

**APSCA**  
Organized by.

Supporting Partners:

 **IOM**  
UN MIGRATION



5<sup>th</sup> BORDER  
MANAGEMENT &  
IDENTITY CONFERENCE

Alternative Approaches to Border  
and Identity Management

---

# FINAL REPORT

---

11-13 DECEMBER 2018  
BANGKOK, THAILAND

# The 5<sup>th</sup> BMIC IN NUMBERS

**396** Participants

**23%** Participants are female



138 participants from 58 governments (35%)

5 participants from APSCA (1%)

26 participants from 13 international organizations (7%)

177 participants from 69 private companies (45%)

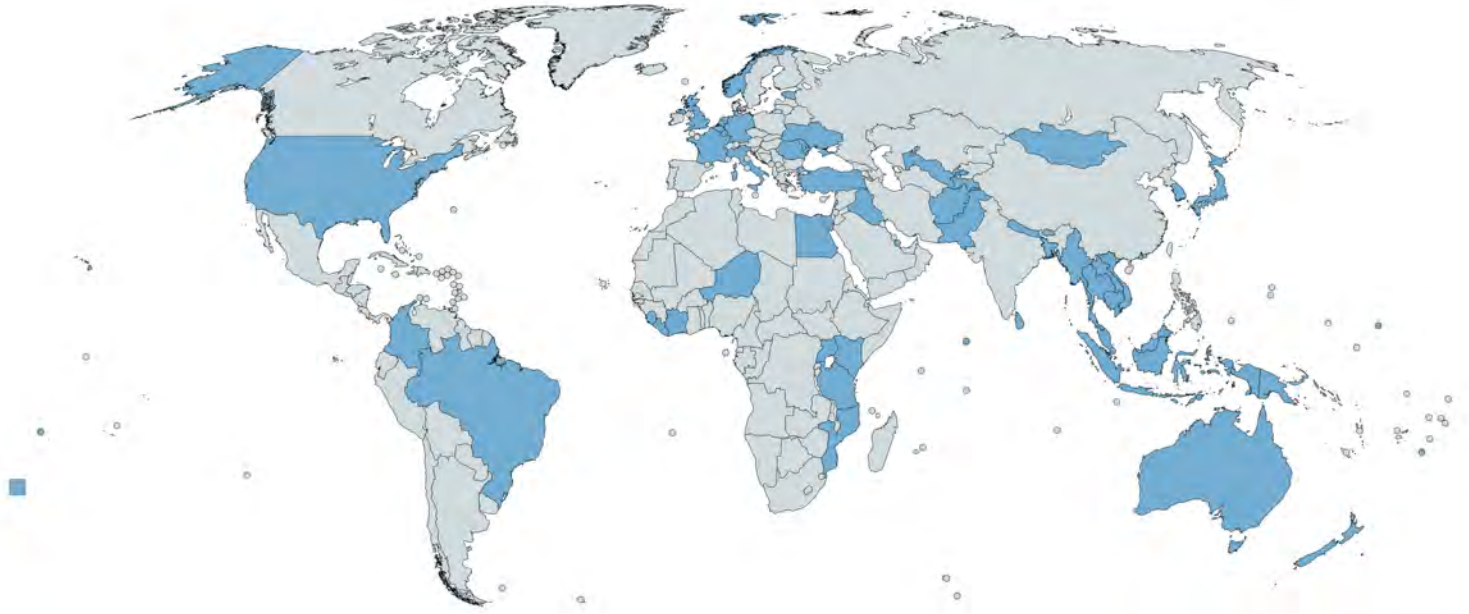
6 participants from 6 academic institutions (1%)

44 participants from IOM (11%)



# A GLOBAL COVERAGE

---



Created with mapchart.net ©

## 58 GOVERNMENTS REPRESENTED

Afghanistan	Laos	Republic of Moldova
Australia	Lebanon	Romania
Bangladesh	Liberia	Rwanda
Belgium	Luxembourg	Sierra Leone
Bhutan	Macau SAR	Singapore
Brazil	Malaysia	Spain
Cambodia	Maldives	Sri Lanka
Colombia	Marshall Islands	Tajikistan
Cook Islands	Mongolia	Tanzania
Cote d'Ivoire	Mozambique	Thailand
Egypt	Myanmar	Timor-Leste
Estonia	Nepal	Tonga
France	Netherlands	Turkey
Germany	New Zealand	Uganda
Hong Kong SAR	Niger	United Kingdom
Indonesia	Norway	United States of America
Iraq	Pakistan	Uzbekistan
Italy	Papua New Guinea	Viet Nam
Japan	Qatar	
Kenya	Republic of Korea	



# GLOBAL VISIBILITY

## TWITTER: #BMIC5

TWEETS

 37

IMPRESSIONS

 33000

MEDIA VIEWS

 2030

TOTAL ENGAGEMENT

 917

## FACEBOOK (IOM GLOBAL ACCOUNT)

POSTS

 3

PEOPLE REACHED

 8385

VIDEO VIEWS

 1014

TOTAL ENGAGEMENT

 227

## LINKEDIN (IOM GLOBAL ACCOUNT)

POSTS

 2

VIEWS

 5470

LIKES

 195

RESHARES

 18

## PRESS NOTE



COUNTRIES REACHED

 65

PAGE VIEWS

 679



# ACKNOWLEDGEMENT

---

The 5th Border Management & Identity Conference (BMIC), co-organized by the International Organization for Migration (IOM) and the Asia Pacific Smart Card Association (APSCA) was held in Bangkok from 11–13 December 2018 and assembled 396 participating delegates from 58 governments all over the world, 13 international organizations, 69 solution developers in the border technology industry, and 6 academic institutions.

On behalf of APSCA and IOM, I would like to first express my utmost gratitude to the Kingdom of Thailand for hosting the 5th BMIC as well as the facilitation provided by the Department of Consular Affairs of the Ministry of Foreign Affairs and the Immigration Bureau. Thailand and the city of Bangkok have been an attractive component of BMIC's branding, and this is reflected again and again in the positive feedback that we receive from the delegates.

To date, we are still receiving encouraging feedback from participants on the relevance of the theme, "Alternative Approaches to Border and Identity Management", which is very much in line with the latest challenges faced by all border management agencies worldwide in an era of unprecedented global mobility. Hence, I extend my special thanks to our sponsors of the 5th BMIC – for believing in the positive outcomes of the Conference, and in its long-term impact.

My very sincere appreciation also goes to all the conference participants whose enthusiasm and dedication made this platform extremely dynamic throughout the Conference. In addition, it goes without saying that the significant contribution of the speakers was essential to the success of the 5th BIMC. The wide range of expertise and talent presented in the room was critical and has immensely contributed to meeting the objectives of the Conference.

I am indebted to the Chairperson of the 5th BMIC, Ms. Dana Graber Ladek, whose remarkable leadership and brilliant performance as the moderator enriched the sessions and ensured the discussions towards the concrete achievements of the Conference. I would also like to extend my earnest appreciation to four chairs for fulfilling their important role as the facilitators for the workshops with professionalism and passion. Your dedication has brought the discussions to a higher level.

I would also like to acknowledge the noteworthy efforts of Mr. Chris Lom, the Senior Regional Media and Communication Officer of IOM Regional Office for Asia and the Pacific, as well as Mr. Itayi Viriri, Ms. Kaye Krizia Viray and Mr. Ray Leyesa from the Online Communication Unit of IOM Manila, for ensuring a remarkable media coverage of the 5th BMIC. Your exceptional contribution has achieved unprecedented global visibility for the Conference.

It must be noted the exceptional support provided by IOM colleagues from all over the world, including project managers, chief of missions, regional thematic specialists, and IBM division in IOM Headquarters in Geneva that ensured the participation of the governments from Eastern, Central and Western Asia, the Pacific, the Oceania, Africa, Europe and Americas.

I would like to thank IOM Thailand for the support provided during the Conference. A special thanks must be given to the Immigration and Border Management (IBM) Unit of the IOM Regional Office for Asia and the Pacific (ROAP) for the tireless work and vigorous commitment in the past two years.

Finally, my sincerest gratitude extends to Dr. Nenette Motus, IOM's Regional Director for Asia and the Pacific for believing in the cause of the 5th BMIC and ensuring the unwavering support in all stages of the Conference starting from its conception.

This report presents a summary of the presentations, discussions and recommendations during the three stimulating days at the 5th BMIC. It is with sincere gratitude that I refer to the commitment of the note takers: Ms. Karissa May Atienza, Ms. Luoyi Zhou, Ms. Natasha Maria Lund Anderson, Mr. Nathan Webb, Mr. Ivyne Amukelani Mabaso, Mr. Vittorio Bruni, and Mr. Jakob Bartels Vodsgaard who captured the essence of each presentation and discussion, coordinated by Ms. Vivian Liang, IOM's project support officer, as well as Mr. Anote Chanopas, Ms. Varaporn Naisanguansri and Mr. Adapol Aupalanon for proofreading and editing of the report.

The report is structured in chronological order and consists of summaries of 52 speeches and presentations. Under each summary, there is a link to the corresponding presentation file for easy reference.

I am confident that this report will help recollect the fruitful discussions, the ideas shared, and recommendations proposed to address the challenges identified during the Conference.

At the end, I cannot conclude this acknowledgement without extending my sincere gratitude to APSCA for the steadfast support as the co-organizer of the Conference and for ensuring the active participation of the solution developers. Our partnership has been extremely rewarding and I look forward to more future collaboration.

I hope to see you again in the near future and most certainly in Bangkok, at the 6th BMIC scheduled in the third quarter of 2020.

Sincerely,



**Donato Colucci**

**Senior Regional Immigration and Border Management Specialist  
IOM Regional Office for Asia and the Pacific, Bangkok, Thailand  
January 2019**



# DAY 1

11 • DECEMBER • 2018

## OPENING CEREMONY

**Mr. Donato Colucci**  
**Senior Regional Immigration and Border Management Specialist**  
**International Organization for Migration**  
**Regional Office for Asia and the Pacific**



Mr. Colucci gave the opening speech addressing how effective border and identity management solution is much needed facing the mix flow of travelers with increasing volume.

---

## WELCOME SPEECH

**Mr. Chatri Archjananun**  
**Director-General**  
**Department of Consular Affairs**  
**Ministry of Foreign Affairs, Thailand**



Mr. Archjananun delivered the welcome speech to acknowledge the importance of border management and encouraged all participants to use this opportunity to establish networks.

---

## WELCOME MESSAGE

**Mr. António Vitorino**  
**Director-General, IOM**

[LINK TO THE SPEECH](#)







[LINK TO THE PRESENTATION](#)

### KEYNOTE SPEECH

**Mr. David Ness**  
**Minister Counsellor (Home Affairs)**  
**Australian Embassy Bangkok**

Mr. Ness delivered the keynote speech highlighting the importance of emerging technology in border and identity management as well as the tripartite partnerships among governments, industry and travelers.



### INTRODUCTORY REMARKS

**Ms. Dana Graber Ladek**  
**Chief of Mission**  
**International Organization for Migration, Thailand**

Ms. Ladek's remarks emphasized the pillars of effective border and identity management: national, regional and international policies, technological and infrastructure improvement, human resources and capability building, and international cooperation.

### **“IDENTITY MANAGEMENT IS NOT AN ISSUE OF ONE COUNTRY BUT A GLOBAL CHALLENGE”**

**- Mr. Muhammad Wais Payab**

---

### **ID FOR DEVELOPMENT IN THE CONTEXT OF AFGHANISTAN**

Mr. Payab described the establishment of a standardized ID process through the development of an electronic ID system containing information of individuals and family units. Electronic ID information is ready to be used and can easily be transferred, which leads to higher integration of relevant agencies and consequently more security. In the context of Afghanistan, this new system is an innovative leap in the efficiency of border management and identification.



**Mr. Muhammad Wais Payab**  
**Deputy Minister**  
**Technical & National Electronic IDs**  
**Afghanistan Central Civil**  
**Registration Authority (ACCRA)**

[LINK TO THE PRESENTATION](#)



**Mr. Ross Lockie**  
**Regional Officer**  
**Aviation Security & Facilitation**  
**ICAO Asia and Pacific Office**

### IMPLEMENTATION OF THE TRAVELLER IDENTIFICATION MANAGEMENT: TRIP STRATEGY AND THE WAY FORWARD

Mr. Lockie gave the perspective of ICAO and its initiatives in handling border management issues. He laid out the current status on ICAO's TRIP strategy and implementation roadmap while providing some common recommendations to countries.

[LINK TO THE PRESENTATION](#)

---

### OFFICIAL OPENING OF EXHIBITION

**Mr. Greg Pote**  
**Chairman**  
**Asia Pacific Smart Card Association (APSCA)**



Mr. Pote officially opened the exhibition of the 5th BMIC, while giving a brief introduction of APSCA and all partners involved in the organization of the conference.





**Ms. Jennifer Bramlette**  
**Legal Officer**  
**Counter-Terrorism Committee**  
**Executive Directorate of the UN**  
**Security Council (UNCTED)**

[LINK TO THE PRESENTATION](#)

### UNSC RESOLUTION 2396 (2017) AND ITS IMPACT ON PNR, WATCHLISTS, AND THE RESPONSIBLE USE AND SHARING OF BIOMETRICS FOR THE PURPOSE OF COUNTERING TERRORISM

Ms. Bramlette explained UNCTED's mandate to stop the movement of Foreign Terrorist Fighters (FTFs). The UNSC resolution 2396 requires member states to identify terrorists and FTFs by collecting data of travelers using Passenger Name Records (PNR), watchlists and biometrics.

She further stressed that biometric technologies should be used to protect the human rights of every human being, including children, and should only seek to prevent terrorists and FTFs from crossing borders and traveling to conflict areas.

---

## "INTERPOL PLAYS A CRITICAL ROLE IN BORDER MANAGEMENT"

- Mr. Hyuk Lee



**Mr. Hyuk Lee**  
**Coordinator**

**Integrated Border Management Task Force**  
**Operational Support & Analysis Directorate**  
**INTERPOL**

---

## INTERPOL'S BORDER MANAGEMENT PROGRAMME

Mr. Lee presented INTERPOL's organizational structure and the data it collects and shares among the member states. In the field of border management, INTERPOL provides I-24/7 to the National Central Bureau (NCB) to access 17 kinds of criminal data. For trusted partners in the private sector, I-CHECKIT is another solution to conduct advanced passenger checks in real-time.

[LINK TO THE PRESENTATION](#)





**Mr. Toshio Naito**  
**Senior Regional Registration Officer**  
**United Nations High Commissioner**  
**for Refugees (UNHCR)**

[LINK TO THE PRESENTATION](#)

### REGISTRATION AND IDENTITY MANAGEMENT IN A MEGA- EMERGENCY: LESSONS FROM ROHINGYA REFUGEE CAMPS IN BANGLADESH

Mr. Naito explained in detail how the registration of Rohingya refugees in the Bangladesh is drastically different from the textbook example of household registration process in humanitarian crisis, due to the rapid and sudden influx. Rohingya refugees showed incredible resilience, building their own shelters, which made the registration process very difficult. The registration process was redesigned to conduct door-to-door visits, tag each shelter and issue ID cards for each family.

---

**"ONGOING COMMUNICATION AND  
COOPERATION ALSO GREATLY  
CONTRIBUTE TO BUILDING TRUST. AND  
TRUST IS A PREREQUISITE FOR  
SUCCESSFUL BORDER MANAGEMENT "**

**- Ms. Renate Held**



**GLOBAL BORDER AND  
IDENTITY MANAGEMENT  
CHALLENGES: PARTNERING  
FOR EFFECTIVE SOLUTIONS**

**Ms. Renate Held**  
**Director**  
**Department of Migration Management**  
**International Organization for Migration (IOM)**

Ms. Held highlighted some of the key areas of partnership on global and regional level, with the industry, private sector, academia and civil society on border management and identification issues. She also stressed the importance of engaging concerned migrants and travelers.

[LINK TO THE PRESENTATION](#)

### FOSTERING REGIONAL COOPERATION IN ASIA PACIFIC REGION: NATIONAL AND REGIONAL PERSPECTIVES



**Mr. Michael Odgers**  
Co-Manager (Australia)  
Regional Support Office of the Bali  
Process (RSO)

[LINK TO THE PRESENTATION](#)

Mr. Odgers gave an introduction to the Bali Process on People Smuggling, Trafficking in Persons and Related Transnational Crime (the Bali Process), outlining how the process was established, its key focus areas and members. Moreover, Mr. Odgers explained the work of the Regional Support Office (RSO) of the Bali process, highlighting how the RSO provides practical support, coordinates between member states, facilitates knowledge sharing, pools common technical resources and supports joint activities.

**THE BALI PROCESS IS  
DRIVEN BY THE MEMBER  
STATES. THE RSO WILL  
CONTINUE TO RESPOND TO  
THEIR NEEDS.**

**- Mr. Michael Odgers**



**Ms. Ana Cristina Jorge**  
Director of Operational Response Division  
Frontex

### THE ROLE OF FRONTEX IN BORDER AND IDENTITY MANAGEMENT

Ms. Jorge introduced the structure and the responsibilities of Frontex, the European border and coast guard agency. Frontex is responsible for tackling all types border-related criminal activities and coordinating operational cooperation among EU countries. As an operational agency driven by intelligence, Frontex aims to promote best border management practices to improve efficiency and effectiveness at the central borders of EU.

[LINK TO THE PRESENTATION](#)



**Mr. Francis Deschrijvere**  
**Local Security Officer**  
**Directorate-General for Human**  
**Resources and Security**  
**European Commission**

### TRAVELLING AROUND THE WORLD WITH THE NEW FORM OF THE EU LAISSEZ PASSER. BE READY

Mr. Deschrijvere gave a presentation about the new EU Laissez-Passer (LP), introduced in 2015. The new LP fully reforms the original LP, reestablishing the document in accordance with the same technical requirements and security requirements that apply to national travel documents. He later focused both on the opportunities and challenges encountered during the implementation of a new travel document, emphasizing the importance of providing reliable support services.

[LINK TO THE PRESENTATION](#)

### RELIABLE SUPPORT SERVICES ARE PARAMOUNT AS WELL AS FAR-REACHING COMMUNICATION CAMPAIGNS TO INCREASE AWARENESS OF THE NEW DOCUMENT

- Mr. Francis Deschrijvere

---

### BORDER MANAGEMENT OF THE FUTURE FOR A SEAMLESS, EFFICIENT AND SECURE END-TO-END PASSENGER JOURNEY

Ms. Kim introduced IATA as the global trade association for airline. It has 290 members across the world which represent 80% of the global air traffic. She focused on the IATA Fast Travel project that ensures end-to-end passenger journey with One ID that not only improves travel experiences but also the efficiency and security of border and identity management.



**Ms. Younkyung Kim**  
**Regional Manager**  
**Airport, Passenger, Cargo & Security, Asia Pacific**  
**International Air Transport Association (IATA)**

[LINK TO THE PRESENTATION](#)





### INNOVATION OF IDENTITY MANAGEMENT AS SOLID FUNDAMENT FOR IMPROVING BORDER MANAGEMENT: A CANADIAN-DUTCH PERSPECTIVE

Ms. Maas presented the Dutch government's identity data management efforts, anchored within the National Office for Identity Data. The presentation centered on one key question, namely how governments can assure that identity information and registration remain reliable in the face of the threat of identity fraud and the challenges that the increasing globalization and global population poses on border management and identity registration. She emphasized the need to utilize modern technology as a response to such challenges. Spearheading these efforts, a couple of new developments were introduced such as virtual identity card (vID) on smartphone and blockchain's self-sovereign ID. Furthermore, the governments of the Netherlands and Canada have entered into a collaboration to pilot a new identity management project "Known Traveler Digital Identity".



**Ms. Rhodia Maas**  
**Director**  
**National Office for Identity Data**  
**Ministry of Interior and Kingdom Relations**  
**Government of the Netherlands**

[LINK TO THE PRESENTATION](#)

### EPASSPORTS, JOBS, INFRASTRUCTURE: BANGLADESH'S ROUTE TO THE FUTURE



**Mr. Atm Mostofa Kamal**  
**Deputy Project Director**  
**Department of Immigration**  
**Government of Bangladesh**



**Ms. Fabiola Bellersheim**  
**Vice President**  
**Head of Sales Asia Pacific**  
**Veridos**

Mr. Kamal and Ms. Bellersheim jointly presented an excellent example of public-private partnership in the field of border and identity management. The government of Bangladesh entered into a partnership with Veridos, a German private company to produce state-of-art e-passports and to introduce a new passport control system, because of growing volume of outbound in Bangladesh, which are currently 6 million a year and expected to grow by 6% next year.

The project also aims to eliminate travel huddles by removing manual passport inspection and manual documents verification, to fight terrorism, to improve border control efficiency, as well as to better detect document frauds.

The project is still on its pilot stages and will spread to 140 regions in the country. It is expected to create 1, 100 jobs in Bangladesh, proving the technology can be used to improve people's livelihood and skill transfers.

[LINK TO THE PRESENTATION](#)



# DAY 2

12 • DECEMBER • 2018

## MORNING

---

WORKSHOP 1  
ALTERNATIVE APPROACHES FOR BORDER AND IDENTITY  
MANAGEMENT

WORKSHOP 2  
NEW WAYS TO COLLECT, MANAGE AND USE DATA

## AFTERNOON

---

WORKSHOP 3  
ENSURING END-TO-END TRUST IN IDENTITIES &  
CREDENTIALS

WORKSHOP 4  
NEW APPROACHES USING MOBILE SOLUTIONS

### WORKSHOP 1 - ALTERNATIVE APPROACHES FOR BORDER AND IDENTITY MANAGEMENT

The number of travelers will increase dramatically by 2030. This will pose new challenges and opportunities to border management. We need new solutions and ideas to address such challenges.



#### CHAIR OF WORKSHOP 1

**Ms. Ruth Annus**  
Head of the Citizenship and Migration  
Policy Department  
Ministry of Interior  
Government of Estonia

---

### SOTAMD (STATE OF THE ART MORPH DETECTION)

Mr. Knopjes presented the research project funded by the European mission on Morph detection as an important countermeasure for morphed face image attack, which exposed the vulnerability of the current facial recognition technology.

The research has found the lack of awareness among civil servants on morphed images on the application of identity documents, thus they can be easily deceived. The objective of the project is to select morph attack detection mechanism and analyze its detection accuracy in an evaluation platform.



**Mr. Fons Knopjes**  
Sr. Research & Development Advisor  
National Office for Identity Data  
Government of the Netherlands

[LINK TO THE PRESENTATION](#)

**GOVERNMENTS ARE RELYING MORE AND MORE ON  
TECHNOLOGY TO DETECT MORPHED FACE IMAGE  
ATTACKS. THE QUESTION IS: IS THIS THE RIGHT  
APPROACH?**

- Mr. Fons Knopjes





**Mr. Michael Gardiner**  
Founder and CEO  
Tactilis

[LINK TO THE PRESENTATION](#)

### DECENTRALIZED BIOMETRICS MADE SIMPLE: HOW BIOMETRIC CARDS RECONCILE SECURITY, PRIVACY & USER EXPERIENCE

Mr. Gardiner introduced the Tactilis card storing biometric information that cannot be extracted. The innovative product secures the data physically instead of in any other server, and the card is only operational with the fingerprint of the owner. Such a mechanism strengthens the link between the user and the card itself, which is usually the weakest link of the identity management chain. Moreover, it could be easily incorporated with passports and national identity cards.

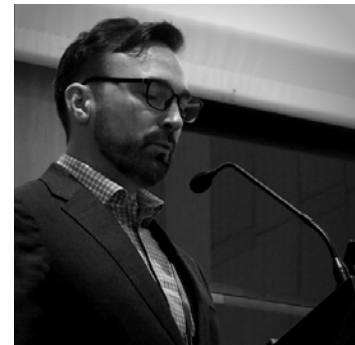
**AS OPENNESS BECOMES THE NEW STANDARD, OUR VALUABLE DATA, AND BOTH OUR INDIVIDUAL AND COLLECTIVE SAFETY ARE MORE THAN EVER AT RISK.**

- Mr. Michael Gardiner

---

### SECURE DECENTRALIZED IDENTITY SYSTEM FOR WORKERS AND REFUGEES

Mr. Simpson focused on the work of iRespond with global and public health of migrants and mobile communities, human security, counter trafficking, and counter smuggling. iRespond designed a biometric service tool for global humanitarian identification, targeting the 1 billion people living without formal ID, using fingerprints and iris scan. The system uses block-chain tools to provide decentralized identification while ensuring data security. Identification data and access control can be managed by the owner, however guardianship is one method for those who do not have the technology or knowledge to manage their own personal digital identity.



**Mr. Peter Simpson**  
Executive Director, iRespond

[LINK TO THE PRESENTATION](#)

### WORKSHOP 1 - ALTERNATIVE APPROACHES FOR BORDER AND IDENTITY MANAGEMENT



**Mr. Lee Jaehyung**  
**Consular (Immigration)**  
**Embassy of the Republic of Korea**  
**in Thailand**

#### **KOREA BORDER MANAGEMENT SYSTEM**

Mr. Lee introduced the current status of Korea's border management system equipped with advanced ICT infrastructure. The main challenges lie in the ever-increasing volume of traveler as well as illegal over-stayers and asylum seekers. In response, Korea has developed a multilayered management system composed by 4 stages: flight booking, ticketing, boarding, and transfer/entry/asylum application, to further prevent illegal entries and expediting legitimate passengers.

[LINK TO THE PRESENTATION](#)

---

#### **THE WAY OF BUILDING AND ENSURING IDENTITIES IN SRI LANKA: AN EXPERIENCE FROM ENID PROJECT**

Mr. Ilukpitiya first introduced the on historical events, legal structures, and evolution of identity documents in Sri Lanka. The second part of the presentation focused on the upcoming activities in the field of identity management, including the collection of personal biometric data, confirmation of personal data, exchange of information and knowledge within the country and among other organizations, as well as further capacity building.



**Mr. Harsha Ilukpitiya**  
**Commissioner**  
**Department for Registration of Persons**  
**Government of Sri Lanka**

[LINK TO THE PRESENTATION](#)

---



**" THE OBJECTIVE IS TO PREVENT CRIMES FROM HAPPENING, KNOWING IN ADVANCE WHO AND WHERE AND WHEN SOMETHING WILL OCCUR. "**

- Mr. Stephan D. Hofstetter

### PREDICTIVE ANALYTICS AND POTENTIAL BENEFITS FOR BORDER MANAGEMENT

Mr. Hofstetter introduced the prediction-led policing business process that uses algorithms to predict where and when a crime will happen based on historic and current data. It aims to build multiple layers of intelligence, including: digital and identity intelligence, decision analytics, verification and authentication, as well as investigation and review. Such a mechanism is applicable to counter cross-border crimes, taking into key spacial and temporal factors, modus operandi, socio-economic data and satellite images.

[LINK TO THE PRESENTATION](#)



**Mr. Stephan D. Hofstetter**  
Managing Partner  
SECOIA Executive Consultants AG

### WORKSHOP 2 - NEW WAYS TO COLLECT, MANAGE AND USE DATA

The advancement of technology has brought more efficient ways to collect an abundance of various data. However, how we manage it in respect to data privacy and confidentiality, and use it to better inform migration management remains a challenge to be tackled.



#### CHAIR OF WORKSHOP 2

**Mr. Dion Chamberlain**  
**Manager of Product Development**  
**Identity and Life Events**  
**Department of Internal Affairs**  
**Government of New Zealand**

---

### BIG DATA AND MIGRATION POLICY

Mr. Colucci first pointed out the wide gaps in quantity and quality of migration data produced by traditional method, such as the census. To fill such gaps, the big data produced by geo-tagged social media platform can improve the collection of migration data, predict future regular and irregular migration patterns and shape a response in advance. However, there are various challenges in the effective use of big data, such as data confidentiality, data continuity, the complexity of massive data, as well as the risk to fundamental rights. In response, IOM's Global Migration Data Analysis Centre was established in partnership with EU Commission's Knowledge Centre on Migration and Demography to promote productive public -private partnership of utilizing big data to better inform migration policy.

He also stressed the importance of real-time analysis in modernizing migratory data management.



**Mr. Donato Colucci**  
**Senior Regional Immigration and**  
**Border Management Specialist**  
**IOM**

[LINK TO THE PRESENTATION](#)



### GOOD PRACTICES FOR BIOMETRICS



**Ms. Isabelle Moeller**  
**Chief Executive**  
**Biometrics Institute**

[LINK TO THE PRESENTATION](#)

Ms. Moeller introduced the Biometrics Institute as a membership organization who provides an independent platform to share knowledge and promote the responsible use of biometrics. She pointed out that the use of biometrics has outpaced the development of legislation and regulatory framework. With the increasing use of automated collection of biometrics, there are growing risks of spoofing and vulnerabilities in data protection, leading to the misinformation of biometrics being "creepy" and insecure.

With UNCTC, the institute developed the United Nations Compendium of recommended practices for the responsible use and sharing of biometrics in counter-terrorism to recommend good practices with respect to human rights.

---

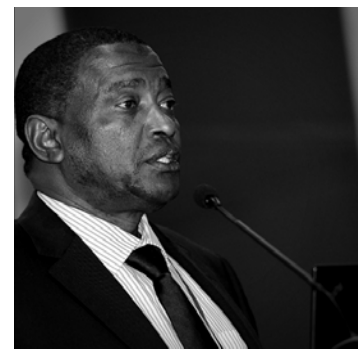
## THERE IS A REAL OPPORTUNITY TO ADVANCE BIOMETRIC TECHNOLOGY TO HELP THE VULNERABLE

- Ms. Isabelle Moeller

---

### USE OF IDENTITY CARDS AS AN ALTERNATIVE TRAVEL DOCUMENT IN THE EAST AFRICAN REGION

Mr. Kimotho first gave a brief background of identification and registration of persons in Kenya, dating back to the colonial history. Nowadays, Kenya has an Automated Fingerprints Identification System database of all registered citizens, foreign nationals and refugees in the country as well as an updated Identity Card Processing and Production System. Moreover, citizens of Kenya, Rwanda and Uganda can use their national identity cards as travel document to move within these three countries, which facilitates the regional socio-economic development. However, the challenges remain in the lack of consolidated data, fraudulent documents, inadequate technical capacity/resources, low public awareness and the risk of transnational crimes.



**Mr. Reuben Muriuki Kimotho**  
**Director**  
**National Registration Bureau**  
**Government of Kenya**

[LINK TO THE PRESENTATION](#)

### WORKSHOP 2 - NEW WAYS TO COLLECT, MANAGE AND USE DATA

#### INTRODUCTION TO THE UNOCT-UNCCT "BORDER SECURITY AND MANAGEMENT PROGRAMME" AND THE RESPONSE TO THE FTF PHENOMENON



**Mr. Rocco Messina**  
Programme Officer  
United Nations Centre for Counter-Terrorism (UNCCT)

[LINK TO THE PRESENTATION](#)

Mr. Messina gave an overview of the United Nations Centre for Counter-Terrorism (UNCCT) of the United Nations Office of Counter-Terrorism (OCT). OCT is established in June 2017 as a policy coordination and capacity building entity to assist Member States in implementing the United Nations Global Counter-Terrorism Strategy. He later elaborated on the UNCCT's Border Security and Management (BMS) programmes, especially on the gaps to be addressed, including lack of training, limited information sharing, standardization of equipment and ethical use of biometrics.

The latter part of the presentations centered around the Foreign Terrorist Fighter (FTF) initiative, stressing the importance of adapting to local context and expanding information sharing.

---

#### HOW SMART BORDERS CONTRIBUTE TO INTEGRATED BORDER MANAGEMENT

Mr. Lim introduced the concept of Smart Border as the solution to the increasing volume of travelers in airports. Smart Border reduces the waiting time and human intervention by utilizing data to better identify risk and facilitate legitimate travelers, with automation of passport clearance and collection of traveler data at the checkpoints. He emphasized the need to increase border security without sacrificing mobility.



**Mr. Michael Lim**  
Consultant  
Somapa IT



**WE NEED TO WORK ON BOTH  
BORDER SECURITY AND  
MOBILITY**

- Mr. Michael Lim



[LINK TO THE PRESENTATION](#)



**"THE ABSENCE OR DISGUISED OF A SOCIAL MEDIA PRESENCE CAN REVEAL AS MUCH AS AN ACKNOWLEDGED OR DETECTED SOCIAL MEDIA PRESENCE "**

**- Mr. Ross Greenwood**

## **DATA INTEGRATION AND THE ICAO TRIP GUIDE ON BORDER CONTROL MANAGEMENT**

Mr. Greenwood introduced the ICAO Traveler Identification Programme (TRIP) and the Border Control Management (BCM) Guide that he had been working on in collaboration with UNCTED. The Guide describes relationship between data, tools and interoperable applications and deals with structured data (including biometrics) captured as part of border management processes. He pointed out that the foundation of border control is in structured data obtained by passport readers, recording entry and exit.

He later stressed the importance of mandatory and standardized structured data mentioned in the BCM guide in informing risk assessment. The additional unstructured data discussed (e.g. big data, social media etc) would be used in conjunction to further explore other risk factors.



**Mr. Ross Greenwood**  
**Principal**  
**Identity Matters Consulting**

[\*\*LINK TO THE PRESENTATION\*\*](#)

### WORKSHOP 3-ENSURING END-TO-END TRUST IN IDENTITIES & CREDENTIALS

The extent to which the entire identity chain can be secured is a key factor in identity management. The end-to-end approach in terms of service delivery, physical to virtual domains and from birth to death is deemed as an effective method.



#### CHAIR OF WORKSHOP 3

**Mr. Ross Greenwood**  
Principal  
Identity Matters Consulting

---

### SUSTAINABLE E-GOVERNMENT, ESTONIAN EXPERIENCE SINCE 2002

Ms. Ruth introduced the Estonian e-government project providing a secure internet-based data exchange between information systems that secure various documents and information through digitalization (digital identity, digital signature, and personal encryption). According to the Estonian experience, centralized management of identities and online checking of validity of ID documents are effective tools to avoid multiple identity, identity thefts and personal data misuse.

The presentation highlighted the importance of revocation for managing error recovery. Estonia maintained trust in its eID eco-system by opening communication of the problem to its citizens, along with effective redress of the identified vulnerability.

[LINK TO THE PRESENTATION](#)



**Ms. Ruth Annus**  
Head of the Citizenship and  
Migration Policy Department  
Ministry of Interior  
Government of Estonia

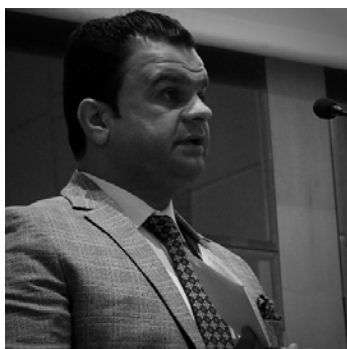
---

**"IF THERE IS AN E-GOVERNMENT, THEN THERE IS NO WAY BACK."**

- Ms. Ruth Annus



### IRAQI DOCUMENTS AND BORDER MANAGEMENT



**Major Ahmed Tuma Jerry Al-Hamadany**  
**Director**  
**Document Authentication & Data Analysis Lab**  
**Ministry of Interior**  
**Government of Iraq**

[LINK TO THE PRESENTATION](#)

Major Al-Hamadany described the major elements of Iraq's border and civil registration arrangements. Iraq has compiled an online travel document reference database in Arabic including image specimens of genuine documents, and document fraud. Along with improved document examination equipment, the enhanced support for front-line officers has resulted in increased detection of fraudulent documents.

However, Iraq continues to face significant challenges, such as paper-based birth certificate, limited access to new ID cards, and the functionality of border management information system.

---

### BIRTH REGISTRATION: THE WEAKEST CORNERSTONE OF THE IDENTITY CHAIN?

Registration of Birth is a fundamental human right recognized in the Convention on the Rights of the Child and the International Covenant on Civil and Political Rights. Improved coverage of birth registration is one of the UN sustainable development goals. However, more than a billion people did not have their birth registered and birth registration rates remain low in some regions .

There is an urgent need for reform of birth certificates as they can be easily forged and then used to obtain other fraudulent documents.

Prof. Wong has proposed the enrollment of DNA at birth as an advanced solution for the problem.



**Prof. Raymond Wong**  
**Professor**  
**Hong Kong Polytechnic University**

[LINK TO THE PRESENTATION](#)

### WORKSHOP 3-ENSURING END-TO-END TRUST IN IDENTITIES & CREDENTIALS

#### SECURING BORDERS: END-TO-END IDENTITY MANAGEMENT FOR CITIZEN REGISTRATION



**Mr. Chimezie Emewulu**  
**Managing Director**  
**Seamfix Nigeria Limited**

Mr. Emewulu first described the challenge of providing all citizens with access to civil registration and identity services in Nigeria, as it is a large country of 200 million people with a decentralized population distribution.

The conduct of agents responsible for identity enrollments and identity token issuance are significant risks and identity fraud is high among the population.

The solutions adopted in Nigeria in response is to introducing innovative control methods, both as part of the business processes and integrated in the technology, to ensure that citizens are actually present throughout the live enrollment.

[LINK TO THE PRESENTATION](#)

---

#### EXTENDING THE CHAIN OF TRUST WITH AN ENHANCED DIGITAL TRAVEL CREDENTIAL

Mr. Tay highlighted the urgency of creating a travel credential identity information system for passengers and border control operation to facilitate the mobility. He proposed the idea to digitalize the identity so that passengers have always with them on their phone. This digital identity should however be secure, trustworthy and respect privacy, thus there is the need to create a complex back end system.

Other challenges are related to issues of trust in the system, and the cost associated to the verification process of this system.



**Mr. Jack Tay**  
**Sales Director**  
**Entrust Datacard**

[LINK TO THE PRESENTATION](#)

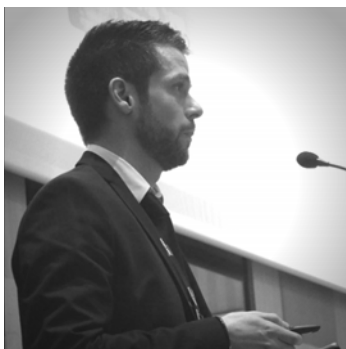
---



**"AS THE WORLD TURNS MOBILE, THERE IS A NEED FOR TRUSTED DIGITAL IDENTITY CARDS "**

**- Mr. Julien Vintrou**

### ENSURING END-TO-END SECURITY AND PRIVACY OF IDENTITY CREDENTIALS FROM EGOVERNMENT TO MGOVERNMENT



**Mr. Julien Vintrou**  
**Marketing Manager**  
**Secure Identity**  
**NXP**

Mr.Vintrou first introduced NXP as the 7th largest semiconductor company in the world, providing solutions to consumers in their homes, companies and transportation methods. His presentation later focused on the mobile ID that transpose physical ID documents into digital identity. Authentication would involve a login request from the service provider, starting an authentication process on the back end with the trusted ID providers/issuers.

Key benefits of the solution include convenience, security, privacy, flexibility and cost reduction.

[LINK TO THE PRESENTATION](#)

### WORKSHOP 4-NEW APPROACHES USING MOBILE SOLUTIONS

Smart phones evolved from luxuries to common goods that are widely accessible. Mobile solutions can enhance identity and border management by increasing security with improved convenience and connecting the customers with identity authorities.



#### CHAIR OF WORKSHOP 4

**Dr. Pratit Santiprabhob**  
Associate Professor  
Assumption University  
Thailand

---

### BORDER MANAGEMENT AND TECHNOLOGIES ON THE FACILITATION OF TRAVELERS AND CITIZENS IN TANZANIA

Mr. Goncalves introduced the e-immigration system launched by the Tanzanian government to address challenges from the previous system, including duplicate passport application, traveler overstaying, long waiting time and manual document verification. The new system incorporated epassport, e-Visa, e-Permits, e-Border management and control as well as the facial recognition system. In addition to the e-immigration, the Tanzanian government is introducing a One Stop Border Post (OSBP) to save time for travelers.

IOM has assisted the government in developing a mobile application for passport verification, which can be used in remote border posts with no power supply or internet connection. Another development was the Mobile Emergency Passport that can be used for identification purposes when a passport is lost.



**Mr. Nelson Goncalves**  
Senior Immigration and Border  
Management Specialist  
IOM

[LINK TO THE PRESENTATION](#)

\* Mr. Nelson Goncalves presented on behalf of Dr. Anna Peter Makakala, the Commissioner General of Immigration from the Government of Tanzania.

### INTRODUCING THE SMARTPHONE SERVICES APPLICATION IN LEBANON - TOWARDS A QUICK AND CONVENIENT SERVICES



**Colonel Najem El Ahmadieh**  
**Chief of Legal and Discipline Office**  
**General Directorate of General Security**  
**Government of Lebanon**

Colonel El Ahmadieh first introduced the recent initiatives of the General Directorate of General Security, including an official Twitter Account, a telephone assistance platform and a mobile application.

With these innovative methods, General Security aspires to provide citizens and foreigners with easy access to information and improve its accountability and transparency. It also drastically reduced the workload for the staff and pave the way for a paperless administration.

[LINK TO THE PRESENTATION](#)

---

### PROVIDING ID THROUGH ONLY ONE INTERFACE TO THE CUSTOMER

Mr.Praml introduced the aim of OeSD is to create a single mobile application for all identity documents such as drivers license, vehicle registration, social security and passport. The information will only be shared on the need-to-know basis. Users will only be able to see the front end even though the back end comprises of integrated data sources,

He also emphasized that the development trend of identity applications is likely to move from centralized to self-sovereign.



**Mr. Lukas Praml**  
**Chief Executive Officer**  
**OeSD**

---

### “WE THINK THE FUTURE LIES ON THE SMARTPHONE”

**- Mr. Lukas Praml**

[LINK TO THE PRESENTATION](#)

---



### WORKSHOP 4-NEW APPROACHES USING MOBILE SOLUTIONS

#### REMOTE IDENTITY AND DOCUMENT VERIFICATION FOR THE UK HOME OFFICE



**Mr. Steven Grant**  
**Director of Business Development**  
**WorldReach Software**

Mr. Grant pointed out that the number of travelers is expected to expand massively in the coming decades, so that border agencies need to adopt new methodologies to facilitate the passport control process and reduce waiting time. There is a trend of moving towards virtual border control and E-border management system.

WorldReach has developed a secure self-service application for ETA/ESTA/eVisa. The application is used by the UK Government for remote enrollment of applicants for permanent residency under Brexit. A new mobile application is introduced to collect data (including biometrics), which can be used to inform decision making prior to the arrival of the travelers.

[LINK TO THE PRESENTATION](#)

Such mobile applications will reduce cost for governments and improve user experience.

---

#### MOBILE INSPECTION AT THE FRONT-LINE

Mr. Fuls introduced a border control mobile inspection application developed by OVD to inspect the passenger throughout the journey from planning until the passenger reaches the destination. The application is capable of verifying the passport and sends the information to the immigration through eGate. It can be used offline for all types of border crossing points, secondary inspections at airports, thus complimenting automated border gates.

Moreover, it allows for an entry decision to be made based on both facial recognition software and face match by the immigration officer.



**Mr. Sascha Fuls**  
**General Manager**  
**OVD Kinegram (Asia Pacific) Pte Ltd**

[LINK TO THE PRESENTATION](#)



### ENHANCING SECURITY WITH MOBILE ID



**Mr. Jean-Baptiste Milan**  
HID Global

Mr. Milan introduced secure identity solutions developed by HID Global who provides digital identity documents that can be protected by cryptography and be verified by software. Smartphones can be the base for the digital identity document as the number of smartphone is increasing quickly. The advantages of smartphone-based digital identity also include significantly reducing the time for document issuance.

Mr. Milan gave two examples of mobile ID: employment permits and emergency passport. Both ID can be remotely issued and verified offline.

[LINK TO THE PRESENTATION](#)



# DAY 3

13 • DECEMBER • 2018

## OPENING OF CONFERENCE DAY 3

**Ms. Dana Graber Ladek**  
**Chief of Mission**  
**International Organization for Migration, Thailand**

Ms. Ladek opened the day 3 of 5th BMIC as the chair of the Conference and congratulated all the participants for their fruitful discussion on day 2.



**Mr. Akuila Ratu**  
**Deputy Head of Secretariat**  
**The Pacific Immigration**  
**Development Community (PIDC)**



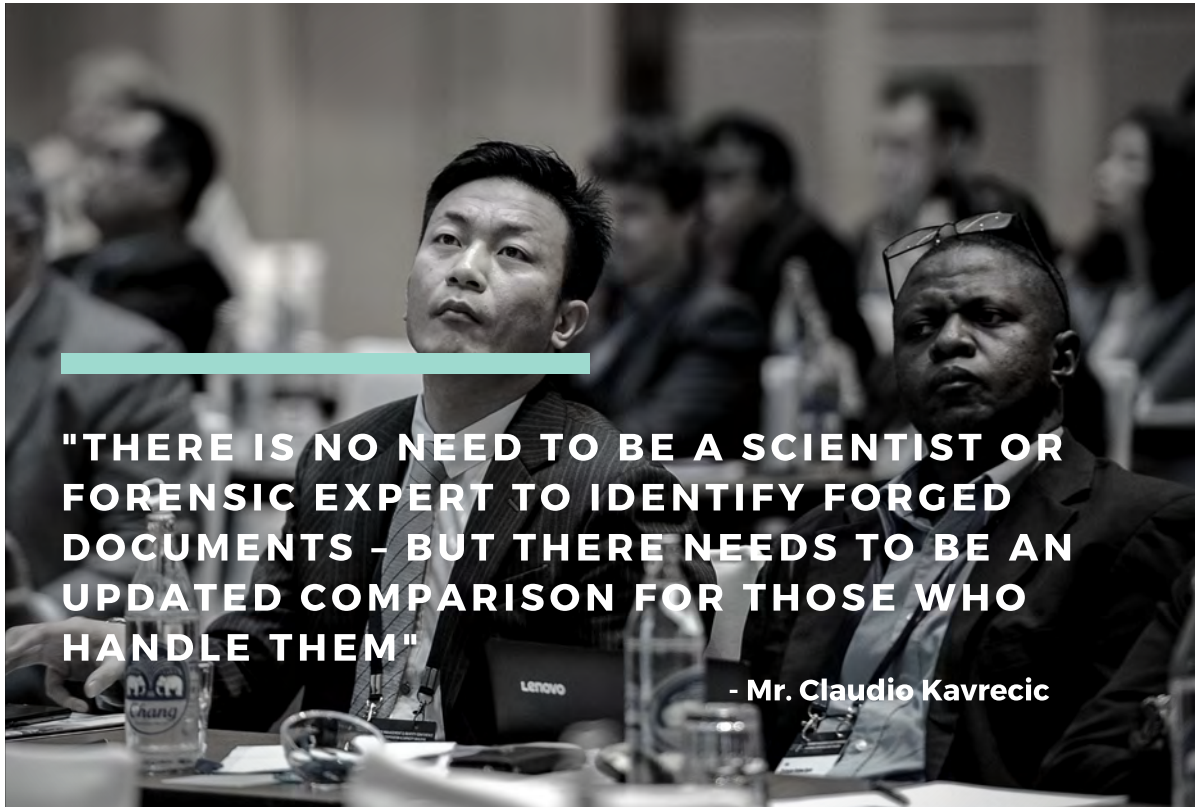
**Mr. Damien W. Jacklick**  
**Director of Immigration**  
**Ministry of Justice**  
**Government of the Marshall Islands**

## PACIFIC WAY FORWARD IN BORDER MANAGEMENT

Mr. Ratu introduced the Pacific Immigration Development Community (PIDC) as a forum on fostering and strengthening border integrity in the Pacific. It aims at building partnership among PIDC members, regional partners and international partners to address specific challenges in the Pacific, such as different operating environments, different levels of technological advancement and outdated legislation. PIDC provides support to members through: reviewing legislation, capacity building, information sharing and data management.

Mr. Jacklick presented a case study of border management in the Marshall Islands as it progressed from paper-based, poor quality data collection two years ago to the current automated collection with Migration Information and Data Analysis System developed by IOM. Such a change not only monitors who enters and exits the country, but also enables migration research and analysis to further inform evidence-based policy making.

[LINK TO THE PRESENTATION](#)



**Mr. Claudio Kavrecic**  
**Head of Centre of Excellence for Combating Document Fraud Frontex**

[LINK TO THE PRESENTATION](#)

## FRONTEX PRODUCTS FOR COMBATING DOCUMENT FRAUD

Mr. Kavrecic introduced the Centre of Excellence for Combating Document as an organization that was established in 2018 under the operational response division and is strategically positioned in the front line of forensics. The Centre organizes workshops with experts to collect information on latest forgery trends, which not only provides up-to-date knowledge for the immigration officers but also contributes to research and innovation in the field of document fraud.

He also explained the work flow of Frontex Document Alert (FDA) that furthers information changes in the EU countries with difference operating environment and technical capacity.



**Mr. Dion Chamberlain**  
**Manager of Product Development**  
**Identity and Life Events**  
**Department of Internal Affairs**  
**Government of New Zealand**

[LINK TO THE PRESENTATION](#)

### USING AN EVIDENCE OF IDENTITY APPROACH

Mr. Chamberlain emphasized that the current challenge lies in providing quality service for the traveler but making sure security is in check, in another word maintaining the balance between facilitation and security. Instead of focusing on document fraud, the government should also pay attention to the weakness in passport issuance. Genuine passports that have been falsely obtained are much harder to detect. He later proposed an Evidence of Identity approach where identity is understood as an eco-system. The framework is focused on understanding and using information, including social footprint, to gain a level of confidence rather than proof of identity, as there are no absolutes.

## ESTABLISHING THE VERIFYING IDENTITY IS ABOUT PROBABILITY

- Mr. Dion Chamberlain

### EPASSPORT VALIDATION: A PRACTICAL EXPERIENCE

Mr. Rajeshkumar presented the process of validating ePassports and how the results are displayed for the immigration officers. He pointed out the defects of ePassport are not uncommon and are identified as fraudulent documents. For failed verification, there are often three strategies: do nothing, defect profiling and defect handling. He further warned the audience about the risk of being complacent of a functioning system, as we should always be prepared for failures.



**Mr. R Rajeshkumar**  
**Member**  
**ICAO Implementation and**  
**Capacity Building Working Group**  
**(ICBWG)**

[LINK TO THE PRESENTATION](#)





**Ms. Miki Kawashiri**  
**Deputy Director**  
**International Affairs Division**  
**Minister's Secretariat**  
**Ministry of Justice**  
**Government of Japan**

[LINK TO THE PRESENTATION](#)

## IMMIGRATION EXAMINATIONS IN JAPAN - SMOOTHER AND STRICTER MEASURES UTILIZING TECHNOLOGY

Ms. Kawashiri first pointed out that the upcoming Olympic and Paralympic games in 2020 demands smooth facilitation and stricter immigration control to prevent the entry of terrorist and criminals. In response, Japan has implemented the following measures: automated gates, Bio-Carts and the Trusted Traveler Program. However, further innovations are needed to handle the projected number of visitors over the next few decade, such as the facial recognition gates, pre-clearance overview, landing examinations etc. She further stressed that to strengthen border control measures, information sharing with both domestic and foreign related organizations must be prioritized.



### REPORT OF WORKSHOP 1 - ALTERNATIVE APPROACHES FOR BORDER AND IDENTITY MANAGEMENT



**Ms. Ruth Annus**  
Head of the Citizenship and Migration Policy Department  
Ministry of Interior  
Estonia

[LINK TO THE REPORT](#)

---

### REPORT OF WORKSHOP 2 - NEW WAYS TO COLLECT, MANAGE AND USE DATA



**Mr. Dion Chamberlain**  
Manager of Product Development, Identity and Life Events  
Department of Internal Affairs  
New Zealand

[LINK TO THE REPORT](#)

---

### REPORT OF WORKSHOP 3 - ENSURING END-TO-END TRUST IN IDENTITIES & CREDENTIALS



**Mr. Ross Greenwood**  
Principal  
Identity Matters Consulting

[LINK TO THE REPORT](#)

---

### REPORT OF WORKSHOP 4 - NEW APPROACHES USING MOBILE SOLUTIONS



**Mr. Donato Colucci**  
Senior Regional Immigration and Border Management Specialist  
IOM

[LINK TO THE REPORT](#)

---



**"FROM THE PERSPECTIVE OF GOOD  
MIGRATION GOVERNANCE, BORDER  
MANAGEMENT AND IDENTITY MANAGEMENT  
CONSTITUTE THE VERY CORNERSTONE OF  
SAFE, REGULAR MIGRATION THAT BENEFITS  
ALL"**

- Dr. Maria Nette Motus

### CLOSING CEREMONY

Dr. Motus delivered the closing speech of the 5th BMIC, acknowledging the laudable efforts of the Conference co-organizers, IOM and APSCA as well as the active participation of all the delegates and workshop chairs. In her speech, 5 key takeaways from Conference were highlighted:

1. Strengthen the fundamental elements of identity management by reforming civil registry.
2. Enhance data privacy, confidentiality and accountability.
3. Use migration data to inform decision-making and generate actionable policy insights.
4. Engage with the direct beneficiaries of identity and border management.
5. Acknowledge the humanitarian implication of effective border and identity management.



**Dr. Maria Nette Motus**  
**Regional Director**  
**Regional Office for Asia and the Pacific**  
**IOM**



## FINAL REMARK FROM THE CHAIR



**Ms. Dana Graber Ladek**  
**Chief of Mission**  
**IOM Thailand**

As the chair of the 5th BMIC, I was extremely impressed by the caliber, expertise of the speakers and the quality of the information they shared with all participants.

BMIC confirms once again to be an excellent opportunity for border and identity management practitioners to meet, share best practices, identify challenges, and present effective solutions to improve border management and contribute to safe migration.

**Thank you very much for your  
support for the 5<sup>th</sup> BMIC.**

**We look forward seeing you again  
at the 6<sup>th</sup> BMIC in 2020 !**

**APSCA**

 **IOM**  
UN MIGRATION





5TH BORDER MANAGEMENT & IDENTITY  
CONFERENCE

**APSCA**

