BUILDING A WORLD CLASS ADMINISTRATION IN MAURITANIA

eID forum case study
Dar es Salaam – June 2015
AGENDA

- Introduction
- The current system
- The benefits
- The future
- Conclusion
AGENDA

Introduction

The current system

The benefits

The future

Conclusion
INTRODUCTION – MAURITANIA

- A LARGE COUNTRY WITH A STRATEGIC POSITION IN NORTH AFRICA – 1,030,631 KM²

- POPULATION IS AROUND 3.4 M PEOPLE
  - 800,000 people in Nouakchott
  - Bilingualism: Arabic & French

- HIGH HOMELAND SECURITY FOCUS
1. MANUAL PROCESSES
   Introduces flaws and human errors in the process

2. SECURITY ISSUES
   • Identity documents easy to forge
   • Limited controls based on visual inspection
   • Limited control over population movement in and out of the border

3. SLOW ADMINISTRATION
   Long and fastidious processes for the citizens
INTRODUCTION – ... DRIVING GOALS

1. MODERNIZE THE ADMINISTRATION
   Computerization of the population registration
   Build up a reliable population registry (citizens and residents)

2. ENFORCE SECURITY
   • Increase security and reliability at all steps: enrolment, data processing, identity documents, identity control
   • Implement connections between population registry, Criminal AFIS and border control
   • Introduce state-of-the-art tools and services

3. PROVIDE NEW GENERATION SERVICES
   • Protect citizen’s rights
   • Set up Smart cards (ID card, Resident card, Vehicle Registration card)
   • Set up a Biometric passport
   • Introduce new services
Introducing the current system, outlining its benefits, discussing the future, and concluding with key points.
AGENDA

Introduction

The current system

The benefits

The future

Conclusion
THE CURRENT SYSTEM – FULLY INTEGRATED

- Population
- Visa: Enrolment at consulates or at border
- Police

- Civil AFIS (fingerprints, facial recognition)
- Criminal AFIS (with print and latent processing)
- Border Control

- Civil Registry and Electoral Registry
- Document personalization and issuance
- Multi-application smart card and biometric passport
- Public Key Infrastructures
- Border Control: Visa issuance and Visitor Registry
**THE CURRENT SYSTEM – FAST AND ACCURATE**

**MULTIBIO PROCESSING**
- 10 fingerprints
- Portrait
- Signature
- Scanned supporting documents

**15,000 enrolments per day**

**DOCUMENT REQUEST**
- 5,300 ID card requests per day
- 500 passport requests per day

**RED LIST MANAGEMENT**

**POPULATION**
- 4 to 10 M

**NATIONAL IDENTIFICATION NUMBER**

**CENTRAL DATABASE**

Response time < 1 minute
THE CURRENT SYSTEM – POPULATION DATABASE

ID SYSTEM MANAGEMENT

CIVIL REGISTRY
Civil ID management depending on population database (birth, wedding, divorce, death)

DOCUMENT MANAGEMENT
- Biometric E-passports
- Identity Cards, Resident Cards, Vehicle Registration Cards
- Polycarbonate documents
- Multi-application cards (Identity management, Election, Health, Ready for e-Gov applications)

ELECTORAL REGISTRY MANAGEMENT
THE CURRENT SYSTEM – MAURITANIA VISIT

1 Biometric acquisition

* portrait and 2 index acquisition

2 Remote acquisition at consulate level

* biometric visa sticker (minutiae in 2D barcode)
* connection to the central registry for 1:N search

3 Local visitor registries with 1: N AFIS at the border

* enrolment of visitors without biometric visa
* linked to central visitor registry for synchronization

4 Visitor verification at the border

* biometric visa 1:1 verification at the border
* interface with civil registry: 1:N search in visitor registry at citizen enrolment
CRIMINAL AFIS

- Rolled fingerprints
- Palm prints
- Latent fingerprints and latent palm prints
- Live and paper acquisition

FIELD TERMINALS

Handheld terminals: 2-finger acquisition
for fast 1:N wireless search
THE CURRENT SYSTEM – ARCHITECTURE

- **150 Terminals, vérifiés mobiles**
- **200 Terminals, vérifiés fixes**
- **110 Stations d'acquisition fixe**
- **40 Stations mobiles**
- **54 Stations locales**

**Réseau**

**Centre de personnalisation des titres**

**Site central**
- État-civil
- AFIS-FRS
- Gestion des échanges & interfaces
- CMS
- Administration & PKI technique

**Site de secours**
- État-civil
- AFIS-FRS
- Gestion des échanges & interfaces
- CMS
- Administration & PKI technique

**Infrastructure PKI**

**Registre électronique des populations**
THE BENEFITS

RELIABLE POPULATION REGISTRY

IMPROVED DATA SYNCHRONIZATION AT GOVERNMENTAL LEVEL

SECURE ACCESS TO DATA

SEAMLESS INTEGRATION OF SECURITY SYSTEMS

BETTER DETECTION OF FRAUDULENT ATTEMPTS

BETTER PROTECTION OF CITIZEN’S RIGHTS

OPTIMIZED INVESTMENTS
THE BENEFITS – THE SUPPLIER OF THE SYSTEM

UNDERSTAND THE **ENVIRONMENT**
OF THE CUSTOMER

**LISTEN** TO CUSTOMER NEEDS
AND PROVIDING ADEQUATE SOLUTION

PROVIDE HIGH QUALITY
**MAINTENANCE**
THROUGHOUT THE YEARS

**ACCOMPANY** THE CUSTOMER
THROUGHOUT THE EVOLUTION OF
ENVIRONMENT AND REQUIREMENTS
AND ADAPT THE SYSTEM CONSEQUENTLY
AGENDA

- Introduction
- The current system
- The benefits
- The future
- Conclusion
AGENDA

- Introduction
- The current system
- The benefits
- The future
- Conclusion
THE FUTURE – NEXT STEPS

- E-GOV APPLICATIONS
- 1:1 AUTHENTICATION SERVICES
- DEPLOYMENT OF ADDITIONAL BORDER ENTRY POINTS
- MULTI-PURPOSE TERMINALS
AGENDA

- Introduction
- The current system
- The benefits
- The future
- Conclusion
AGENDA

- Introduction
- The current system
- The benefits
- The future
- **Conclusion**
CONCLUSION – THE SUPPLIER, MORPHO

Workforce

More than 8,600 employees in 55 countries

Research

More than 30% of the company’s workforce 8% revenue invested

A global presence

71 subsidiaries, branches and representative offices in the world
CONCLUSION – MARKETS OVERVIEW

Smart cards
Secure elements
Strong authentication
Digital signature
Legally binding archiving

Citizen registration
ID management & document issuance
eServices

- Protection of sensitive sites
- Physical and logical access control
- Explosives detection

- Criminal Identification
- Law Enforcement
- Road safety

- Hold Baggage Screening
- Checkpoint Security
- Air Cargo
- Border Management
CONCLUSION – MORPHO LATEST BIOMETRIC INNOVATIONS

Finger On the Fly®

Four fingerprints
capture in less than 1 second

Morpho IAD™

Simultaneous capture of two irises and face in less than 1 second

Morpho Tablet™

Secure biometric tablet for secure services
CONCLUSION – MORPHO WORLDWIDE LOCATIONS
CONCLUSION – MORPHO MAIN PROGRAMS IN AFRICA

- Botswana
- Morocco
- Tunisia
- Mauritania
- Mali
- Côte d’Ivoire
- Ghana
- Nigeria
- Namibia
- Botswana
- South Africa
- Egypt
- Tunisia
- Morocco
THANK YOU!
DANKE!
DHANYA-WAADH! (धन्यवाद)
EFXARISTO! (Ευχαριστώ)
¡GRACIAS!
OBRIGADO!
SHUKRAN! (شكرا)
XIÈXIÈ (謝謝)

MERCI
ASANTE SANA.

Contact: ibrahima.kamara@morpho.com