

ID4Africa

A Seamless Path to Trusted Identity



A SEAMLESS PATH TO TRUSTED IDENTITY

ENABLED BY PKI

The creation of new Government to Citizen relationships by blurring the physical and digital world – increased citizen engagement based on strong digital identity and secure service delivery.



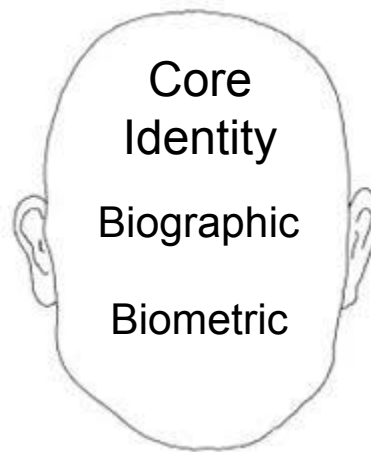
DIGITAL IDENTITY TODAY

Core Identity

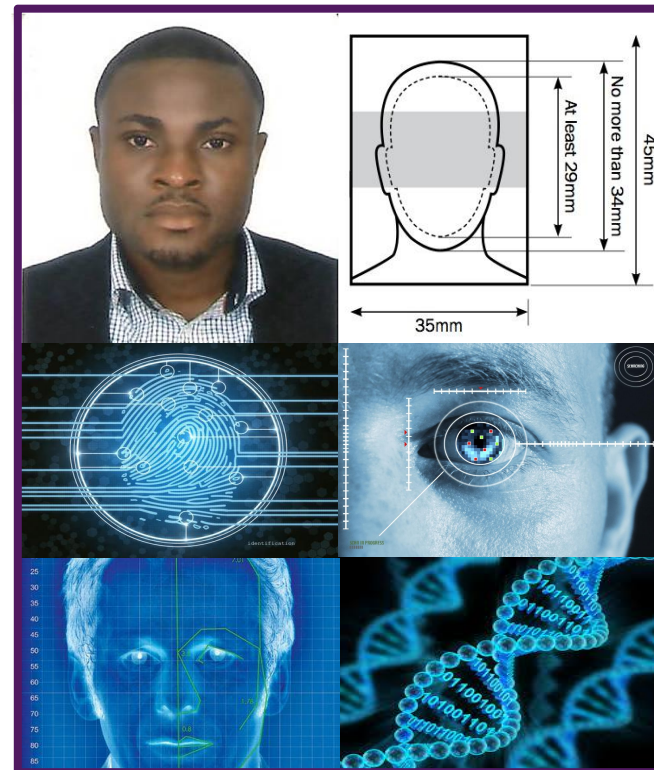
- Name
- Place of Birth
- Parents
-

Biographic Elements

- Address
- Education
- Marital status
- Employment
- Licensing...



Identity is
all about
you!



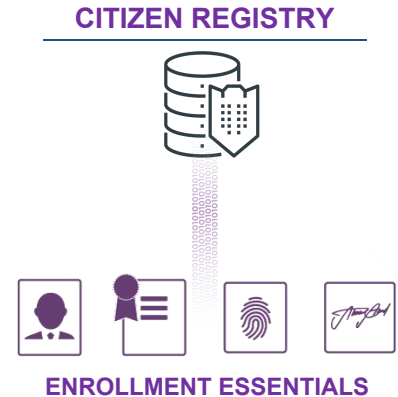
CITIZEN IDENTITY & IDENTITY MANAGEMENT

Identity is important

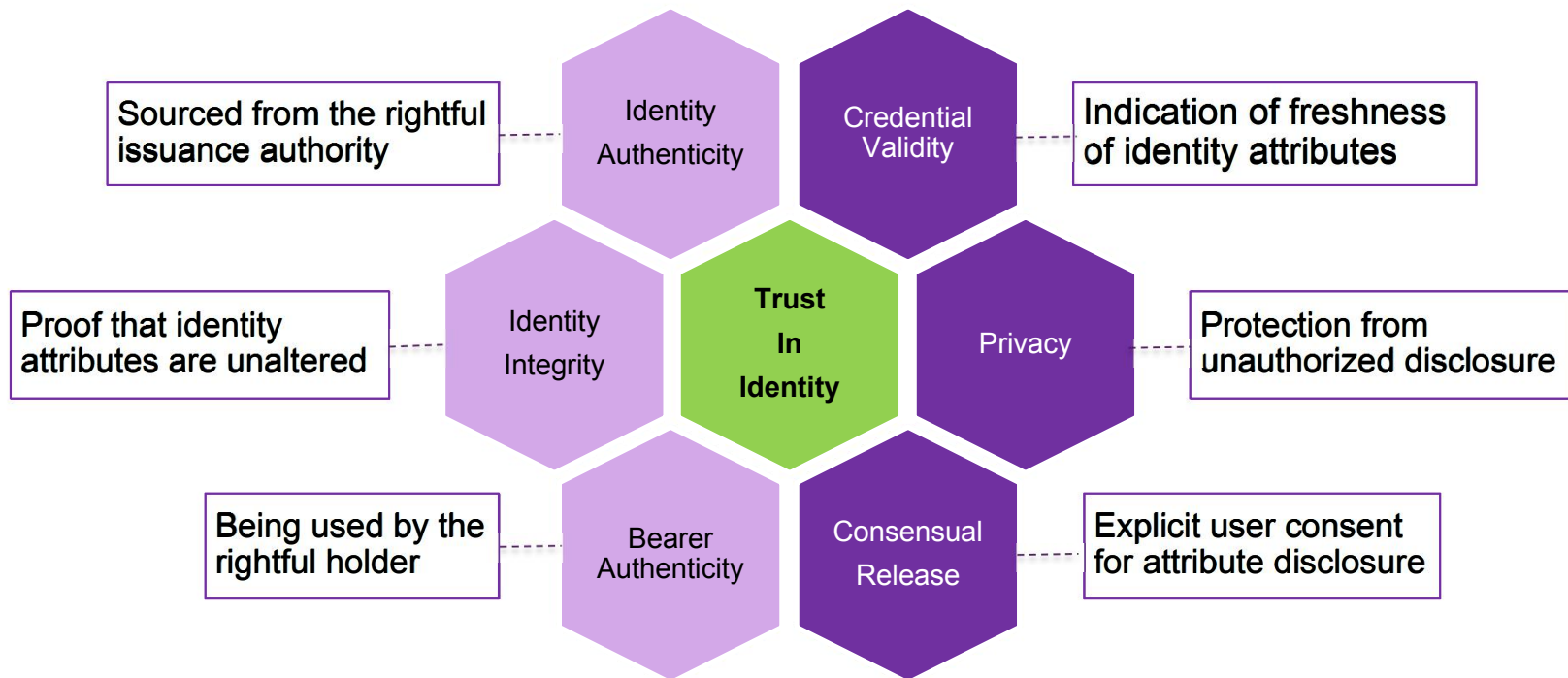
- Recognition of unique identity is a birth right
- Attestation to that recognition binds the individual to a community; to a set of social rights; including citizenship
- The foundation for engagement with our government

Critical Items

- One identity provable as authentic and accurate
- Quality in all aspects of Identity attribute data collection
 - Core, Biographic and Biometric
- Government as custodian; not owner of identity
 - Protection, Transparency and Privacy
 - Data Minimization & Consensual release



WHAT WE NEED FOR TRUST



The degree to which these things can be proven conveys assurance of trust in the presented identity & credential

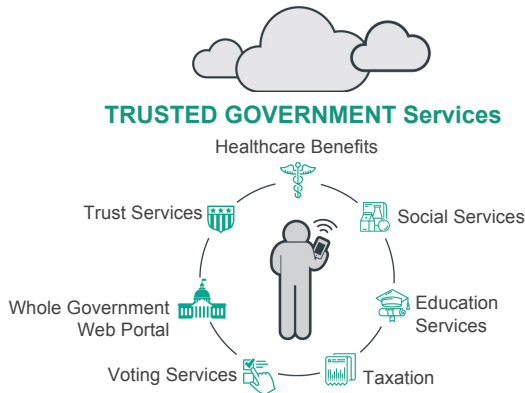
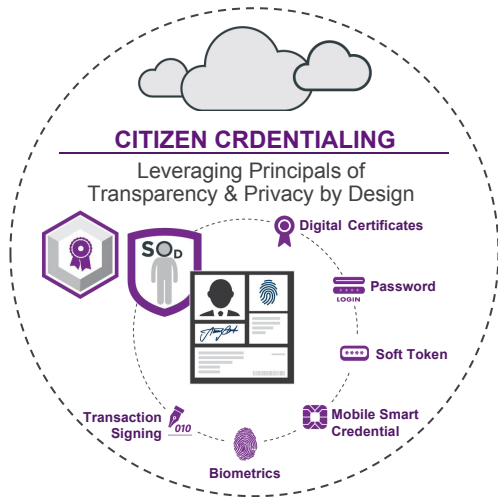
THE IMPORTANCE OF CITIZEN CREDENTIALS

Strong Credentials are important

- Allow exercise of the value of identification as Citizen
- Demonstrate State's attestation of identity
- Facilitate easy intuitive access to the rights of citizenship
- But with growing utility comes greater value...to everyone

Critical Items

- Prove Identity of holder without doubt - Integrity & Authenticity
- Demonstrate a strong binding to the Citizen
- Be absolutely “trusted” within the ecosystem in which they operate – validated



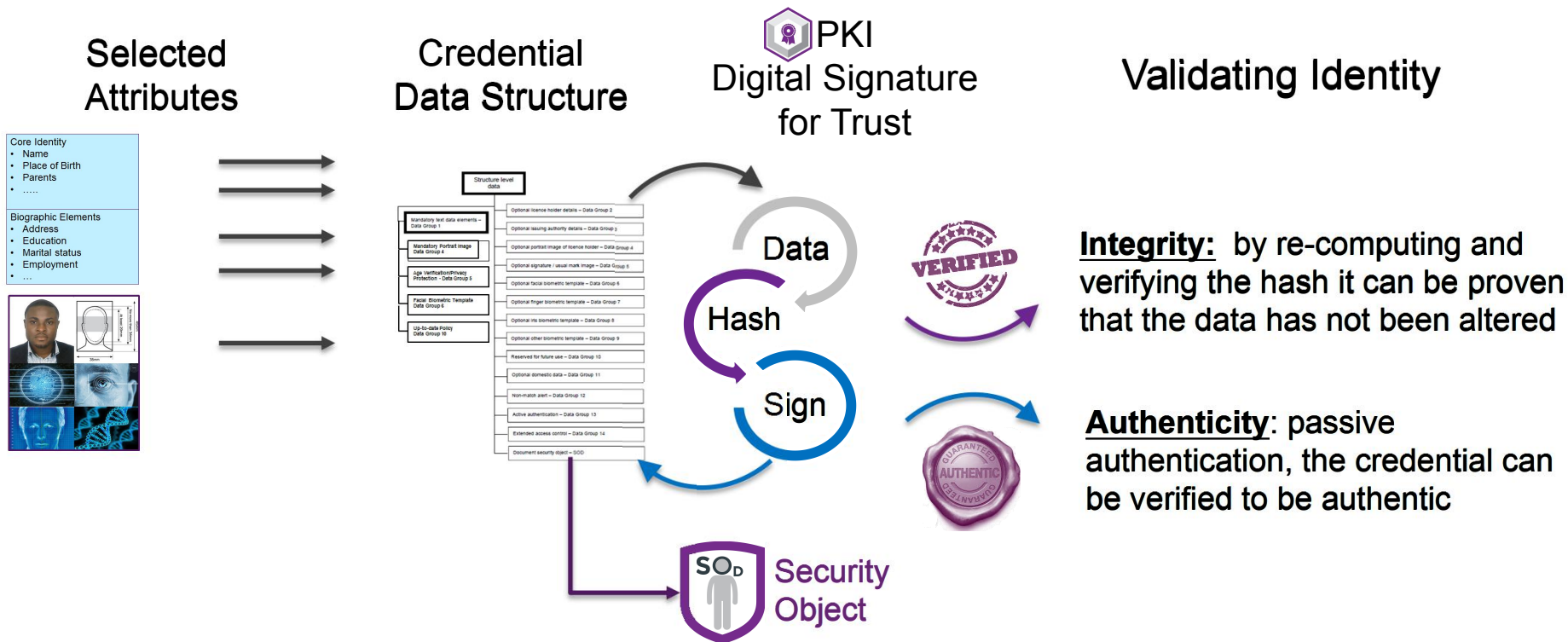
TRUSTED CITIZEN



TRUSTED TRAVELER

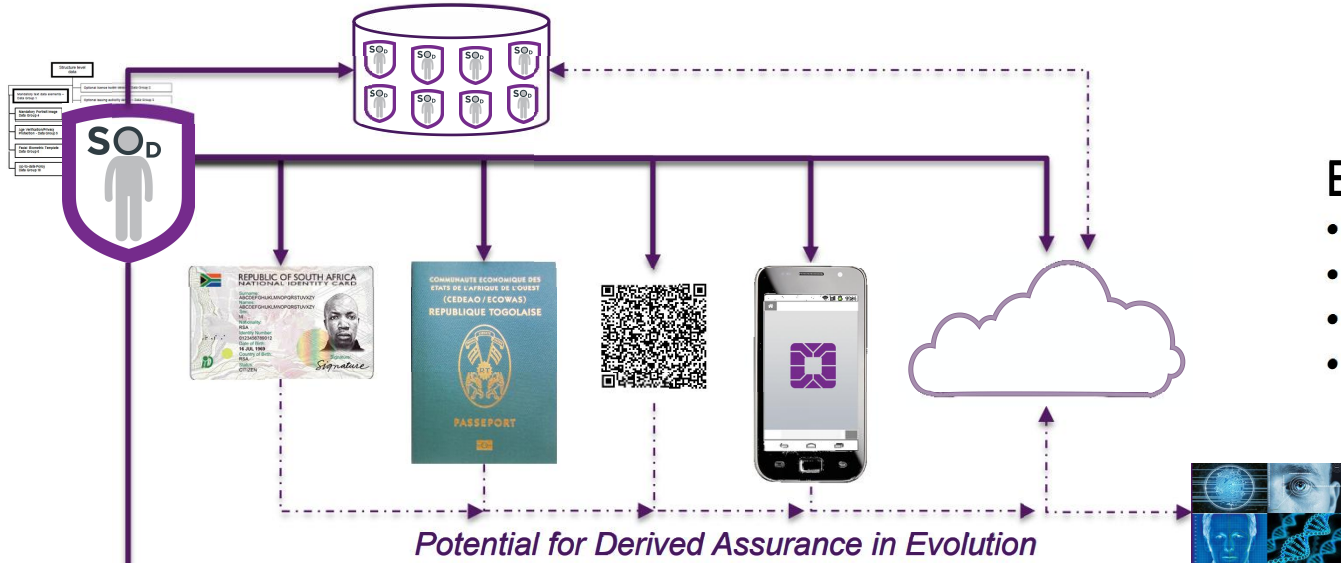


PKI KEY FOR IDENTITY ASSURANCE



The Security Object is an Authorized Attestation of Identity

A SEAMLESS PATH FOR IDENTITY & CREDENTIAL EVOLUTION



Evolution Factors

- eGov Readiness
- Technology Infrastructure
- Citizen Demographics
- Technology Penetration

- The SO_D secures the identity attributes to establish assurance in the credential
- It is not dependent on the credential form factor – it is self-secured
- Within a unified identity management architecture can be key to seamless evolution of credentials as different sectors / applications require

ENABLING TRUST IN CITIZEN USE CASES



- For attended/person-to-person use cases, this Secure Credential may be all that is needed for high assurance proof of identity. Strongest possible mitigation of forgery risk



- For online and automated (e.g. Kiosk, eGate or Online) proof of the “Binding” of the Holder to the Secure Credential is required. To mitigate impersonation risk.



Validation



Authentication

Know: PIN/CAN
Have: PKI/Keys
Are: **Biometrics**
Do: Action

Online Transactions



MOBILE POTENTIAL AS AN IDENTITY CREDENTIAL

The Mobile platform brings much potential to Citizen Identity

- Integrated, seamless & personal user experience
 - 24/7 Connectivity & Unlimited Application reach
- Versatile multifactor authentication tool
 - Variety of biometric sensory capabilities to elevate proofs of bearer authenticity
- Not just a flexible credential, but a transaction platform
 - Rich applications context and opportunity for data minimization and consensual release of identity data
 - PKI operations e.g. authentication and transaction signing



Lack of an independent ubiquitous security model
Technology and infrastructure itself as a barrier to some demographics

TRUSTED CITIZEN IDENTITY TRANSACTIONS

CITIZEN REGISTRY



CITIZEN ENROLMENT



ENROLMENT ESSENTIALS

SIMPLIFIED ENROLLMENT

Easy to deploy for
governments and easy to
adopt for citizens.

Improve service levels, control costs and enhance both privacy and security with digital ecosystems based on trusted identity.

- Targeting a single High Assurance Citizen Identity Record
- Build Privacy & Integrity Controls into Identity attribute and biometric data collection, migration and registry management processes

TRUSTED CITIZEN IDENTITY TRANSACTIONS

CITIZEN REGISTRY



CITIZEN ENROLMENT

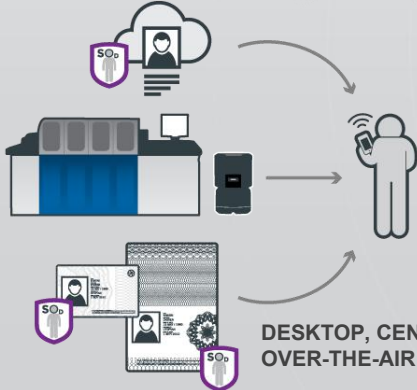


ENROLMENT ESSENTIALS

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SECURE ISSUANCE



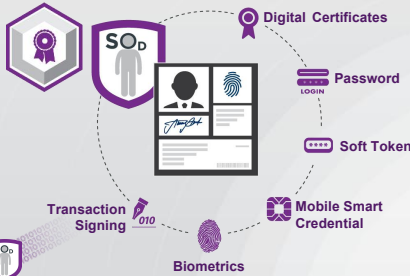
DESKTOP, CENTRAL AND
OVER-THE-AIR ISSUANCE

Improve service levels, control costs and enhance both privacy and security with digital ecosystems based on trusted identity.



UNIFIED CITIZEN CREDENTIALING

Leveraging Principles of
Transparency & Privacy by Design



DIGITAL & PHYSICAL CREDENTIALS

One central core identity
used to issue all
credentials

- National PKI sound investment as the foundation to secure identity and underpin strong identity credentials
- A unified credentialing and authentication capability across an array of application identity requirements: Health, DL, National ID, ePassport
- Uniform integrity and authenticity built into Secure Issuance across credential form factors
- Fully integrated key and certificate lifecycle management to support citizen transactions

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CITIZEN ENROLMENT

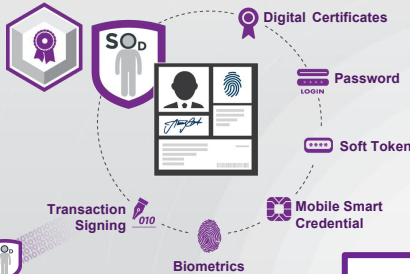


ENROLMENT ESSENTIALS

**SIMPLIFIED
ENROLLMENT**

UNIFIED CITIZEN CREDENTIALING

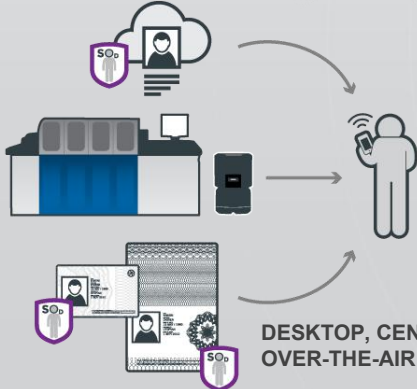
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DIGITAL & PHYSICAL CREDENTIALS

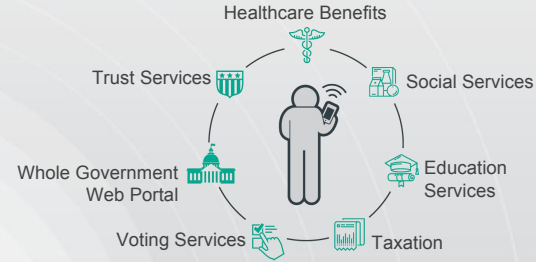
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SECURE ISSUANCE



DESKTOP, CENTRAL AND
OVER-THE-AIR ISSUANCE

TRUSTED GOVERNMENT ONLINE



TRUSTED TRAVELER



TRUSTED CITIZEN



- Value of identity is realized through service delivery
- Trust in identity is achieved only through validation!
- Trust of the citizen is based on respect for identity & privacy

TRUSTED CITIZEN IDENTITY TRANSACTIONS

Improve service levels, control costs and enhance both privacy and security with digital ecosystems based on trusted identity.

CITIZEN REGISTRY



CITIZEN ENROLMENT



ENROLMENT ESSENTIALS

**SIMPLIFIED
ENROLLMENT**

UNIFIED CITIZEN

Leveraging P
Transparency & P



Soft Token

Mobile Smart
Credential

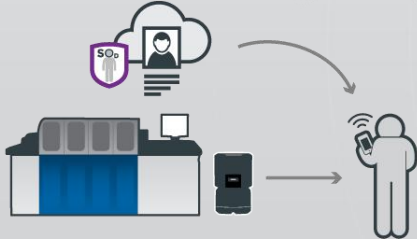
Transaction
Signing

Biometrics

DIGITAL & PHYSICAL CREDENTIALS

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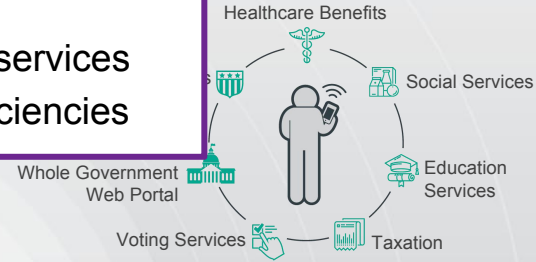
SECURE ISSUANCE



**DESKTOP, CENTRAL AND
OVER-THE-AIR ISSUANCE**

- Inevitably, success will be measured
 - Citizen engagement
 - Pull for expansion of services
 - Cost and process efficiencies

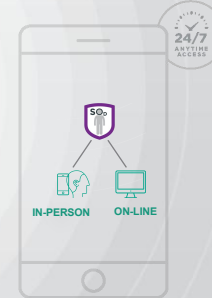
TRUSTED GOVERNMENT ONLINE



TRUSTED TRAVELER



TRUSTED CITIZEN





Thank You

