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22-24 January 2019
Cairo, Egypt

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Applications of Digital ID in the financial sector - Key policy considerations

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Applications of Digital ID Finance: Panelists



JEREMY GRANT
Managing Director at
Venable LLP, FIDO
ALLIANCE.



Phindu Lipenga, Principal
Examiner, ICT at The
Reserve Bank of Malawi



Yiannis Theodorou -
Acting Head of Digital
Identity and Director of
Policy & Advocacy, GSMA



Mohammed Saidul Islam,
Director of the National
Identity Registration Wing of
Bangladesh

Moderator: Sharmista Appaya

Senior Financial Sector Specialist, World Bank Group

APPLICATIONS OF DIGITAL ID IN THE FINANCIAL SECTOR – KEY POLICY CONSIDERATIONS

Jeremy Grant
Managing Director, Technology Business Strategy
Venable LLP
jeremy.grant@venable.com
@jgrantindc



Digital: The Opportunity and the Challenge

Fintech from the Frontlines:

The Opportunity for Technology
to Improve Financial Services for All



“Identity is a precursor to access to fintech, yet identity continues to languish in analog forms that are difficult to build upon for the provision of digital services.”



“Identity is a precursor to access to Fintech...”



✕ **Activate WeChat ID**

Your account may have been compromised. In order to verify your identity, you will need to find a WeChat user to help assist in verifying your identity. The user doesn't need to be friends with you on WeChat. Once you've verified that the user meets the requirements above, enter their mobile number below::

- User registered at least six months ago and has continued to use their account regularly.
- User has not already verified an excessive number of other accounts (once per month, two accounts per six months, three accounts annually).

Select region >

Enter other user's mobile number

Next



Vetting identity is hard

Nobody wants to go through a vetting process more than once.

- Awful for customer experience
- Costly and duplicative
- Not optimal for digital



Vetting identity is hard

Solutions that once worked well for KYC... not so much anymore.

Equifax reveals vast scale of 2017 consumer data breach

Some 145 million customers' Social Security numbers were stolen, company says

Jeremy B White San Francisco | Tuesday 8 May 2018 18:24 | 0 comments



Security

IRS breach highlights weakness of 'knowledge-based' security

By Zach Noble May 27, 2015

The **compromise** of 100,000 taxpayer accounts through the Get Transcript application on the IRS website were not random hacks, but the exploits of an already-publicized vulnerability -- known to security experts since at least March.

And, in order to gain access, hackers already had a good deal of information on the affected taxpayers.

Hackers already had the keys



The opportunity in digital

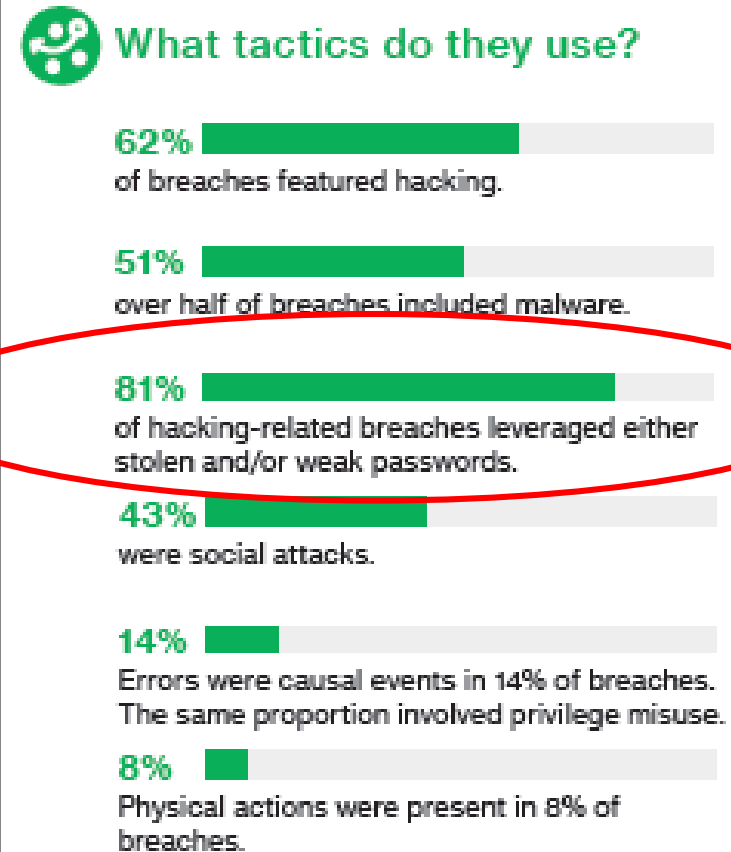


Vet once, reuse that “proofed identity” many times

By binding that “proofed identity” to a strong token that can be used to “unlock” the proof of identity each time it’s used

The opportunity in digital

- Though it does raise the question of how to later prove someone is the person who was proofed.





The Good News: The Market is Responding

- It's getting much easier to issue strong tokens – backed by multi-factor authentication
- Big banks and new identity startups are both creating alternatives to traditional KYC/identity proofing



Authentication is getting easier

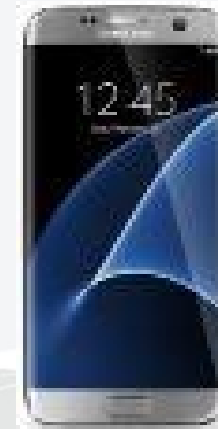


What once required



Photo courtesy of
Precise Biometrics

Now ships in this



These things are interesting

- Secure, hardware-based isolated execution environments (TPM/TEE/SE) – capable of generating, securing and applying cryptographic keys (tokens)
- Multiple biometric sensors (finger/face/iris/voice)

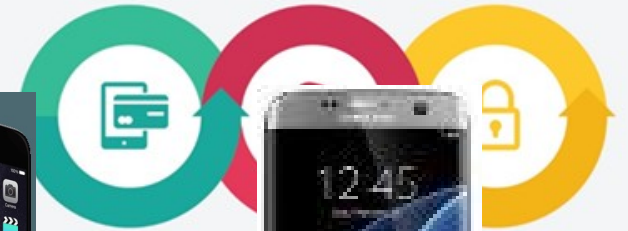


Strong, Multi-factor Authentication

Enabled by global standards



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But Identity Proofing is Getting Harder

Equifax reveals vast scale of 2017 consumer data breach

Some 145 million customers' Social Security numbers were stolen, company says

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Hackers already had the keys



Identity: The only global standard today



- Built for travel, not financial services
- Built for paper, not digital
- Built for a subset of the population

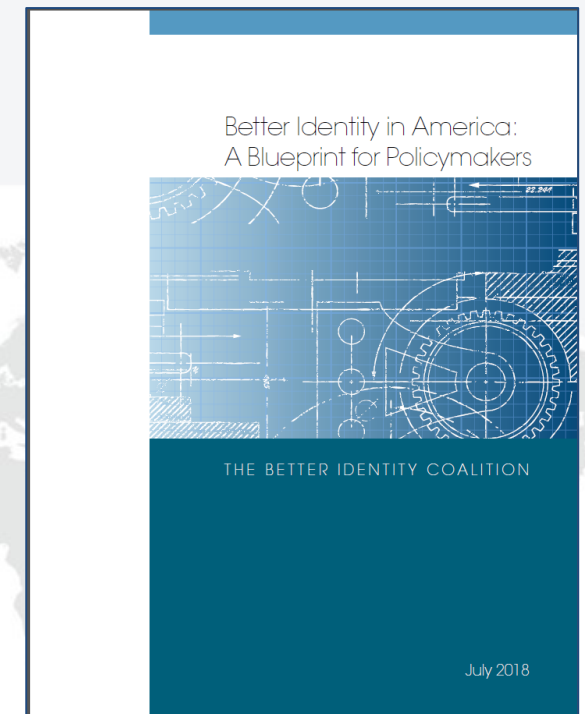


How do we create globally recognized standards for digital identity – that can address requirements for financial services?

A Policy Blueprint for “Better Identity”



- **Better Security – with Less Fraud and Identity Theft**
 - Eliminating traditional identity-focused attacks tied to stolen data and password compromises.
- **Better Convenience for Consumers**
 - Allowing consumers to open new accounts online with ease, without having to go through duplicative, burdensome enrollment processes.
- **Better Confidence for Both Consumers and Service Providers**
 - That identities asserted online are reliable and trustworthy.
- **Better Privacy**
 - Shifting the predominant model for identity verification from one based on firms aggregating personal data without opt-in consent, to one where consumers proactively request that their identity be validated by parties with whom they already have a trusted relationship.





Proof-of-Identity Policy Considerations:

Accelerating Financial Inclusion for the Underserved via Mobile

Yiannis Theodorou (@yiathe)

**Director of Policy & Acting Head
Digital Identity & Mobile for Humanitarian Innovation programmes
GSMA**



Who is The GSMA?

THE GSMA
WAS FOUNDED IN
1987

14 OFFICES
WORLDWIDE



SHANGHAI



SAN FRANCISCO



BEIJING



SÃO PAULO



NAIROBI



NEW DELHI



LONDON



DUBAI



ATLANTA



BRUSSELS



BARCELONA



HONG KONG



BUENOS AIRES

Connecting Everyone and
Everything to a #BetterFuture



The mobile industry is the
first to formally commit
to the UN Sustainable
Development Goals



The GSMA
represents
the interests
of mobile
operators
worldwide



MORE
THAN
750
MOBILE
OPERATORS



WITH OVER
350
COMPANIES
in the broader mobile ecosystem



The world's leading mobile industry events,
Mobile World Congress and Mobile World
Congress Shanghai, together attract nearly

190,000
people from across the globe each year

The GSMA works to deliver a regulatory environment
that creates value for consumers by engaging
regularly with:



MINISTRIES
OF TELECOMS



TELECOMS
REGULATORY
AUTHORITIES



INTERNATIONAL &
NON-GOVERNMENTAL
ORGANISATIONS



CONNECTING
23,000+
Industry Experts

Exclusively for GSMA Members,
InfoCentre² is your place to
connect with a global
community of industry experts

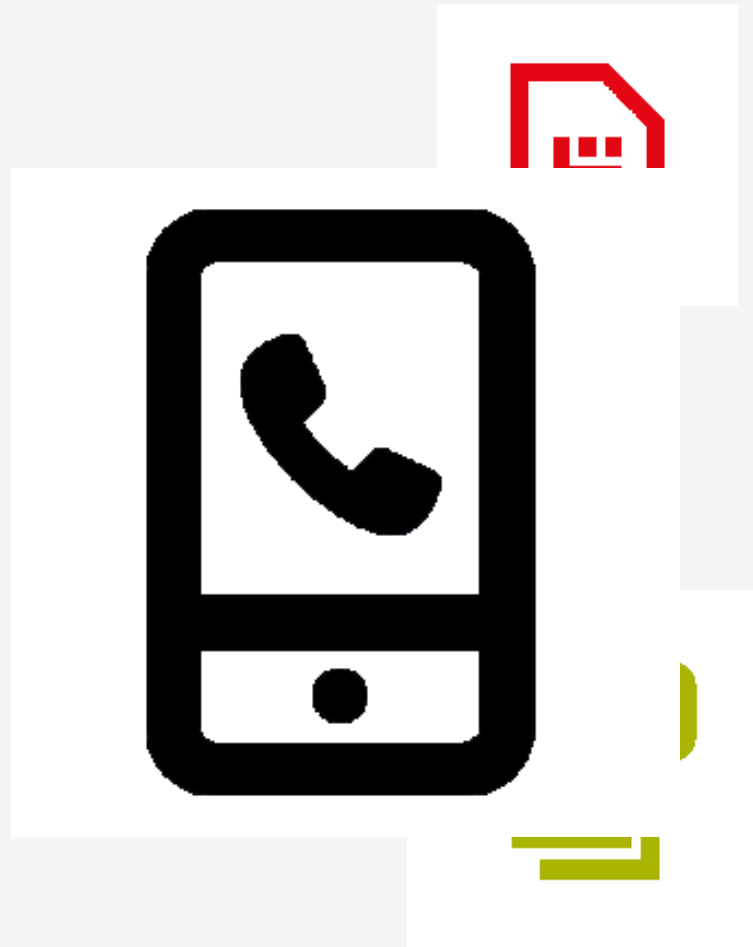
GSMA Working Groups
and programmes
provide frameworks and
standards in commercial,
operational and
technical matters that help
maintain and advance
mobile industry ecosystems



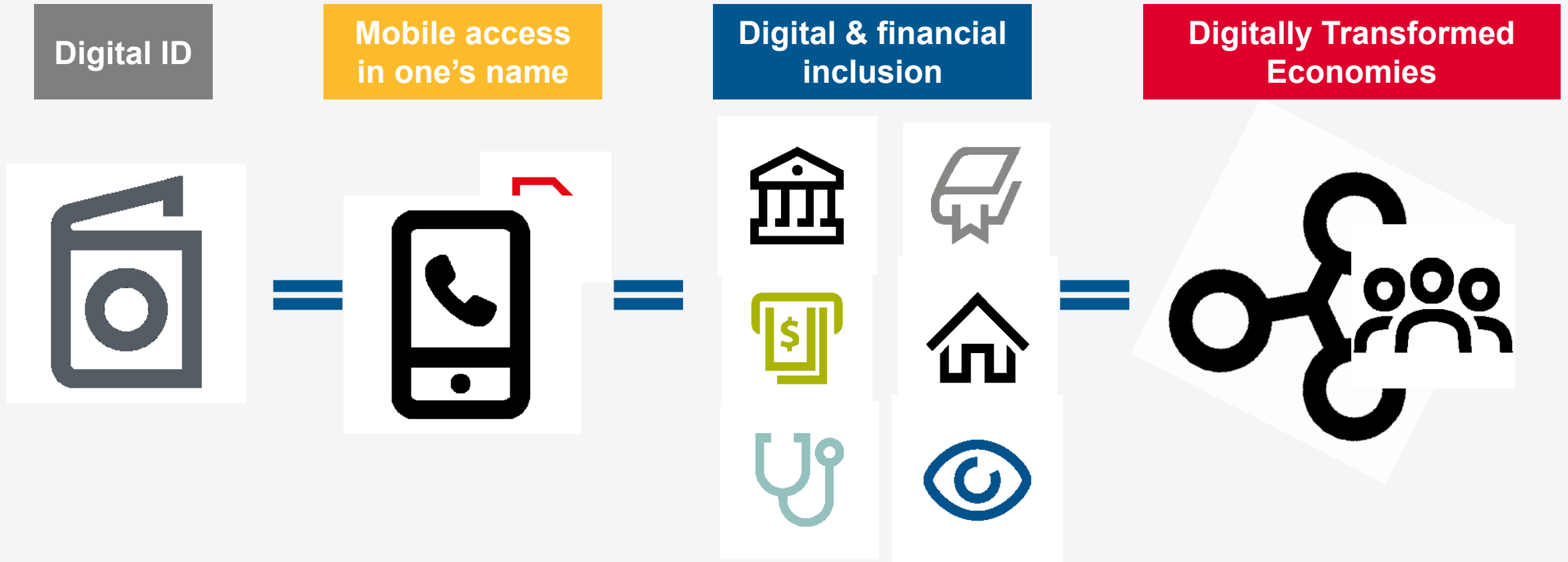
8.7 bn+

MOBILE CONNECTIONS
WORLDWIDE

Mobile has reached **more than 5 billion subscribers** worldwide
and **with 690m Mobile Money** registered accounts in 92 countries

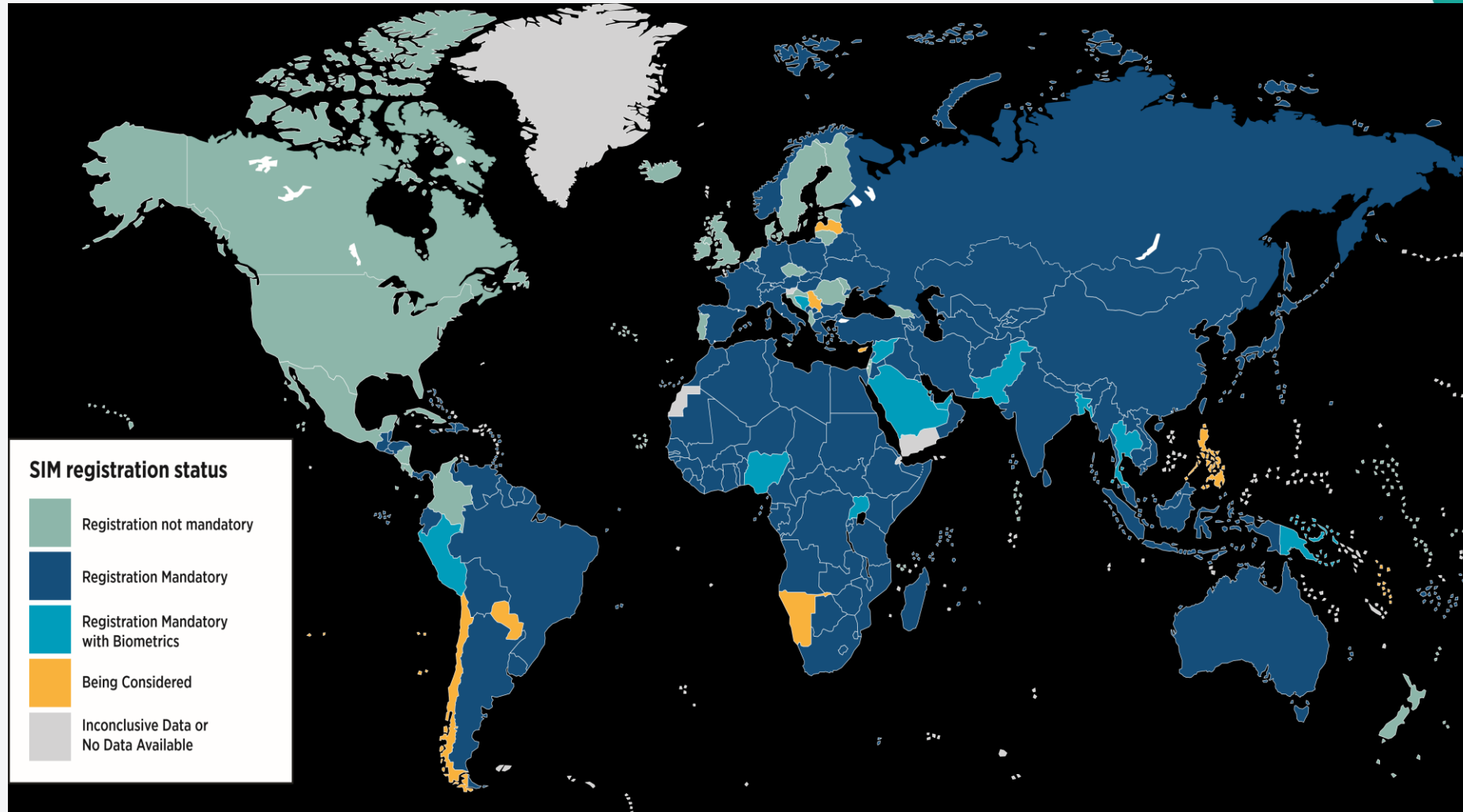


Mobile can play a key role in accelerating **digital and financial inclusion** as part of countries' Digital Transformation strategies



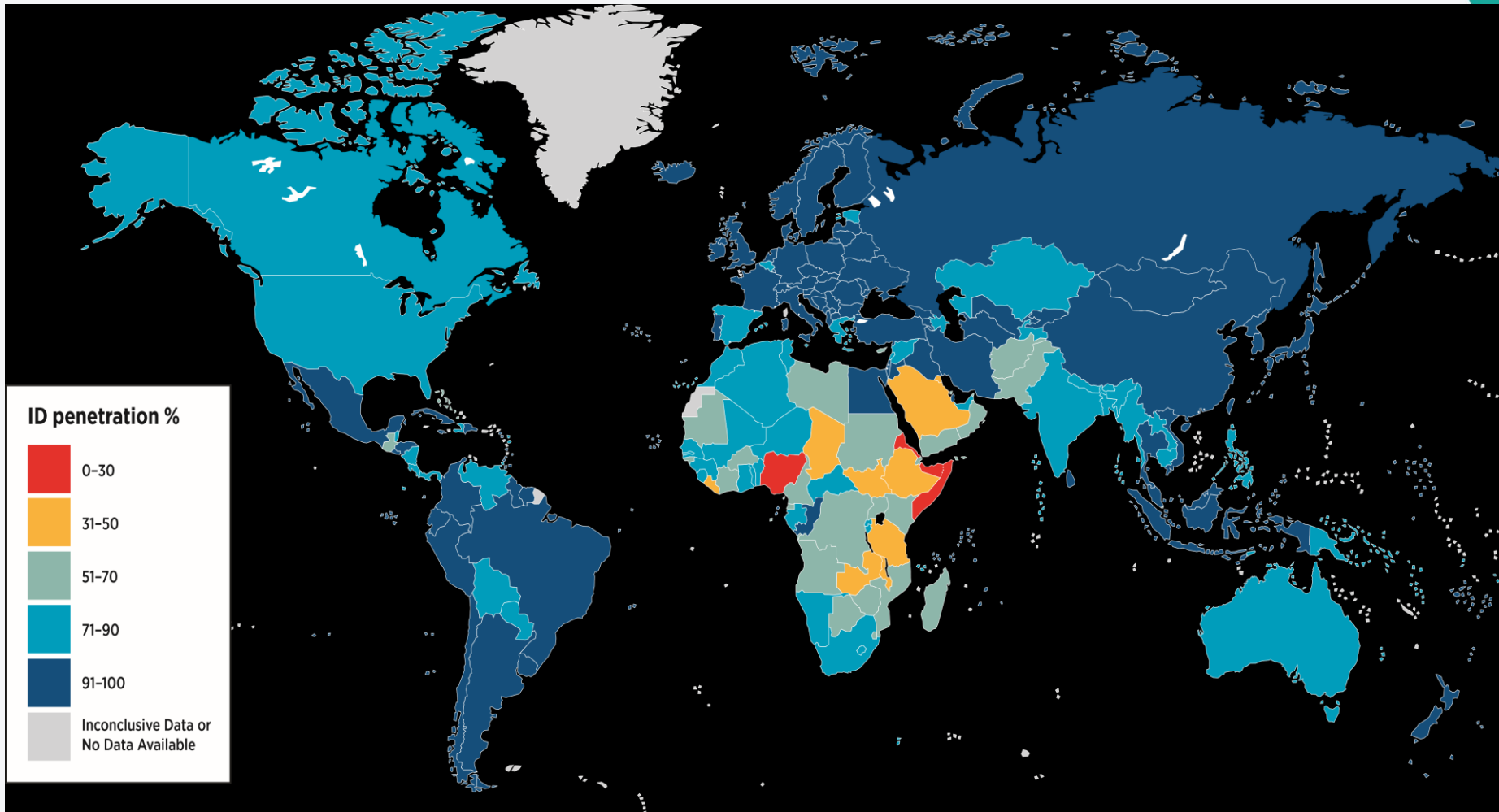
In **150 countries**, users need proof-of-identity to register a prepaid mobile SIM card in their own name – 50 are within Africa...

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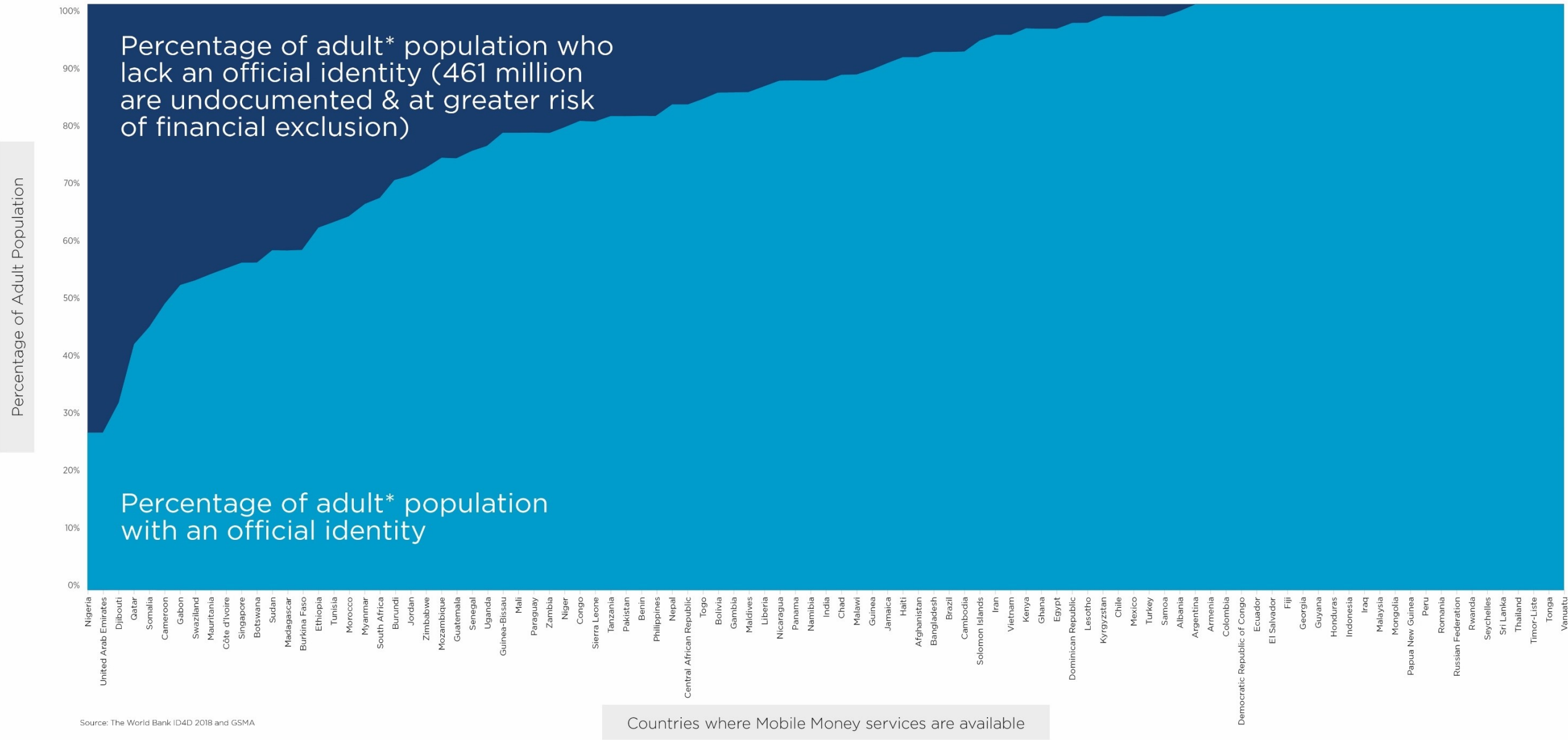


...Yet up to **1 billion people** lack the means to meet proof-of-identity requirements → unable to access mobile services in their own name

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GLOBAL INITIATIVE



...The **risk of financial exclusion** is also significant as undocumented people are unable to open bank or Mobile Money accounts – even where these are available

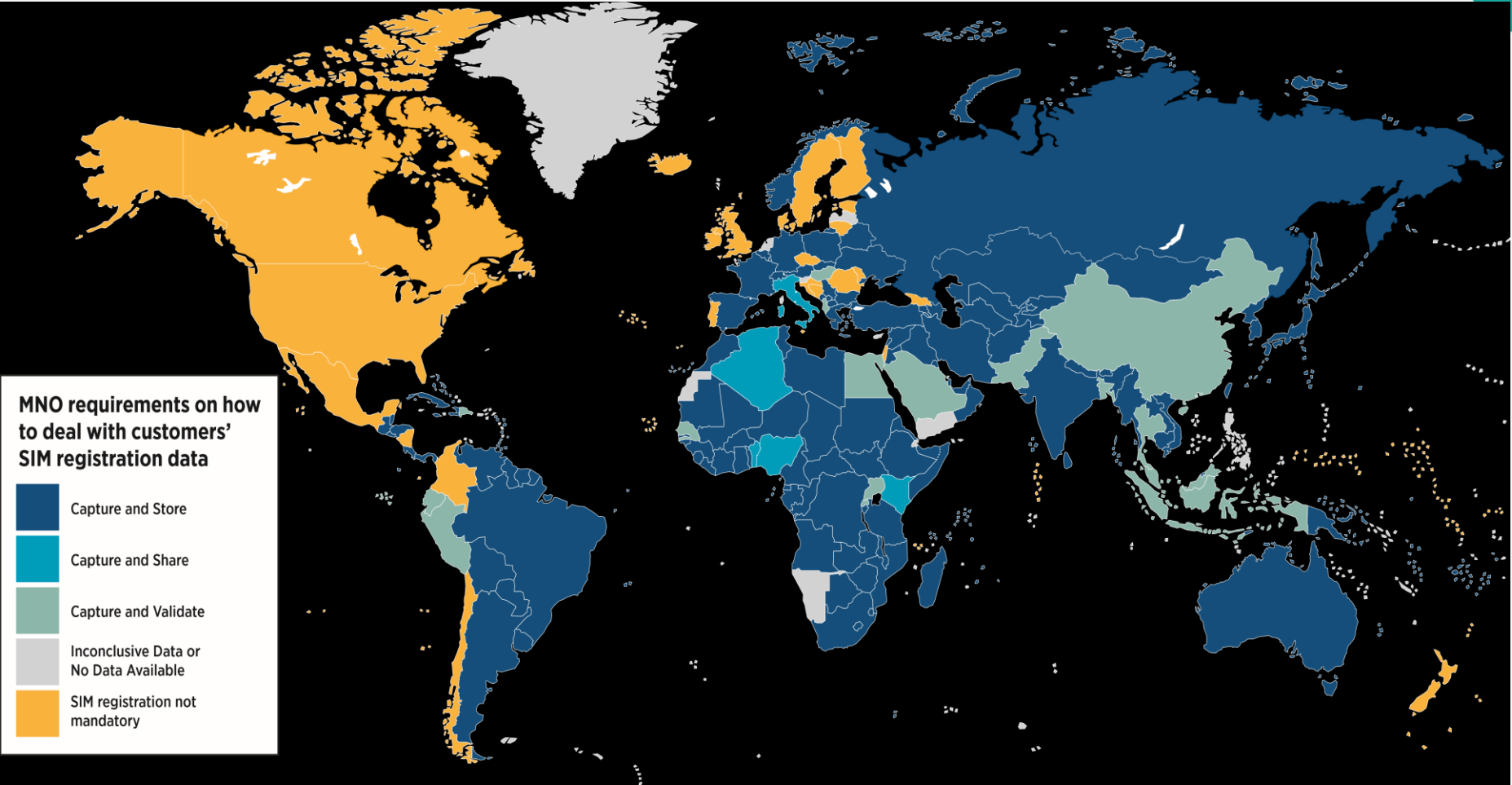


The **robustness** of MNOs' KYC assets depends on customers' access to and **verifiability** of identification



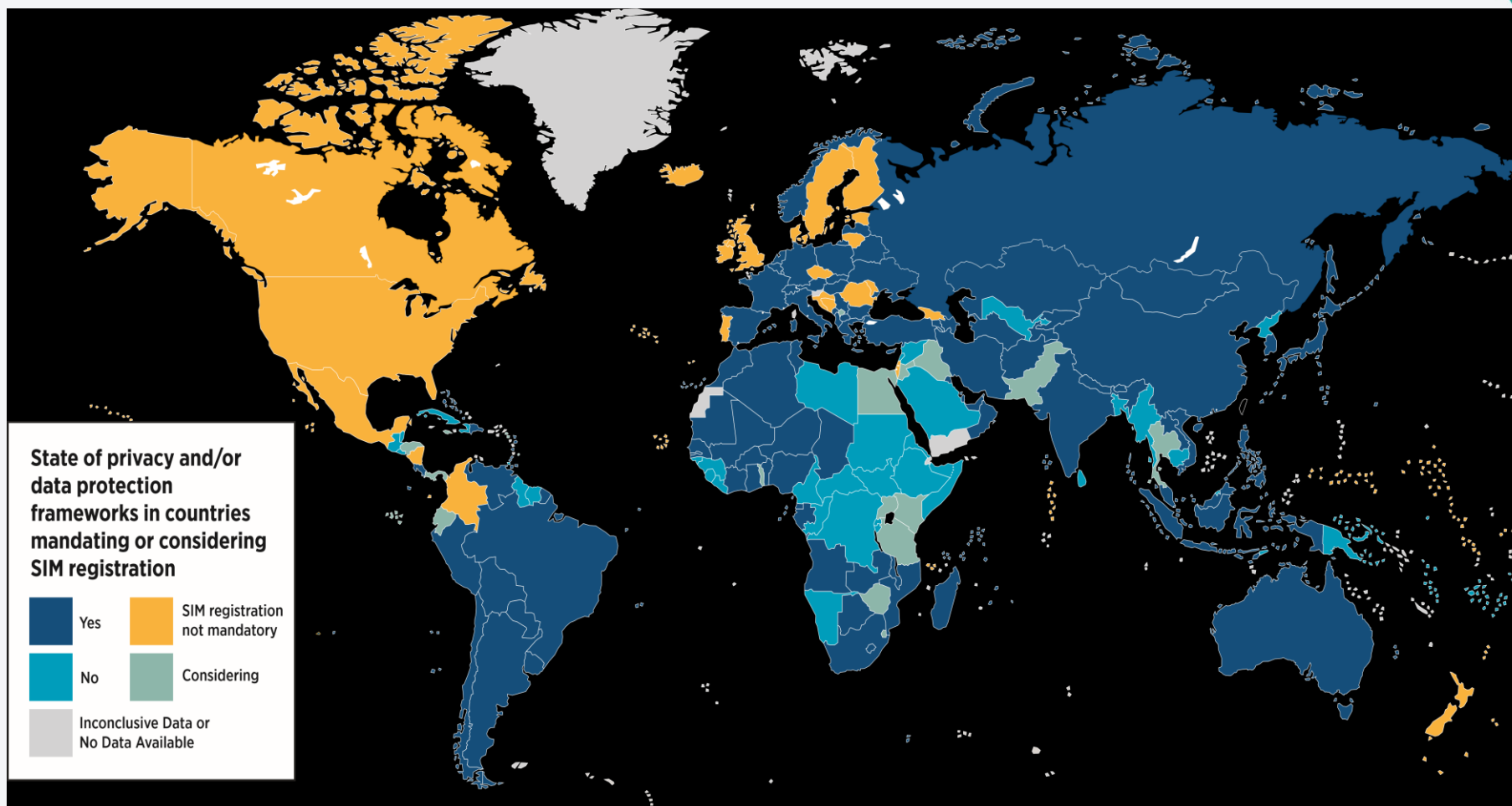
USER CAN ACCESS A MOBILE PHONE		USER HAS AN ACCEPTABLE PROOF-OF-ID?		USER HAS DIGITAL ID THAT MNO CAN VALIDATE		ROBUSTNESS OF MOBILE OPERATOR'S KYC ASSETS
Yes	+	Yes	+	Yes	=	VERY HIGH
Yes	+	Yes	+	No	=	HIGH
Yes	+	No	+	No	=	MEDIUM

Only **11%** of countries empower Mobile Operators to validate users' identity credentials against a central Government database / token

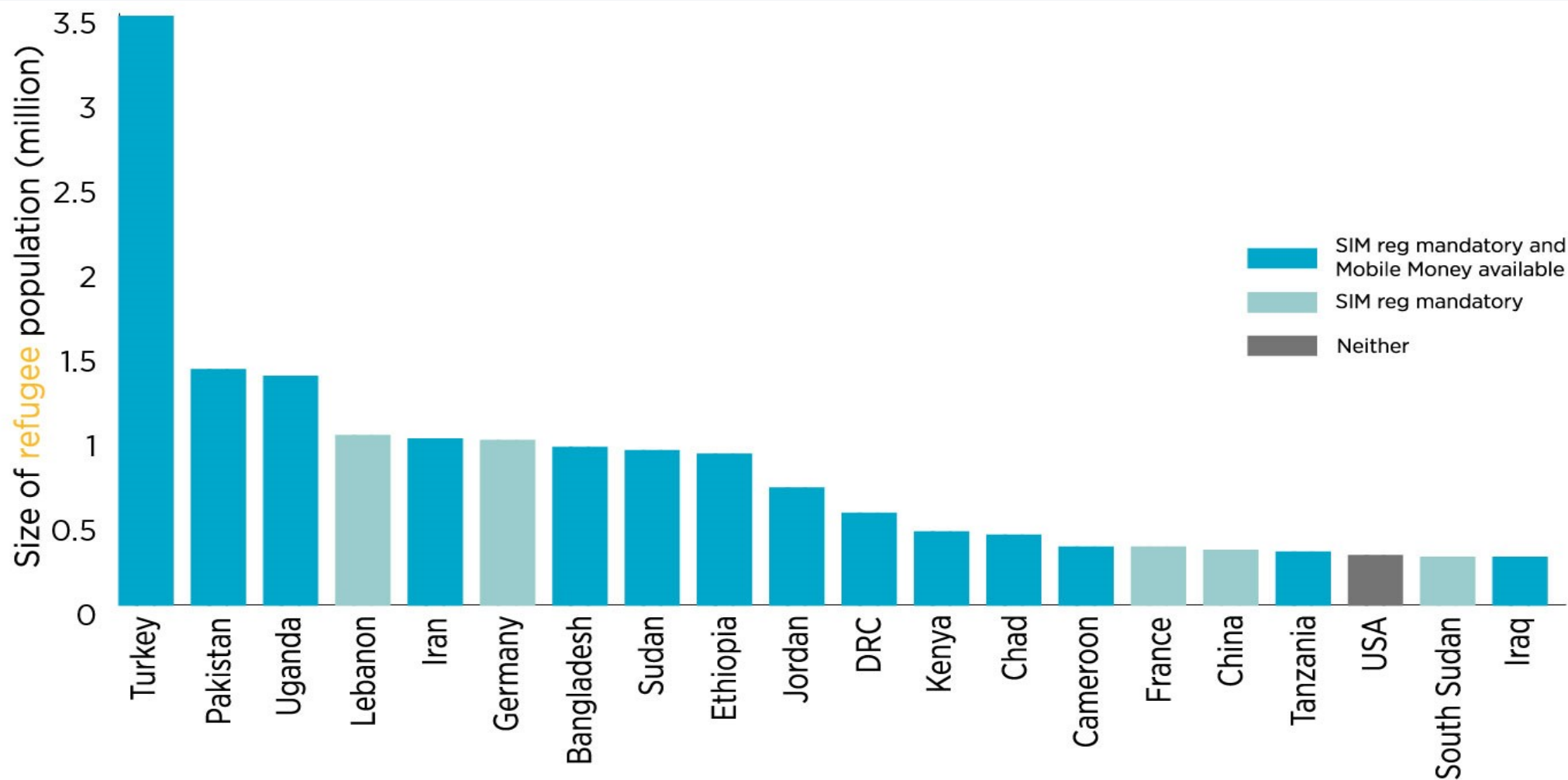


TRUST is crucial – Yet **41%** of countries mandating SIM Registration lack a comprehensive **Privacy** and/or Data Protection framework

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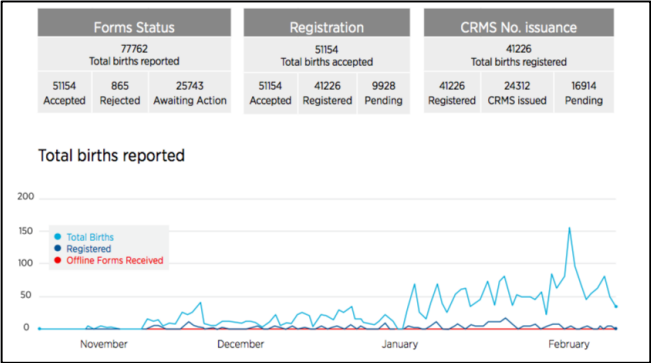
Mobile Money services are available in 14 of the top 20 countries
hosting **74%** all refugees → **subject to proof-of-ID** requirements



Mobile operators can play a number of roles to accelerate Digital Identity and DFS ecosystems



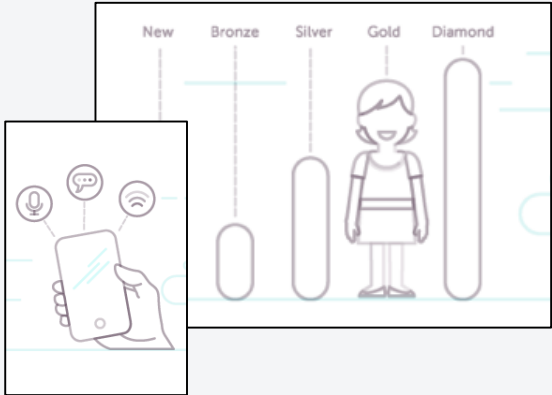
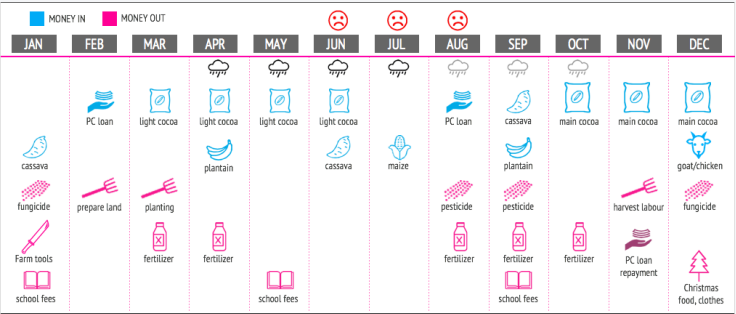
(1) Facilitate ID enrolment by leveraging mobile devices, agent networks, or other assets



(2) Authenticate against recognised ID systems to establish functional identities



(3) Empower digital participation and drive demand for ID by delivering targeted, identity-linked mobile services



Key Policy Considerations for building and leveraging **Digital Identity** ecosystems to support **financial inclusion via mobile** platforms



Pro-active engagement between Financial & Telecoms Regulators, Ministries of Interior and National ID Authorities needed to:

Expand Coverage and Accessibility of Foundational Digital ID

Harmonise Identity-related KYC for MFS with SIM Registration Requirements

Improve Reliability by Enabling MNOs & MFS to Validate Customers' ID Credentials

Promote digital literacy and services that will **drive demand** for Digital ID registrations

Build Trust e.g. through appropriate privacy frameworks



Thank you !



Yiannis Theodorou (@yiathe)

APPLICATIONS OF DIGITAL ID IN THE FINANCIAL SECTOR

Phindu Lipenga
Bank of Malawi



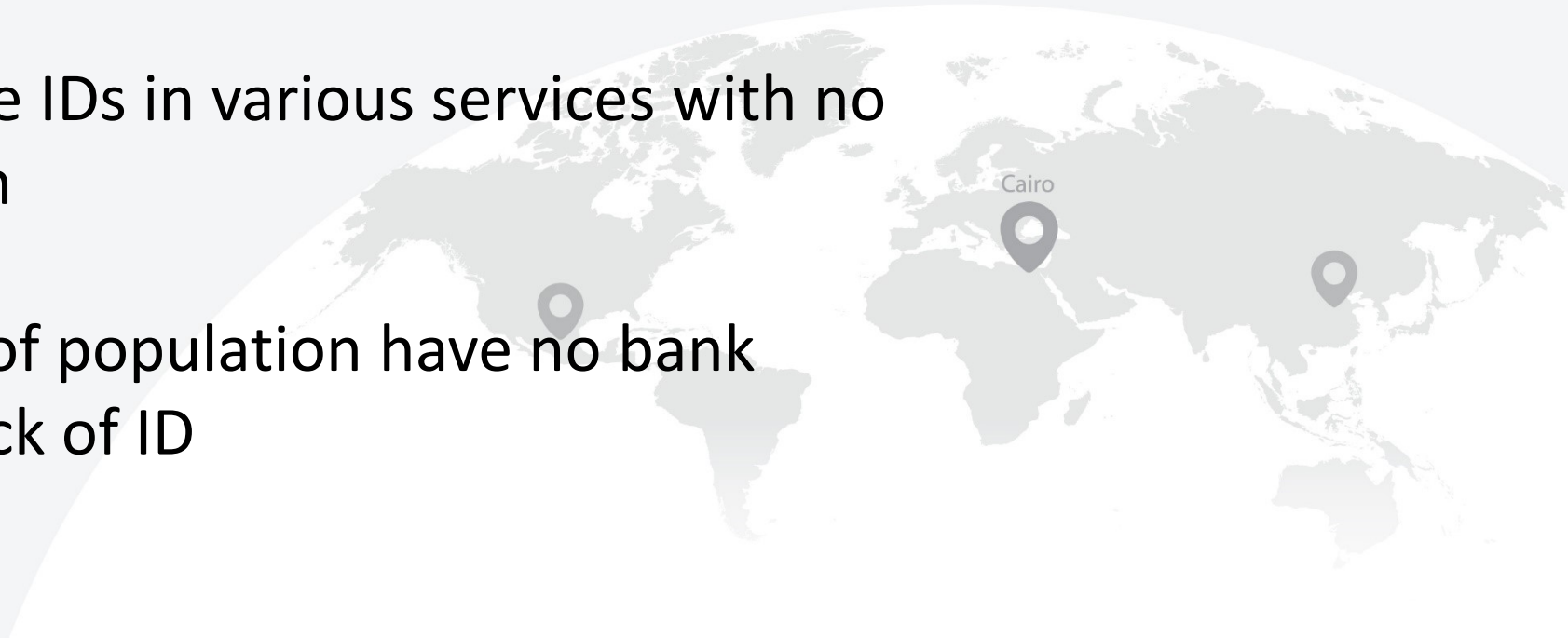
Contents

- Background
- Current problems in the financial sector
- Current Status of National ID
- What should Happen
- Stakeholder views perceptions
- Regulatory Responses
- Current Regulatory Framework
- Possible Key Considerations



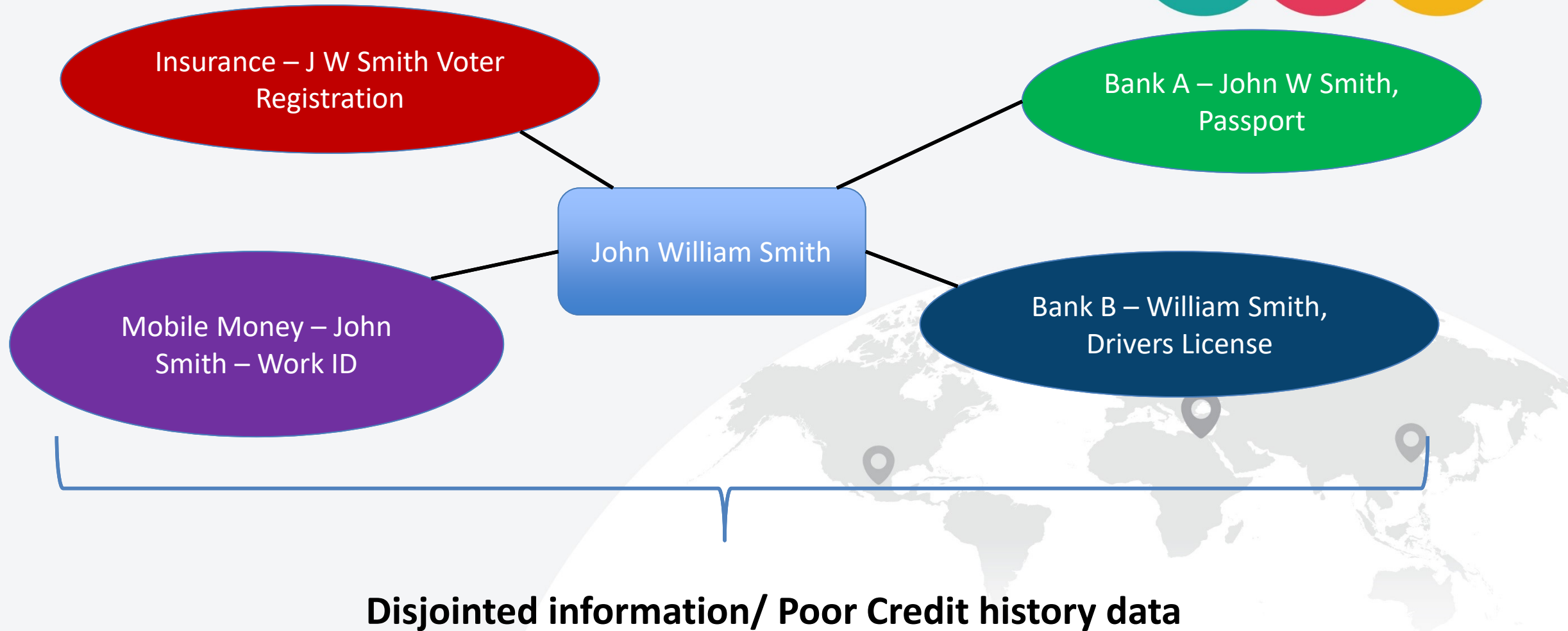
Background

- Malawi finalised issuing the National ID in 2018
- Prior to National ID acceptable identification included Voter registration card, Passport, drivers licence, some company IDs
- Current status multiple IDs in various services with no common identification
- Survey indicates 20% of population have no bank account because of lack of ID





Current Problems with ID landscape



Current National ID Status

- Estimated population of Malawi 18.62 Million (World Bank 2017), About 8.8 million are below the age of 14.
- Approximately 9 million adults enrolled in 2018
- Approximately 8.9 million cards issued
- 26% (approximately 4.8 million) have access to formal financial services (Finscope Survey)

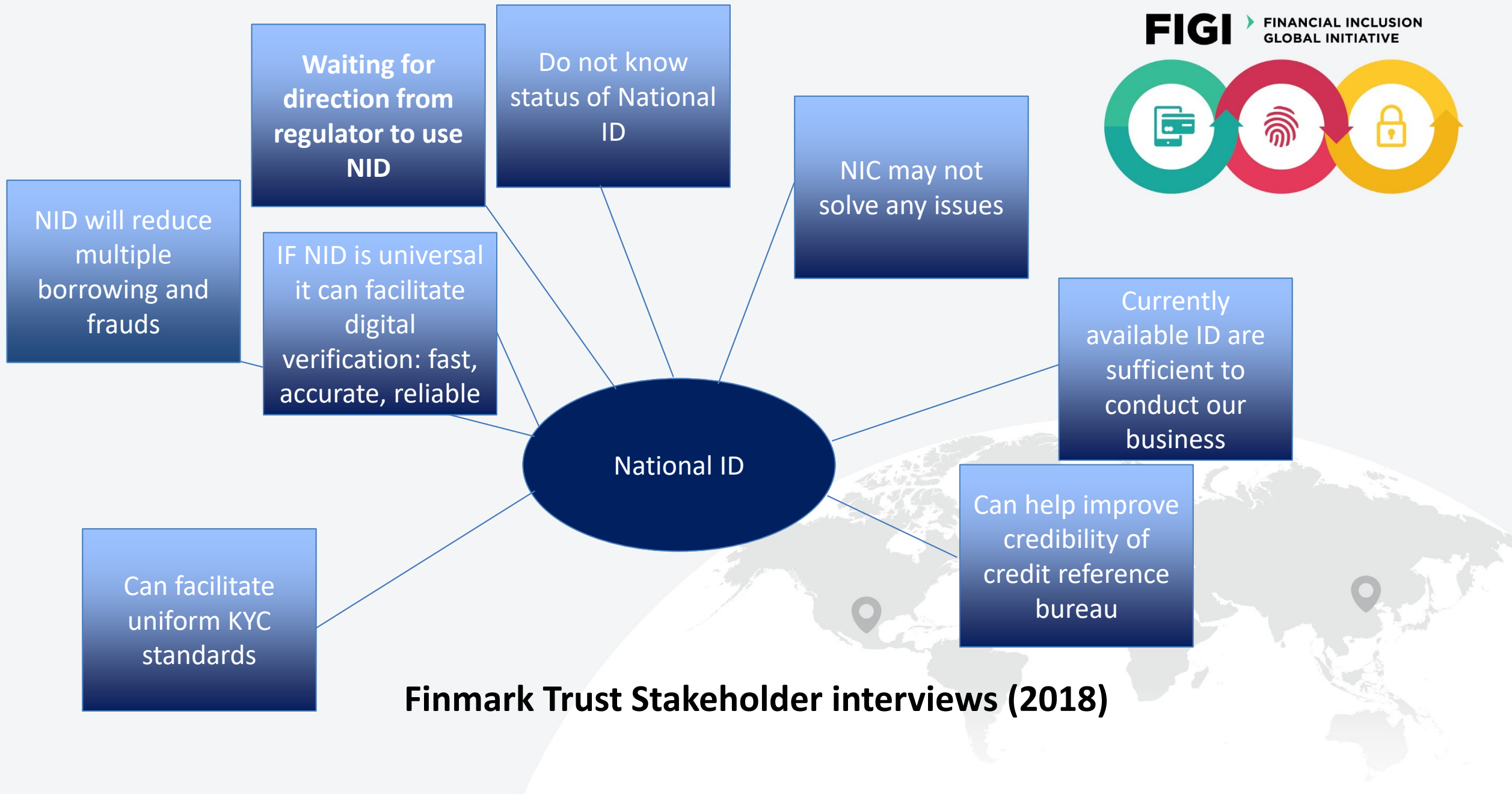


What should Happen



Harmonise





Regulatory Response

- Task force was formed to look at Digital Identification and how best we can facilitate the adoption of digital ID in Malawi
- Task force proposed that the National ID should be the primary ID in bank, all customer accounts should be linked to the National ID, deadline of 30th September 2019 was given
- Similar development in the insurance sector where the National ID has been set as the Primary ID and a deadline of 30th September 2019 was given.



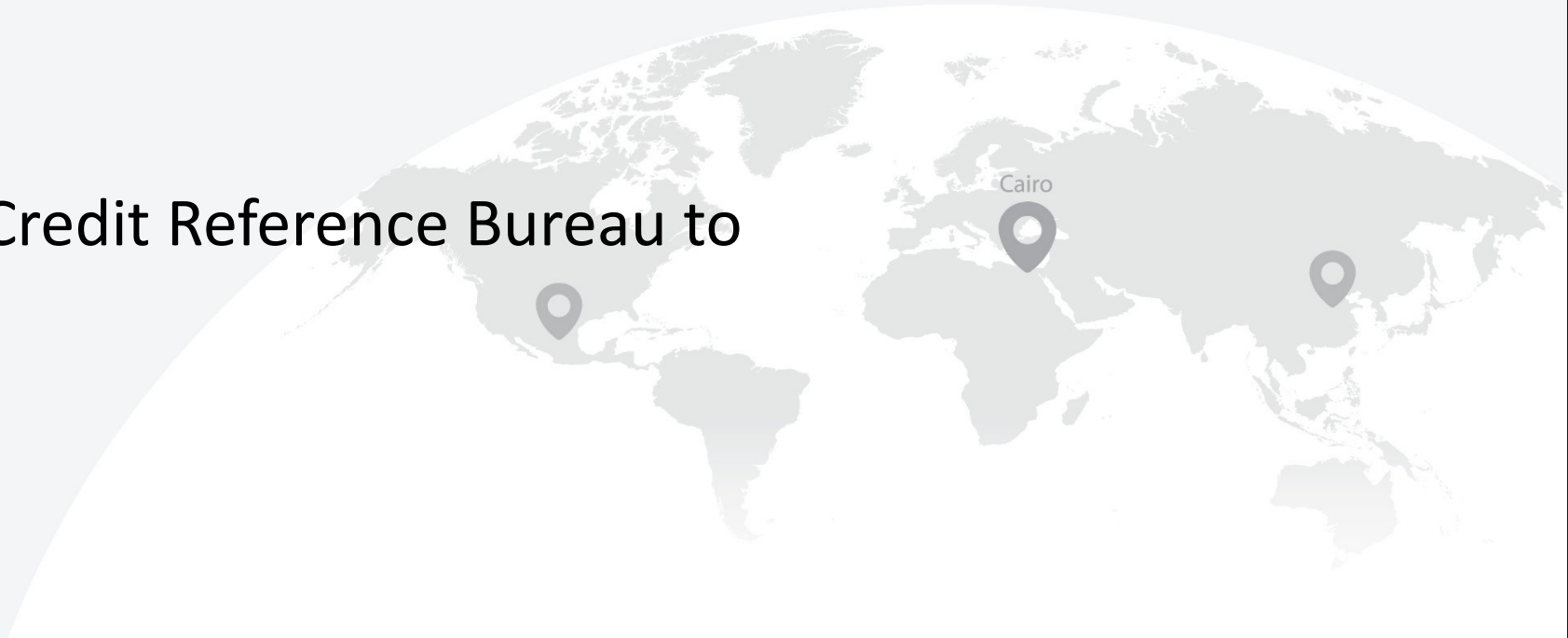
Current Regulatory Framework

- National Financial Inclusion Strategy
- Disclosure Directive for Banks
- Disclosure Directive for Insurance products
- Disclosure Directive for Investment Products
- Disclosure Directive for Savings products
- Disclosure Directive for Savings Products



Possible Key Considerations

- Financial literacy campaigns
- Extending NID as primary to MNOs
- Extending use of NID to microfinance and saccos as primary IDs
- All data submitted to Credit Reference Bureau to be linked by NID





Thank You!!!



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STATE OF NID SYSTEM IN BANGLADESH

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Committee on Payments and
Market Infrastructures

BANK FOR INTERNATIONAL SETTLEMENTS



WORLD BANK GROUP

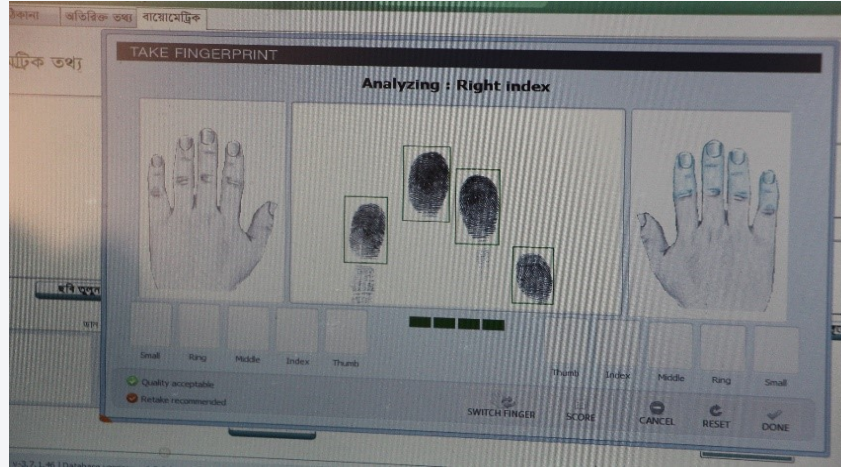


SCOPE OF PRESENTATION

- Background
- IT infrastructure
- e- KYC
- Data privacy and security
- Achievement & impact of e-ID service delivery
- Authentication process
- Promoting financial integrity & financial inclusions
- Feasible option for optimum utilization of NID system



AIM



To appraise the state of the NID system in Bangladesh



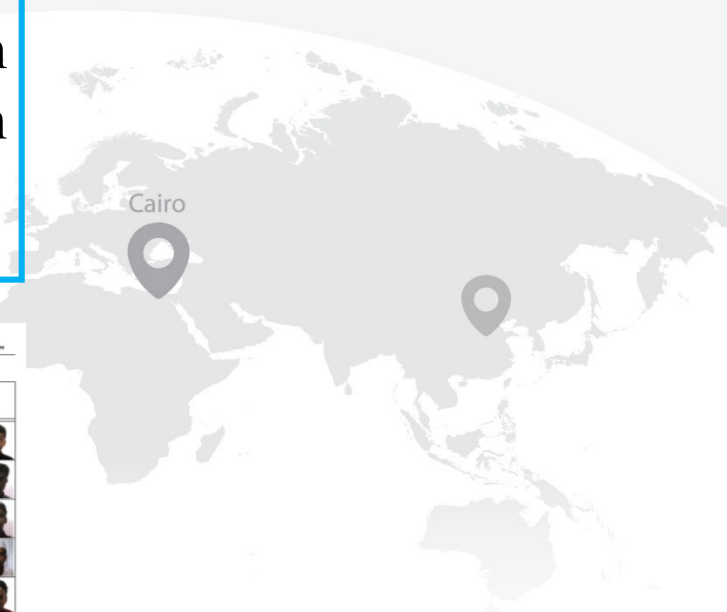
BACKGROUND – PERP



- PERP- Preparation of Electoral Roll with Photograph and Facilitating the Issuance of National Identity Card (PERP) project.
- This project was initiated to prepare an accurate electoral roll with photograph with the help of Bangladesh Government, Armed Forces in 2007.
- For the first time in the history of Bangladesh, Bangladesh Election Commission (BEC) completed preparation of electoral roll with photograph of 85.86 million voters.



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BACKGROUND – PERP

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- BEC prepared an electoral database and National ID Card under PERP project with the help of Bangladesh Government and nine other development partners [European Commission (EC), DFID, Netherlands, Switzerland, Sweden, Norway, Denmark, Korea and UNDP]



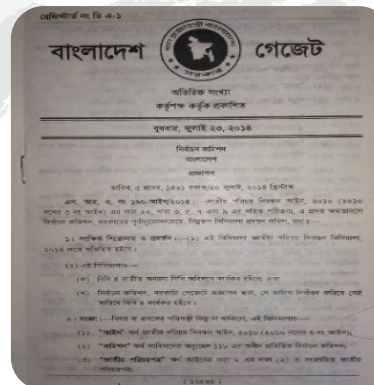
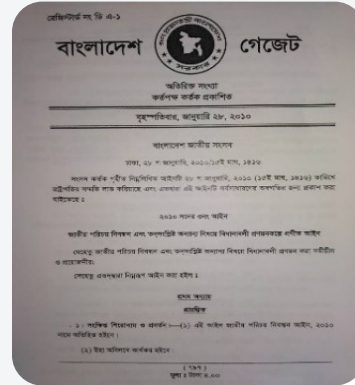
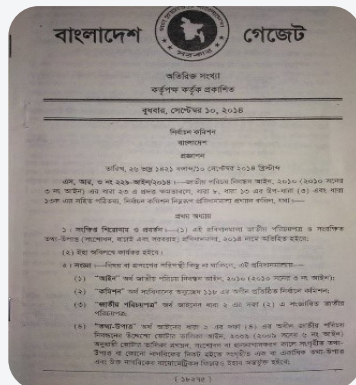
- As a byproduct of Electoral Roll, 85.86 million voters were issued with paper laminated ID cards.



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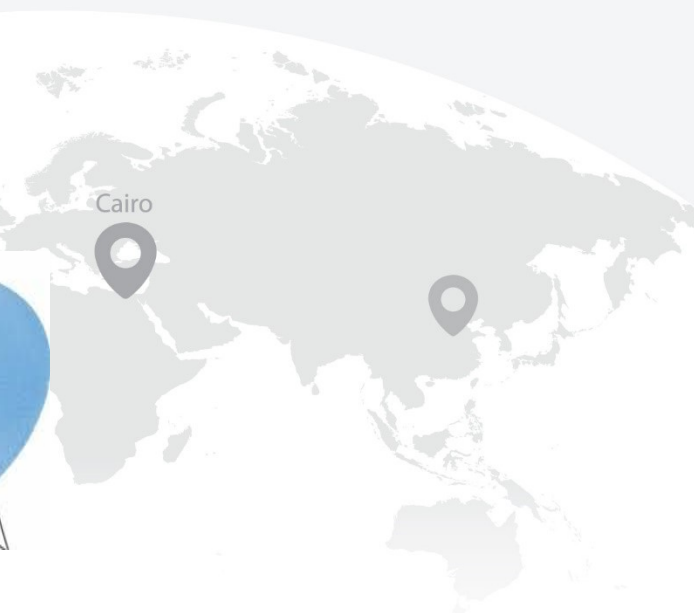
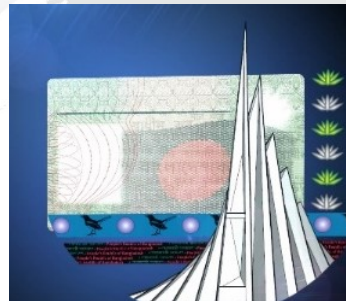
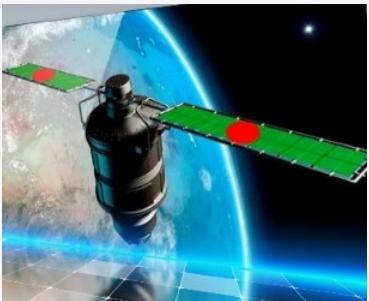
BACKGROUND – PERP

- National Identity Registration Act passed in early 2010 which provided the legal framework for the National Identification (NID) System.
- In 2011, National Identity Registration Wing (NIDW) was established in BEC for providing services to the citizens of Bangladesh and different agencies related to NID card, identity verifications etc.



BACKGROUND –IDEA PROJECT

- IDEA- Identification System for Enhancing Access to Services Project.
- IDEA project was started in July 2011 for building a National ID Scheme based on the output of the PERP project.
- The Government of Bangladesh identified the National ID system as a key element to promote effective and efficient e-services under the ‘Digital Bangladesh Vision 2021’.



PROJECT OBJECTIVES - IDEA



Overall Objective

To establish a secure, accurate and reliable national ID system in Bangladesh that will serve as the basis for more efficient and transparent service delivery.

Specific Objectives

Supporting BEC in issuing ID cards with robust security features.

Developing capacity to provide identity verification services.

Developing capacity over the longer term to integrate the new ID system into a wide range of both public and private services.



IT INFRASTRUCTURE

- Robust IT infrastructure (Data center, DRS, Upazila & District server station etc.) is ensured at various levels.
- Individuals are secured by recognition of their legal identity.
- Robust, secured and updated IT system for NID verification to get easy access to different public and private service delivery.
- Establishment of countrywide data connectivity through VPN is in progress.
- For new registration, at first de-duplication through AFIS (Automated Fingerprint Identification System) is conducted. Thereafter the data is stored in server.



e-KYC (Electronically Know Your Clients)

- The core purpose of the NID scheme is to contribute to effective service delivery in Bangladesh.
- Service providers are connected with NID system.
- Request from service providers are sent to the central database of NID Wing.
- NID Wing authenticate the requests and verification reports are sent back to the service providers electronically.



DATA PRIVACY AND DATA SECURITY

- All informations stored in NID database are completely confidential as declared by law.
- Bangladesh Election Commission is taking all out efforts to maintain data privacy and security in providing authentication service to the agencies.
- 10 digit unique NID number is introduced to protect data privacy in service delivery



ACHIEVEMENT IN SERVICE DELIVERY

- Individuals are recognized with their legal identity.



ACHIEVEMENT IN SERVICE DELIVERY

- Ensure service delivery to the right person in public and private sectors.



ACHIEVEMENT IN SERVICE DELIVERY

- So far in last 36 months, more than 325 million identity verification completed successfully.

325 million Verification



ACHIEVEMENT IN SERVICE DELIVERY

- Bangladesh Bank verifies NID of their client



ACHIEVEMENT IN SERVICE DELIVERY

- Commercial banks using ID verification services for e-KYC



BIOMETRIC SIM REGISTRATION/ RE-REGISTRATION

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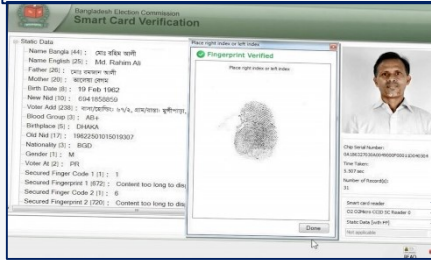


BEGINNING OF A NEW ERA E-KYC/SERVICE

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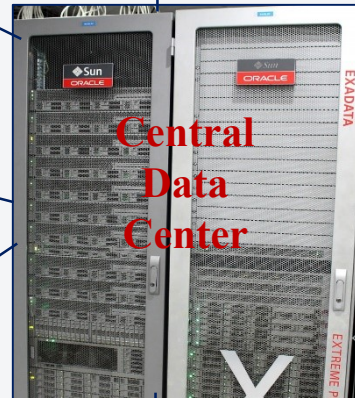
NID verification services



Improvement in service delivery



Smart NID Card Unique NID number - one man one ID concept

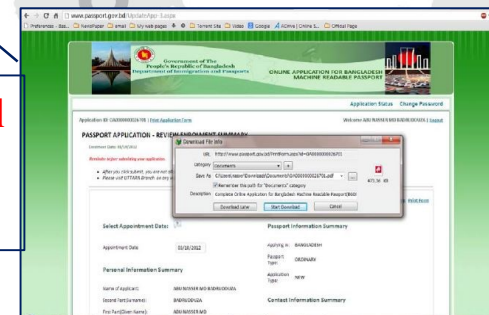


e-governance

good governance



Hub of all e-service deliveries



IMPACT OF E-ID SERVICES DELIVERY

- E-TIN was introduced with the help of NID instant verification services which resulted in removal of hundreds and thousands of false or duplicate taxpayer accounts, reduction of tax evasion etc.
- Bangladesh Bank verifies NID for its Credit Information Bureau; Financial Intelligence Unit (FIU) has access to ID verification services for tracking unauthorized transactions.
- Commercial banks are using ID verification services for e-KYC (Know Your Clients), opening bank account, bank loan sanction etc.



IMPACT OF E-ID SERVICES DELIVERY

- Non-Banking Financial Institutions are using ID verification services for e-KYC.
- Department of Passports and Immigration verifies ID online for issuance of passports.
- 2.5 million Government employees completed their fixation of pay with NID.
- Retired Government employees are being verified by NID. False beneficiaries are being identified.
- 130 million Biometric SIM registrations have been completed in less than 6 months time.
- Law enforcing agencies use NID verification for the proper authentication of unidentified dead body and crime tracking.



STATUS OF AUTHENTICATION ONLINE

- NID authentication systems for agencies and institutions is going on through signing agreement/MoU.
- As of January 2019 a total of 104 (One Hundred and Four) public and private agencies signed MoU/agreement for the online identity verification services by using NID database.
- So far in last 36 months, more than 325 million hits counted successfully for NID authentication by the agencies.



STATUS OF AUTHENTICATION ONLINE



Sl. No.	Type of Organization	Number of Organization	Remarks
1	Government Organization	18	Bangladesh Bank, NBR, Finance Division, etc.
2	Mobile Operators	06	Airtel, Bangla Link, Robi, GP, Teletalk, City Cell
3	Commercial Private Banks	55	BRAC Bank Limited, Dutch Bangla Bank Limited, etc.
4	Non Banking Financial Institutions	25	IDLC Finance limited, IPDC, MIDAS Financing Limited, etc.
Total		104	





AUTHENTICATION OFFLINE




VERIFICATION USING CARD READER

FIGI ▶ FINANCIAL INCLUSION
GLOBAL INITIATIVE



File Action Help



 Bangladesh Election Commission
Smart Card Verification

Static Data

Name Bangla [24] : জিয়াউল আহসান
Name English [11] : Ziaul Ahsan
Father [56] : আলহাজ্ব নাসির উদ্দিন আহমেদ
Mother [46] : আলহাজ্ব হোসেন আরা বেগম
Birth Date [8] : 01 JAN 1971
New Nid [10] : 8745623499
Voter Add [274] : বাসা/হোল্ডিং: ৭৬৮ তহরা মঞ্জিল, গ্রাম/রাস্তা: বি এম কলেজ রোড, বৈদ্যপাড়া, ডাকঘর: বরিশাল - ১
Blood Group [3] : AB+
Birthplace [8] : BARISHAL
Old Nid [17] : 19710695120247084
Nationality [3] : BGD
Gender [1] : M
Voter At [2] : PR
Secured Finger Code 1 [1] : 6
Secured Fingerprint 1 [374] : Content too long to display here...
Secured Finger Code 2 [1] : 1
Secured Fingerprint 2 [356] : Content too long to display here...

Chip Serial Number:
0A186327011D00A8000F00011C040304
Time Taken:
5.912 sec
Number of Record(s):
31

Smart card reader
O2 O2Micro CCID SC Reader 0
Static Data [with FP]
Not applicable

5:38 PM
11/15/2015



VERIFICATION USING BARCODE READER

FIGI FINANCIAL INCLUSION
GLOBAL INITIATIVE



File Action Help

 Bangladesh Election Commission
Smart Card Verification

Static Data

- Name Bangla [24]
- Name English [12]
- Father [56] :
- Mother [46] :
- Birth Date [8] :
- New Nid [10] :
- Voter Add [274]
- Blood Group [3]
- Birthplace [8] :
- Old Nid [17] :
- Nationality [3] :
- Gender [1] : M
- Voter At [2] : P
- Secured Finger [1]
- Secured Finger [1]
- Secured Finger [1]
- Secured Finger [1]

Read Barcode

<]? NMZiaul
Ahsan NW8745623499 OL19710695120247084 BR19710101 PE0651 PR0651 VA060421 DT20150801
PK28 SGQrXzKPQ0/O9Cen/4Gz33oHT9JpNLOidRMliqK0

Name
Ziaul Ahsan

National ID No
8745623499

Old NID No
19710695120247084

Date Of Birth
01 Jan 1971

Date Of Issue
01 Aug 2015

Done



er:
A8000F00011C040304

d(s):

er
D SC Reader 0

h FP]

5:43 PM
11/15/2015




VERIFICATION USING FINGER PRINT

FIGI FINANCIAL INCLUSION
GLOBAL INITIATIVE



File Action Help

 Bangladesh Election Commission
Smart Card Verification


Static Data

Name Bangla [24] : XXXXX
Name English :
Father [56] : XXXXXXXX
Mother [46] :
Birth Date [8] : 01 JAN 1971
New Nid [10] : 8745623499
Voter Add [274] : বাসা/হোন্ডিং: ৭৬৮ তল্লা
Blood Group [3] : AB+
Birthplace [8] : BARISHAL
Old Nid [17] : 19710695120247084
Nationality [3] : BGD
Gender [1] : M
Voter At [2] : PR
Secured Finger Code 1 [1] : 6
Secured Fingerprint 1 [374] : Content too
Secured Finger Code 2 [1] : 1
Secured Fingerprint 2 [356] : Content too

Place right index or left index

Place right index or left index

রিশাল - ১



Chip Serial Number:
0A186327011D00A8000F00011C040304

Time Taken:
5.912 sec

Number of Record(s):
31

Smart card reader
O2 O2Micro CCID SC Reader 0

Static Data [with FP]

Not applicable

READ CARD CLOSE


5:46 PM
11/15/2015



E-SERVICE DELIVERY TO FARMER USING NID CARD

FIGI FINANCIAL INCLUSION
GLOBAL INITIATIVE



 Bangladesh Election Commission
Manage Farmer Card

Farmer Card Particulars

	Fertilizer [Kg]	Diesel [Lt]	Seed [Kg]	Pest Control [Lt]	Date of Action	Action Type
▶	10	10	10	10	2015-11-15 05:50:09 PM	Allocation
	4	5	2			

Add New Record

☐ Allocate Particulars [Initialization]


	Consumption	Balance
Fertilizer:	<input type="text" value="2"/> Kg.	<input type="text" value="4"/>
Diesel:	<input type="text" value="2"/> Lt.	<input type="text" value="3"/>
Seed:	<input type="text" value="4"/> Kg.	<input type="text" value="4"/>
Pest control:	<input type="text" value="4"/> Lt.	<input type="text" value="2"/>

[Data Sample](#)

Particular Balance

Fertilizer: Kg.
Diesel: Lt.
Seed: Kg.
Pest control: Lt.

O2 O2Micro CCID SC Reader 0

 CLOSE


Windows Taskbar: 6:01 PM 11/15/2015



E-HEALTH SERVICE DELIVERY USING NID

FIGI FINANCIAL INCLUSION
GLOBAL INITIATIVE





Bangladesh Election Commission
Manage e-Health Card

E-Health Records

Health Card ID Number

Allergies and Drug Condition

Medications

Health Care Provider

Store Record

Smart NID Number

Old NID Number

Name (English)


Name (Bangla)

Father's Name

Mother's Name

Date of Birth

Place of Birth




Gender


Blood Group

Address

Read NID Card

O2 O2Micro CCID SC Reader 0

 **CLOSE**



6:22 PM
11/15/2015



E-FROM FILLING-UP USING NID CARD

FIGI FINANCIAL INCLUSION
GLOBAL INITIATIVE



 Bangladesh Election Commission
Manage Bank Account

তারিখ: 15 Nov 2015

একাউন্ট নং:

নাম (In English): Ziaul Ahsan

নাম (বাংলায়): জিয়াউল আহসান

জন্মতারিখ: 01 JAN 1971 পেশা: সরকারী চাকুরী লিঙ্গ: M

পরিচিতির ধরন: ☒ জাতীয় পরিচয়পত্র ☐ পাসপোর্ট ☐ ড্রাইভিং লাইসেন্স ☐ অন্যান্য (উল্লেখ করুন)

পরিচিতি নং: 8745623499

পিতা/স্বামীর নাম: আলহাজ্ব নাসির উদ্দিন আহমেদ

মাতার নাম: আলহাজ্ব হোসেন আরা বেগম

বর্তমান ঠিকানা: বাসা/হোল্ডিং: ৭৬৮ তহুরা মঞ্জিল, গ্রাম/রাস্তা: বি এম কলেজ রোড, বৈদ্যপাড়া, ডাকঘর: বরিশাল - ৮২০০, বরিশাল সদর, বরিশাল সিটি কর্পোরেশন, বরিশাল

স্থায়ী ঠিকানা: বাসা/হোল্ডিং: ৭৬৮ তহুরা মঞ্জিল, গ্রাম/রাস্তা: বি এম কলেজ রোড, বৈদ্যপাড়া, ডাকঘর: বরিশাল - ৮২০০, বরিশাল সদর, বরিশাল

অফিসের
ঠিকানা (যদি)

O2 O2Micro CCID SC Reader 0

6:29 PM
11/15/2015



SMART NID FOR PROMOTING FINANCIAL INTEGRITY & FINANCIAL INCLUSIONS

- For financial transactions and service delivery, Unique NID number may be used to create NID account.
- Banks may introduce electronic forms to open accounts to ensure e-KYC through NID.
- ATM may be introduced with offline fingerprint verifications using Smart Card.
- Mobile banking using offline finger print verification.
- Inclusion of bank account number in the chip by creating directory for Bangladesh Bank.



FEASIBLE OPTION FOR OPTIMUM UTILIZATION OF NID SYSTEM

- Bangladesh Election Commission have built the technological platform. Now the other agencies including the Telco's, Banks, Non-banking financial institutions should be prepared in line with NID system to ensure the maximum utilization of NID system.
- Service providing agencies/institutions are now transforming their system to attain e-KYC through NID system.





THANK YOU !!!

