Safe and fair AI- based drug detection

# Information to the participating person

Do you want to participate in the research study *Secure and fair AI-based drug detection*? In this document you get information about the project and what it means to participate.

**What kind of project is this and why do you want me to participate?**

In 2018, Sweden had the highest drug-related mortality rate in Europe, 81 deaths per million inhabitants. That is almost four times more than the EU average. In 2019, 10% of all traffic accidents were drug-related. The police also see that drunk driving under the influence of drugs has increased by 38% in recent years, while drunk driving under the influence of alcohol has decreased. Today, urine samples are mainly used in Sweden to drug test a person, a method that is time-consuming, unsustainable and, above all, violates integrity. A digital method for detecting drug effect would be of great social benefit for the society. This would, among other things, mean the possibility of implement drug tests in vehicles in order to reduce the number of fatalities and injuries in traffic and provide law enforcement agencies with a screening tool to more easily identify people affected by drugs .

In order to be able to develop a digital method for detecting drug exposure, data in the form of short film sequences are needed on the eye areas of drug-affected and non-drug-affected people. The purpose of the data collection is to develop a software that will be able to learn to distinguish a drug- affected eye from a non- drug- affected eye.

Participation in the research project is voluntary and you, who do not use drugs, can register via info@eyescanner.se . If you are in a situation where drugs are judged to be present or if you have an ongoing treatment for your use of drugs, you have been asked about the participation of healthcare staff.

The research principal for the project is Eyescanner Technology. The research is carried out in collaboration with Sahlgrenska University Hospital, RISE research institute, Qamcom research & technology.

## How is the study done?

Your participation means that your face, with a focus on the eye area, is filmed for about 30 seconds with the help of a mobile camera. Under the filming, you will perform some simple eye movements. The filming takes place at a distance of about one meter. Depending on which selection group you belong to, you will have to complete one or two filming. You will need to answer questions about age and gender, if you are taking any drug-classified medicine, your possible intake of alcohol, sugar or energy drinks on the same day as your participation. After filming, the eye area will be cut out of the film. Only the eye area will be analyzed.

## Possible consequences and risks of participating in the study

The study is considered risk-free as it does not involve any physical intervention on you as a test person. If you have experiences of discomfort when filming with a mobile camera, you

should refrain from participating in the study. If you feel uncomfortable during the test situation, you can cancel at any time. If you subsequently feel negative emotional effects linked to the test situation, return to the research manager and we will offer you conversational support with a leg. psychologist.

## What happens to my information?

The project will collect and register information about you. The information that is analyzed is only a clipped film sequence of your eye area as well as information about gender, age, possible medication and results of urine tests if one is provided.

Information and film sequences are pseudonymised and stored in encrypted files that only project managers and responsible researchers have access to.

Each film sequence of the eye area is given a test code. The code is linked to information about gender and age. The test code is then linked to the results of a urine sample if one is provided. The film sequence is saved separately on an encrypted, non-cloud-based server at the research institute RISE or SU depending on the sample group. The information will be treated with high confidentiality so that unauthorized persons cannot access it. When the project is completed, what has been collected and processed in the project will be saved for 10 years. If the material is judged to have a lasting value, it will be preserved for the future.

Eyescanner Technology Sweden AB is responsible for your personal information. According to the EU Data Protection Regulation, you have the right to access the information about you that is handled in the study free of charge, and if necessary get any errors corrected. You can also request that information about you be deleted and that the processing of your personal data be restricted. However, the right to delete and restrict the processing of personal data does not apply when the data is necessary for the research in question. If you want to take part in the information, please contact Olof Mogren at RISE ( olof.mogren@ri.se ). The Data Protection Officer can be reached on 08-657 61 00. If you are dissatisfied with how your personal data is processed, you have the right to submit a complaint to the Privacy Protection Authority, which is the supervisory authority.

## How do I get information about the results of the study?

When the research is completed, you as a participant will be able to take part in the results by reading the scientific articles that will be published. As a participant, you will not be able to see your individual results as they are not linked to personal data. The study will only focus on how the drug has an effect on the eye area. No other findings will be taken into account.

## Insurance and compensation

You who participate in the study will receive a gift card from Ica of 200 SEK. There will also be insurance coverage for you who are a participating researcher.

## Participation is voluntary

Your participation is voluntary and you can choose to cancel your participation at any time. If you choose not to participate or want to cancel your participation, you do not have to state why, and it will not affect any ongoing care or treatment.

If you wish to cancel your participation, please contact the person responsible for the study (see below).

## Responsible for the study

The main researcher for the study is Olof Mogren, RISE, olof.mogren@ri.se / 010-5165000 .
Responsible for the study is Jenny Johansson, leg. psychologist, info@eyescanner.se