

# TRIP 2 22 SEAMLESS AND CONTACTLESS Sharing data to accelerate the recovery

13 - 15 SEPTEMBER 2022

# CAO TRIP2

### Mario Wiesen / Ciaran Carolan

Chair of the ICAO PKD Board / ICAO PKD Officer

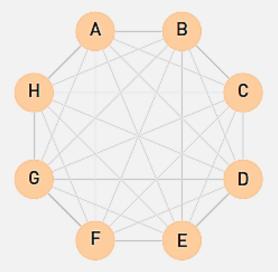
## Authenticity

Issuance by genuine authority

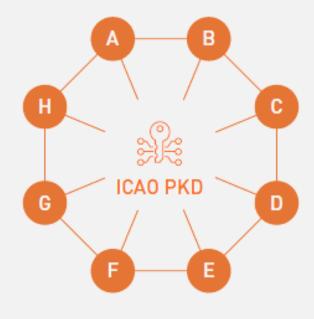
### Integrity

 Data hasn't been changed since issuance (including the facial image)

Electronic Verification needs availability of public keys



Without the PKD



With the PKD

**Encoded** in the

national Master Lists

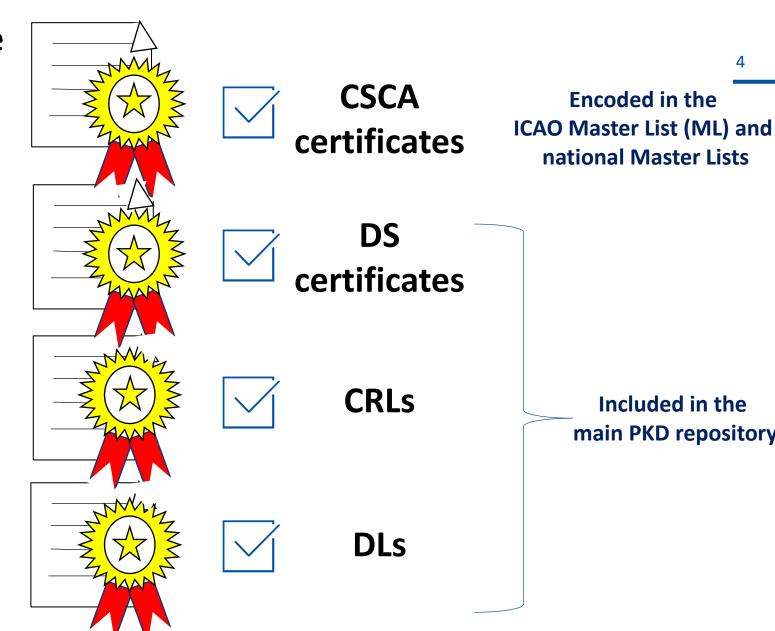
Included in the

main PKD repository

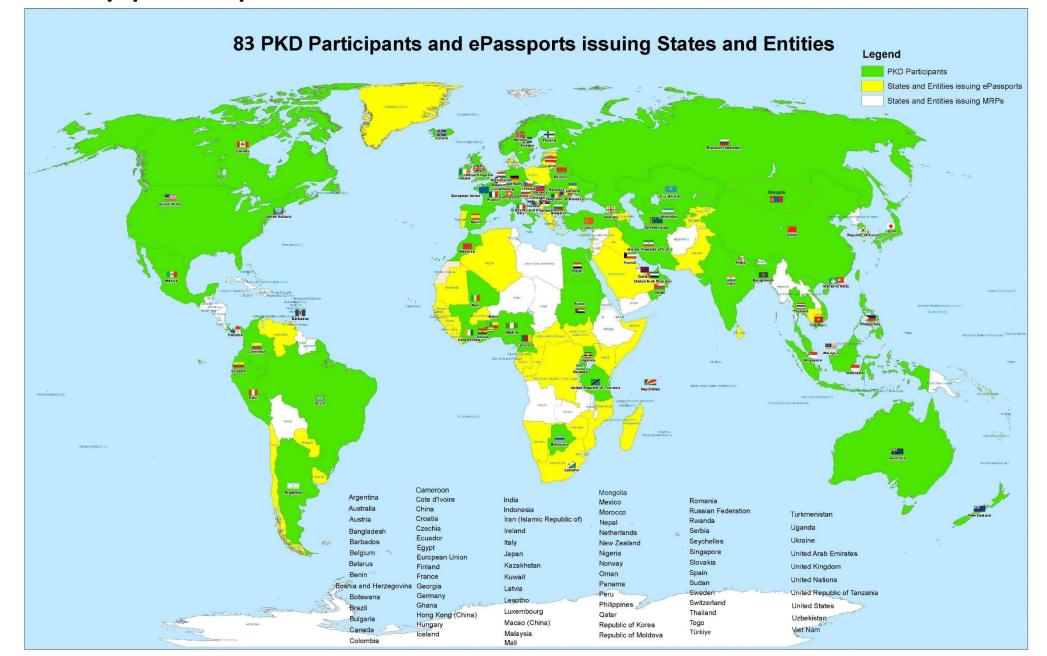
#### Public key Information in the **ICAO PKD**

Everything needed to validate the full ePassport certificate chain

= > A One-Stop Shop for ePassport **Validation** 

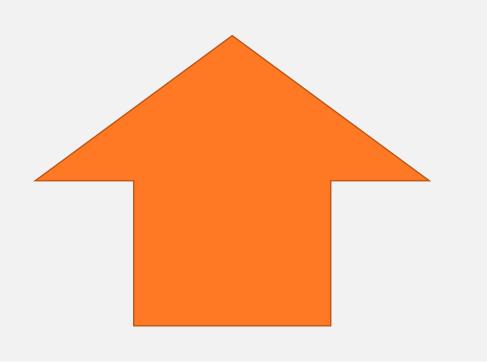


### Voluntary participation in the ICAO PKD

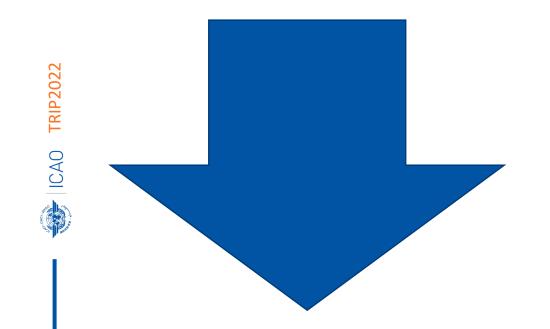


# Advancing the PKD to meet current and future needs

PKD Board priorities



# Value for participants

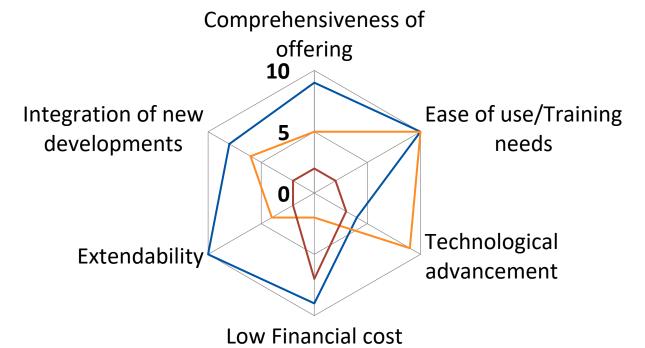


Costs for participants

#### The ICAO PKD – complete, flexible, low cost and easy to use

#### -ICAO PKD —Bilateral ID schemes —Manual Passport checks





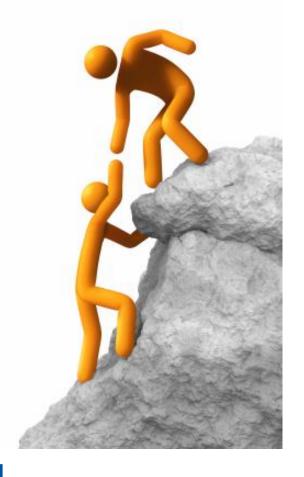
- Increase participation and use
- Intensify capacity building
- Include additional eMRTD certificates
- Build new partnerships
- Enhance flexibility to new developments



- Increase number of participants
- Retain technological simplicity

### The ICAO PKD Data Quality Coach initiative







Virtual calls to provide concrete support



On-site visit to assess implementation and provide advice



Follow-up support based on established relationships

# ICAO TRIP2022

# **2021-22**- Mongolia is the first recipient of the PKD DQ coaching program, supported by experts from Luxembourg

The ICAO PKD Data Quality Coach initiative

**2022 –** Further countries standing to benefit, beginning with Barbados, Cameroon and Uganda

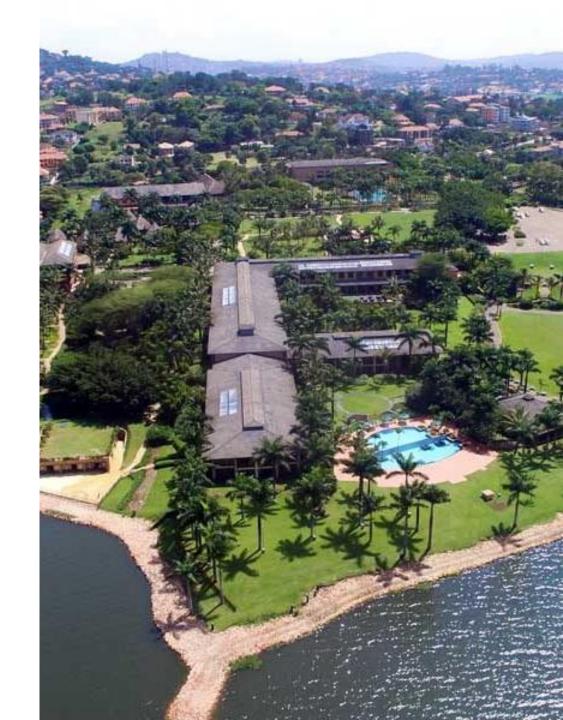
The program is open to all PKD participants, new and old, with selection of recipients based on submitted requests for support and geographic prioritization of the PKD Board year-to-year.

### ICAO PKD Workshop

**Availing of all benefits of ICAO PKD participation: Considerations from operational and implementation** points of view

#### Speke Resort Munyonyo, Kampala, Uganda **15 November 2022**

- For existing PKD participants and representatives of States interested in possible future participation (separate tracks offered)
- Dedicated sessions for decision makers, operational staff and technical senior officers
- Objectives include:
- Enhancing understanding and awareness of ePassport PKI and the relevance of the PKD
- Supporting national implementations are optimal and ensure that all benefits are realized
- Facilitating exchange of information and perspectives



# **TRIP2022**

#### The ICAO PKD Private Sector Use Pilot



**Grow participation** amongst all who can benefit from the PKD in line with ICAO objectives

- Development of solutions by the private sector based on PKD data can enhance global capabilities to properly authenticate electronic travel documents
- Airlines/airports are asked to verify documents we need to give them capabilities to do so!

- Ensure that the PKD can support future development of globally interoperable solutions
- Standalone solutions from industry could help States more rapidly incorporate capabilities for authenticating new electronic documents (e.g. VDS-NC)
- Private sector usage can motivate improved usage of the PKD by States



# **TRIP2022**

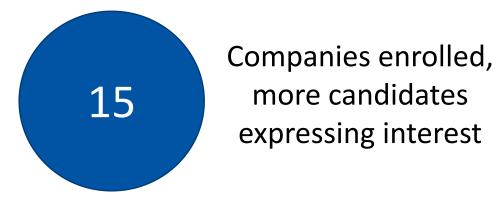
## Main principles

Pilot project launched in 2021

- Six month pilot period with collection of information and perspectives towards the end to direct next steps
- Usage of the existing public download capabilities to eliminate any need for capability development
- Authorization given based on derogation from defined Terms and Conditions on the PKD public download site
- Administration by the Secretariat, oversight by the PKD Board through Secretariat reporting
- Full alignment with the MoU approved by Council



## Status of the pilot



23 Dec 2021

Pilot kick-off

May 2021

First Participant survey



Pilot end date









**Facilitating** implementation of new initiatives

new initiatives



**ICAO PKD Program** 



**Experts** 



**Experts** 





# Supporting validation of ePassports eMRTDs

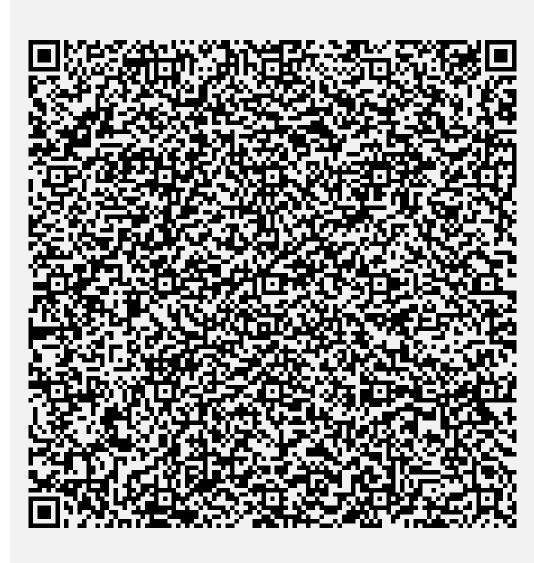


# The ICAO Health Master List



#### Supporting use of the ICAO VDS-NC

- Public Key Infrastructure approach generally follows that of ePassports
- Trust anchor can be an existing CSCA or a different CA used for health proof purposes
- Encoding of the barcode signer certificate in the barcode is optional
  - International distribution mechanism needed for sharing of the health-oriented CA certificates and (preferably) the barcode signer certificates
- -> The ICAO Health Master List





Global PKI in support of international health proofs for travel









TRIP2022

ICAO



### The ICAO Health Master List

- All that is required to assure authenticity and integrity of VDS-NC
- Sharing trust anchors for international health proofs

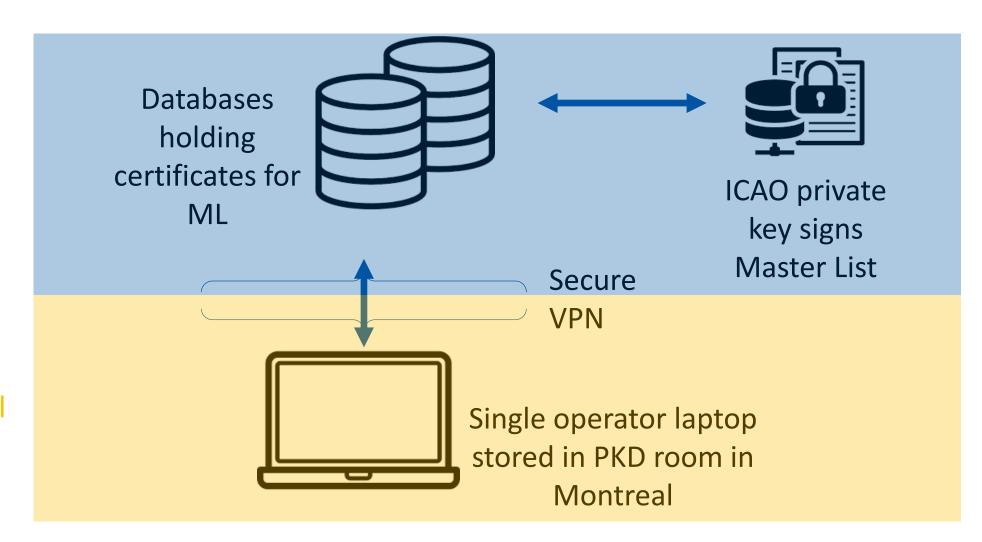
#### Collaboration with INCERT LU -> free of charge for ICAO and for participants

INCERT, Luxembourg

ICAO, Montreal

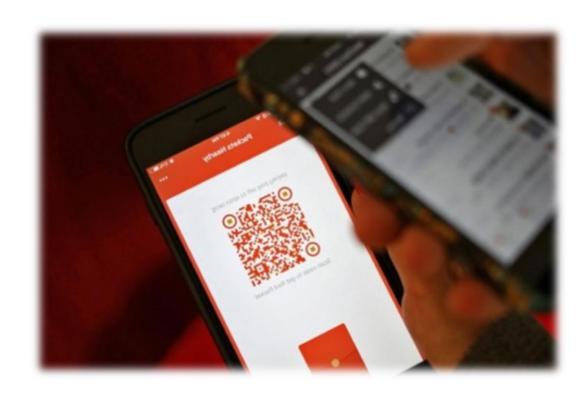
**TRIP2022** 

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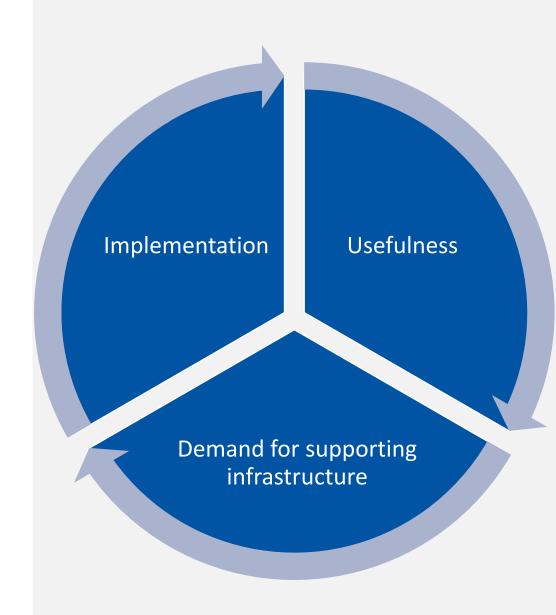
# Visible Digital Seals (VDS) for Non-Electronic Documents -Part 13, 9303, 8th Edition





#### TRIP-PKD Cooperation is essential

- Vital that specification development goes hand-in-hand with PKD implementation planning to the greatest extent possible
- Common awareness of interrelations critical within WGs and governance structures
- Mutual interest in capacity building and implementation support implies cooperation in this area





# Thank You

ICAO Headquarters Montréal European and North Atlantic (EUR/NAT) Office Paris

> Middle East (MID) Office Cairo

Western and Central African (WACAF) Office Dakar

> Asia and Pacific (APAC) Office Bangkok

Asia and Pacific (APAC) Sub-office Beijing

Eastern and Southern African (ESAF) Office Nairobi

North American
Central American
and Caribbean
(NACC) Office
Mexico City

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