

READID

# Mobile Identity Verification

Technological solutions for self-service systems  
in the context of the Entry-Exit System

*Confidentiality:*    *Public. 16 June, 2022*





**inno  
valor**



**Dutch company** founded 2013

Digital innovation & software



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POWERED BY INNOVALOR

**First and leading NFC-based  
identity document verification technology**

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## EES / ETIAS challenges

To modernize the management of external borders

Improving the quality and efficiency of external border

Balancing security and supervision in the process

Help Member States with ever increasing number of third-country nationals

Avoid logistic challenges at points of entry

PASPOORT PASSPORT PASSEPORT		<b>KONINKRIJK DER NEDERLANDEN</b> KINGDOM OF THE NETHERLANDS ROYAUME DES PAYS-BAS <small>document / document / document no. / no. du document</small>	SPECI2014
	Type / type      2 Nederlandse / nationality / nationalité <b>NLD Nederlandse</b>		
	S naam / surname / nom <b>De Bruijn</b> <b>e/v Molenaar</b> <small>S voornamen / given names / prénoms</small>		
	B geboortedatum / date of birth / date de naissance <b>10 MAI/MAR 1965</b> <small>B geboorteland / place of birth / lieu de naissance</small>		
	Specimen <b>V/F</b> <small>B datum van afgifte / date of issue / date de délivrance</small>		
	<b>09 MAA/MAR 2014</b> <small>T handtekening / signature</small>		
			H lengte / height / taille <b>1,75 m</b> D geldig tot / date of expiry / date d'expiration <b>09 MAA/MAR 2024</b> <small>I instantie / authority / autorité</small>
		Burg. van Stad en Dorp	



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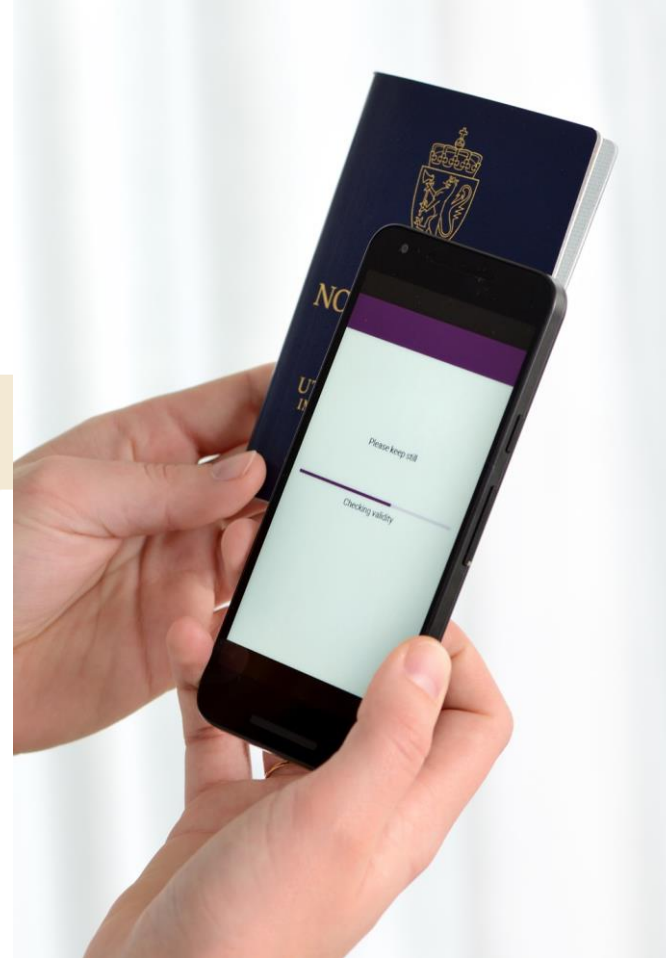


# Leverage what everybody has

government issued  
identity documents

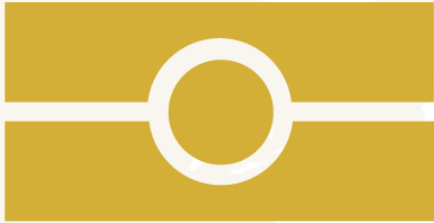
+

smartphone

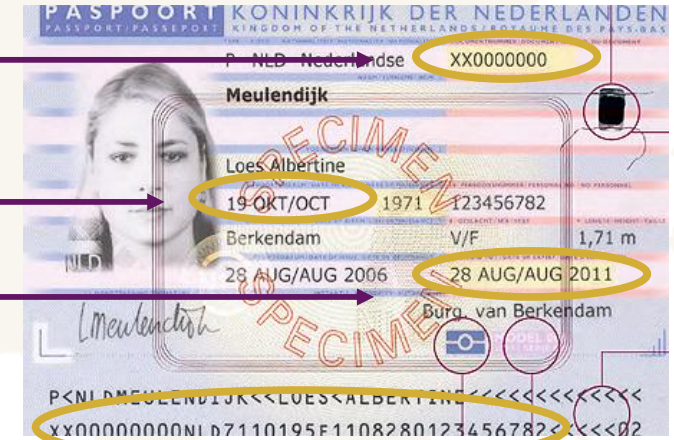
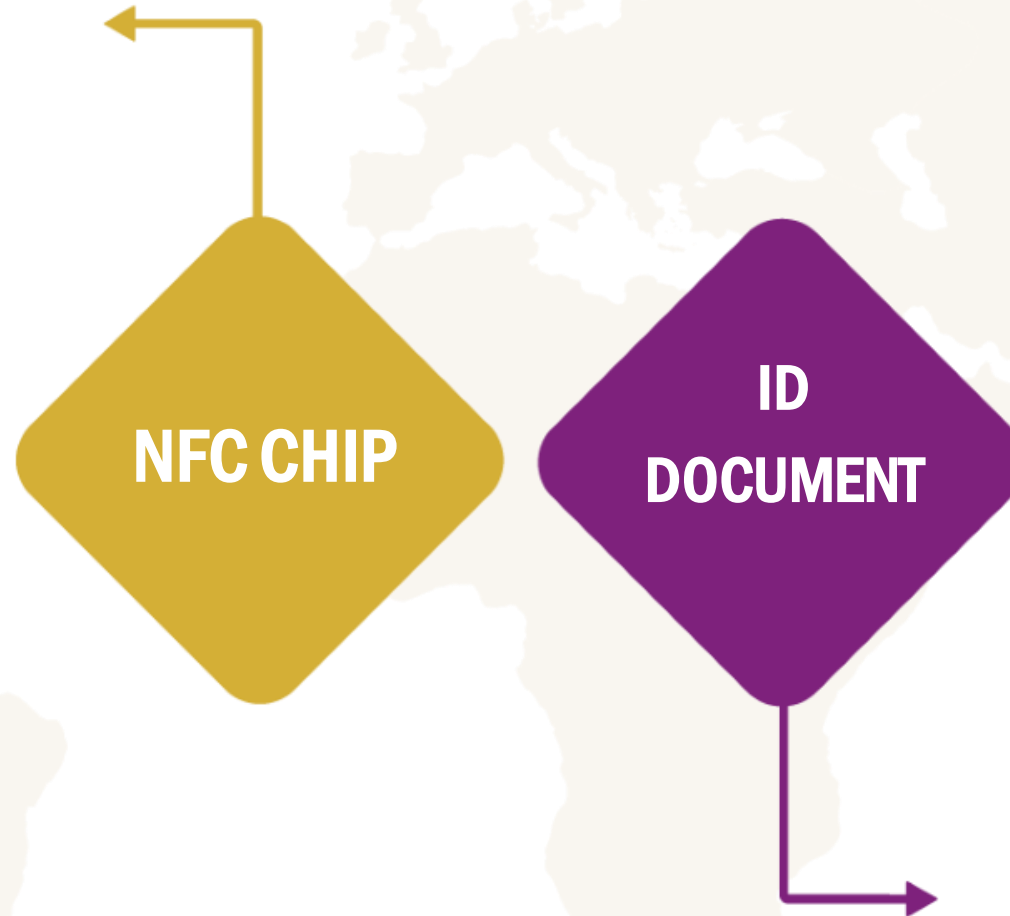


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# How do passport chips work?



- NFC chip: to verify authenticity
- Contains digitally signed personal information (name, date of birth etc.)
- With high-resolution face image



‘Password’ to access chip:

Doc number

Date of birth

Date of expiry

All in the Machine Readable Zone

# Two simple steps

Step 1

Scan MRZ & capture  
Visual Inspection Zone



1. SCAN

2. READ



Step 2

Read the chip (or pass to  
optical solution if no chip  
is available)

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# Which data is in the chip?

## Personal data

- Name
  - Surname
  - Given name
- Gender
- Nationality
- Date of birth
- Personal number - optional
- High-resolution photo
- Fingerprints, but in reality, difficult...

## Document info

- Document number
- Document code (e.g., P or I)
- Issuing state
- Date of expiry

## Optional

- Full name – longer and/or special chars
- Address
- Place of birth
- Iris, signature
- ...

# Face image from chip vs data page



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# Supported security mechanisms



Privacy

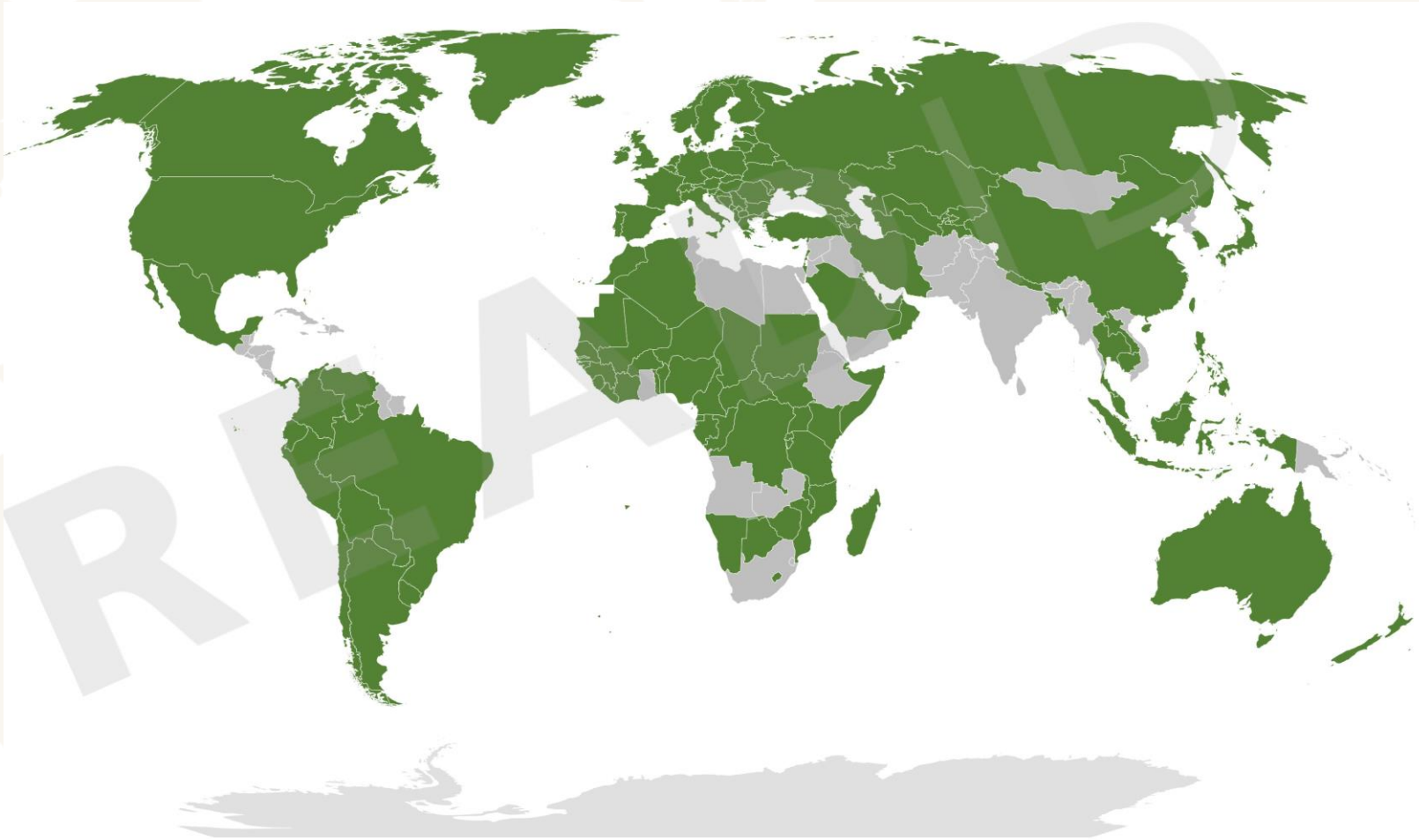


Authenticity



Clone Detection

# ReadID worldwide passport coverage



March 2022

96% conversion for some customers  
Wide coverage of eIDs and smartphones  
2.600+ proven devices

## HIGH CONVERSION

6,3 million in UK Home Office EUSS  
121.000 by Digidentity in a day  
737.000 in a week by Danish MDL  
99,97% availability UK Home Office  
Fast, and still speeding up

High user satisfaction –  
UK EUSS 86% “easy”  
Dynamic user guidance  
Verification in minutes

## SCALABLE

## EASY TO USE

High-level & low-level APIs  
EBA & GDPR compliant templates  
Orchestration with facial & optical  
Data page (VIZ) & MZR included

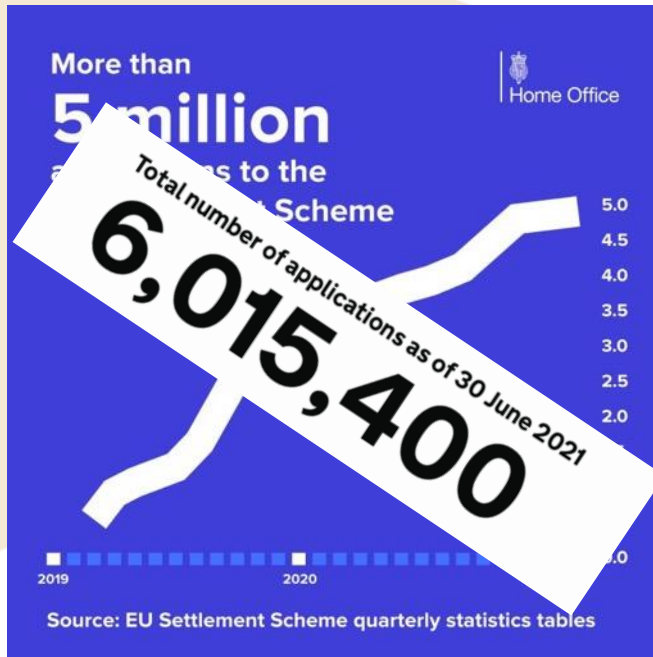
## SECURE

No known false accept  
Flawless reading of chip  
ISO27001, ISO27701, eIDAS component  
certified, SOC2 type 2  
BAC and PACE access control

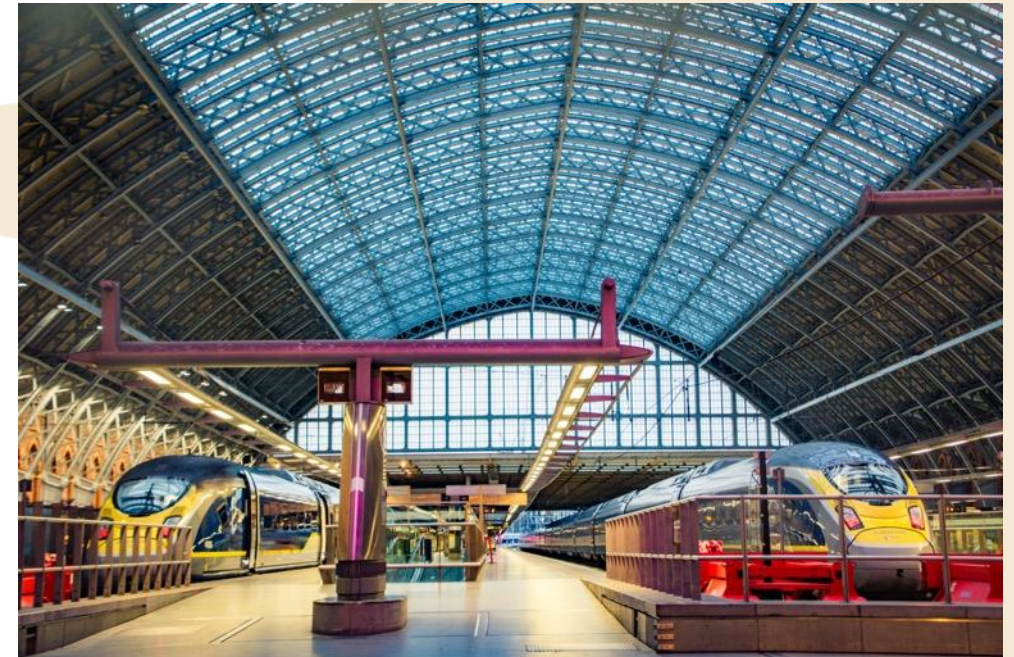
## SIMPLE TO IMPLEMENT

# Mobile Use Cases

## EU Settlement Scheme

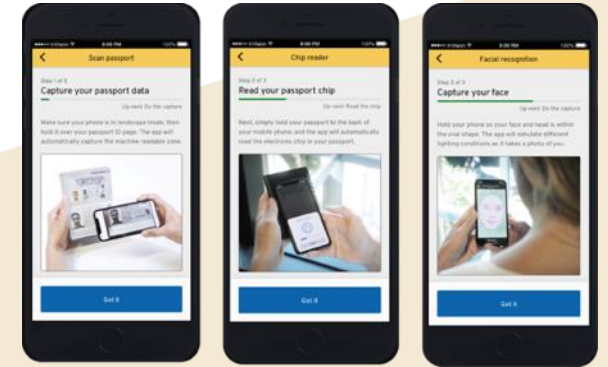


## Eurostar



# Mobile Use Cases EES / ETIAS

- Self-service, Remote, Pre-arrival
  - Send in biometric data from chip in ID document
  - Pre-check / classify third country nationals
  - Error-free and verified data
  - Optional: Holder (face) verification
- Empowering border officers, face-2-face
  - Verify identity documents instantly
  - Retrieve data without typing or scanning errors to enter into system
  - Anywhere...



# Customer journey sketch

- Pre-travel
  - *Notify at EU site*
  - *Download app*
  - *Submit and verify ID document - can be done while travelling – even with a shared smartphone*
  - Get data including photo from chip
- Pre-arrival
  - Assess type of visit – risk category
  - *Notify of moment of arrival*
  - Optimise logistics
- Entry
  - Face verification / taking extra picture
  - Additional biometrics





"If you want to be sure that the identity document is real and is in use right now then I see no real alternative to NFC and biometrics."

**Kalev Pihl, CEO SK ID Solutions**



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# Mobile Identity Verification

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*Confidentiality: Public, 16 June, 2022*

Try our demo app  
Scan the QR-code

