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**Connecting citizens and governments.
National strategies of document
digitalization in Africa.**

ID4Africa, Nigeria, 2018

Government eID in Africa: trends

Secure e-documents
Efficient and reliable environment and infrastructure.

Authentication
Convenient and secure authentication on mobile devices

Verification
Precise and massive citizen verification

E-government
Effective access and usage of e-Government

Financial inclusion
Identity + payment

Collaboration
Increasing collaboration between registries & databases, enrolment stations, issuance bureaus, banks, traffic, social and healthcare systems, etc.

Government eID in Africa: challenges

**Current approach
to implement e-documents in Africa:**

- ☑ Solution providers and integrators sell <u>separate systems and projects</u> to governments.
- ☑ Systems are usually not connected with each other.
- ☑ There is no exchange of data between units and systems.
- ☑ System capabilities are not used effectively.
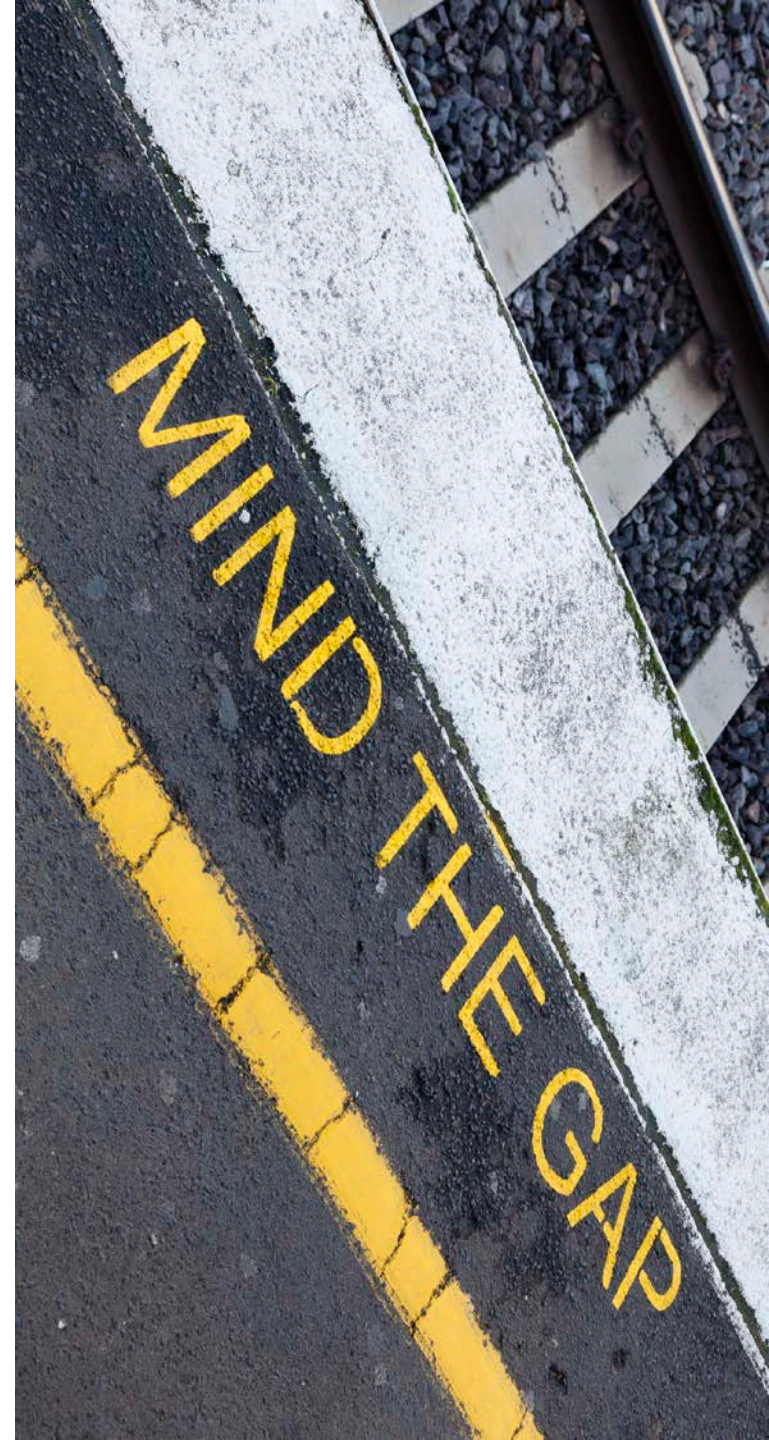
Government eID in Africa: challenges

Desired approach & next challenge:

- ☑ Build synergy between governments and solution providers.

- ☑ Explain governments how their country can benefit from implementing a **complete ID system** for citizen verification and identification, e-Government, border control, healthcare and social programs, financial services.

- ☑ Maximize efficiency and minimize costs.

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African eID: fast-developing market

- ☑ **Africa is developing fast**. What was once a few countries investing in citizen identity is now a fast-growing market.

- ☑ There are **many opportunities with an integrated ID system** with a wide range of applications: voting, social programs, Know Your Customer (KYC) for banking and financial inclusion.

- ☑ Each country in Africa should find its own path for growth.

- ☑ Secure ID systems will help shaping the Africa of the future and improve the living standards for a billion+ of people.

Digital disruption in Africa

☑ Number of people travelling within Africa and internationally is increasing. Secure documents and systems, including PKI, are a must to fight identity fraud and establish mutual trust between countries.

☑ <u>The system behind the identity document becomes more important than the document itself.</u>
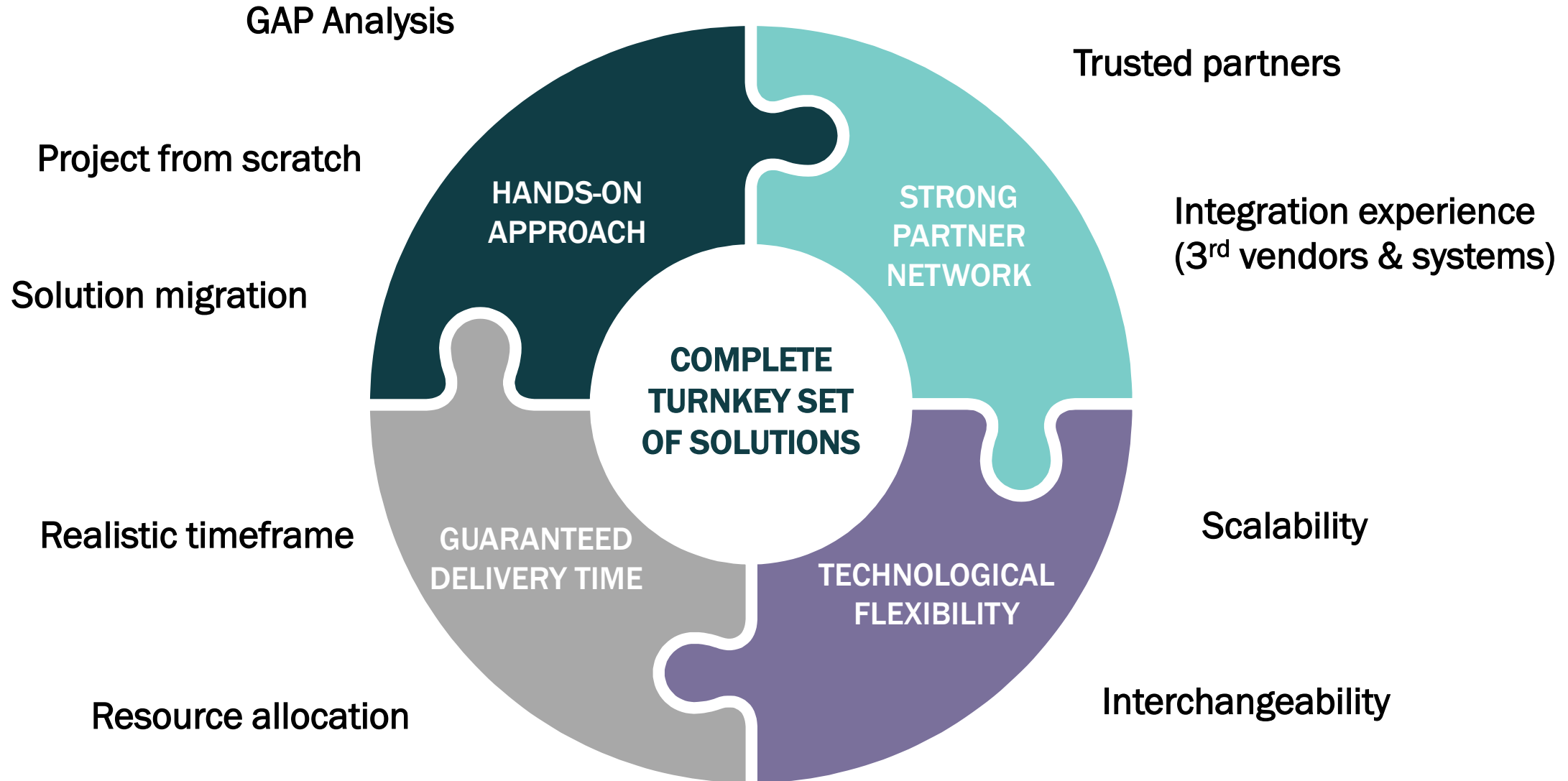
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Digital disruption in Africa

☑ **The majority of Sub-Saharan population still live in rural areas.** Therefore governments are not only in need of centralized systems but also mobile enrolment systems and independent platforms that can work without Internet and electricity.
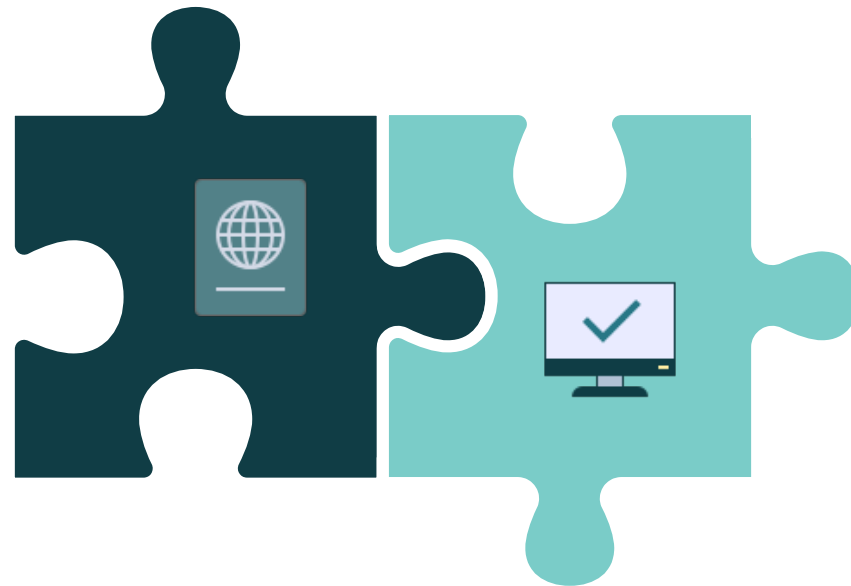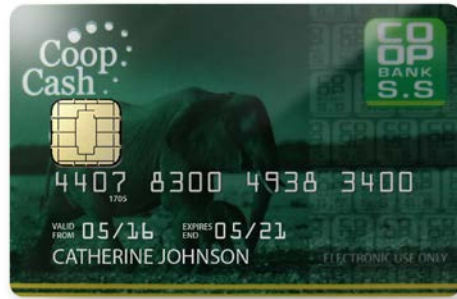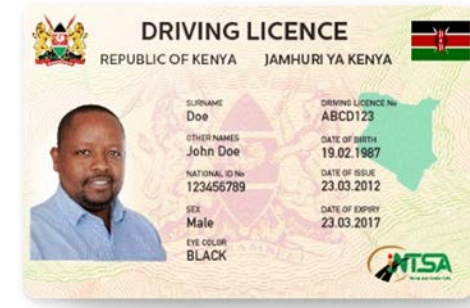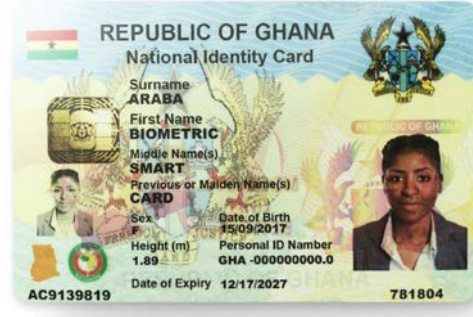
A healthy balance between secure documents and professionally developed systems is needed.

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X Infotech's advantages

GAP Analysis

Trusted partners

Project from scratch

Integration experience
(3rd vendors & systems)

Solution migration

HANDS-ON
APPROACH

STRONG
PARTNER
NETWORK

COMPLETE
TURNKEY SET
OF SOLUTIONS

Realistic timeframe

Scalability

GUARANTEED
DELIVERY TIME

TECHNOLOGICAL
FLEXIBILITY

Resource allocation

Interchangeability

X Infotech case studies

Ghana eID case

End-to-end solution implemented by the consortium:
enrolment, personalization, instant issuing and in-the-field usage, combined with national AFIS system

Set of Chip Functionalities

☑ ICAO ID application (SAC/EAC compliant)

☑ National ID application (EACv2)

☑ Match-on-card

☑ PKI application,

☑ CPA payment application
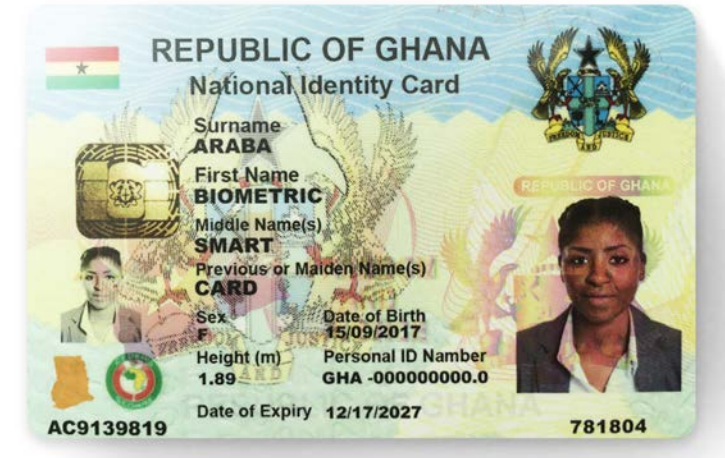
Card is a combination of legacy barcode cards and modern chip card

Chip – CC EAL5+ certified, biometrics, EAC (CA/TA), PKI, end-to-end encryption between mobile stations and central DB

Ghana eID case

Enrolment & Card personalization - mobile kits

Further developments

Mobile tablets for cardholder enrolment, biometric authentication, and post-issuance solution for information update on the chip

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Huduma card case

Quick facts (Statistics from Huduma Kenya service)

- ☑ Customers served daily: **30,000**
- ☑ Government services: **45+** government services available at Huduma Centres.
- ☑ Revenue: **KES 12 billion** collected

Awards

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Huduma card case

Multi-functional social card

Identification: biometrics - photo and fingerprints
Payment function: MasterCard and CPA
Integration: 4 major banks + framework to on-board other participants,12 ministries, connection to IPRS database
Mobile devices for pre-enrolment and payments
Security: chip and PIN

Features of Huduma Card

One multi-purpose card

Safety

Acceptance

No bank account required

Value-added services

Why Huduma Card

☑ Cost saving

☑ Enhanced transparency

☑ Financial inclusion

☑ Centralized government database

☑ One-stop shop platform

X Infotech

☑ **Knowledge & expertise** gained from real projects installations

☑ **Full set of products** to support programmes from A to Z

☑ **Mobile components** to facilitate the speed of adoption

☑ **Financial inclusion** option

Electronic identity documents

Social multi-application cards

Electronic driver's licenses

Financial cards, Payment app + ID

Border control management

Biometric verification

Thank You!

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Vadims Teresko
Business Development Director