

SIZE4FACE

MOBILE APPLICATION AS A DECISION
- SUPPORT AND EDUCATIONAL TOOL FOR
RESPIRATORY PROTECTION

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1 INTRODUCTION

An app designed to support the safe use of respiratory protective equipment (RPE) in the workplace. The app was developed in response to the growing need for tools that help ensure proper fit of half masks based on the user's individual characteristics. It includes theoretical materials as well as practical tools, such as face measurement, databases of filtering and elastomeric half masks, a calculator for safe usage time in environments with elevated CO₂ levels, and a disinfection log. All information included in the app is sourced from the literature and has been confirmed or developed through laboratory research.

2 KEY ADVANTAGES



WORKS OFFLINE

Full functionality independent of internet connection



AVAILABLE TWO LANGUAGES

Completely available in English and Polish



NO REGISTRATION REQUIRED

No account or login needed - start using the app immediately after installation



FULL USER ANONYMITY

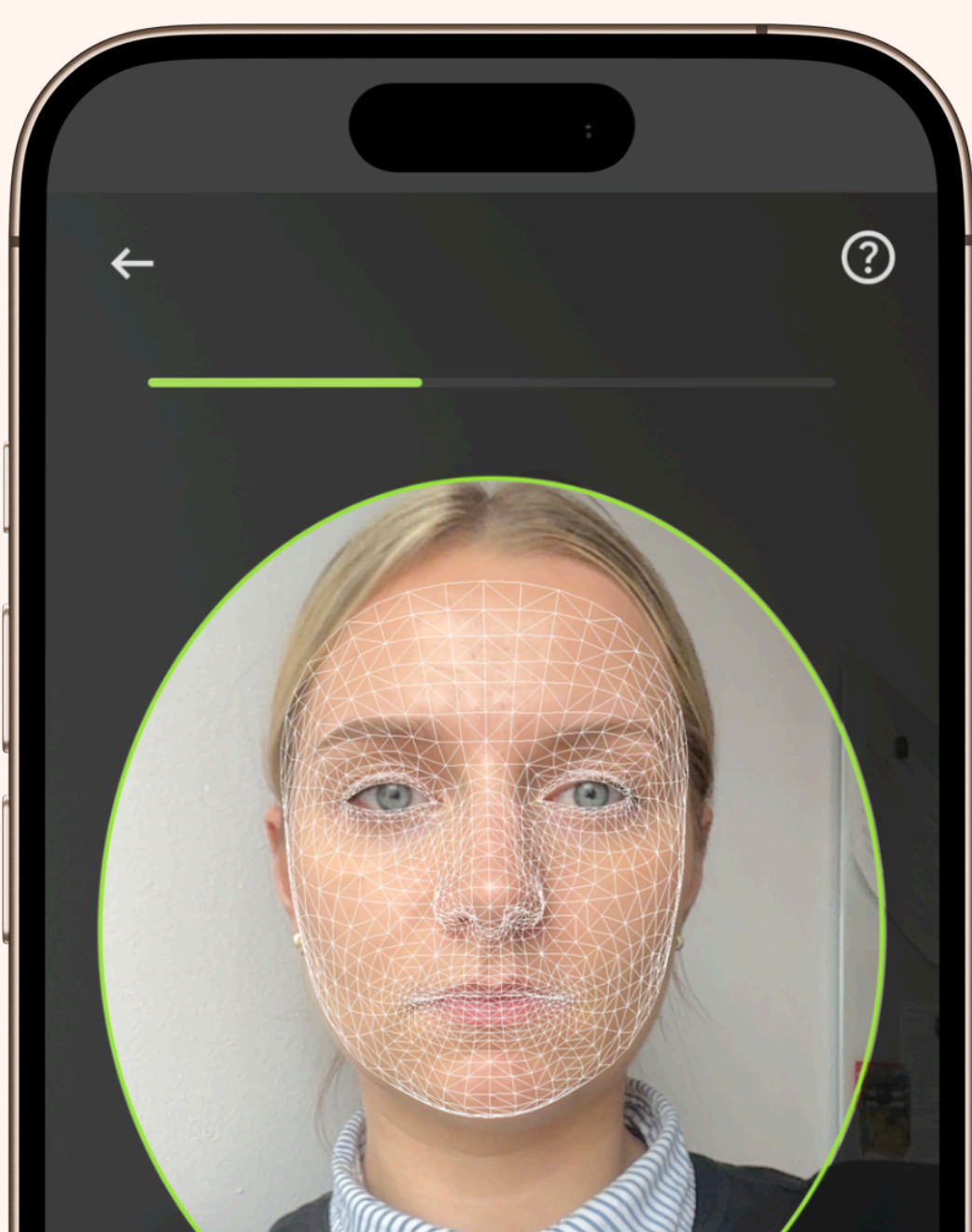
No photos are taken during face measurement and no personal data is stored



3 FEATURES

FACE MEASUREMENT

The app scans facial dimensions using phone's front camera, performs calculations and assigns face to one of the five head models according to ISO 16976-2:2022: small, short-wide, medium, long-narrow, large.



THE MEASUREMENT IS PERFORMED IN REAL TIME

DATABASES

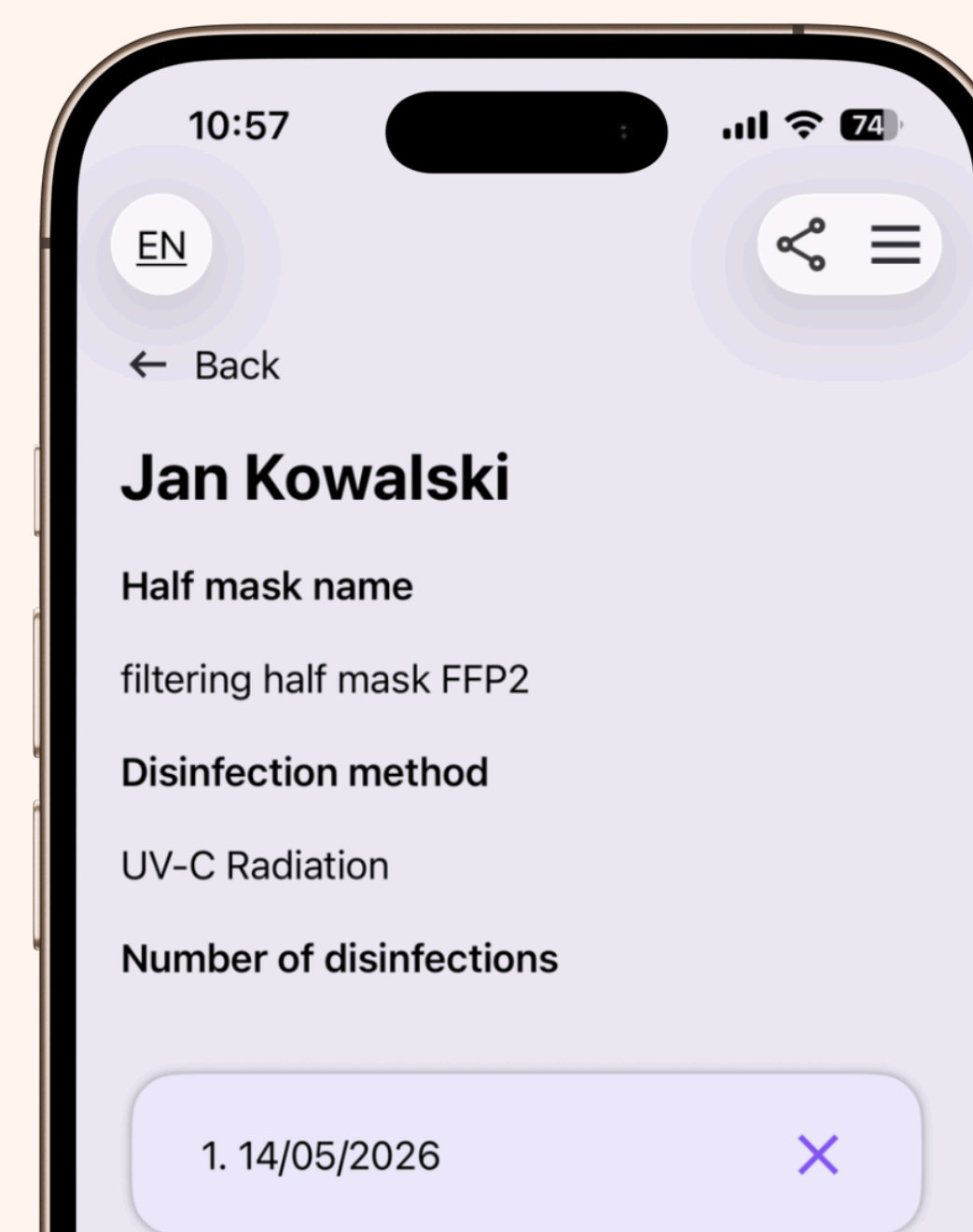
Two databases of half masks - filtering and elastomeric respirators. Each model has been tested and assigned to the head size according to ISO. Knowing your face size makes it easier to choose the right half mask.



EASIER SELECTION OF HALF MASKS

DISINFECTION LOG

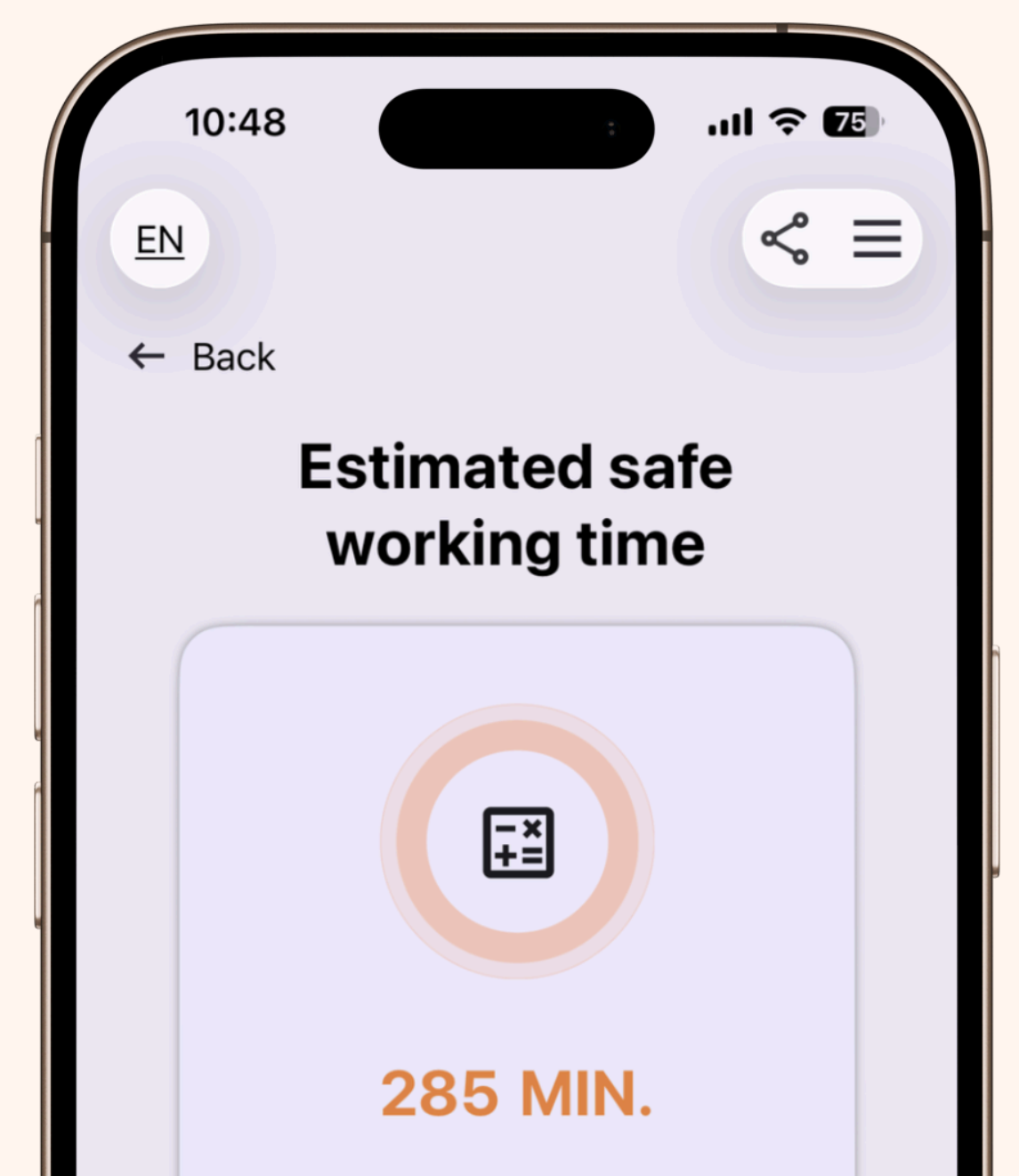
Monitors number of disinfections using three methods developed in the laboratory: ozonation, UV-C radiation and spraying 70% ethyl alcohol. You will be notified when the half mask has reached the limit of possible disinfections and needs to be replaced.



CONTROL OVER THE NUMBER OF DISINFECTION

SAFE USE TIME CALCULATOR

Calculates the maximum safe usage time depending on CO₂ concentration in the environment and work intensity. The algorithm was developed as the result of scientific research.



DETERMINING SAFE WORKING HOURS

4 SUBSTANTIVE CONTENT

SELECTION AND FIT

Information on how to select respiratory equipment according to the type and concentration of hazards to ensure effective protection.

DISINFECTION AND MAINTENANCE

Information on proper maintenance and disinfecting procedures - ozonation, UV-C radiation, spraying 70% ethyl alcohol.

SAFE USAGE TIME

Information on oxygen deficiency and the consequences of working in elevated CO₂ concentrations.

GENERAL INFORMATION

User manuals and terms of use of the application.

AVAILABLE ON



Google Play



App Store

This task was completed on the basis of results of research carried out within the scope of the 6th stage of the National Programme "Governmental Programme for Improvement of Safety and Working Conditions", funded by state services of the Ministry of Family, Labour and Social Policy, task no. 1.ZS.08. Development of criteria, testing methods and safe usage times for filtering respiratory protective equipment, depending on the concentration of carbon dioxide in the inhaled air and specific working and living conditions and task no. 1.ZS.09. Development of physical and chemical maintenance and disinfection procedures for filtering respiratory protective equipment. The Central Institute for Labour Protection - National Research Institute is the Programme's main co-ordinator.