



**GOVTECH CHALLENGE SERIES 2.0**

# **HOW TO QUICKLY AND RELIABLY VERIFY IDENTITY ON PREMISES?**



**Migration Department**

**GOVTECH** LAB





# CONTEXT

## CURRENT SITUATION

- The comparison between the image of an individual on premises and their ID document photo is done by employees' visual perception;
- At the moment, digital images, stored in the ID's or passports contactless chips, are not being used.

## SCOPE

- The Migration department performs around 30-40 thousand identifications every month;
- The identification takes from 1 to 5 minutes, but sometimes can take up to a few hours;
- Only 1-2 cases of identity fraud are identified every year.

## PROBLEM

- There is a risk of issuing the document to the wrong person;
- There is a risk to make a mistake in identifying an individual;
- There is a risk in creating a new identity;
- There is a risk of stolen identity;
- Possible threat to public safety and national security;
- Threat to the administration of justice;
- Longer migration procedures.

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# CHALLENGE

**We are looking for faster and more reliable identity verification tools to match the face of an individual on premises and their digital image stored in the identification documents.**

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# SOLUTION

## KEY FUNCTIONS

- Level 1: Verification of facial images – identifying the percentage of certainty that 2 images are identical. Sources of facial images: a living person; a digital photograph on the contactless medium of the passport; paper photo; digital photo database;
- Level 2: Level 1 + facial recognition in another image group (*identification*);
- Level 3: Level 1 and 2 + discovering the same facial image in two groups of images (*clustering*).

## METRICS FOR SUCCESS

- A higher number of detected cases of identity fraud;
- Shorter migration procedures for identity verification.

## IMPORTANT ASPECTS

- The facial image cannot be saved or transferred to a third party for image verification purposes;
- The answer must be given instantly;
- The application must run on a mobile device and a desktop computer;
- The comparison of the images must consider the possible changes in the image of the face due to age, illness, surgery, alcohol or drug addiction, changed hairstyle, beard or moustache, headwear and other variations, including facial expressions, head positions;
- Ability to save the comparison report.

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# OPPORTUNITIES

## INSTITUTION

- If required, we can provide material for prototype testing;
- If we like the solution, we are prepared to procure the solution to such challenge;
- If we really like it, we will not only buy but also spread the word of the solution.

## MARKET

- The product does not need to be created from scratch as there are similar products in the market;
- There is a high demand for precise and fast identification in both the private and the public sector.

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