



National Office for Identity Data  
Ministry of the Interior and  
Kingdom Relations



# Technological developments and innovation



*The perspective of the Dutch Identity Authority – by ms Rhodia Maas, General Director*



# The National Office for Identity Data the Netherlands

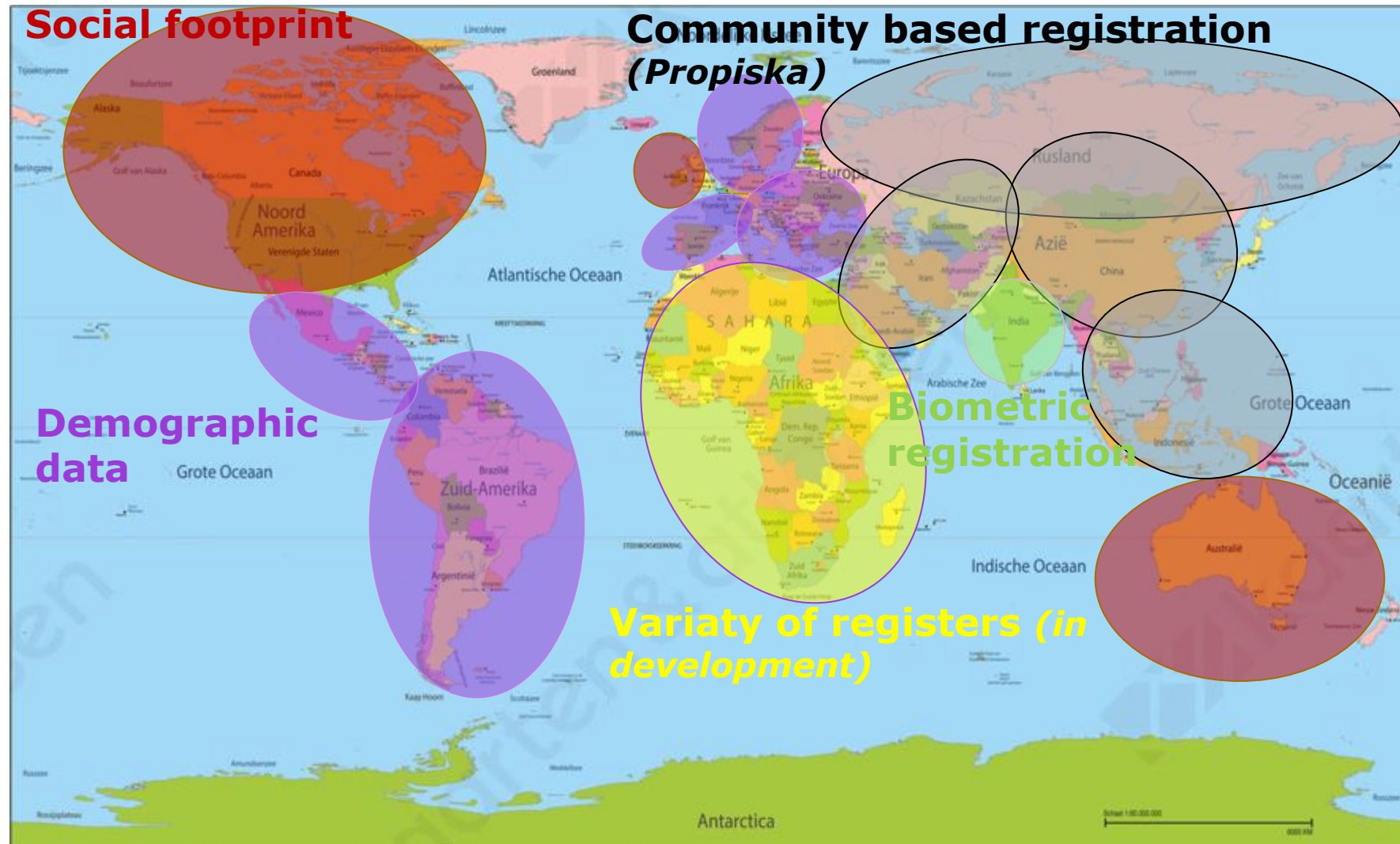


# Identity infrastructure

|                           | Origin identity   | Use identity  | Control identity  | End identity   |
|---------------------------|---|---|---|--|
| <b>Registrations</b>      | <ul style="list-style-type: none"><li>• Birth registration</li><li>• Etc.</li></ul>                                 | <ul style="list-style-type: none"><li>• Passport registration</li><li>• Etc</li></ul>       | <ul style="list-style-type: none"><li>• Wanted persons</li><li>• Etc</li></ul>        | <ul style="list-style-type: none"><li>• Death registration</li><li>• Etc.</li></ul>    |
| <b>Tokens (Documents)</b> | <ul style="list-style-type: none"><li>• Birth certificate</li><li>• Etc.</li></ul>                                  | <ul style="list-style-type: none"><li>• Passport</li><li>• ID card</li><li>• Etc.</li></ul> | <ul style="list-style-type: none"><li>• SLTD (Interpol)</li><li>• Etc</li></ul>       | <ul style="list-style-type: none"><li>• Death certificate</li><li>• Etc.</li></ul>     |
| <b>Processes</b>          | <ul style="list-style-type: none"><li>• Registration in registers</li><li>• Etc</li></ul>                           | <ul style="list-style-type: none"><li>• Application ID Cards</li><li>• Etc.</li></ul>       | <ul style="list-style-type: none"><li>• Verification process</li><li>• Etc.</li></ul> | <ul style="list-style-type: none"><li>• Deregister immigration</li><li>• Etc</li></ul> |
| <b>Expertise</b>          | <ul style="list-style-type: none"><li>• Knowledge</li><li>• Skills</li><li>• Attitude</li><li>• Integrity</li></ul> |   |   |  |



# Global perspective





# Figures

## WORLD POPULATION



**2015 – 7,38 Bn**  
**2050 – 9,77 Bn**

## TRAVELLERS



**2016 – 3,8 Bn**  
**2037 – 8,2 Bn**

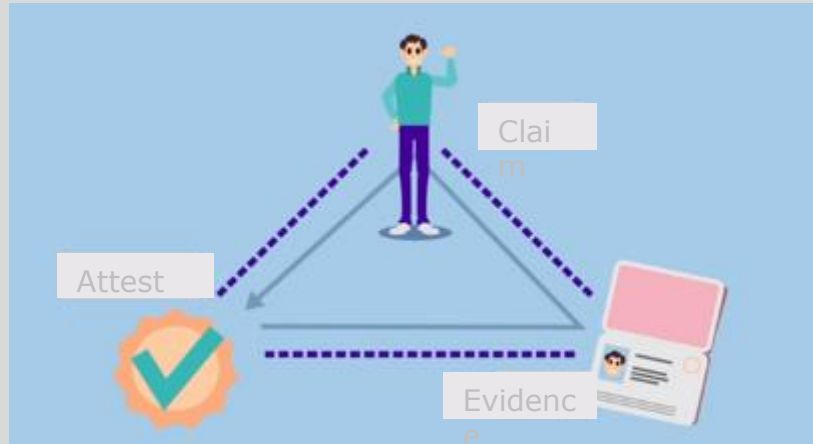




# Developments



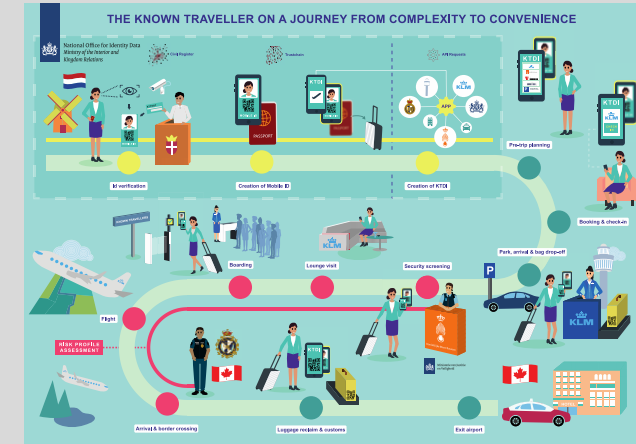
*Virtual ID card*



*Self Sovereign ID triangle*



*Distributed ledger technology*



*Known Traveler Digital Identity*



*Electronic  
Identification*



*New  
Tokens*



*Biometric  
verification*

A red arrow-shaped icon pointing left, containing a black padlock with a hand symbol inside, representing privacy.

# Privacy



## *Privacy and Data protection*



A graphic featuring three black silhouettes of people on the left, partially overlapping a magenta shape that points to the right. The text "Stakeholder management" is written in white on the magenta background.

**Stakeholder management**



*Municipalities*



*Immigration*



*Ministry of Foreign Affairs*

*And many others form the public and private sector*



Various financial aspects:

- Value Proposition
- Commercial strategy
- Stakeholder / participant involvement
- Business and Operating Model
- Investment and funding
- Etc.



Quantify and qualify impact on society:

- facilitating greater user control of data
- privacy protection
- security for online interactions
- supply chain transparencies
- Etc.



**Market  
consultation**

Is the app recognizable?

Will citizens use the app?

Can disabled people use the app?



Recognize the visually impaired the app?

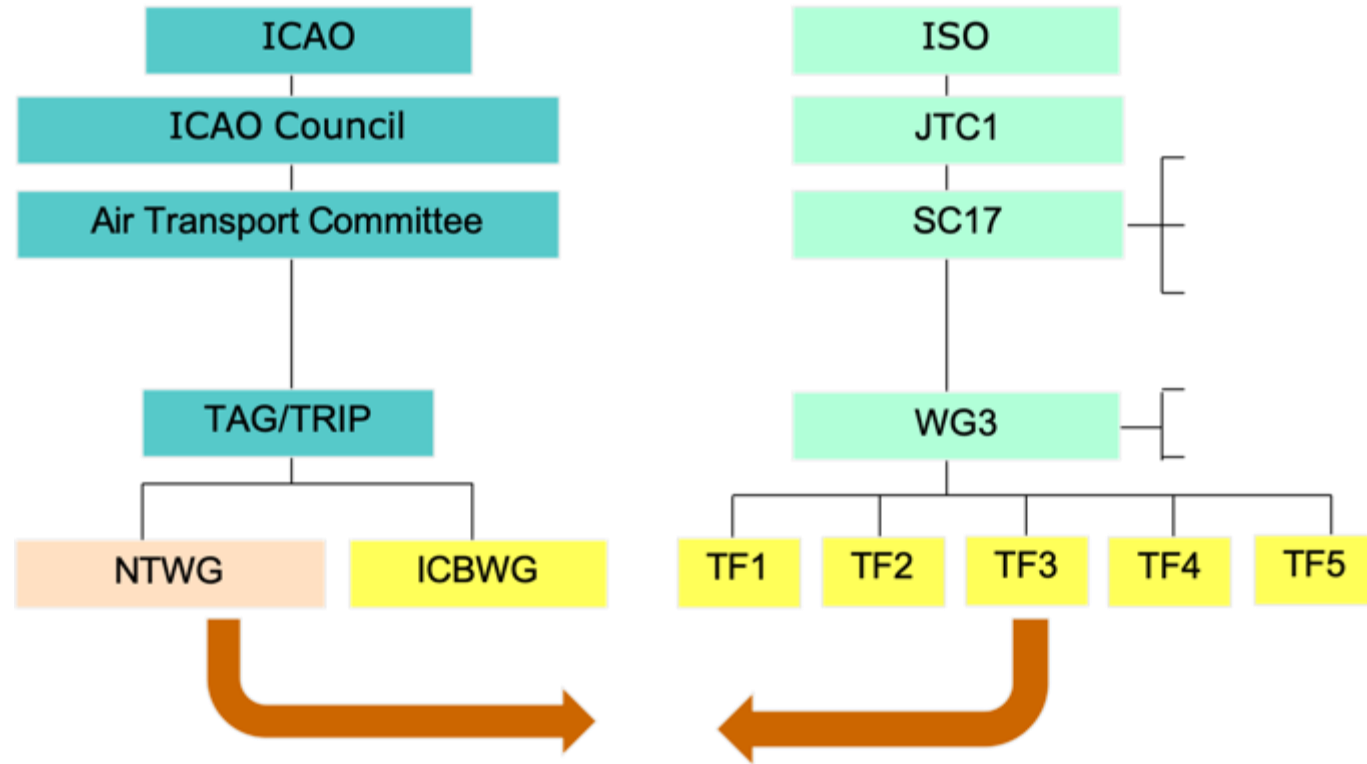
Do citizens trust the product?

Is there willingness to pay for the app?



# Interoperability and Standards

Development of standards for the identity domain:  
A joined responsibility of ICAO and ISO





# Conclusion

Changing needs of citizens, new forms of fraud and new technologies require of governments a permanent focus on and investment in innovation of the identity infrastructure.



Knowledge and understanding (of the technologies) within the organizations on the right level



Take the interests of citizens seriously



Respect the privacy of citizens



Properly govern the Governance



Ensure financing



Respect internationalization and standards





# Mission

The National Office for Identity data is the identity authority and directs the safe and reliable use of identity data