

# KNOWN TRAVELLER DIGITAL IDENTITY Pilot Project

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# Background

- The World Economic Forum (WEF) brings together public-private leaders to shape global, regional and industry agendas.
- The WEF, with its stakeholder partners, is developing an innovative concept to promote public safety while facilitating legitimate travelers.
- The Known Traveller Digital Identity concept is based on the principle that an individual traveller has control over the use of his own identity and its components. A traveller can push proof of their (digital) identity information – secured by distributed ledger technology and cryptography – to governmental and private-sector entities throughout his seamless journey.
- Goal is to pilot a scalable model between international airports to demonstrate the concept in 2019.

# Known Traveler Digital Identity (KTDI) Concept

## For Travellers



Privacy and security built into the system. Travellers share what they want, when they want, and with whom they want to enable a more comfortable and quicker experience.

## For Governments



Security agents receive more accurate data earlier, enabling the use of individual risk assessments to quickly clear known travellers and apply focus where needed.

## For Private Sector



Information can be shared by the traveller across the eco-system enabling private companies to streamline customer processes (hotel check-in, car rental, etc.).

# Enabling Technologies

The Known Traveler Digital Identity concept is based on the following enabling technologies:



**Mobile devices:** enabling the passengers to carry their digital identity and share information as they like;



**Biometrics:** connects the physical and digital worlds and ensures the legitimate use of identity information;

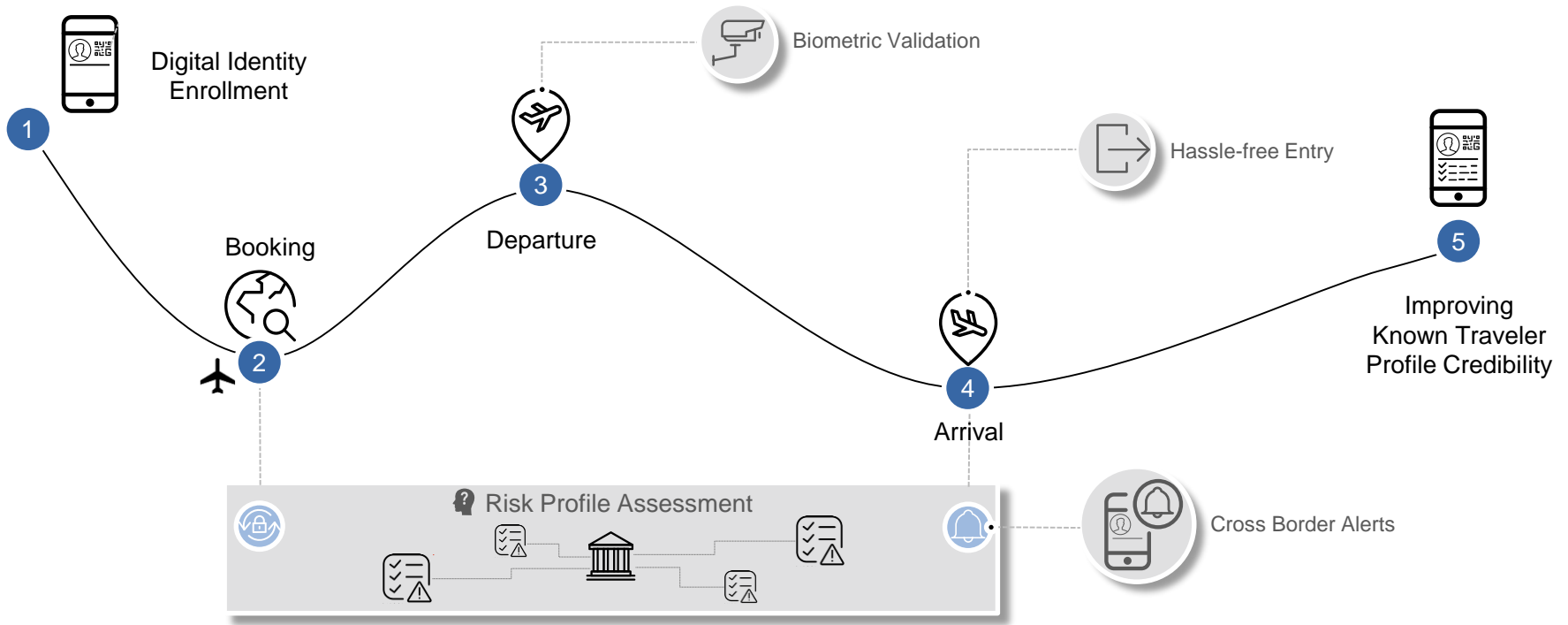


**Distributed ledger technology (commonly referred to as blockchain):** enables trust in information sharing without the control of one central authority; and



**Cryptography:** allowing an appropriate level of security in authorizing and sharing of information.

# KTDI Flow



# KTDI Pilot Project

- KTDI pilot is an excellent addition to ongoing initiatives related to innovation border management in the Netherlands, such as RTP-NL, seamless flow, EES etc.
- Proof of concept that will lead to development of a blueprint or roadmap for further expansion/analysis.
- Concept will be piloted in 2019 between airport pairs in Canada and the Netherlands; proposal: Montreal to/from Amsterdam Schiphol (KLM) and Toronto to/from Amsterdam Schiphol (Air Canada).
- Key partners:
  - Governments of Canada and the Netherlands and their respective aviation industry partners
  - World Economic Forum
  - Accenture Technology
  - WEF Shaping the Future of Security in Travel Working Group

A woman and a young girl with long blonde hair are looking out an airport window. The girl is holding a small piece of food. In the background, a KLM airplane is visible on the tarmac. The scene is framed by a white diagonal line.

Seamless Flow

**Schiphol**

# The Challenge



Mobility



Security



Economic Growth

Accommodate growth, guarantee passenger flow,  
ensure effective security and improve level of service



# Relevant Developments

- Implementation Self Service Passport Control
- Developments in US pre-clearance
- EU Smart Borders (2020/2021):  
European Entry Exit System/ETIAS (European ESTA)
- Brexit
- Larger than expected traveller growth

→ Conclusion: we need to develop a new concept!

# Towards a Seamless Passenger Flow

- Early passenger enrolment and the use of biometrics enables Royal Netherlands Marechaussee to improve efficiency through information based operations
- Re-using biometrics for other airport processes offers opportunities:
  - Biometric access to security
  - Biometric boarding
  - Biometric access to lounges
  - Etc

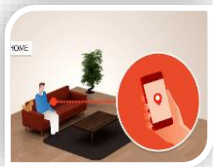
# Recap

- One encrypted Single Travel Token for all touchpoints >  
Your face is the key
- One platform for all public and private partners
- Integral Privacy & Cyber security by design (EU GDPR compliant)

# Where are we now?

- Pilot in a day-to-day operation
- Seamless Flow system expected to be ready in Q3 2018 for pilot in D2D operation,
- Pilot total flow > enrolment, border and boarding (first phase)
- Prove business case in a departure process

## Seamless Flow in 2018:



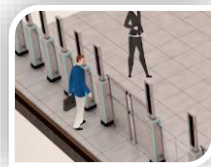
*Home  
enrolment  
under  
development*



*Enrolment  
for all  
touchpoints  
at airport*



*Biometric  
Bagdrop*



*Biometric  
Entry to  
Security*



*Security  
Screening*



*Biometric  
Border*



*Biometric  
Boarding*