“And he said, Thy brother came with cunning and has taken away thy blessing”

[Genesis 27:35]
In the light of a number of security incidents, a Government decision to issue new documentation.

The Minister of Interior and the Director-General of the Ministry of Interior qualify the Counterterrorism Unit to carry out administrative work on the new documentation.

Passing of the Biometric Law: replacing of the existing ID cards and travel documents with smart identity documents that incorporate biometric means and data, and establishment of a biometric database.

Formulation of an operational doctrine for documentation integrated with biometrics, including a decision on the creation of a database.

Preparations completed for the issuance of biometric documentation.

Establishment of the Biometric Database Management Authority.

Start of issuance of smart biometric documentation and storing of the data in the database.

Mandatory application of the law in its new form.

Government decisions instructing the use of biometric means in ID cards and passports.

Government decisions instructing the use of biometric means in ID cards and passports.

June 2017

2002

2005

2008

2009

2012

2013
Impersonation and identity theft

**Compromises democracy**: for example, the repeat elections in Beit Shemesh and Nazareth

**Fraud**: opening of bank accounts using a stolen identity and exploiting credit, National Insurance

**Economic implications**: selling of property such as cars and apartments, by impersonation

**Crime**: committing offenses by impersonating another

**Security implications**: entry into the country with a stolen identity – from the Territories/Gaza/ other countries

**Diplomatic implications**: use of an Israeli passport with a stolen identity at international border crossings
Forging of identity; not forging of documentation

The smart documentation provides protection of the highest standard against forgers

When forgers are unable to forge documentation, they will impersonate another individual in order to obtain a "genuine" identity document under a false identity!

Without the database, an individual could obtain multiple identity documents by deceit
The purpose of the biometric database

One identity per person

The biometric database makes it possible to treat identity documents as reliable and the person presenting the identity document as the owner of the true identity.
Israeli Law

10 years validity

5 years validity

Citizen choices

2 FP

Face Image

Israeli law requirements:

Face Image
The work process

The Biometric Database
Management Authority

Population Registry Office

Checks for duplicates → Information security and decryption tests
→ Testing of the system outputs → Approval/ rejection of issuance

Population Authority

Handover of the identity document, receipt of passwords, and activation of the ID card

One-way channel
Privacy by Design (PbD)

- **31234567897**
  - Serial number (not an ID number)

- **Facial image**
  - **Two fingerprints**

- **No ID number**
- **No DNA**
- **No** information on bank accounts
- **No** information on asset ownership
- **No** information on criminal convictions
- **No** biographical details, such as: name, telephone number, marital status, nationality, religion, gender, etc.
- **No** information on parking tickets
- **No** information on driver’s license
- **No** etc. etc.
The database is air gapped

The biometric database
Managed by the Biometric Database Management Authority

- 2 fingerprints
- Facial image
- Encrypted identifying number

The data is encrypted, Means of access control, authorizations, and monitoring

The biometric database is not linked to any network

Population Registry
Managed by the Population Authority

- Full registry details
- ID numbers
- Biographical details
- Demographic details
- Entry and exit movements
The status of the biometric project

Issuance of smart documentation to Israeli residents began July, 2013

The trial period (voluntary) lasted until June 2017

As of June 1, 2017 mandatory application to all residents

3.5M Residents of the State of Israel have received new biometric documentation

23K In average are joining every month
The AFIS

System compliant with Israeli law.

- Only biometrics data.
- Privacy by Design (PbD)
- A deletion module
- No external connections whatsoever (I/O)
  - In the future security forces will be able to do verification and identification.
- The data in the system is classified as “Top Secret“, and hence it incorporates the most advanced cyber sec. systems in the world.

* The data in the depiction is synthetic data only, and is not part of the biometric database.
The BDMA Challenges

Could We Switch to Face only System ???

- 10M records.
- Aging of 10 years.
- Only Biometric Data.
- The law (head cover).

De-duplication
The Authority’s challenges - The Human aspects

We are excellent at recognizing people that we know
The Authority’s challenges

But how are we dealing with people we are not familiar with?

- Lambs
- Head cover
- Make up
- Ageing
Thank you

Amir Arien –
Deputy General Manager & CIO
Biometric Authority
Amirar@moin.gov.il