



Case Study | eVisa Application

eVisa Processing via Mobile or Web- based Biometric Self-identification

Online visa application
via smartphone

Pre-screening process
of applicants

The ability to collect high quality face or fingerprint data from a smartphone makes the concept of biometric-self identification suitable also for high security government services such as visa application process.

Challenge

Avoid a long and costly visa application process

Minimize health and security risks in the embassy

Digitize the visa application process

The government authority for visa and travel solutions needed to make the country more accessible while maintaining the highest security standards. There are different types of visas depending on the specific purpose of travel. The aim was to make the visa application process as convenient as possible for all applicants

without having to physically visit the embassy or consulate, thus eliminating health or security risks.

Concurrently, the new process should strengthen border security, immigration and border control.

Solution

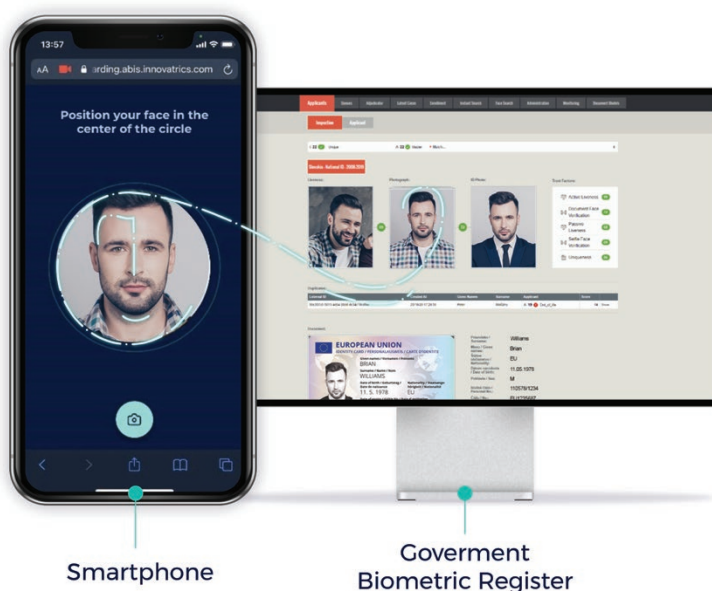
Remote identity verification using facial biometrics and liveness from a smartphone

Fingerprints scan via a smartphone

Possibility to use collected data against central ABIS for background checks

Innovatrics provided Digital Onboarding Toolkit (DOT) to be integrated into remote identity verification solutions for the web or smartphones. Innovatrics DOT was used to perform face matching to verify the captured selfie against the ID photo, while passive liveness was implemented against presentation attacks allowing for reliable self-identification.

To enhance border security and immigration control, the applicant's data are available for additional checks against central ABIS or against data from previous travel records. Since the legacy ABIS contains mostly fingerprint data, an innovative technology allowing fingerprints scan from a smartphone was added into the application process.



Results

Remote self-identification renders visa application **cheaper and faster**, making the country more accessible to visitors

Fully digital visa application process reduces errors and need for embassy staff

Biometric checks reduces the risk of identity fraud and irregular immigration

Yielding positive results from the pilot deployment at the embassy, the solution has been gradually implemented in one country to another. Given the accessibility of the visa application process, applicants especially from remote areas that do not have the destination country embassy on their territory can easily apply for their specific visa type from the smartphone. Moreover, the eVisa

application through websites or smartphones is considerably cheaper and faster, allowing more people to apply and visit the country.

The fully digital process allowing accurate and fast background checks has significantly decreased illegal immigration using reliable biometric identification from a consumer smartphone.

The power of efficient algorithm

Seamless Integration with Legacy ABIS Database

Innovatrics fingerprint and facial biometric technology can be fully integrated with legacy ABIS databases. Even with only a fingerprint legacy database, a smartphone can accurately scan fingerprints to verify a person's identity remotely.

eVisa Application as a Social Inclusion Tool

Regardless of the location, anyone can apply for a visa using only a smartphone or computer for a fraction of the cost while the host country implements a high level of security and health protocols.

Before

Compulsory **embassy appearance**

Potential risk only identified upon arrival at the embassy or border

Completely analog process

After

Online visa application via smartphone

Pre-screening process of applicants helps to identify potential risk beforehand

Fully digital application can be logged and checked against government registers

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.

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