Border Management Information Systems (BMIS), including IOM's MIDAS

ICAO Traveler Identification Program

Jamaica Regional Seminar

November 2017

INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM)

Established in 1951.

United Nations Migration Agency

Leading intergovernmental organization in the field of migration.

Not for profit.

IOM Mission: Humane and orderly migration benefits migrants and society.

I. Assist in meeting the growing operational challenges of migration management.

II. Advance understanding and international cooperation on migration issues.

INTERNATIONAL ORGANISATION FOR MIGRATION (IOM)

Member States

90 (2001)

166 (2017)

Offices

150 (2001)

401 (2017)

Staff

2,600 (2001)

10,000 (2015)

Active Projects

830 (2001)

1,800 (2017)

Annual Expenditures

$286.6 million (2001)

$1.6 billion (2017)

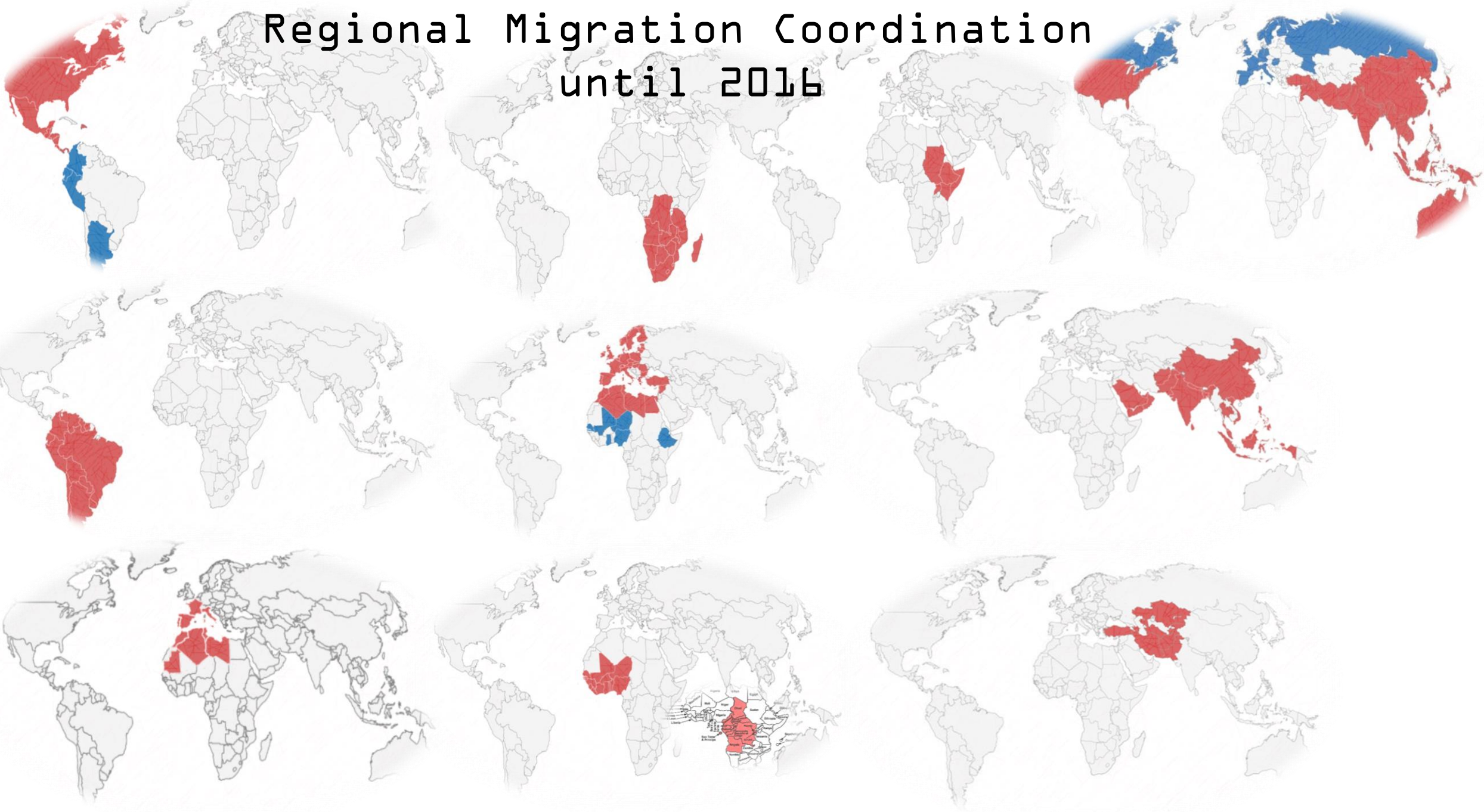
INTERNATIONAL ORGANISATION FOR MIGRATION (IOM)

IOM • OIM

OFFICE OF THE DIRECTOR GENERAL

- Headquarters
  - Department of Migration Management
  - Immigration and Border Management Division
  - The African Capacity Buiding Centre (ACBC)
  - Department of International Cooperation and Partnerships
  - Department of Operations and Emergencies
  - Department of Resources Management
- Regional Offices: 9
- Country Offices with Coordinating Functions: 5
- Special Liaison Offices: 2
- Administartive Centres: 2
- Offices with Resources Mobilization Functions: 4

Regional Migration Coordination until 2016



Gulf of Mexico
The Bahamas
North Atlantic Ocean
Cuba
Turks and Caicos
Haiti
Dominican Republic
Cayman Islands
Jamaica
Belize
Antigua and Barbuda
Saint Kitts and Nevis
Caribbean Sea
San Vincent and The Grenadines
Saint Lucia
Barbados
Aruba
Netherlands
Grenada
Trinidad and Tobago
Guyana
Pacific Ocean

IMMIGRATION AND BORDER MANAGEMENT (IBM) DIVISION

Areas of expertise:

I. Migration and Border Management Assessments
II. Integrated Border Management
III. Identity Management
IV. Intelligence and Risk Analysis
V. Counter Migrant Smuggling
VI. Humanitarian Border Management
VII. Regularization of Irregular Migrants
VIII. Facilitating Migration
IX. Technical Solutions

205
Number or projects
Worldwide

USD 220 million
Donor funding

IMMIGRATION AND BORDER MANAGEMENT (IBM) DIVISION

IOM works with its partners to support countries strike the tenuous balance between human mobility, and helping exercise their sovereign right to know who is in their territory.''

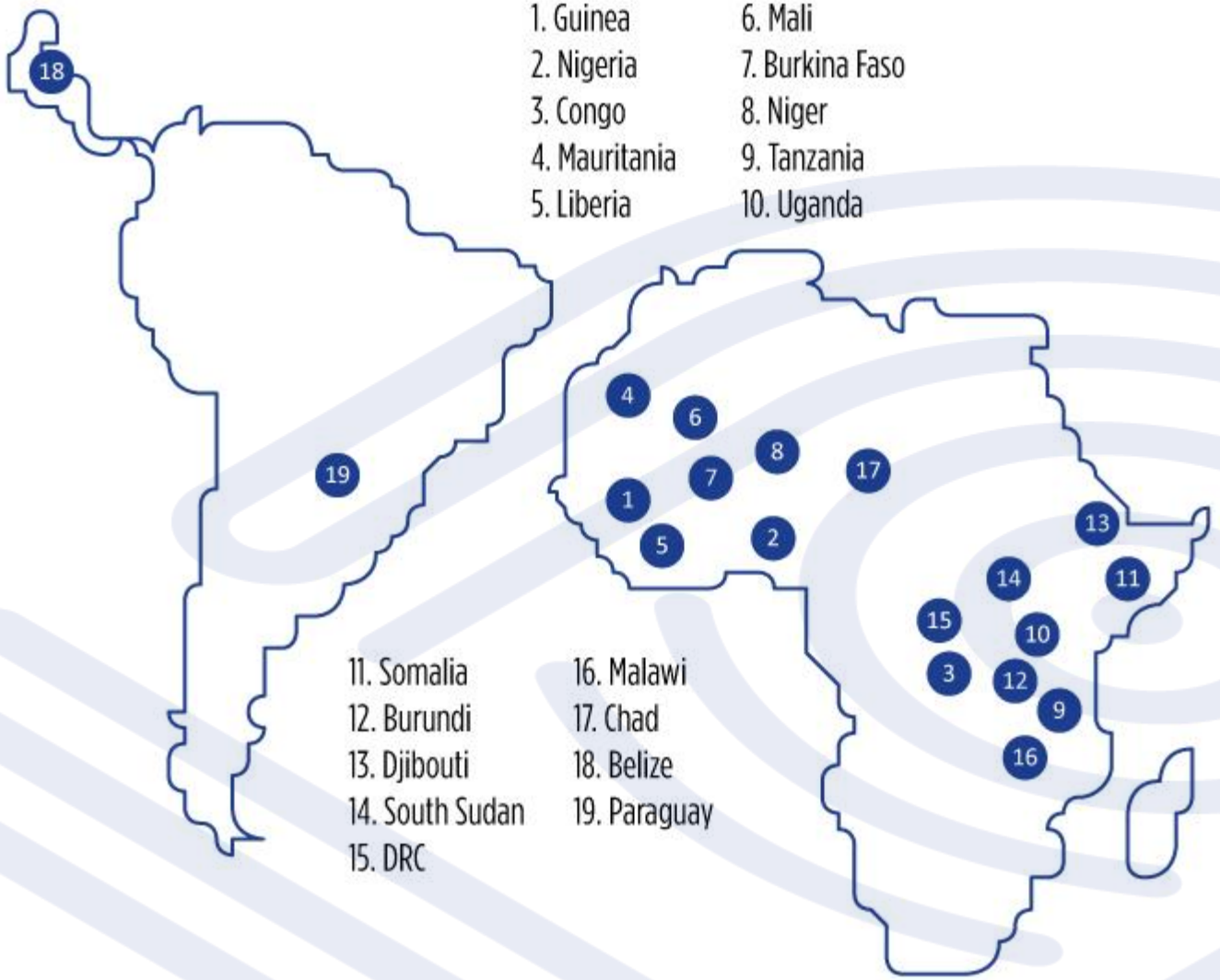
IOM Director General
William Lacy Swing

1. **Driving Forces:**
   a. Millions of border crossings per year.
   b. Links between mobility, migration and economic development.
   c. But also with transnational crime, smuggling, trafficking and terrorism.
2. **Challenges:**
   a. Finding the right balance between facilitating legitimate movement of people and goods and border security.
   b. System Developers

MIGRATION INFORMATION AND DATA ANALYSIS SYSTEM (MIDAS)

IOM in-house developed Border Management Information System:

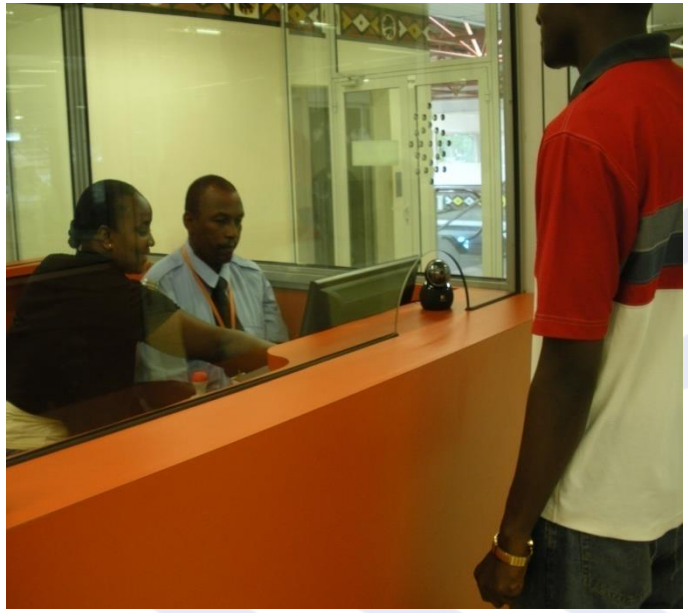
I. Improves border facilitation and control for exit and entry.
II. Collects, processes and stores traveller's information, including biometrics.
III. Affordable system.
IV. Suitable for remote areas.
V. Customizable.
VI. Governments have full and exclusive ownership of MIDAS' recorded traveler data.
VII. Operational in **19 countries** (Africa, South and Central America), 125 border crossing points (land, air or sea).

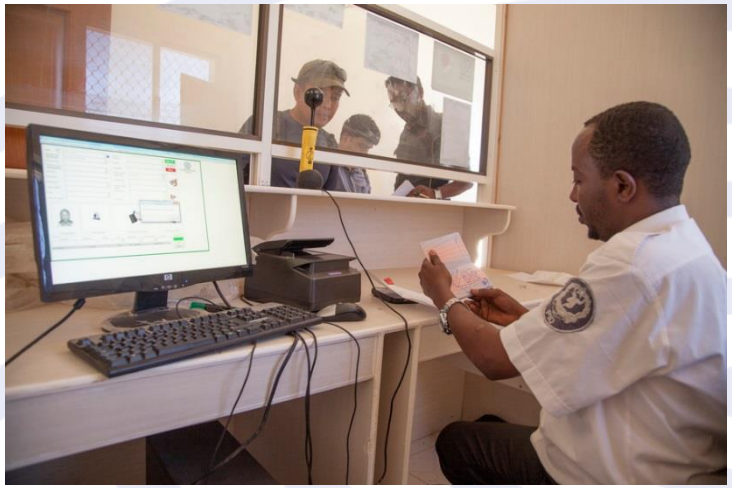


MIGRATION INFORMATION AND DATA ANALYSIS SYSTEM (MIDAS)

A standard MIDAS workstation consists of:

I. Personal Computer.
II. Document Reader.
III. Fingerprint scanner.
IV. Webcam.





MIDAS OPERATIONS AT THE BORDER CROSSING POINT

BEFORE ARRIVAL AT BORDER CROSSING POINT (BCP)

TRAVELER ENTRY / EXIT

MIDAS BCP AIR / LAND / PORT

LOCAL SERVER AT BCP

CENTRAL SERVER AT HQ

AUTOMATED DATA EXCHANGE

Before the traveler arrives at a border crossing point, MIDAS is able to check incoming Advanced Passenger Information (API) data against national and/or international Alert lists

- CHECK AGAINST NATIONAL ALERT LIST
- CHECK AGAINST INTERPOL ALERT LIST

- SCAN TRAVEL DOCUMENT
- RECORD AND/OR CHECK VISA DATA + PRINT VISA STICKER
- CHECK DATA AND AUTHENTICATE TRAVEL DOCUMENT
- RECORD VEHICLE / FLIGHT / VESSEL DATA
- TAKE PHOTO (BIOMETRIC DATA)
- CAPTURE FINGERPRINT (BIOMETRIC DATA)

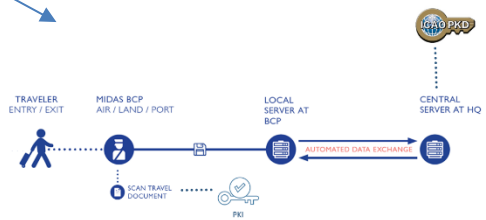
- CHECK AGAINST NATIONAL ALERT LIST
- CHECK AGAINST INTERPOL ALERT LIST

IN CASE OF A MATCH: SECONDARY INSPECTION

- LOCAL DEPOSITORY OF ALL TRAVELER DATA
- CREATE REPORTS BASED ON STATISTICAL DATA
- QUERY AGAINST MIDAS DATABASE

- CENTRAL DEPOSITORY OF ALL TRAVELER DATA
- CREATE REPORTS BASED ON STATISTICAL DATA
- STANDARD AND CUSTOM REPORTING TEMPLATES
- QUERY AGAINST MIDAS DATABASE

- MIDAS FRONT-END PROCESS
- MIDAS BACK-END PROCESS



3 brands of Document Readers are currently compatible with MIDAS:

I. ARH.
II. 3M.
III. Regula.

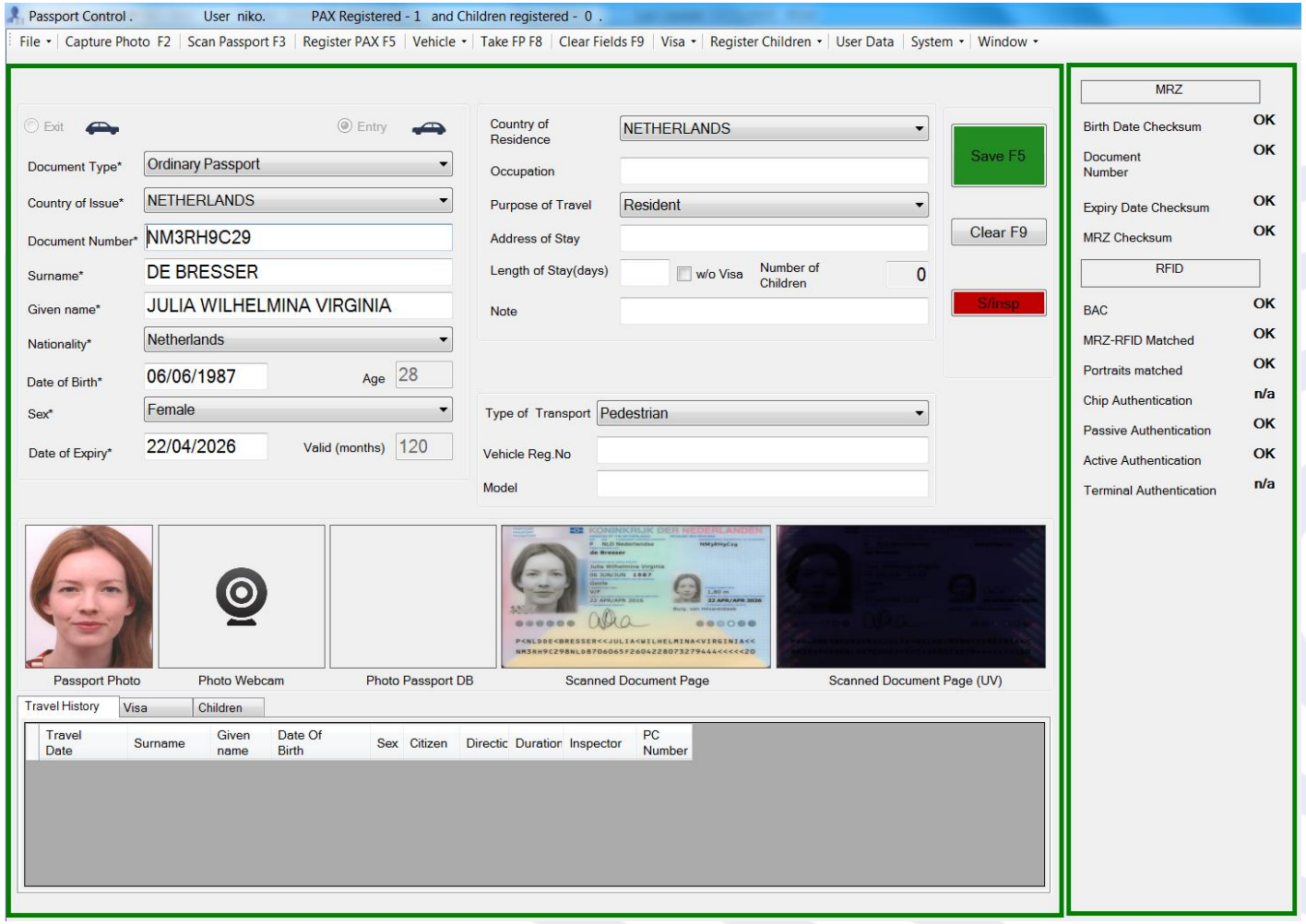
ARH

3M

Regula

MIGRATION INFORMATION AND DATA ANALYSIS SYSTEM (MIDAS)

MIDAS passport control screen.



Examines security features of travel documents by using:

I. White light.
II. Infrared light.
III. Ultra Violet light.

White image | *Infrared image* | *Ultra Violet image*

Multiple types of Fingerprint Scanners are compatible with MIDAS:

I. Futronic.
II. Crossmatch.
III. Digital Persona.

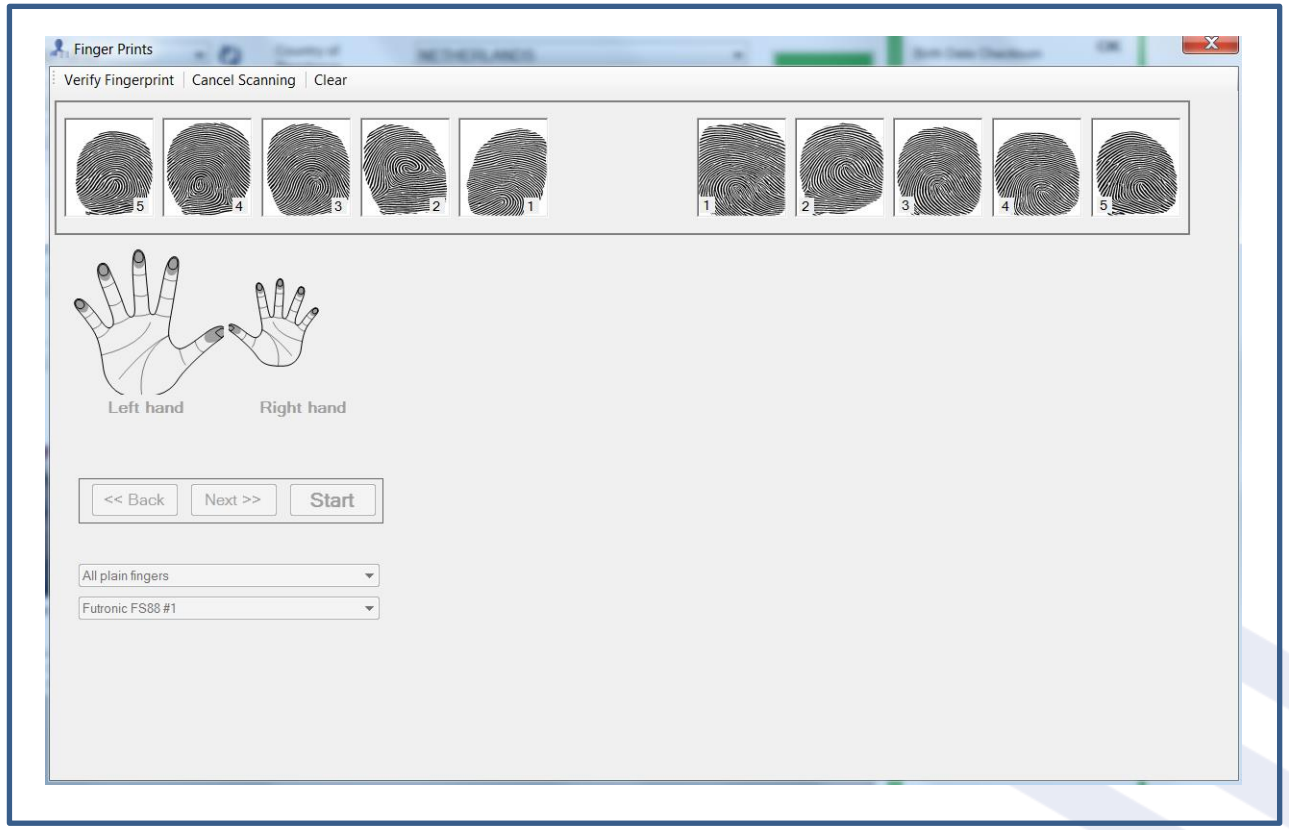
- **Can capture either 1,2 or 10 fingerprints**

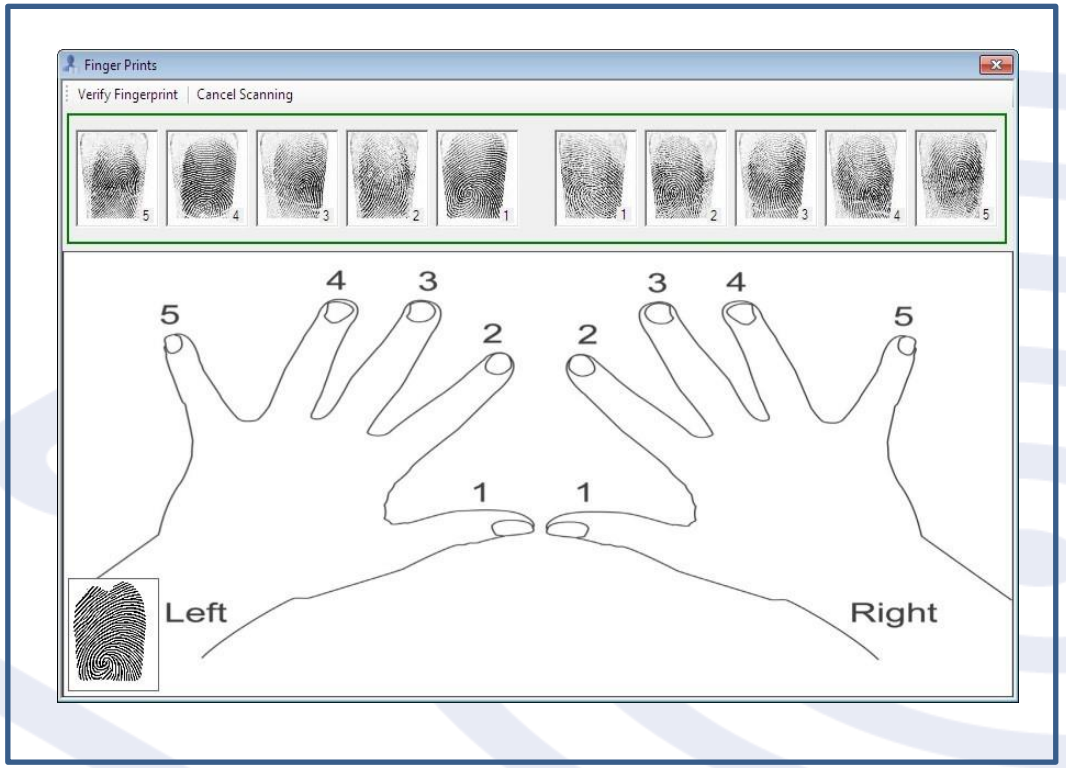
Futronic

Crossmatch

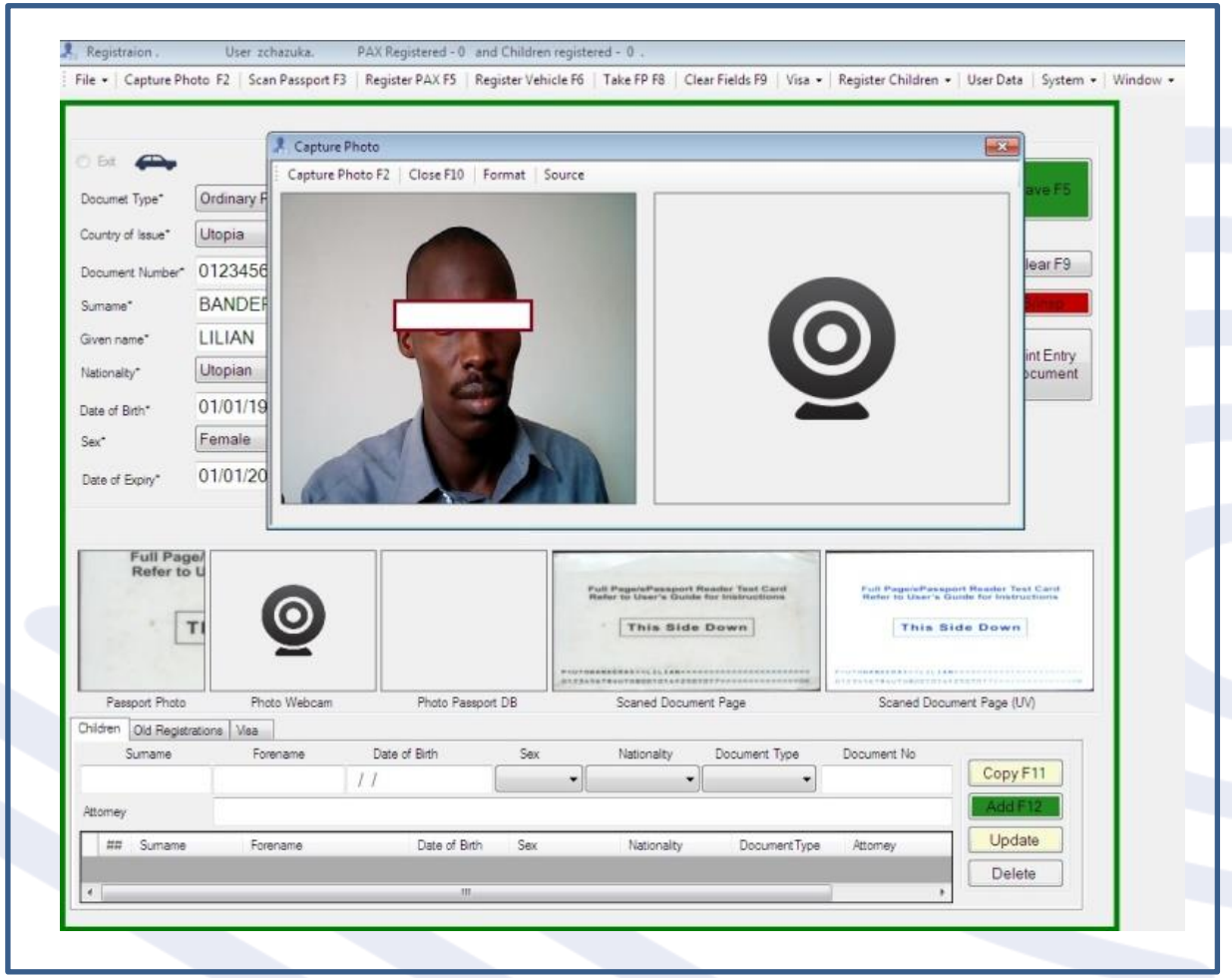
Digital Persona

MIGRATION INFORMATION AND DATA ANALYSIS SYSTEM (MIDAS)



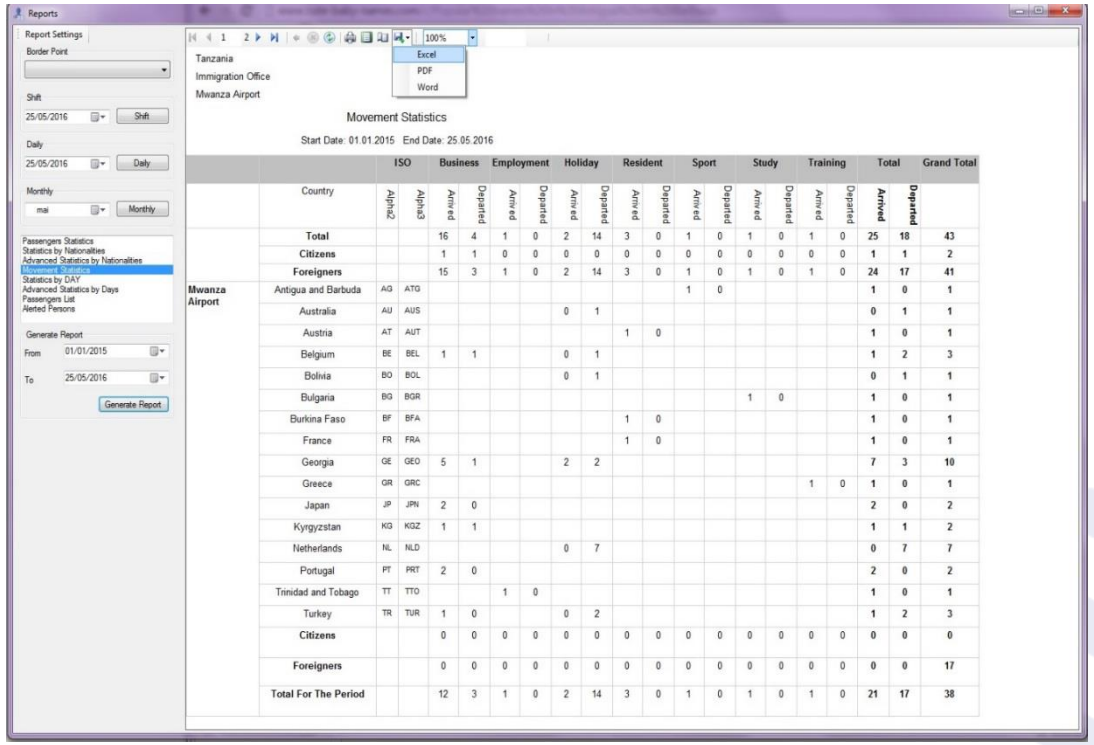


Capture photo with webcam.

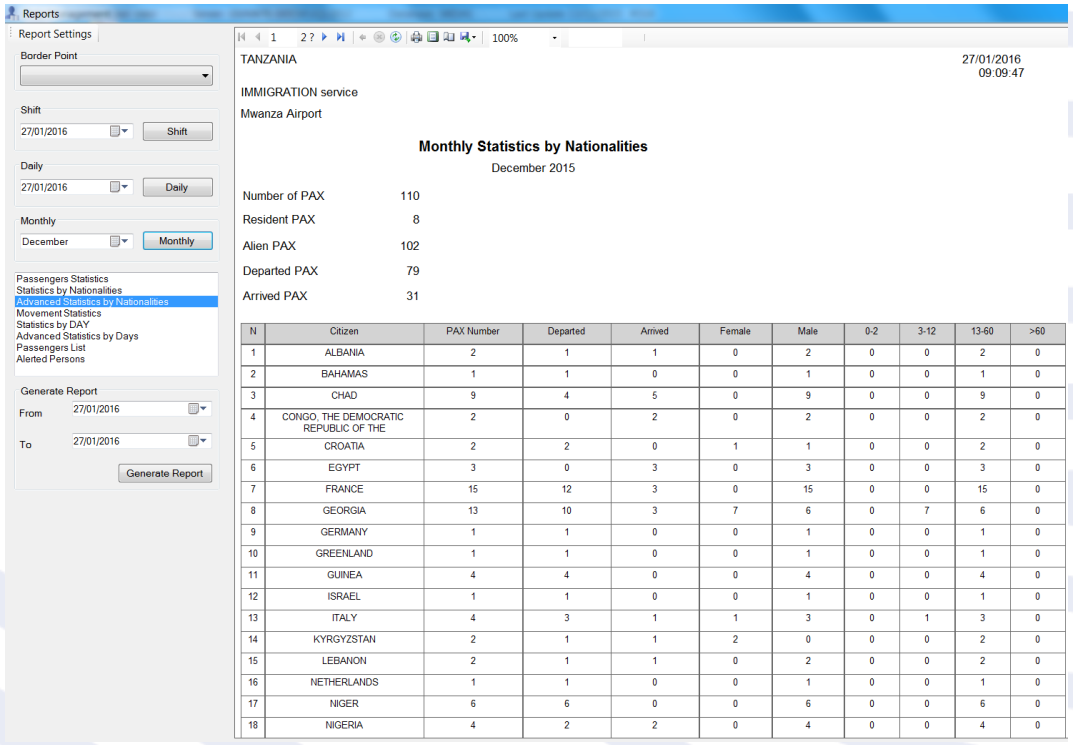


MIGRATION INFORMATION AND DATA ANALYSIS SYSTEM (MIDAS)

Reporting statistical data.



	Country	ISO Alpha2	ISO Alpha3	Business Arrived	Business Departed	Employment Arrived	Employment Departed	Holiday Arrived	Holiday Departed	Resident Arrived	Resident Departed	Sport Arrived	Sport Departed	Study Arrived	Study Departed	Training Arrived	Training Departed	Total Arrived	Total Departed	Grand Total
	Total			16	4	1	0	2	14	3	0	1	0	1	0	1	0	25	18	43
	Citizens			1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
	Foreigners			15	3	1	0	2	14	3	0	1	0	1	0	1	0	24	17	41
Mwanza Airport	Antigua and Barbuda	AG	ATG									1	0					1	0	1
	Australia	AU	AUS					0	1									0	1	1
	Austria	AT	AUT							1	0							1	0	1
	Belgium	BE	BEL	1	1			0	1									1	2	3
	Bolivia	BO	BOL					0	1									0	1	1
	Bulgaria	BG	BGR											1	0			1	0	1
	Burkina Faso	BF	BFA							1	0							1	0	1
	France	FR	FRA							1	0							1	0	1
	Georgia	GE	GEO	5	1			2	2									7	3	10
	Greece	GR	GRC													1	0	1	0	1
	Japan	JP	JPN	2	0													2	0	2
	Kyrgyzstan	KG	KGZ	1	1													1	1	2
	Netherlands	NL	NLD					0	7									0	7	7
	Portugal	PT	PRT	2	0													2	0	2
	Trinidad and Tobago	TT	TTO			1	0											1	0	1
	Turkey	TR	TUR	1	0			0	2									1	2	3
	Citizens			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Foreigners			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
	Total For The Period			12	3	1	0	2	14	3	0	1	0	1	0	1	0	21	17	38



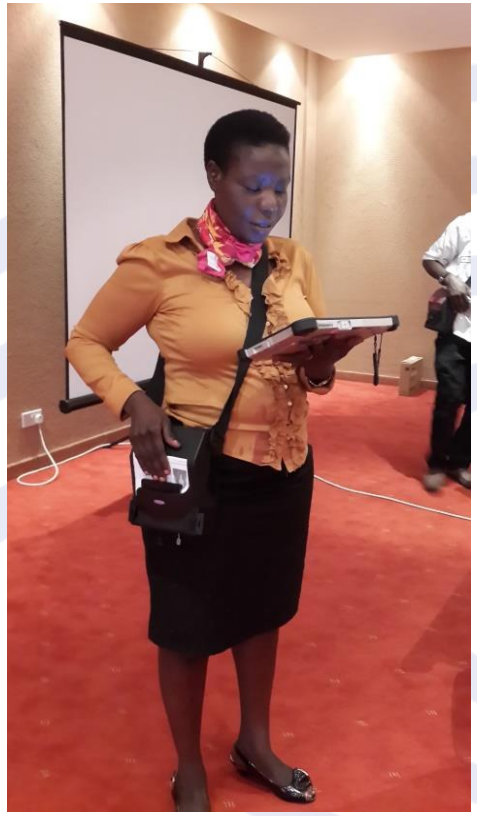
N	Citizen	PAX Number	Departed	Arrived	Female	Male	0-2	3-12	13-60	>60
1	ALBANIA	2	1	1	0	2	0	0	2	0
2	BAHAMAS	1	1	0	0	1	0	0	1	0
3	CHAD	9	4	5	0	9	0	0	9	0
4	CONGO, THE DEMOCRATIC REPUBLIC OF THE	2	0	2	0	2	0	0	2	0
5	CROATIA	2	2	0	1	1	0	0	2	0
6	EGYPT	3	0	3	0	3	0	0	3	0
7	FRANCE	15	12	3	0	15	0	0	15	0
8	GEORGIA	13	10	3	7	6	0	7	6	0
9	GERMANY	1	1	0	0	1	0	0	1	0
10	GREENLAND	1	1	0	0	1	0	0	1	0
11	GUINEA	4	4	0	0	4	0	0	4	0
12	ISRAEL	1	1	0	0	1	0	0	1	0
13	ITALY	4	3	1	1	3	0	1	3	0
14	KYRGYZSTAN	2	1	1	2	0	0	0	2	0
15	LEBANON	2	1	1	0	2	0	0	2	0
16	NETHERLANDS	1	1	0	0	1	0	0	1	0
17	NIGER	6	6	0	0	6	0	0	6	0
18	NIGERIA	4	2	2	0	4	0	0	4	0

Check traveller against National and International Alert Lists.

I. INTERPOL MIND & FIND.

MIGRATION INFORMATION AND DATA ANALYSIS SYSTEM (MIDAS)

MIDAS Mobile Kit.



MIGRATION INFORMATION AND DATA ANALYSIS SYSTEM (MIDAS)

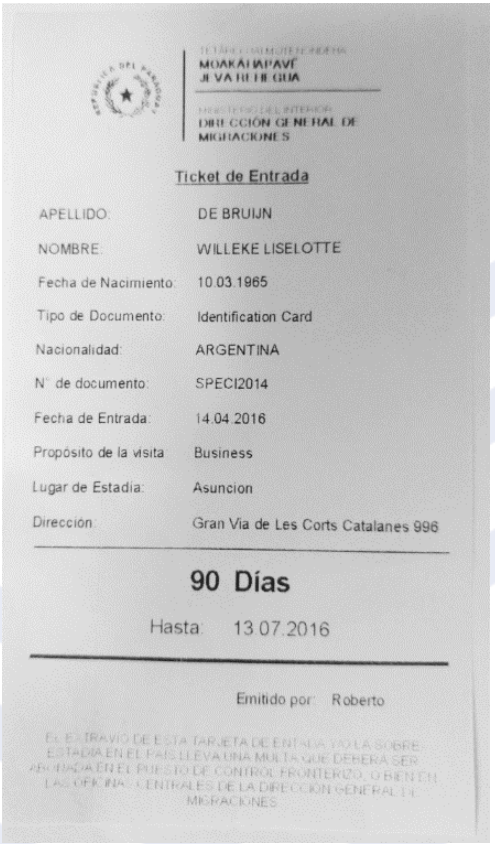
Example of MIDAS installation:
Belize

- Donor paid.
- 5 BCPs installed in 2012.
- Connected to INTERPOL (MIND).
- 80 Immigration Officers Trained
- September 2017: 10.5 million travelers inspected and processed by MIDAS since its implementation.
- Government requested and received:
    a. Temporary travel card.
    b. Interface for residence permit and visa extensions.
    c. Generating list of over-stayers.
    d. Verification against the national ID Card database

MIGRATION INFORMATION AND DATA ANALYSIS SYSTEM (MIDAS)

Example of MIDAS installation: Paraguay

- Access to source code granted
- 2 BCPs installed in 2016.
- Connected to INTERPOL (MIND).
- Government requested:
    a. Entry ticket.
    b. Penalty ticket.



MOAKÃHAPAVÉ
JEVA REHEGUA

MINISTERIO DEL INTERIOR
DIRECCIÓN GENERAL DE MIGRACIONES

Ticket de Entrada

APELLIDO:	DE BRUIJN
NOMBRE:	WILLEKE LISELOTTE
Fecha de Nacimiento:	10.03.1965
Tipo de Documento:	Identification Card
Nacionalidad:	ARGENTINA
N° de documento:	SPECI2014
Fecha de Entrada:	14.04.2016
Propósito de la visita:	Business
Lugar de Estadía:	Asuncion
Dirección:	Gran Via de Les Corts Catalanes 996

90 Días

Hasta: 13.07.2016

Emitido por: Roberto

MOAKÃHAPAVÉ
JEVA REHEGUA

MINISTERIO DEL INTERIOR
DIRECCIÓN GENERAL DE MIGRACIONES

Billete de Castigo

APELLIDO:	DE BRUIJN
NOMBRE:	WILLEKE LISELOTTE
Fecha de Nacimiento:	10.03.1965
Tipo de Documento:	Identification Card
Nacionalidad:	ARGENTINA
N° de documento:	SPECI2014
Fecha de Entrada:	01.01.2016
Fecha de Salida:	14.04.2016

Castigo para: Sobre-Estadía

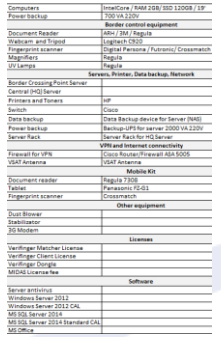
Cantidad de Pago: 80 CHF

Emitido por: Roberto

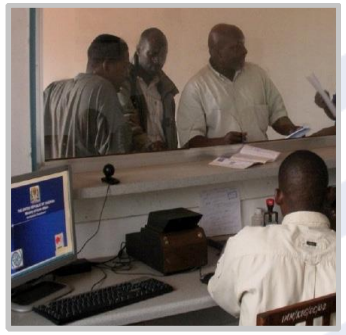
MIGRATION INFORMATION AND DATA ANALYSIS SYSTEM (MIDAS)

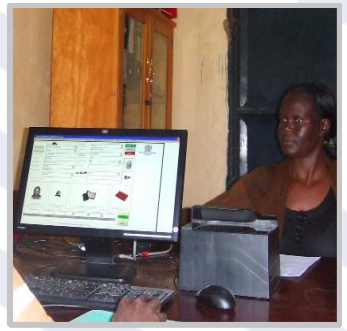
Steps to operationalize MIDAS :

I. Assessment.
II. Prepare Hardware and Software List.
III. Procurement and Shipping.
IV. Installation and set-up.
V. Training.
VI. Roll-out
VII. Evaluation.
VIII. Post-project support



Computers	IntelCore / RAM 2GB/ SSD 120GB / 19'
Power backup	700 VA 220V
Border control equipment	
Document Reader	ARH / 3M / Regula
Webcam and Tripod	Logitech C920
Fingerprint scanner	Digital Persona / Futronic/ Crossmatch
Magnifiers	Regula
UV Lamps	Regula
Servers, Printer, Data backup, Network	
Border Crossing Point Server	
Central (HQ) Server	
Printers and Toners	HP
Switch	Cisco
Data backup	Data Backup device for Server (NAS)
Power backup	Backup-UPS for server 2000 VA 220V
Server Rack	Server Rack for HQ Server
VPN and Internet connectivity	
Firewall for VPN	Cisco Router/Firewall ASA 5005
VSAT Antenna	VSAT Antenna
Mobile Kit	
Document reader	Regula 7306
Tablet	Panasonic FZ-G1
Fingerprint scanner	Crossmatch
Other equipment	
Dust Blower	
Stabilizator	
3G Modem	
Licenses	
Verifinger Matcher License	
Verifinger Client License	
Verifinger Dongle	
MIDAS License fee	
Software	
Server antivirus	
Windows Server 2012	
Windows Server 2012 CAL	
MS SQL Server 2014	
MS SQL Server 2014 Standard CAL	
MS Office	





Thank you for your attention

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