



ALTRON
SECURITY

Trusted Digital Identities – Enabling Digital Government

Agenda

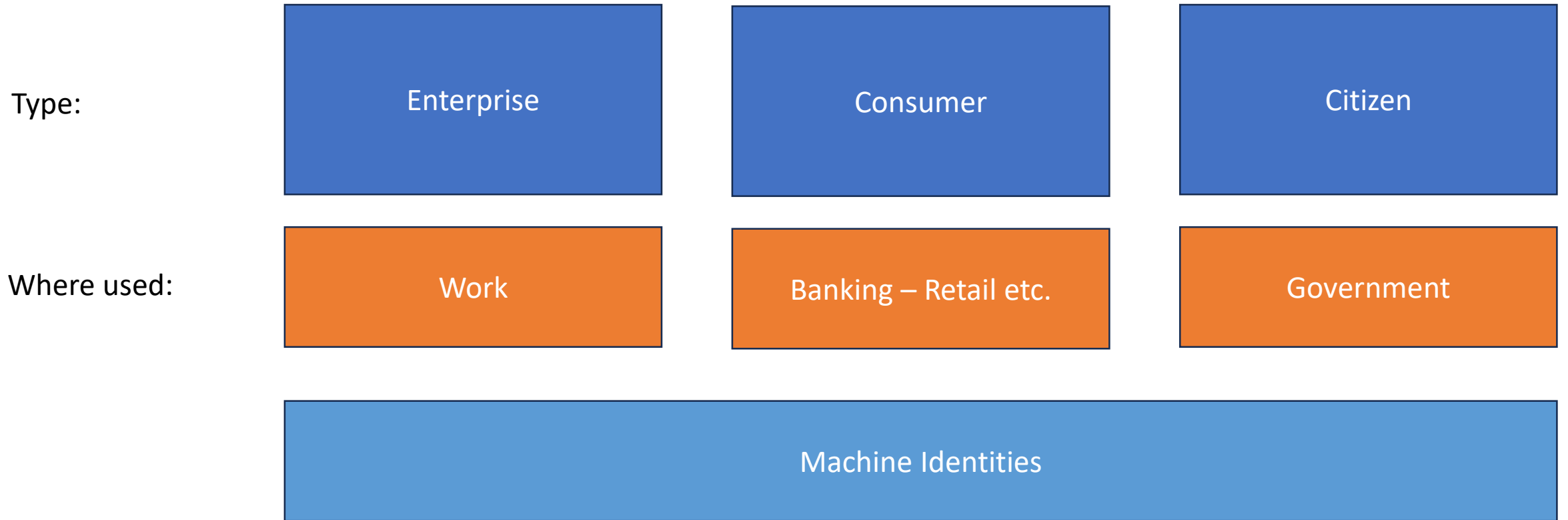
- The Importance of Identity
- South Africa's Smart ID Card
- Trusted Digital Identity Overview
- Digital Identity Use Cases

The Importance of Identity



The Importance of Identity

Identity Types:



The importance of Identity



<https://www.id-day.org/>



**IDENTITY FOR ALL
IN AFRICA**



**IDENTITY
DAY**

Identity Day – 16 September

WHAT DO WE COMMEMORATE ON ID DAY?

Identity Day is a moment for us to pause and reflect on three (3) fundamentals of identity: Inclusion, Protection, and Utility.



INCLUSION

ID Day sensitizes us to the plight of those who lack proof of identity (estimated at 850 million, with about half in Africa) and reaffirms our commitment to achieving total inclusion, so that no one is left behind.



PROTECTION

ID Day is a reminder, for those who have proof of identity, to verify that their identity is secured against theft and their privacy is protected. It reaffirms that protecting our most valuable asset is an ongoing concern.



UTILITY

ID Day is also an opportunity for those who have proof of identity, to check if they are reaping the highest returns on their identity by asking how well their identity can be used to empower them and simplify their daily lives. It is the ideal occasion to call on service providers to adopt identity-enabled service delivery.



IDENTITY DAY



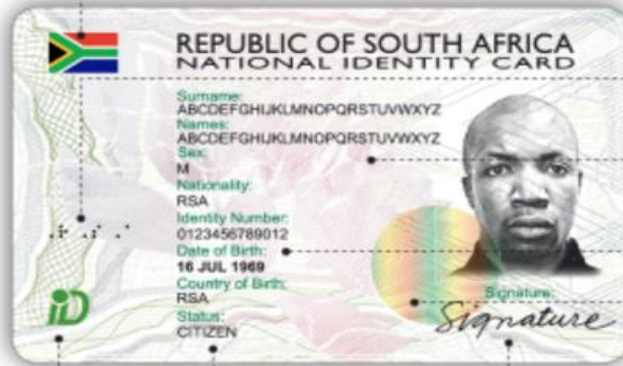
ALTRON
SECURITY

South Africa's Smart ID Card

South Africa's Smart ID card

CARD TYPE A For regular length names and surnames.

Front



• RSA Flag

• Text "ID" in Braille

• Fine line background design printed as a rainbow image

• Date of Birth - Tactile engraving

• Optically Variable Device

• Signature and information fields

• ID Design - Optically Variable Ink

Reverse



• Fine line background design printed as a rainbow image

• Multiple layer image containing two elements being 'RSA' and a security number

• Card number

• Line ID Barcode (Code 39)

• PDF417 Type Barcode

• Secondary Image

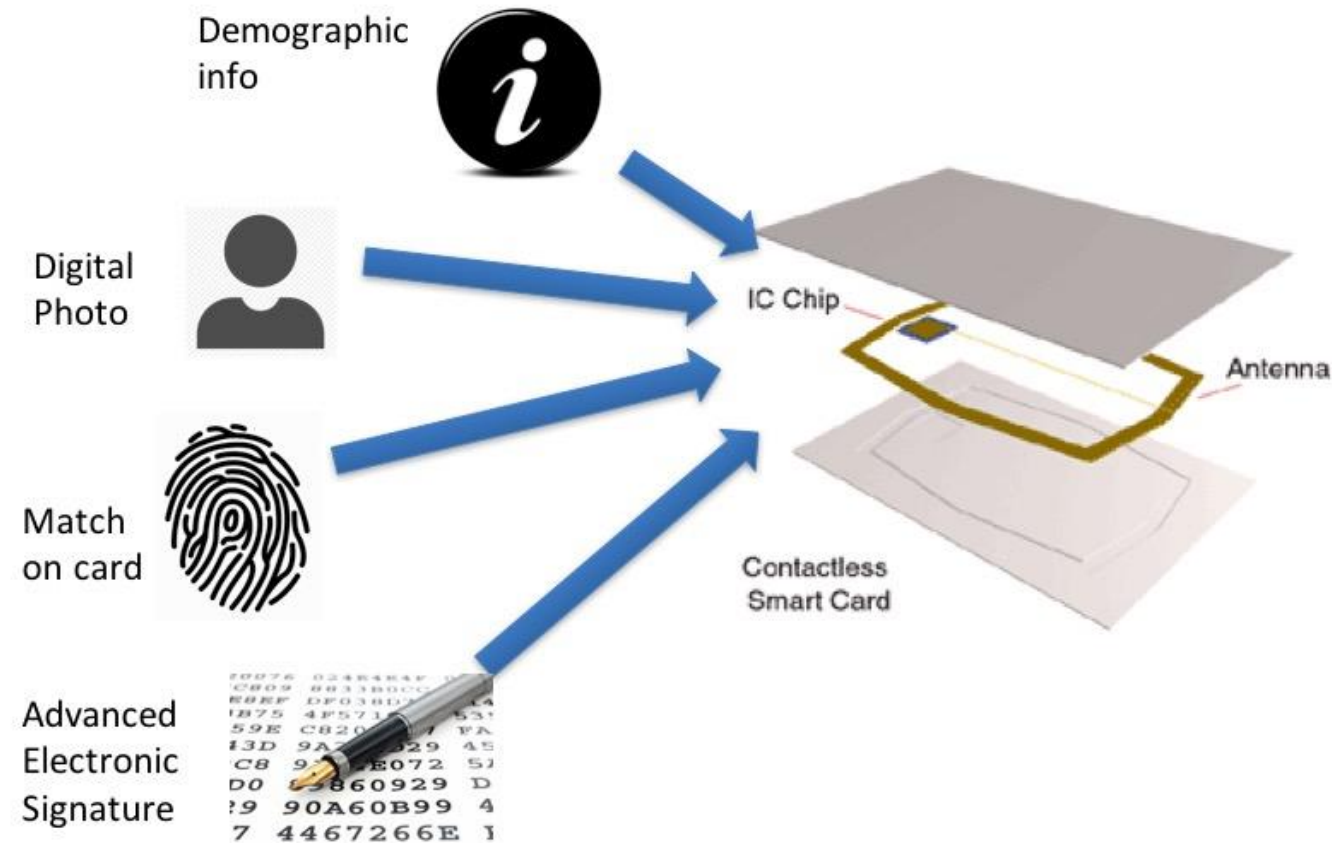
- The South African smart identity card – known as a **Smart ID Card**.
- The smart ID card was introduced in 2013.



home affairs

Department:
Home Affairs
REPUBLIC OF SOUTH AFRICA

What is in the card?



- The identity card securely stores the biometrics (face and fingerprint) information of the individual as well as two digital certificates.

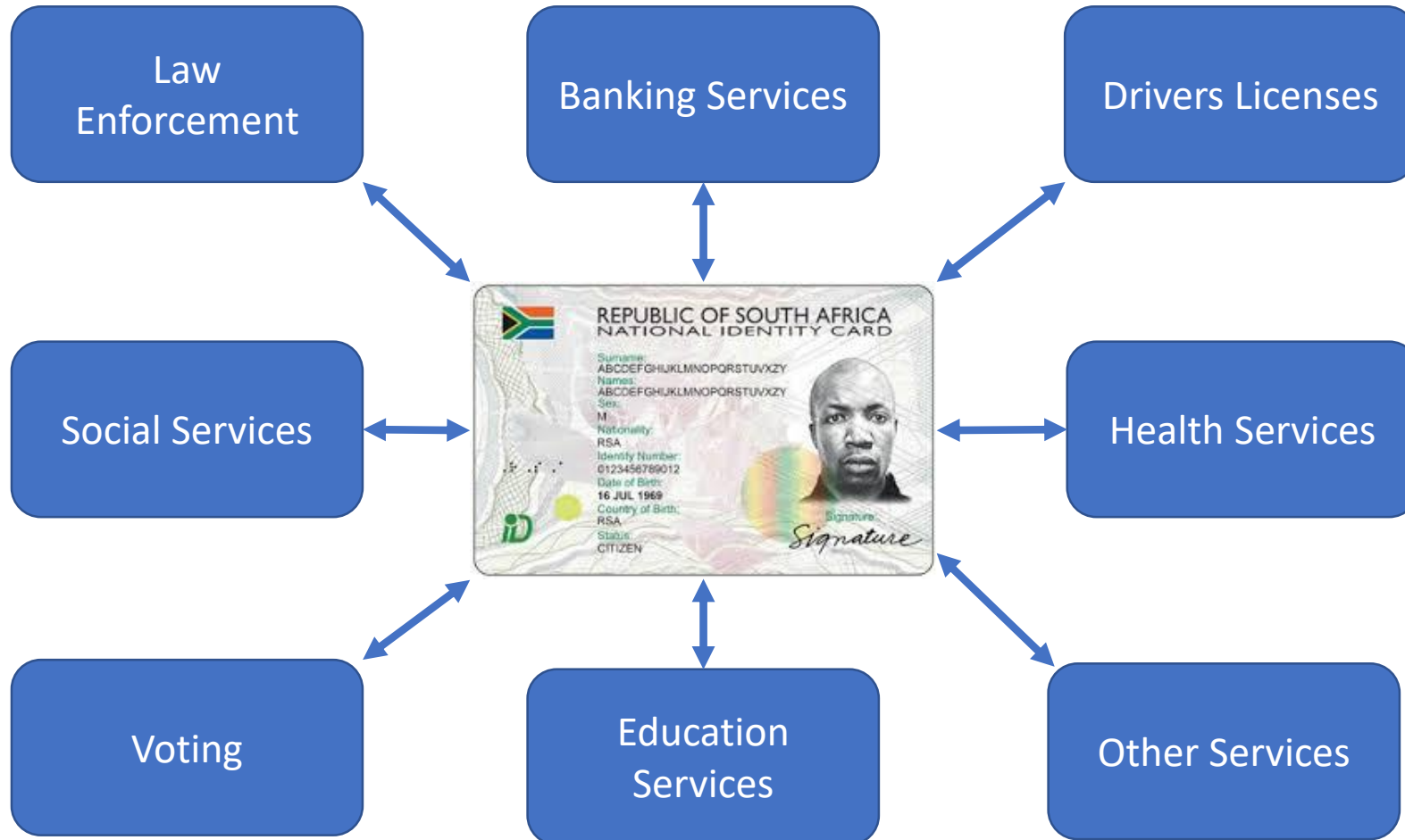


home affairs

Department:
Home Affairs
REPUBLIC OF SOUTH AFRICA

1x RSA
1x ECC

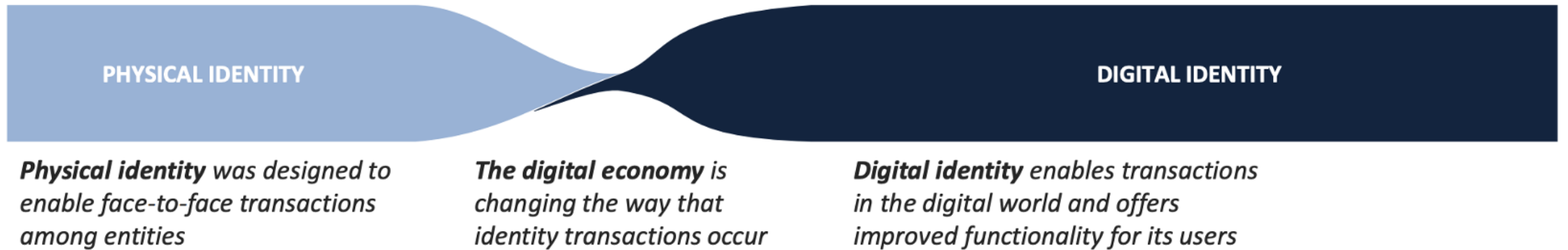
Smart ID Card – Enabling the Digital Citizen



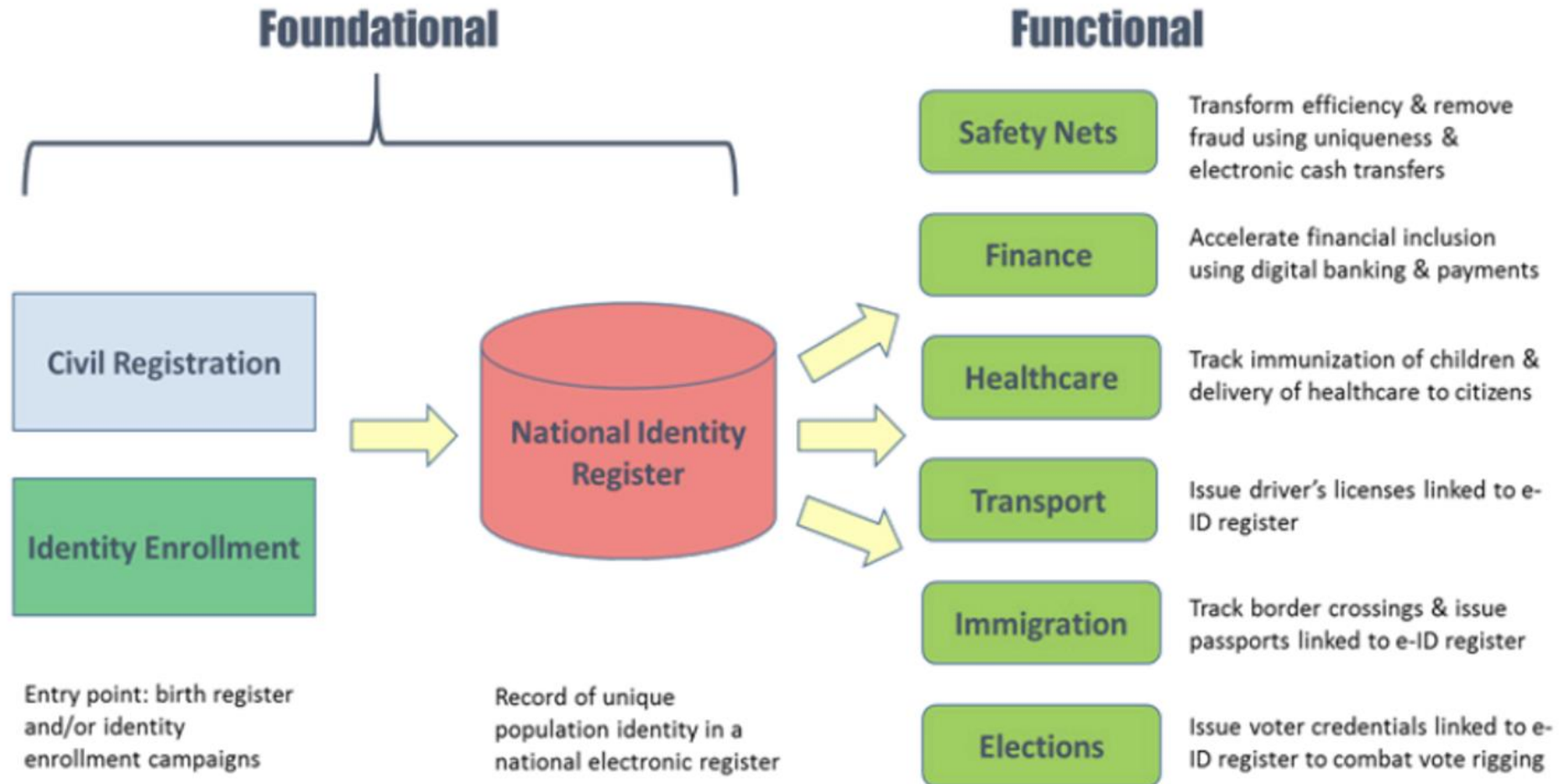
Trusted Digital Identity Overview

The Identity Shift

Identity is now at an inflection point; physical identity systems are breaking down and digital systems are emerging in response.



Foundational vs Functional ID systems



Foundational Identity

The South African Government's foundational Identity is the Smart ID card



and is owned by the Department of Home Affairs.

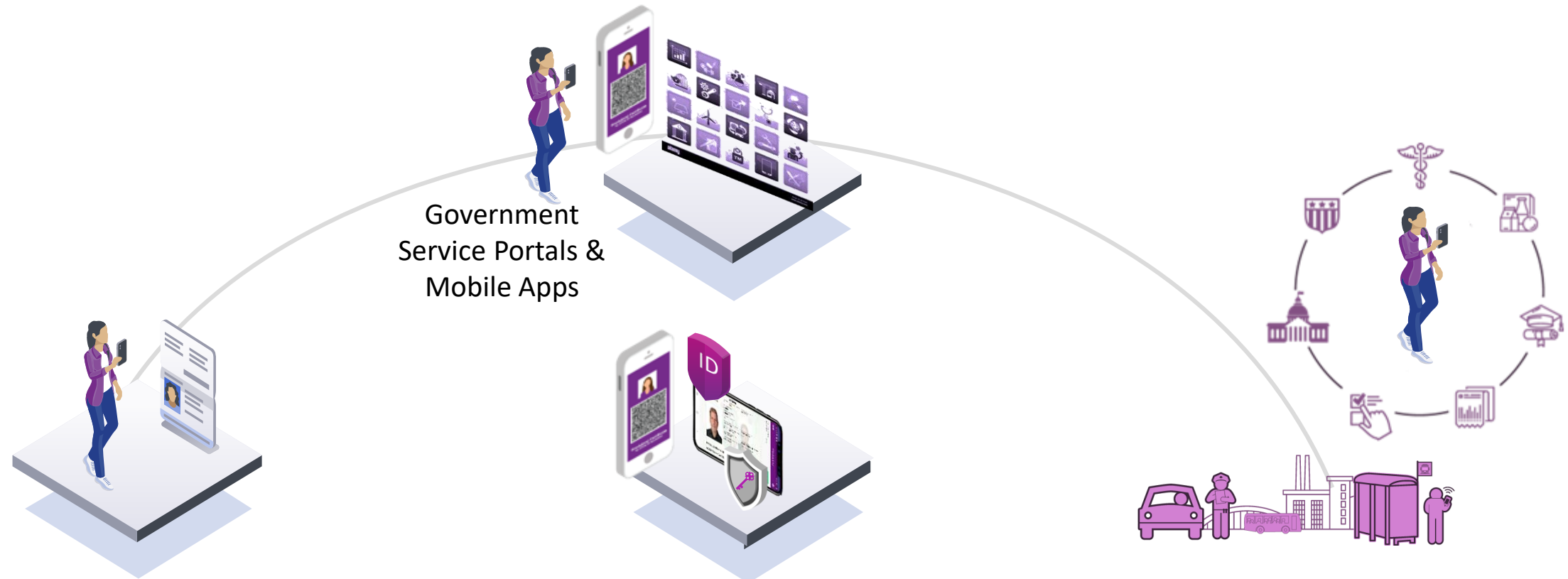


home affairs

Department:
Home Affairs
REPUBLIC OF SOUTH AFRICA

- A **citizen centric approach** to increase constituent **engagement**
- Internal & external pressure to enhance **efficiency, transparency,** and **accessibility** of public services and operations
- Myriad of **legacy** government systems and processes

The Vision: Citizen & Constituent Enablement



Enrollment & Onboarding

STRONG, VETTED
IDENTITY & DOCUMENT
VERIFICATION

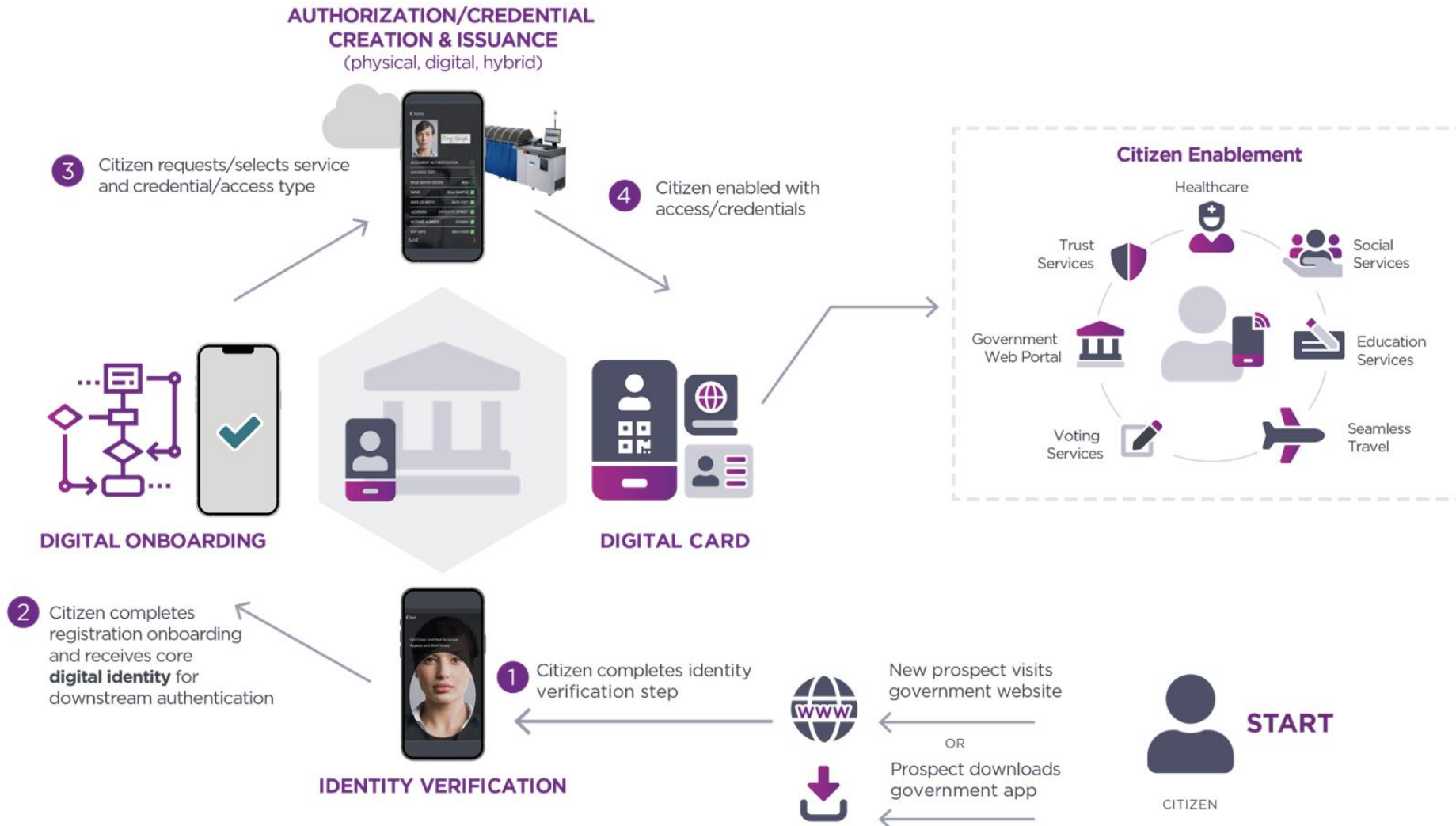
Government Service Portals & Mobile Apps

Credential Issuance

STANDARDS-COMPLIANT
PHYSICAL & DIGITAL IDENTITY
NATIONAL IDENTITY, mDL,
PUBLIC/PRIVATE

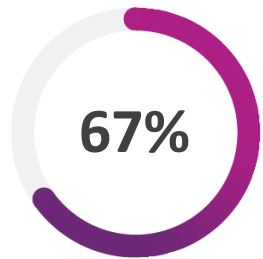
Digital Government Service Delivery

SEAMLESS EXPERIENCE
AUTHENTICATION & VALIDATION,
FRAUD PREVENTION,
DIGITAL SIGNATURE

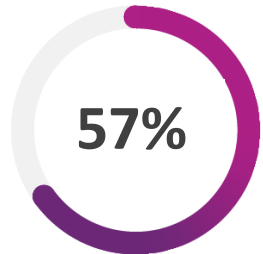


But it's still a journey

• Citizens



Citizens are citing long wait times as **the key challenge** to accessing government services



Citizens want to interact digitally with their government

• Governments



Citizen enablement is top of mind: 33% of national Govs. to offer mobile identity wallets by 2024

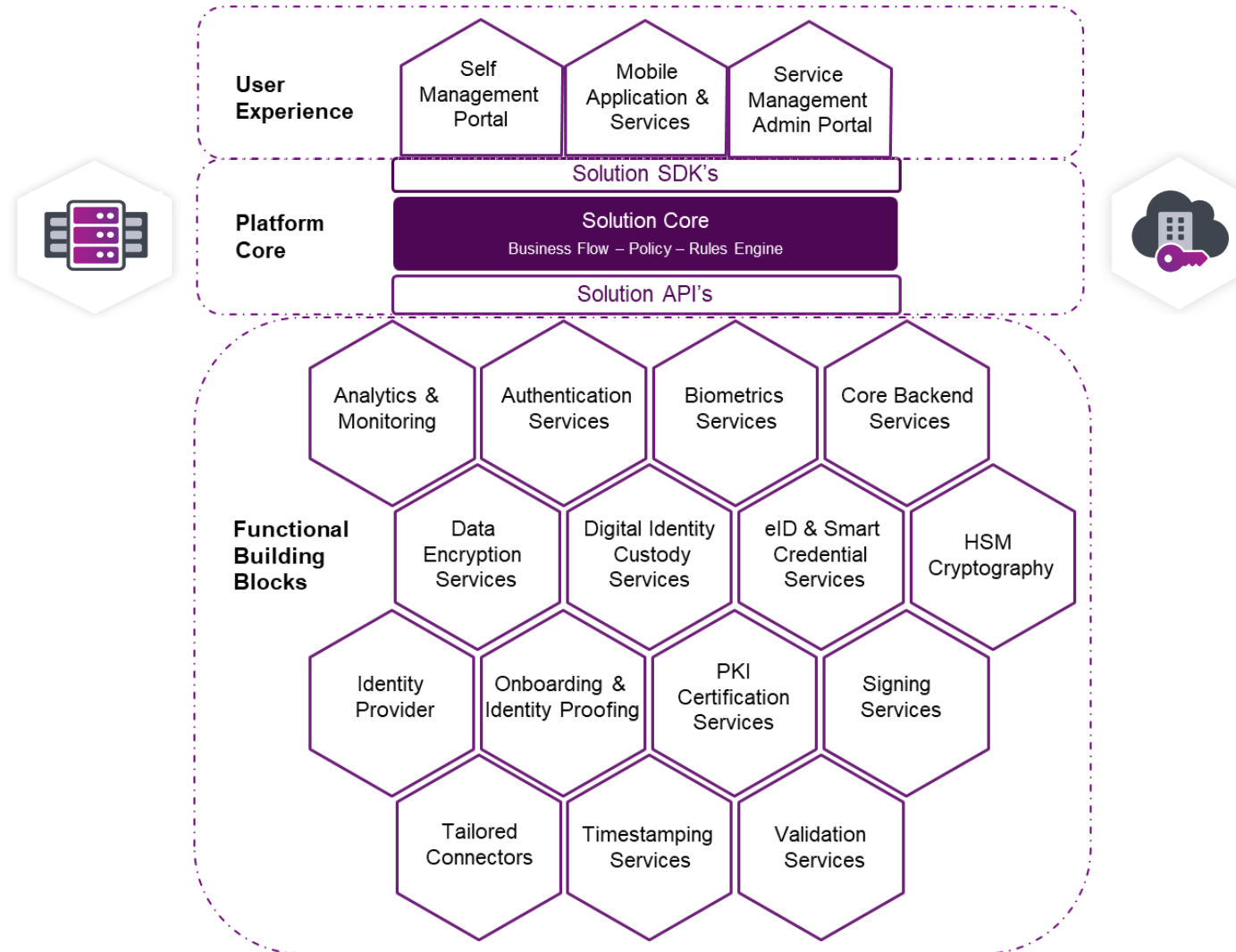


Gartner's [2023 CIO and Technology Executive Survey](#) showed that 57% of government CIOs plan to increase funding for application modernization in 2023, up from 42% in 2022



40% of digitally advanced Govts are focused on providing **integrated services** through a platform.

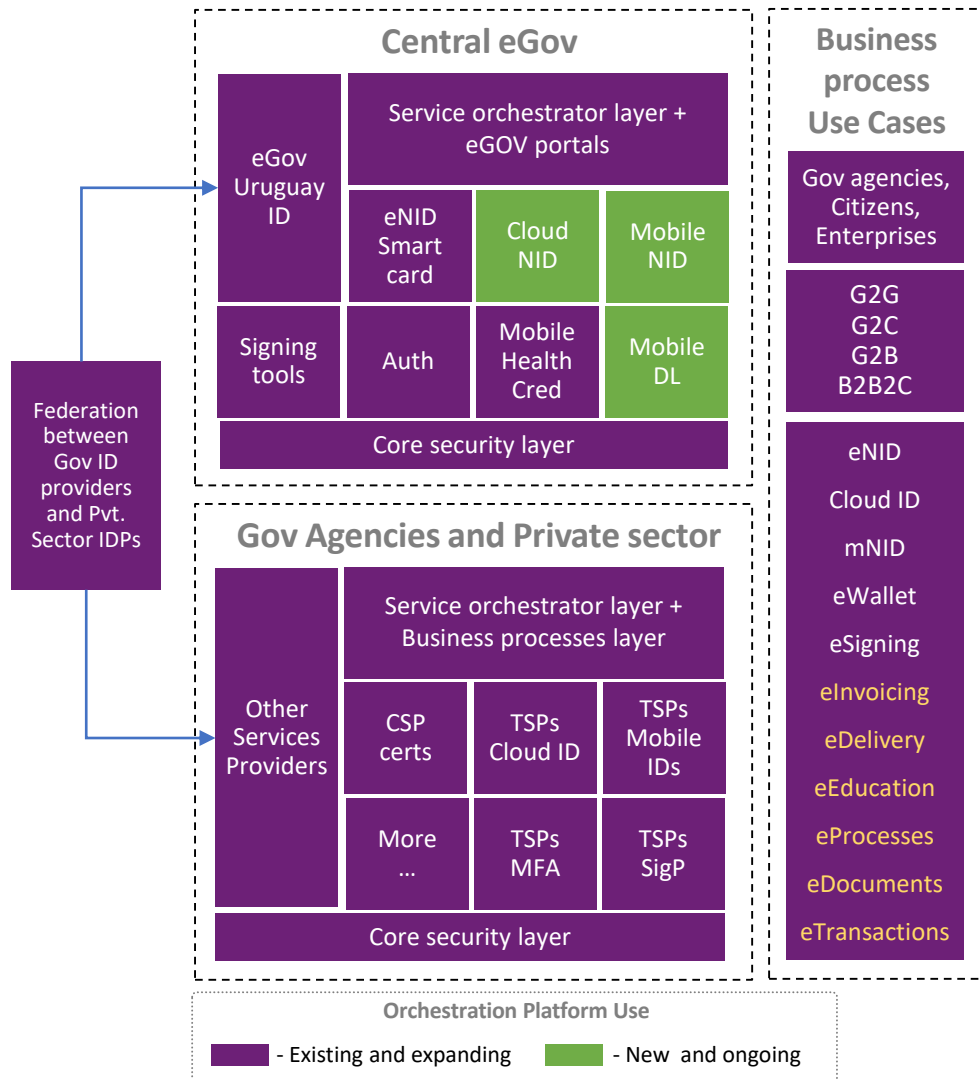
Secure Citizen Interactions Platform



Digital Identity Use Cases



Case Study – Uruguay National ID



• Solution

Our solution leveraged PKI, Authentication, and Remote Signing modular components under a composable web architecture to enable digital citizen channels.

• Impact

Uruguay deployed the TuID system, serving over 1 million citizens and non-Uruguayans.

Uruguay Gov VOC

On Government Targets

“Continue growing eGovernance in Uruguay and supporting Government objectives on citizen engagement” already enabling over +1,600 digital services.

On Orchestration Platform

“Their solution building blocks are dynamic modules used in our Central Government, Gov Agencies, and in Private sector technology and use cases...”



UAE PASS

Your secure national digital identity in the UAE

Say yes to UAE PASS

UAE PASS is the first secure national digital identity for citizens and residents, enabling them to access many online services across various sectors, sign and authenticate documents as well as transactions digitally, request a digital version of their official documents, and use the official documents to request services from our partners.

[Verify document](#)

[Sign Document](#)

Download UAE PASS



[Watch video](#)

UAEPASS overview

- Smart Dubai, in collaboration with the Telecommunications Regulation Authority (TRA), had inaugurated UAE PASS, a **National Digital Identity and Signature Solution** for all citizens, residents and visitors of the United Arab Emirates at Gitex 2018.
- Mission to “***Deliver world class smart services***” and to **citizens, residents and visitors (G2C)**, to businesses **(G2B)**, and to other government entities **(G2G)**.
- Streamline the usability, availability and security of government services
- Facilitate an assured **single unified digital identity** and authentication module
- Improve customer service and satisfaction
- Integrate interoperability of government service delivery
- Implement **Digital signatures recognized by the UAE legal system**
- Add governance to blockchain services for long term archiving

UAEPASS Main features

MOBILE APP BASED AUTHENTICATION

(SIM LESS)



NO USERNAME OR PASSWORD

PIN, TOUCHID, FACEID

SSO

DIGITAL SIGNATURE & E-SEALS



PADES – CADES - XADES

DATA/DOC SHARING & ARCHIVING



BLOCKCHAIN ETHEREUM

UAEPASS Security Assurance

BUILT ON NATIONAL PKI



BUILT ON NATIONAL PUBLIC KEY
INFRASTRUCTURE PROVIDED BY
DESC AND ICA

INDUSTRY STANDARDS AUTHENTICATION AND SIGNING CERTIFICATES



ALIGNED WITH EUROPEAN IDENTITY
AND TRUST SERVICES STANDARDS
(EIDAS)

SECURE STORAGE OF KEYS ON MOBILE AND HSM



NO PASSWORD
AUTHENTICATION ON EVERY
TRANSACTION

Digital ID for better and cost-effective services

Citizens

- Choice in credential form factor (physical or mobile)
- Real ease-of-use & convenience
- Real-time responsiveness to government interactions in their always connected world
- Personal control leading to sovereign identity
- Sense of privacy



Governments

- A path to increasing dematerialization
- A platform on which to anchor service delivery in citizen centricity
- The means to meaningfully engage citizens and other stakeholders
- Rapidity of service rollout and real-time updates
- Reduced cost of Gov't access compared to brick and mortar



Third Parties

- The means to establish greater assurance in citizen identity and associated privileges/authorizations
- Provide for richer and more current identity and attribute data





THE TRANSITION TO MOBILE

Nearly ubiquitous mobile data and Wi-Fi coverage

Low cost for issuance/service

Improved user experience

Security improves constantly

Large app ecosystem

Non-repudiation reduces fraud

You Don't Leave Home Without It !

Secure Citizen Interactions Platform

- BENEFITS:



Improved citizen /
constituent experience
and engagement



Better service
delivery




Enhanced
Identity
Protection



Strengthened
Infrastructure



Improved cyber
risk posture

 Home Certificates Credentials ID Usage Security Utilities Start

Personal data

Name and Last name:

SEBASTIAN SIENRA

Document country:

Canada

Document number:

[REDACTED]8

Cellphone:+1 [REDACTED] **Email Address:**sebastian.sienra@entrust.com **Registration authority:**DEMO_Registration authority 

Extended data

COVID-19 vaccine 

Vaccine brand: Comirnaty

Number of doses: 2

Vaccination date of last dose: 24/03/2021

Official university degree 

Faculty: Faculty of Architecture and Urbanism

University: University of Imhotep

Date: 30/04/2008

Country: Utopia

Driver's license 

Number: UTO123456

Type: Class A license

Issuer: Demo Issuing Authority

Inbox

Situation report on coronavirus COVID-19 in Uruguay

Epidemiological report: According to information provided by the Ministry of Public Health (MSP), today 2,072 tests were carried out and 183 new cases of Coronavirus COVID-19 were detected.

[See more](#)[Secure Transactions Hub](#) →[Review my Digital ID usage Logs](#) →

IDENTIFICATION METHODS

[CHANGE](#)**User and password**

Use your email and password to authenticate your identity securely.

**SMS Verification**

Receive a one-time code via SMS for an extra layer of security during the authentication process.

[DE-ACTIVATE](#)**Mobile App**

Utilize a dedicated mobile app to enhance the security of your digital identity.

[CHANGE](#)**Signature's PIN**

Set up a unique PIN to add an extra layer of security when signing with your digital certificate.

[LINK](#)**Federate your ID**

Easily connect your IDaaS (Identity as a Service) account with your digital identity.



 Home

 Certificates

 Credentials

 ID Usage

 Security

 Utilities

 Certificates

ACTIVE CERTIFICATES

CERTIFICATE TYPE
Natural person

VALIDITY PERIOD:
27/05/2023 - 27/05/2025

REVOKE

Download

Inactive Certificates





Home

Certificates

Credentials

ID Usage

Security

Utilities


Credentials

MOBILE CREDENTIALS

CREDENTIAL TYPE NATIONAL MOBILE ID	DESCRIPTION Your linked smart credential for the mobile national identity EXPIRATION 2027-12-11	✓ ISSUED			REVOKE
CREDENTIAL TYPE MOBILE DRIVING LICENSE	DESCRIPTION Your linked smart credential for the mobile driving license EXPIRATION 2027-12-11	✓ ISSUED			REVOKE
CREDENTIAL TYPE MOBILE HEALTH CREDENTIAL	DESCRIPTION Your mobile smart credential with health information EXPIRATION 2027-12-11	✓ ISSUED			REVOKE
CREDENTIAL TYPE MOBILE TRAVEL CREDENTIAL	DESCRIPTION Your mobile digital travel credential derived from your passport EXPIRATION 2027-12-11	✓ ISSUED			REVOKE
CREDENTIAL TYPE MOBILE CORP. CREDENTIAL	DESCRIPTION Your linked smart credential for the corporate credential EXPIRATION 2027-12-11	✓ ISSUED			REVOKE
CREDENTIAL TYPE MOBILE STUDENT CREDENTIAL	DESCRIPTION Your linked smart credential for the student credential EXPIRATION 2027-12-11	✓ ISSUED			REVOKE
CREDENTIAL TYPE MOBILE	DESCRIPTION Download and activate your MOBILE ID+ app to create a new smart credential. Follow the instructions on the app and use the activation QR Code.				NEW


- Home
- Certificates
- Credentials
- ID Usage
- Security**
- Utilities

Security





CHANGE


User and password
Use your email and password to authenticate your identity securely.



SMS Verification
Receive a one-time code via SMS for an extra layer of security during the authentication process.





eMail Verification
Receive a one-time code via eMail for an extra layer of security during the authentication process.




DE-ACTIVATE

Mobile App
Utilize a dedicated mobile app to enhance the security of your digital identity.




CHANGE

Signature's PIN
Set up a unique PIN to add an extra layer of security when signing with your digital certificate.



LINKED DEVICES
Remove the existing links with your devices.



LINK

Federate your ID
Easily connect your IDaaS (Identity as a Service) account with your digital identity.

Identity Assurance Levels

REGISTRATION LEVELS

Medium
Online

High
In-person or mobile

Very high
In-person biometrics

AUTHENTICATION LEVELS

LOW



MEDIUM

HIGH

Mobile apps



MOBILE ID App

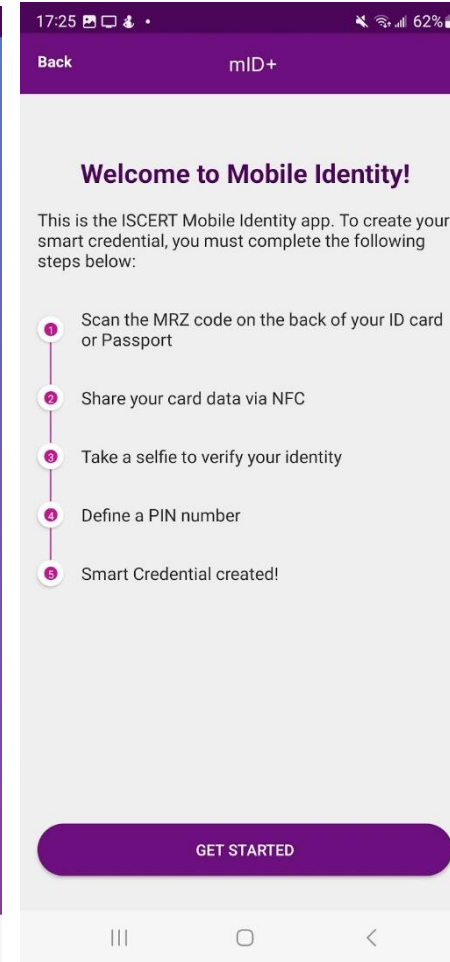
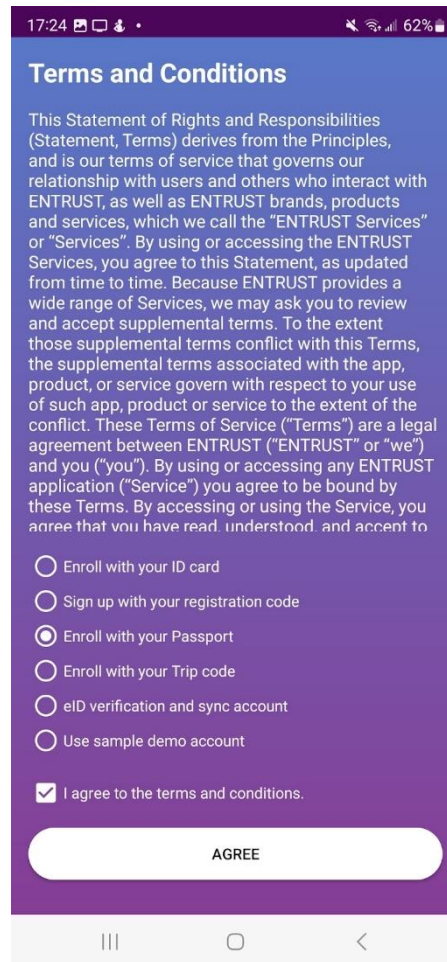
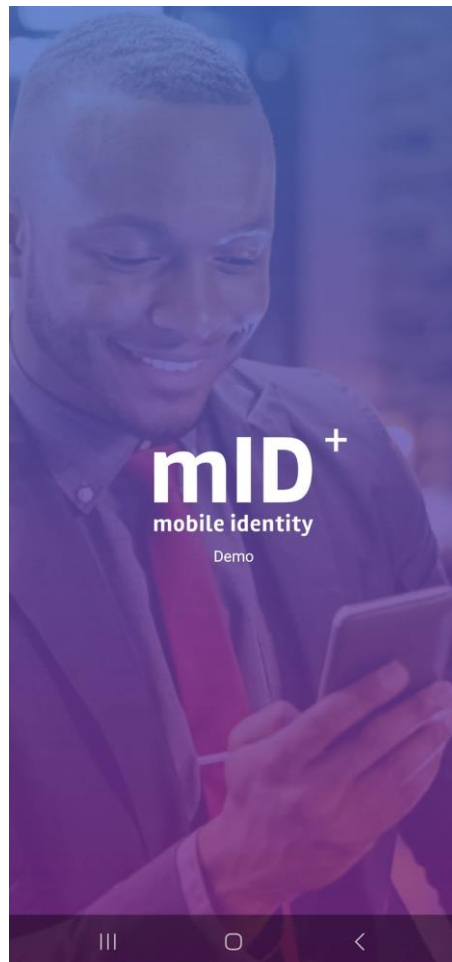
Activate the mobile app and increase your digital identity security.

 APP STORE  GOOGLE PLAY

MOBILE ID+ App

Download the app and manage your Mobile Smart Credentials.

 APP STORE  GOOGLE PLAY



IDV →


17:27 62%







Back MID+ ⚙️

Last refreshed time
01 MAY 2023 - 05:27:11 PM.

NAME
Sebastian Sienna

ACTIVE
UNTIL DEC 11 2027




- DRIVING LICENSE**
Issued by UTO-TRA 
- HEALTH CREDENTIALS**
Issued by UTO-HA 
- NATIONAL ID CARD**
Issued by UTO 
- DIGITAL TRAVEL CREDENTIAL**
Issued by UTO 
- CORPORATE ID**
Issued by Demo Company 
- STUDENT ID**
Issued by Demo University 

⋮ ○ <


17:27 62%

Back MOBILE DTC ⚙️

Last refreshed time
01 MAY 2023 - 05:27:20 PM.

PASSPORT


ACTIVE
UNTIL DEC 11 2027



SURNAME
SIENRA

GIVEN NAME
SEBASTIAN

DTC NUMBER **DATE OF EXPIRY**
AG **DEC 11 2027**

SEX **NATIONALITY** **DATE OF BIRTH**
M **CAN** **JAN 1**

VIEW TRAVEL CREDENTIAL

BE VERIFIED

⋮ ○ <

Digital ID use cases

- Home
- Certificates
- Credentials
- ID Usage
- Security
- Utilities

Utilities



Need to sign a document?

Just click and sign! Sign your documents digitally to achieve the same level of authenticity as a handwritten signature. The validation process is simple too. Our tool verifies all signatures and provides detailed information about each signer to guarantee the document's authenticity and integrity.

DOCUMENT SIGNING



Simplify your Signing Workflow with digital signatures

Upload one or more documents, apply your digital signature, or define multiple signers and collect their remote signatures. Define the signature type and the signing order, launch the signatures collection process, and track the status of the workflow.

DIGITAL SIGNING WORKFLOW



Manage your ID Card

Managing your ID Card with ease has never been easier. Access your card, check its status, and verify your PIN and digital certificate status.

TEST YOUR CARD



Effortlessly fill and sign Forms online

Easily fill and sign forms from anywhere with our secure and user-friendly web app. It adheres to global digital signing standards and seamlessly integrates into your business processes and systems.

FILL AND SIGN FORM



Trusted document proofs

Protect your paper-based and eDocument-based credentials with the use of Digital Signatures and reliable QR Codes. Test this Proof of Insurance policy sample.

GET PROOF



eGovernment use case

Access state information and government services conveniently in one place. You can easily access them using your national identity document, digital identity, or mobile identity.

GUB.UY



Digital online banking

Experience the next generation of digital banking with Easybank. With a range of innovative features, our platform provides you with a seamless and convenient way to manage your finances.

GO TO EASYBANK



Conveniently Shop from Anywhere

Authenticate with ISCERT and access ANTEL's online store today to experience the convenience of shopping from the comfort of your own home.

ACCESS ONLINE STORE

Digital ID use cases



Seamless mobile identity verification (IDV)

Citizens want seamless, secure experiences. Whether crossing borders, accessing e-services, or checking in to a flight, how you enable them affects their ability to move through the world safely and freely.

[GET MOBILE IDV](#)



Country entry form

To ensure a smooth arrival to our country, it is advisable to complete all procedures accurately. This can be easily accomplished by filling out all required forms on our website and utilizing our app, which guarantees a hassle-free experience.

[GET STRAVEL APP](#)



MOBILE ID App - Your mobile Digital ID

Take control of your digital identity with our mobile apps. Download and activate our easy-to-use app to securely access your accounts, confirm transactions, and sign documents anytime, anywhere.

[DOWNLOAD APP](#)



MOBILE ID+ Apps - Your mobile Digital Credentials

Smart Credentials Mobile Wallet & Verifier: A unified solution for mobile credential management. You can securely generate, store and verify mobile smart credentials for any use case.

[CITIZEN APP](#)

[VERIFIER APP](#)



Get set for the Next-Level!

Expand your productivity horizons with exciting new applications and tools for the ISCERT ecosystem!



Let's Team Up!

Contact us and take your applications to the next level with our marketplace integration!

What is needed to help accelerate your digital journey?



STRONG IDENTITIES



SECURE DIGITAL GOVERNMENT SERVICES



PROTECTED DATA

ALTRON
SECURITY

Questions

