



eKYC, Identity Fraud Prevention,  
Remote Identity Verification

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Datasheet

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# Digital Onboarding Toolkit

Full Technology Stack for Remote Identity Verification



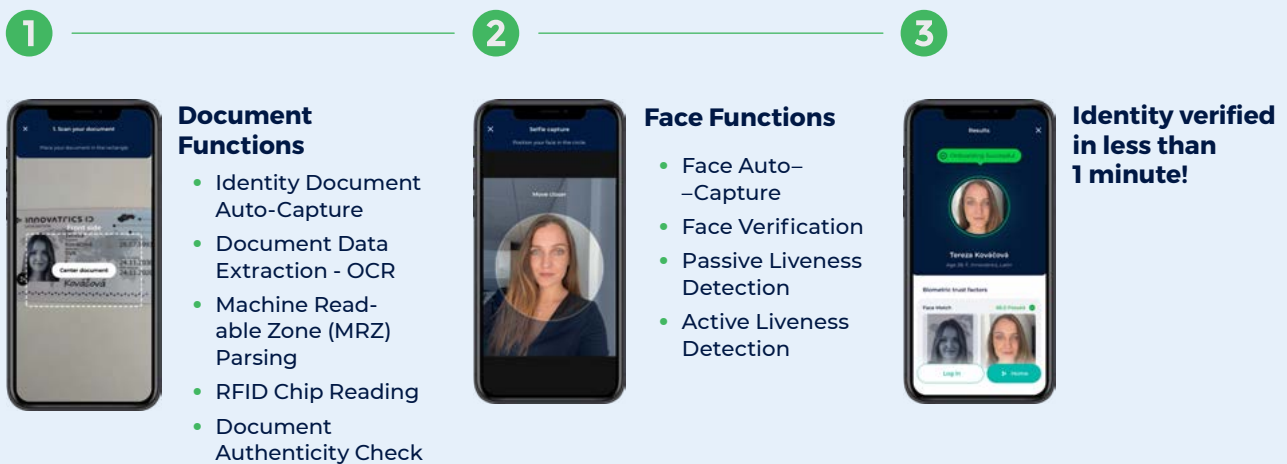
# Innovatrics Digital Onboarding Toolkit (DOT) is a full technology stack for developing remote identity verification applications.

DOT's components include NIST FRVT top-ranked facial biometrics, identity document data extraction & authenticity check, and iBeta Level 2 accredited liveness detection. Each component is developed in-house and well-documented for easy integration.

Digital Onboarding Toolkit allows the storage & management of customer biometric data for authentication and identity fraud prevention. Our technology has been successfully deployed in large-scale, mission-critical biometric solutions for governments and enterprises around the world.

## Identity Verification Technology for Solution Providers and Developers

Digital Onboarding Toolkit offers a complete set of well-documented server- and client-side SDKs & APIs, which makes it easy to integrate industry-leading biometrics into your mobile and web apps and solutions.



### Licensing

- Flexible model
- Pay per transaction
- Pay per user

### Platforms

**Supported Client Platforms**

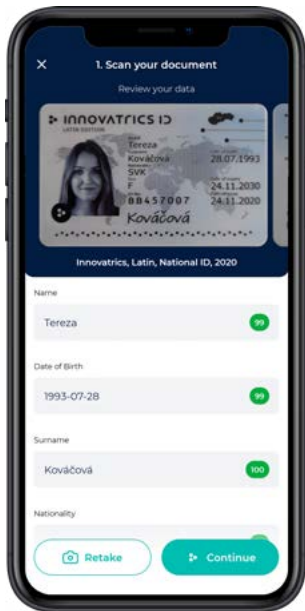
iOS
 Android
 Web

**Supported Server Platforms**

Linux

# Full Technology Stack from a Single Vendor

With our expertise in AI and biometrics, we have developed all the key components of DOT in-house. You can choose and combine DOT components and integrate them easily via API with other components to suit your own needs.



## ID Data Extraction & Authenticity Check

### Document Auto-Capture

In order to successfully detect and classify documents from a photo and to achieve high accuracy in data extraction, DOT automatically captures the image of an identity document or passport with the highest quality possible.

### AI-Powered OCR

DOT's Optical Character Recognition (OCR) technology processes the image of an identity document and extracts biometric & biographic data from it, including the portrait image of the document holder, document type, and its edition. We developed our OCR to support a wide range of alphabets, including traditional Chinese, Bengali, Cyrillic, and Arabic.

### MRZ, Barcode & NFC Readers

DOT mobile components can scan the MRZ field and extract all the data in under 100 milliseconds. Additionally, as it doesn't need to access a server, DOT can read the RFID chip contained inside the identity document via the NFC reader on a smartphone and quickly obtain the correct information from the scanned document.

### Document Authenticity Check

DOT also contains a set of features that can help detect some of the most common signs of suspicious onboarding attempts. These include data consistency checks (e.g. biometric validation and data cross-check against MRZ or RFID chips) and visual detection of tampering.

### New Document Annotation

Employing deep learning techniques and automating the majority of the process, it only takes a few days to train the OCR to read a new type of identity document.



## Face Verification

### Face Auto-Capture

With pre-configured quality parameters working in the background, we make sure the selfie is captured automatically when suitable for biometric identity verification.

### Face Verification

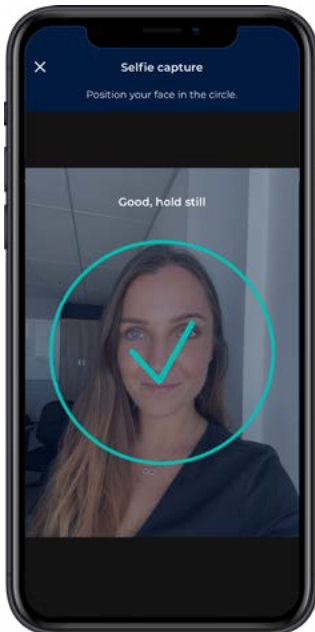
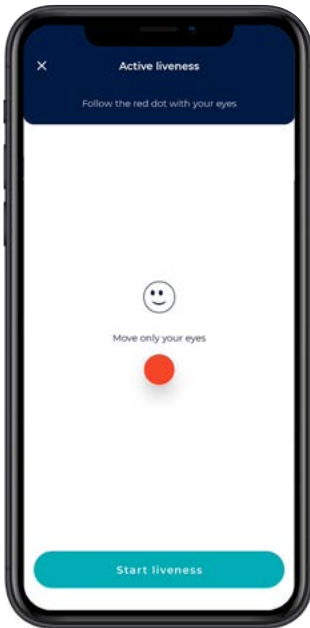
Our NIST FRVT top-ranked facial recognition algorithm compares the photo from the ID with the selfie of the user to verify their identity and prevent fraud.

### Selfie Login

After a user is successfully onboarded, our facial recognition technology can grant secure access to the user's account upon each login.



## Liveness Detection



We trained deep neural networks to detect a wide range of presentation attacks to make sure that the onboarded person is real and not a spoof.

### Active Liveness Check

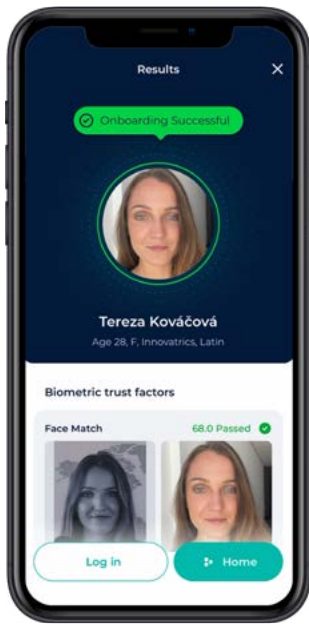
Requires users to perform a simple task such as following a moving object on the screen with their eyes. The algorithm monitors the movement of the pupils, evaluating whether the object has been followed correctly.

### Passive Liveness Check

Can distinguish a real face from a presentation attack without user interaction. Running in the background of the face capture process, it only needs one frame to tell if the person is real and live, making it more difficult to spoof.

It can run fully **on-device**, making the check instantaneous.





## Trust Center

DOT features AI-based identity verification. During the onboarding process, Trust Center collects all the biometric information, OCR data, and metadata for further analysis. All of these allow granular control to help you improve the risk assessment of the identity verification process.

### Identity Management System

Digital Onboarding Toolkit comes with an optional database where you can store and manage all the data collected during the onboarding process. Having a biometric identity management system in place, you're able to blacklist fraudsters and prevent account misuse.

### Trust Score

Trust Center groups collected data into Trust Factors and reports Trust Scores of each factor. Each of the factors can have a confidence score, showing how reliable the data is. You can control the threshold settings of the Trust Scores.

### Identity Verification

Based on the results summary from Trust Center, the onboarding is successfully accepted, rejected or referred for manual adjudication.

## Try Our Demo



[DOT.Innovatrics.com](https://dot.innovatrics.com)

Web Version



Innovatrics DOT

Android App



Innovatrics DOT

iOS App

## NIST Top-Ranked Facial Recognition Built In-House

Consistently among the fastest and most accurate in NIST FRVT benchmarks, our facial recognition algorithms have been deployed in some of the largest biometric projects in the world. With our own R&D Center and close cooperation with universities and research institutions, you have immediate access to innovations that are at the forefront of biometric research and technology.



## Partner Program

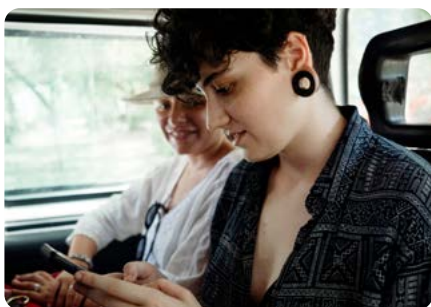
Through the Innovatrics Partner Program, you can enrich your portfolio using our proprietary facial recognition and identity verifica-

tion technology. Get direct access to practical marketing tools, demo products, technical documentation, and training. We help our

approved partners build identity verification solutions that enhance their business and customers' experience.

## Use Cases

Since we develop and own all our technology, DOT components can be used and configured to suit the specific needs of our partners, no matter what field. DOT is trusted by governments and businesses worldwide and has been used in various use cases, such as customer onboarding, ID data extraction, driver registration, employee registration, document issuance, visa issuance, SIM card registration, and bank account opening.



### Banking & Consumer Finance

Verify and register customers remotely via mobile app or web using Digital Onboarding Toolkit. Our facial recognition technology makes it a reliable biometric registration system for the banking and financial sector.



### Sharing economy

Digital Onboarding Toolkit will verify your users' identity not only upon sign-up to your services but every time they log in to their account. The whole process is paperless and completely online.



### Telco

Onboard new customers remotely while complying with regulatory demands for reliable identity verification.

## About Us

We are an independent EU-based provider of multimodal biometric solutions. Our algorithms consistently rank among the fastest and most accurate in fingerprint and face recognition. Since 2004, we have partnered with all types of organizations to build trusted and flexible biometric identification solutions. Our products are being used in more than 80 countries, benefiting more than a billion people worldwide.

### Contact

[sales@innovatrics.com](mailto:sales@innovatrics.com)  
[www.innovatrics.com](http://www.innovatrics.com)

**Brazil**  
+55 11 4210-5185

**Taiwan (R.O.C.)**  
+886 2 7741 4036

**Slovakia (HQ)**  
+421 2 2071 4056

**Singapore**  
+65 3158 7379

**USA**  
+1 404 984-2024

Building a World  
of Instant Trust