European Commission
United Nations Development Programme
International IDEA

In collaboration with

International Organization for Migration
Canadian International Development Agency
Organization of American States

Joint Training on Effective Electoral Assistance

VOTER REGISTRATION METHODOLOGIES

Accra, 2 July 2009

Presentation

Introduction

Low tech approaches

Mid tech approaches

High tech approaches

Points to ponder

Moving forward

❑ **Three conceptual systems:**

   ❑ **Standalone '' ad hoc''/periodic voter registration**

   ❑ **Standalone continuous/permanent voter registration**

   ❑ **Voter register based on the civil register**

❑ **Three levels of technological approaches:**

   ❑ **Low tech: Manual, paper based**

   ❑ **Mid tech: OCR/OMR/ICR based**

   ❑ **High tech: Digital registration kits/specialised devices**

❑ **How to perform duplicate search which is mandated by several electoral laws?**

❑ **Enabling conditions including civil identification of citizens**

□ It generally entails the manual transcription of

- ❑ **Replacement solution for Polaroid?**
- ❑ **Photographic equipment problem versus review of the total solution.**

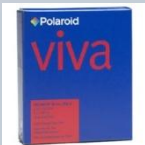**Optical Mark Recognition (OMR) First used in large scale Electoral Assistance Mission Bosnia and Herzegovina 1997**

Pencil

Polaroid film

Polaroid Instant camera

Laminating Pouches

OMR

Official

Photograph

Photo die cutter

Voter's card

Fingerprint

Photo-fix

Registration Forms

Fingerprint pad

Completed OMR Forms

Transport to data centre

Batch Header Form (one per day)

Envelopes

Organized within

TRAIN 4 DEV

In collaboration with:

CIDA   IOM   OAS

Registration forms

Scan Module

Security Module

Tiff images

HTML Pages

OMR Module

Exception Handling Module

Register Publishing Module

ORACLE

File Store

Reporting Module

Search Module & Quality Check

System Production Management Module

System Administration Module
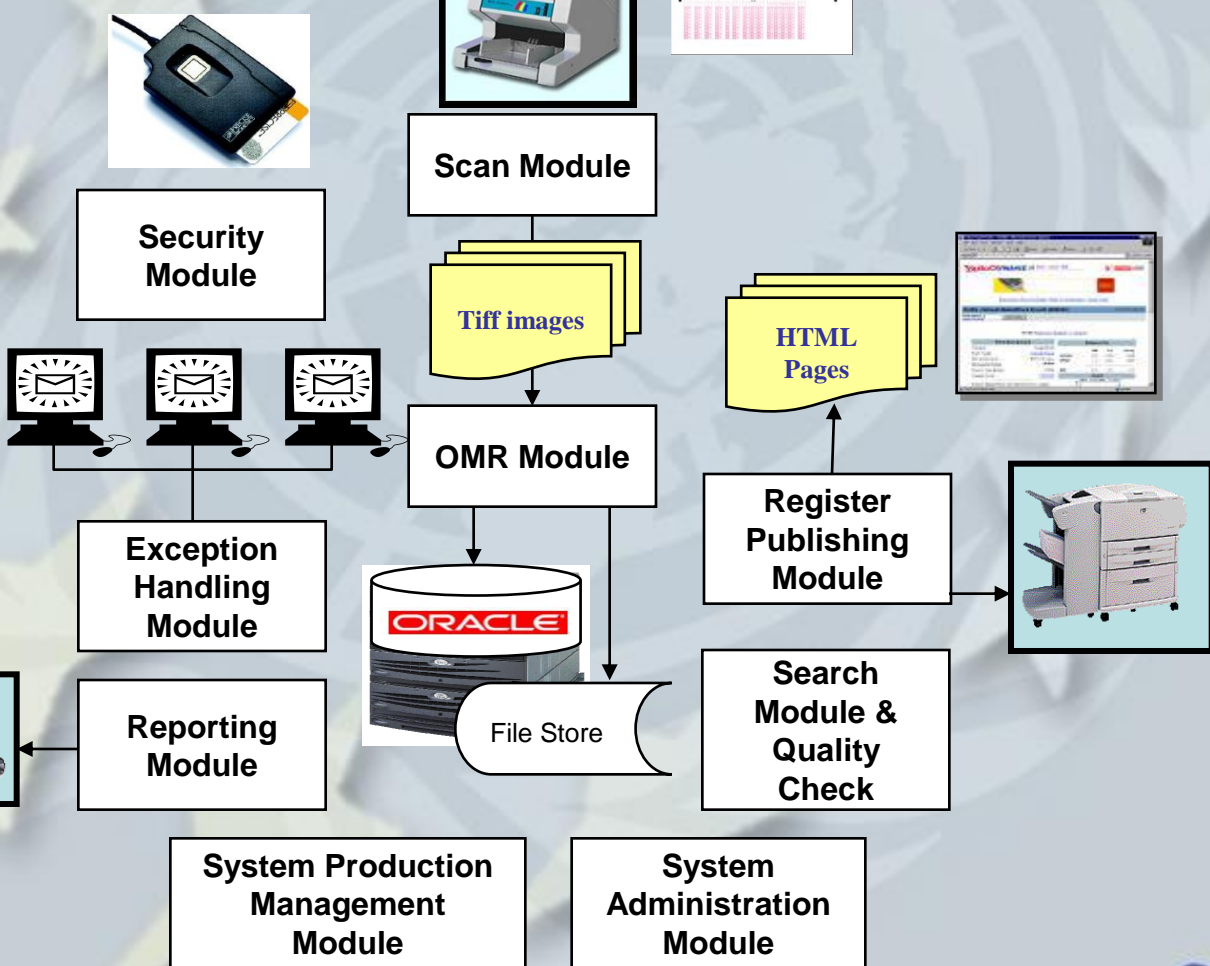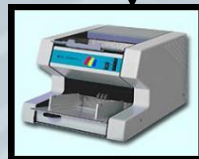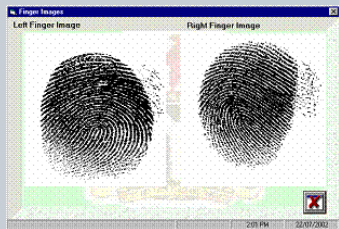
The Major System for PNVR Preparation that comprised by Different modules

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- ❑ **Digital photographs**
- ❑ **Fingerprint scanning**
- ❑ **Facial recognition**
- ❑ **Fingerprint matching**

DELL

Digital Camera
The digital camera is embedded onto the unit's Official Panel and may be used to capture a voter's digital photograph during registration.

Local Capture of Information
The application contained can capture data manually inserted in the Vanguard. This data can be, voters information, as well as Voting results.

Transmission of Data
The kit is capable of transmitting all data and results from distributed locations to a central site.

Color Touch-screen
A touch-sensitive, full-color LCD screen displays easy-to-use controls for PenCom officials to use to incorporate or edit data

Printer
The attached printer can be used to print a voter registration card

Signature Pad
The signature capture device may be used to capture a user's signature in electronic format during registration or authentication

Fingerprint Reader
The main fingerprint capture device may be used to capture a fingerprint in digital form during registration or authentication.

SEQUOIA

Vanguard 100

in collab
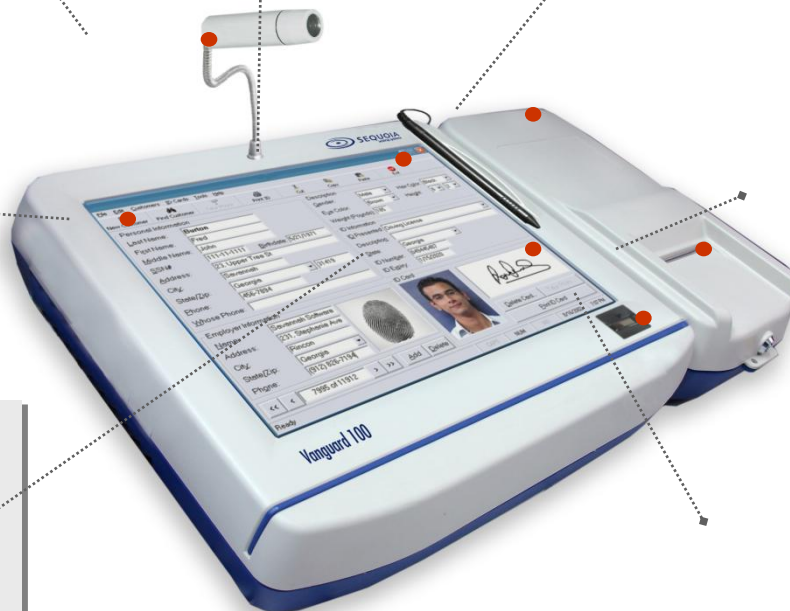
- ❑ **Technological upgrades**
- ❑ **Biometrics: Facial recognition versus fingerprint matching for duplicate search**
- ❑ **What is the added value of duplicate search?**
- ❑ **Standardisation**
- ❑ **Sharing experiences**
- ❑ **Sustainability and relation to voter education**
- ❑ **Domestic observation**

- **ICT Study**
  - **Integration with civil registration**
  - **Tutorials for decision makers**
  - **Cost estimator for practitioners**
  - **Auditing tools for stakeholders of the electoral process**

Organized within

TRAIN DEV.NET

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