

MRTDs, Biometrics & Security Standards (2011)
Montreal, ICAO

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Global Identity Verification & Migration Mobility Control






Global security challenges. The case study of the CIS Region



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EDAPS
CONSORTIUM

Outline

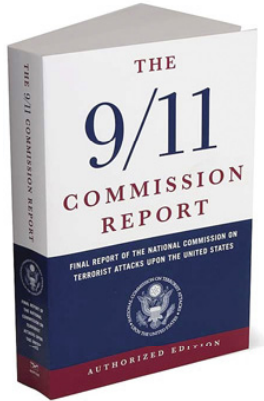
-  **Global Security Challenges**
-  **EDAPS global programs**
-  **International Migration: Trends, Management & Statistics**
-  **Study of the migration process in the CIS region**
-  **Globally Verifiable Identity Card for migrant applications –
concept of the solution.**

11/09/11 – the World will never be the same...



- After almost 10 years since tragedy the security landscape has changed dramatically **and the aviation sector faced the most apparent changes.**
- Since 9/11/01 aviation security has been at the forefront of **anti-terror measures** (by IATA Report 2011)
 - Passengers flows (2010): international +8,3%, domestic +6,1% (+1 bln passengers/year comparing to 2001, +270% up to 2020),
 - Aviation park: up to 20K planes in 2020
 - **7,4 bln USD will be invested annually in security by airlines** (+25% from previous estimate)
- **Not without reason:**
 - 4 terrorist attacks on transatlantic flights have been prevented
 - The aviation sector knew only one major attack - in Moscow airport.

The 9/11 Commission Report



- **«For the terrorists, travel documents are as important as weapons»** (p. 384)
 - Alternation of Passports, Visas, ID cards for the hijackers (p.169)
 - Recycling of passports from dead jihadists (p.169)
 - Use of altered and counterfeit Passports by Al Qaeda (p.402)
 - Genuine Canadian Passports obtained using fake identities (p.196)
- **“Linking biometric passports to good data systems and decision making is a fundamental goal”** (p.407)

Global Security Challenges



■ ICAO Declaration on Aviation security called for

- “promote **enhanced travel document security** and the **validation thereof** using the **ICAO PKD** in conjunction with **INTERPOL Lost and Stolen Travel Documents Database**” as **key global instruments in preventing and combating identity fraud**.

■ UN Security Council Resolution 1373 (2001):

- «prevent the movement of terrorists or terrorist groups by **effective border controls** and **controls on issuance of identity papers and travel documents**, and through measures for preventing counterfeiting, forgery or fraudulent use of identity papers and travel documents».

Control on issuance of identity papers and travel documents



■ MRTD Programme harmonized specifications for manufacturing and personalizing of travel documents and ensured their global interoperability.

■ Transborder crime and terrorism focus has consequently shifted to the pre-issuing and post-issuing phases in the travel document security chain (source : ICAO Report, Vol.6, №2).

■ Gaps in the internal integrity of issuance processes could be:

- documents and administrative mechanisms, establishing evidence of identity (“breeder documents”), civil registries...
- The most secure travel document can be issued using
- Counterfeited and forged local or national documents: certificate of birth, national ID, migration documents, ...



Global migration and biometric identification challenges

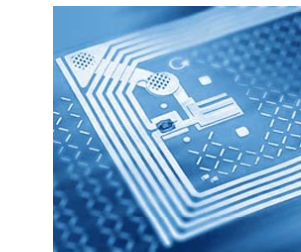
International Herald Tribune
THE GLOBAL EDITION OF THE NEW YORK TIMES

Opinion Editorial article by **RONALD K. NOBLE, Secretary General of INTERPOL**, September 5-6, 2011:

- «But **preventing dangerous individuals from crossing borders at airports** is only half the challenge.»
- " At a time when global migration is reaching record levels — there were an estimated 214 million migrants in 2010 — I see **a need for migrants to be provided biometric e-identity documents that can be quickly verified** against Interpol's databases by any country, anytime and anywhere."
- «**Verification prior to the issuance of a work or residence permit** would facilitate the efficient movement of migrants while enhancing the security of countries».

EDAPS' response to new global challenges

as one of the security printing industry leaders, EDAPS Consortium takes part in the following programs:



- High security national e-passports & e-ID cards (Ukraine, CIS countries).
- The INTERPOL Travel Document Initiative.
- Integrated Population Registration System (IPRS) of Kenya
- Highly protected certificate of birth in CIS countries using state-of-the-art demetalized holograms.
- Comprehensive governmental systems for data enrolment, population database management, document issuance, efficient identification and verification processes using the most advanced biometric technologies.
- Globally Verifiable Identity solution for migration services .
- Tag identification (HSE+RFID) and track & trace solutions for Cargo applications.

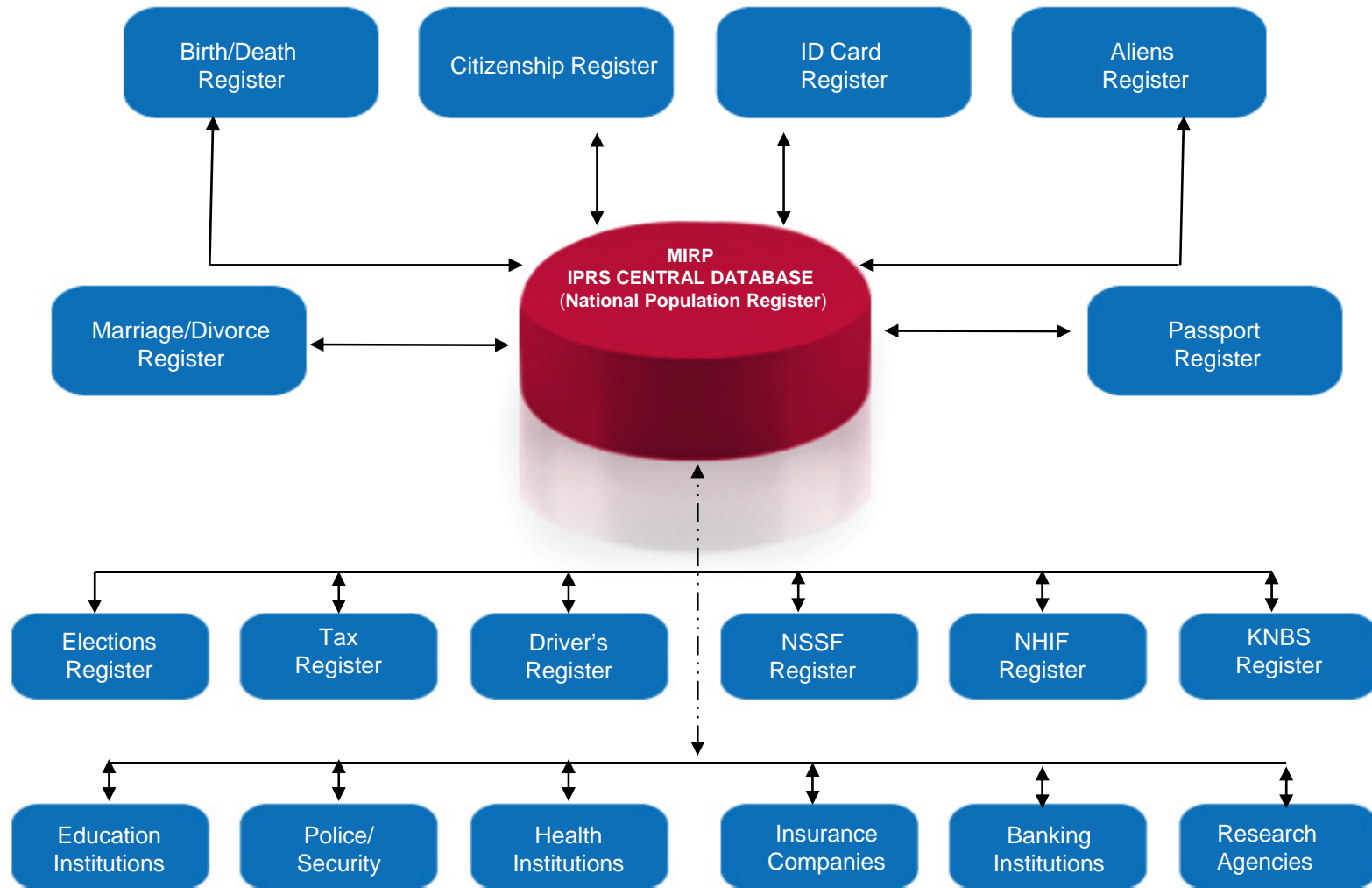
The INTERPOL Travel Document Initiative



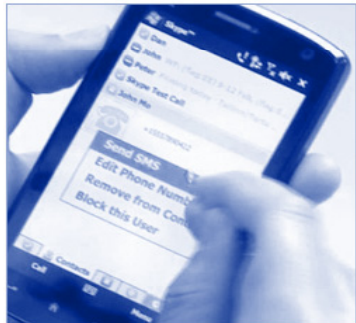
EDAPS delivers state-of-the-art ID & security solutions

- High security e-passport & eID card.
- PerfectID - comprehensive governmental systems for data enrolment, database management, document issuance, efficient identification and verification processes using the most advanced biometric & electronic technologies.

Integrated Population Registration System (IPRS) of Kenya



Integrated Population Registration System (IPRS) - KENYA



an efficient and secure online solution of population register

- Registration of all births and deaths occurring in Kenya
- Registration of births and deaths of Kenyans occurring abroad
- Efficient and expeditious issuance of birth and death certificates.
- Verification of Birth and Death records and certificates
- Re-registration upon legitimization, recognition, adoption
- Production of vital statistics, demographic and associate reports
- Storage and preservation of births and deaths records

Global Migration Mobility

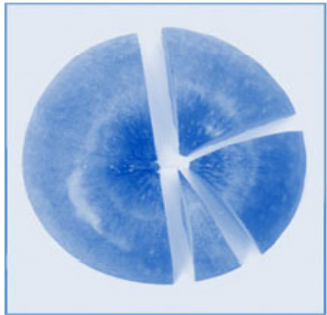
International & local aspects

Global Migration: Facts and Opportunities



Global Number of Migrants (2010):

- 215 million people
- 3% of global population



Remittances (2010):

- 440 bln USD or 0,7% of global GDP
- 325 bln USD destined to developing countries (0,6% of GDP) and becoming the dominant factor of economic development

Source: World Bank: Migration and Remittances Factbook 2011



"EUROPE BECAME ONE OF THE MAIN DESTINATION POINTS ON THE WORLD MAP FOR INTERNATIONAL MIGRATION"

Source: Institute for Advanced Study, Stockholm

CIS & Global Migration Flow

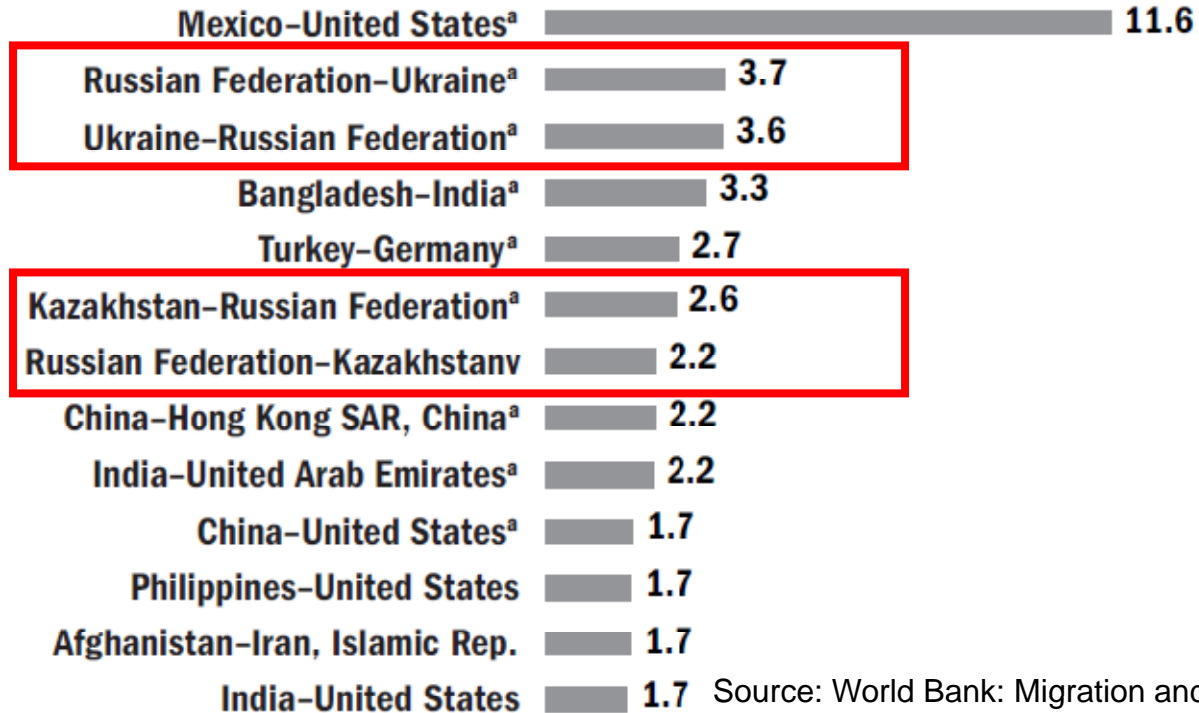


■ 12 mln migrants originate from and stay on in the CIS region

■ 8% of global migration originates from Russia and Ukraine

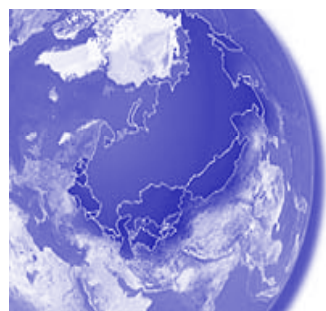
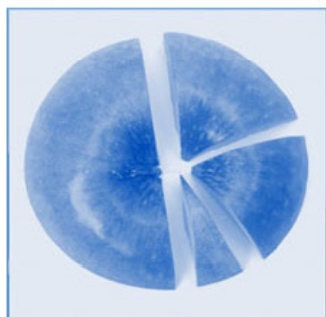
Top Migration Corridors, 2010

number of migrants, millions



Source: World Bank: Migration and Remittances Factbook 2011

CIS: Dependence on Migration of Poor Economies



CIS Member States	Emigrants as Share of Total Population, % (WB, 2010)	Remmitances as Share to GNI, US\$ millions (WB, 2010)
Armenia	28,1%	9,3%
Azerbaijan	16,3%	3,7%
Belarus	18,3%	0,6%
Georgia	24,6%	7,8%
Kazakhstan	23,4%	0,1%
Kyrgyzstan	11,7%	23,6%
Moldova	21,4%	22,7%
Russia	7,8%	0,5%
Tajikistan	11,3%	42,1%
Turkmenistan	5,1%	n/a
Ukraine	14,3%	4,8%
Uzbekistan	7,0%	n/a

CIS economies highly dependent on migration:

- Tajikistan
- Kyrgyzstan
- Moldova

CIS: Migration trends



- Military conflicts in the Caucasus and Middle Asia countries caused considerable flows of refugees: Only in Azerbaijan 844K registered refugees issues out of Nagorniy Karabakh conflicts
- **Visa-free population movement** between the majority of ex-USSR republics
- **Widening gap between demand for labour and the capacity of legal migration channels to supply labour** (e.g., Russia)
- **Ukraine:** more than 5 mln illegal migrants, 12% of population*.
- Some states lean toward introducing **rigid and restrictive migration policies**, variety of migrants/refugees ID documents:
 - Permanent or temporary resident cards, refugees ID card and travel documents (very often not compliant with ICAO MRTD recommendations), different patents and work permits.



Migration Services call for an urgent move towards an **orderly departure and arrival regime** through migrants' **electronic entry and exit control** to

- open up *entry* channels
- reduce *transaction costs* of migration
- offer a '*win-win*' solution for destination and source countries

Project Need



- Building **TRUST** between:
 - authorities of destination and source countries
 - institutions of destination countries (e.g. banks, hospitals)
 - migrants
- in order to better facilitate and protect the flows of migrants across international borders.
- The way to build a **TRUST** is to offer an ID solution **verifying that migrants are those who they claim they are.**

Globally Verifiable Identity Card (GVID-Card)

can be turned into

RELIABLE INSTRUMENT OF IDENTITY VERIFICATION AND CONTROL OVER MIGRATION FLOWS



Globally Verifiable Identity Card (conception)

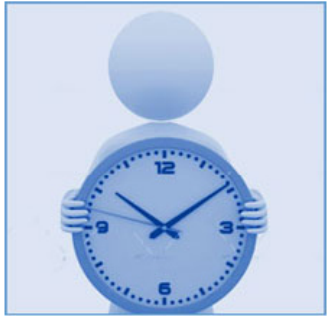
- electronically-enabled globally-verifiable ID
- range of advanced security printing technologies
- plastic card with embedded contactless microchip
- integrated biometric technologies



The GVID-Card can be complemented with:

- medical exam history
- insurance policy details
- police clearance details
- qualification credentials

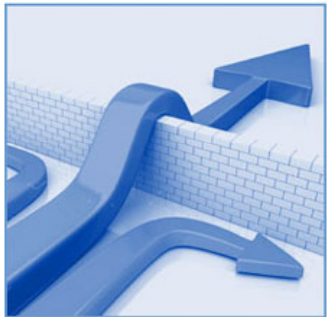
Border & Migration Control System Solution



- Complete automation of border and migration control at all levels
**national, regional, border crossing points
land and sea border control**

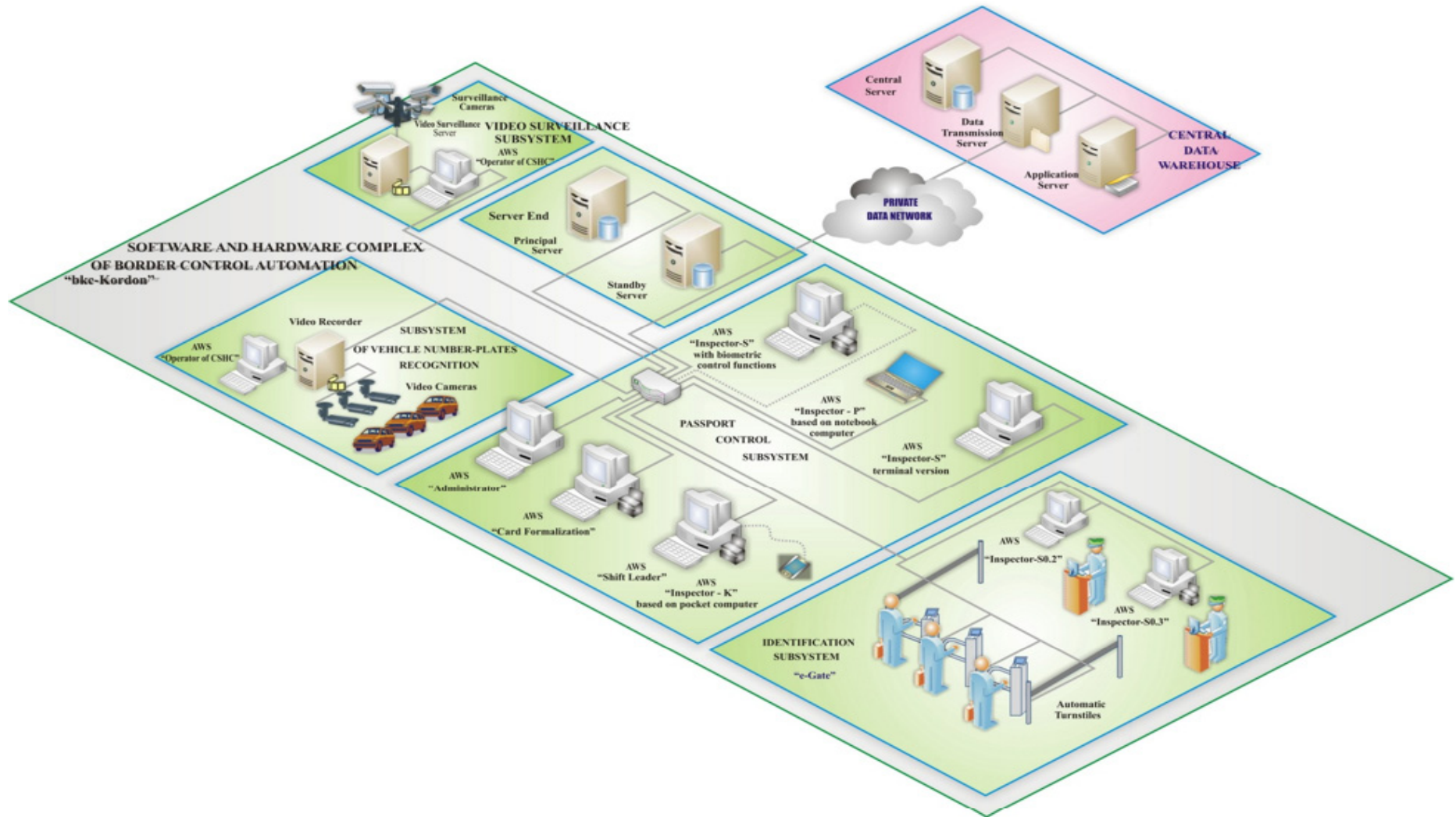


- Secure on-line access and verification through national and international databases
**people, firms, vehicles, arms, goods, ...
criminal and border control screening**



- Powerful analytical tool for risk assessment and forecasting

Border & Migration Control System Solution



GV ID card: project participants



Source country:

- Application Centre (personal data collection and storage)
- Migrants biometric database based in Migration or Registration Services
- Issuance of GVID-Cards



Destination country:

- immigration control
- Verification through national and international databases

International Consortium:

- principal technical contractor
- manufacture and personalization of the GVID-Card
- maintenance of the Project IT infrastructure



GV ID card: global verification & certification providers



■ Need to create **Technological Expert Council**

- to recommend standards & technology (e.g. ICAO / MRTD recommendations)

■ **Verification of migrants' identity** against the international databases (e.g. INTERPOL):

- suspected terrorists and wanted persons
- fingerprints, DNA profiles
- lost or stolen travel documents, etc.

■ **Certification of GV ID issuance:**

- Physical: by special high security state-of-the art hologram, embedded in the card
- Electronic: by international public key infrastructure

Benefits for Global Community



- **terrorist threat:** lower due to more reliable migrant screening

- **global labour force:** mobile

- **identity theft / fraud, and illegal migration:** less prevalent

- **poverty and hunger:** less acute

- **international travel:** more secure

- **foreigners:** more **trust** in foreign jurisdictions

- **'win-win' for:** governments, institutions, and migrants



The text "THANK YOU" is centered in a bold, blue, sans-serif font. It is surrounded by several blue silhouettes of birds in flight, scattered across a light blue, wavy background that resembles a stylized landscape or sky.

THANK YOU

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