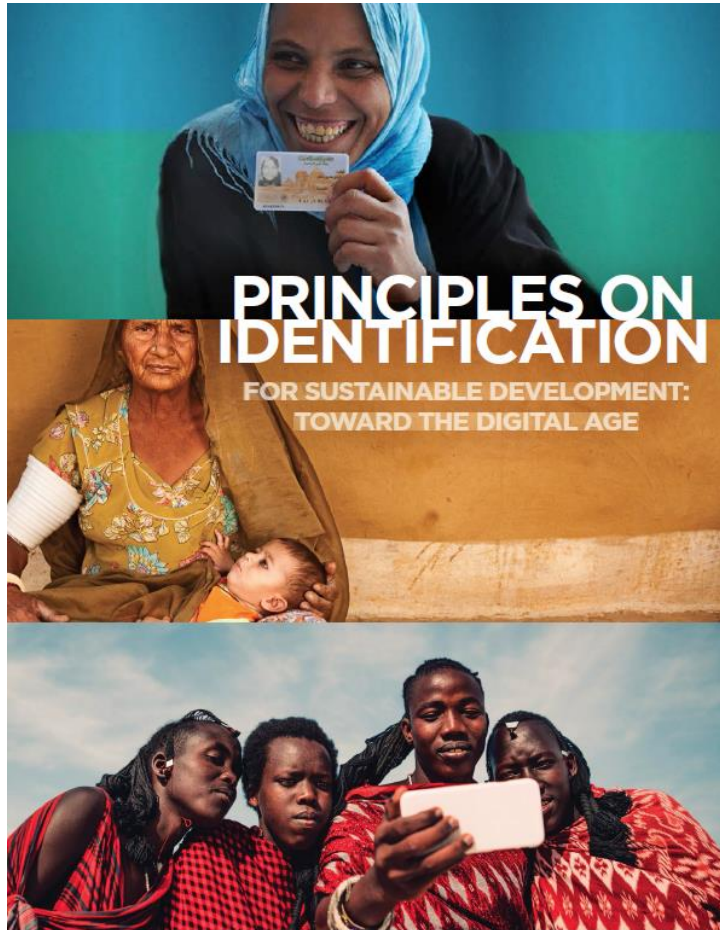
# BEYOND IDENTITY: THE INDIA STACK APPROACH



Source: iSPIRT, indiastack.org



# WORKING TOGETHER



## INCLUSION:

UNIVERSAL  
COVERAGE AND  
ACCESSIBILITY

## DESIGN:

ROBUST, SECURE,  
RESPONSIVE, AND  
SUSTAINABLE

## GOVERNANCE:

BUILDING TRUST  
BY PROTECTING  
PRIVACY AND  
USER RIGHTS

1. Ensuring universal coverage for individuals from birth to death, free from discrimination.
2. Removing barriers to access and usage and disparities in the availability of information and technology.
3. Establishing a robust—unique, secure, and accurate—identity.
4. Creating a platform that is interoperable and responsive to the needs of various users.
5. Using open standards and ensuring vendor and technology neutrality.
6. Protecting user privacy and control through system design.
7. Planning for financial and operational sustainability without compromising accessibility.
8. Safeguarding data privacy, security, and user rights through a comprehensive legal and regulatory framework.
9. Establishing clear institutional mandates and accountability.
10. Enforcing legal and trust frameworks through independent oversight and adjudication of grievances.

## ENDORSING ORGANIZATIONS

Asian Development Bank (ADB)  
Bill & Melinda Gates Foundation (BMGF)  
Center for Global Development (CGD)  
Digital Impact Alliance (DIAL)  
ID4Africa  
International Organization for Migration (IOM)  
Mastercard  
Omidyar Network  
Organization of American States  
OSCE Office for Democratic Institutions and Human Rights (ODIHR)  
Plan International  
Secure Identity Alliance (SIA)  
The GSMA  
UNHCR, The UN Refugee Agency  
United Nations Children's Fund (UNICEF)  
United Nations Development Programme (UNDP)  
United Nations Economic Commission for Africa (ECA)  
World Bank Group

*Facilitated by: World Bank Group and  
Center for Global Development*