



ICAO



2023
ICAO **TRIP**
SYMPOSIUM

MONTREAL, CANADA | 12 - 14 SEPT 2023



ICAO 12-14 sept 2023

BENOÎT POLETTI

Data Quality Coach program for ICAO
Public Key Directory - Mongolia use case

www.incert.lu

Public agency, Luxembourg





INCERT

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Current Situation

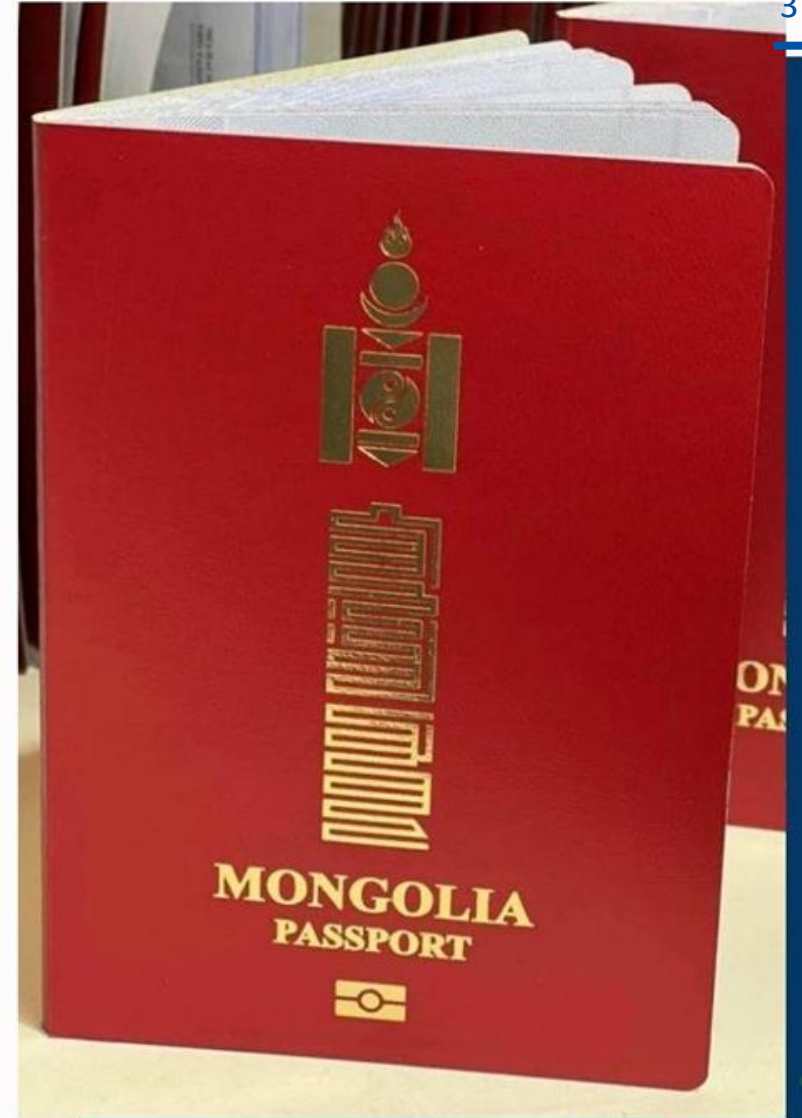
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Project, history, key milestones

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Lessons Learned, friendship
drink et lamb

**Benoît Poletti, Data Quality Coach program
for ICAO PKD Mongolia use case**



Current Situation



DECEMBER 2022



CSCA 1st import
Reconstruction for 1 year of the
Working Agreement

MARCH 2023



First Mongolian ePassport issued
170.000+ ePassports
issued since March 2023. Upload of
ML, DS and CRL to the ICAO PKD

AUGUST 2023



ABC gates deployed
on 8 lanes on
Ulaanbaatar International Airport



INTERNATIONAL CIVIL
ATION ORGANIZATION

PROJECT

Project main purpose, history and
key milestones



WORKING ARRANGEMENT
Between
The General Authority for State Registration of Mongolia
And
INCERT GIE
(Hereafter referred to as 'the Parties')

As the Government of Mongolia is in the final stages of planning for the issuance of compliant electronic passports to their citizens;

As the Ministry of Foreign Affairs of Mongolia and the General Authority for State Registration of Mongolia are the national authorities mandated by the Government of Mongolia for the delivery of the electronic passports necessary for the issuance of compliant electronic passports;

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TRIP2023



Project main purpose



The Data Quality Coach program for ICAO PKD has been established by the ICAO PKD Board with the aim to provide assistance to countries willing to become active PKD members.

What does “becoming an active PKD member” mean in practice ?

1. Successfully importing on-site (in Montreal for the 1st time) the Country Signing Certification Authority (CSCA) certificate within the ICAO PKD system; and
2. Being able to regularly upload to the ICAO PKD system the other certificates and lists (cryptographic material) associated to the concerned CSCA.



Project history key milestones

**Dec
2021**



Signature between
Mongolia and INCERT of a
Working Agreement

Virtual kick-off meeting



**Feb
2022**

**June
2022**



INCERT's delegation visit
on site

CSCA 1st import
Reconduction for 1 year of
the Working Agreement



**Dec
2022**

March 2023

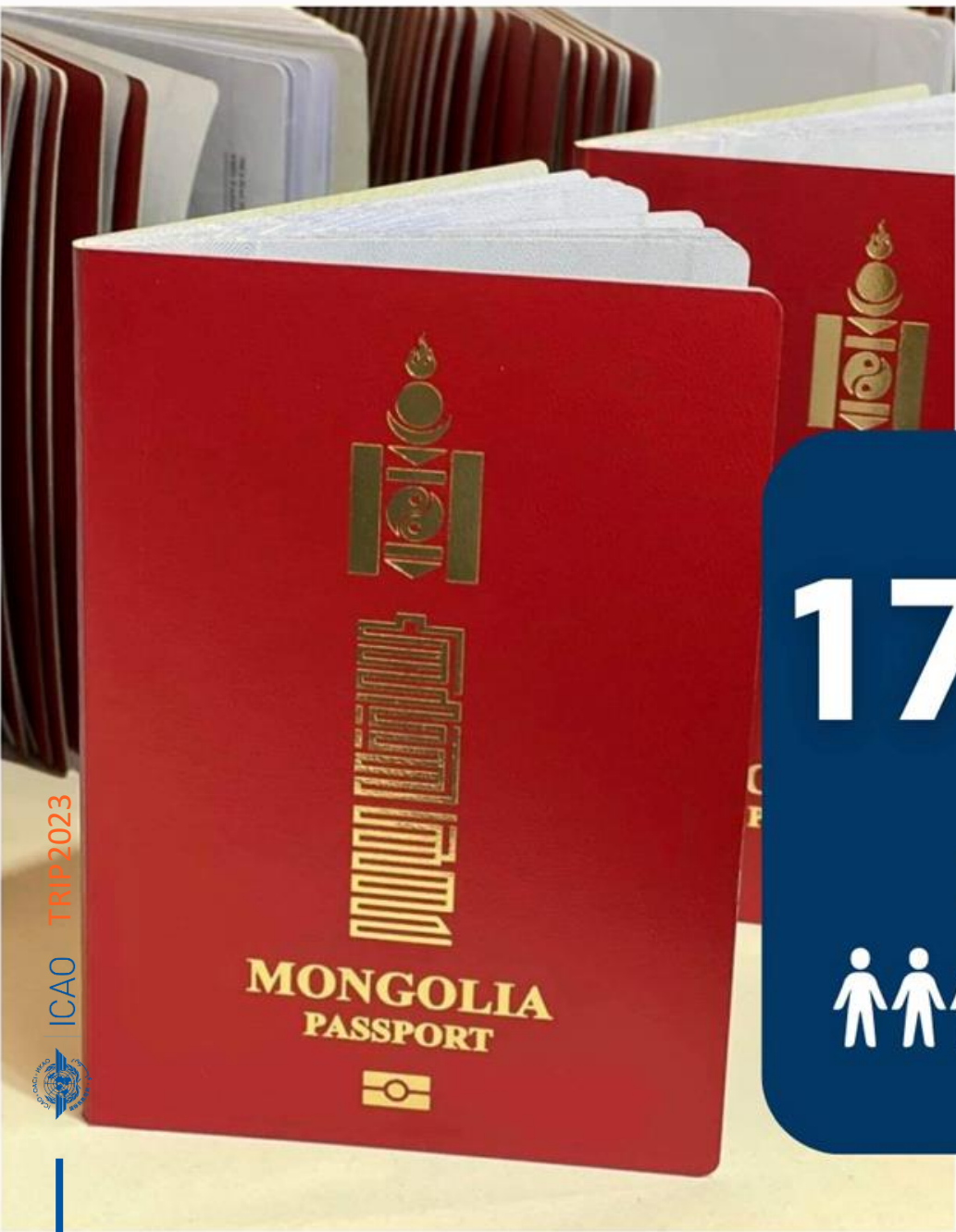
March 2023

Upload of ML, DS and CRL to the ICAO PKD

1st Mongolian ePassport issued

170K+

EPASSPORT



LESSONS LEARNED



LESSONS LEARNED

Diversity of the coach role

In this case, it is necessary to develop **vodka stamina**. I'd like to take this opportunity to thank for the warm welcome we received. About the qualities that are fundamental to the success of this type of mission :

- Providing to Minister(s) **high-level benefits** from being a member of the ICAO PKD, and explaining roles and responsibilities in relation to the management of the national PKD.
- Providing governance approach to representatives from public administrations on organizational processes to establish for **managing a national PKD**.
- Assisting IT staff with technical reviews of certificate profiles, the analysis and drafting of **relevant specifications**.

Long run for the coach

Becoming an active member of the ICAO PKD can not be reasonably achievable in 2 or 3 months.

By accepting the “coach” role, we knew that:

- The intended initial scope could **be broader** (PKI, ePassport chip...)
- **Regularity & availability** would be crucial (weekly meetings of 1 hour to discuss progress made and next steps / allocation of extra time to review documentation).
- Estimated time allocated to the project:
20-25 man/days per year.

LESSONS LEARNED

“Demystify” the roles of the national PKD

A national PKD serves 2 intentions:

- Transmission of cryptographic material (certificates and lists) used by a country when electronically signing ePassports. This material will be then shared through the ICAO PKD with other countries for supporting them in checking the validity of the electronic part of the concerned ePassports.
- Enabling the border control to get the relevant cryptographic material to check eTravel documents (for example at ABC gates).

The PKD is a key asset of the “ePassport” ecosystem – but not the first one to establish

Following components need to be established prior to the PKD:

- The PKI used for the electronic signature of the data contained in ePassport chips. There is otherwise no cryptographic material to upload from the national PKD to the ICAO PKD system.
- A national registry with processes strengthening the evidence of identity from citizens. The PKD serves the international recognition of ePassports issued to individuals that are duly identified. This is particularly important for VISA waiver programs.



INCERT

END 2023

**Target date for deployment of self-service kiosks
for ePassport enrollment**



Thank You

Benoît Poletti, Data Quality Coach program for ICAO
Public Key Directory - Mongolia use case



Thank You

