



CrewCare

05/06/2024

What is "CrewCare"?

CrewCare aims to improve the maritime safety and wellbeing by analyzing the behavior of the crew and the data obtained from equipment (AIS, radar, GPS/INS,...)



We're the guardians of our people

That shipping companies need, providing insights that allow them to optimize their team and maximize performance.

Think Moneyball for the maritime industry.

Our data-driven approach ensures that you have the best team possible, based on the latest data and analysis.

Join us in transforming the maritime industry with the power of AI - welcome to Nautical-Nexus.



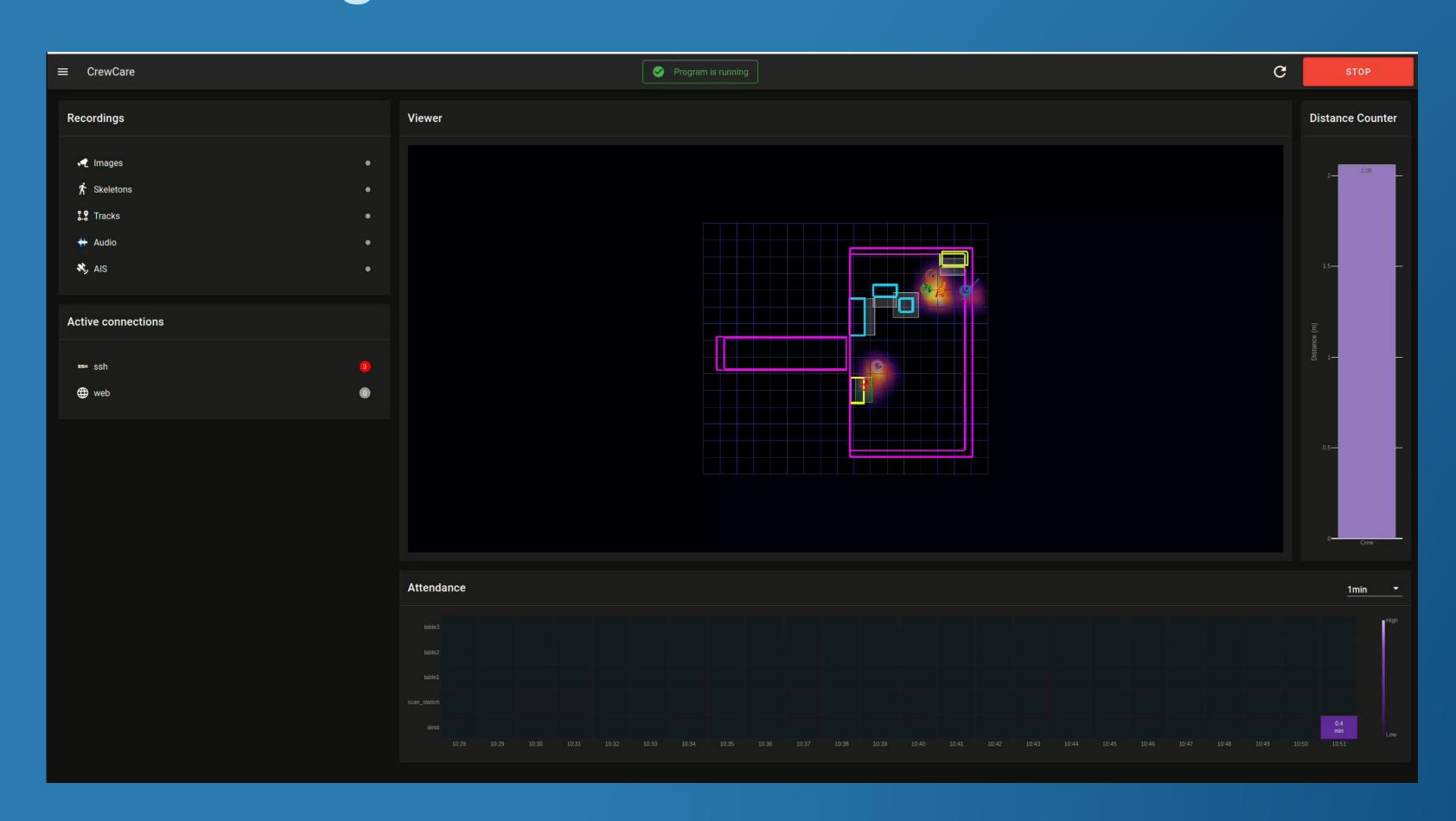






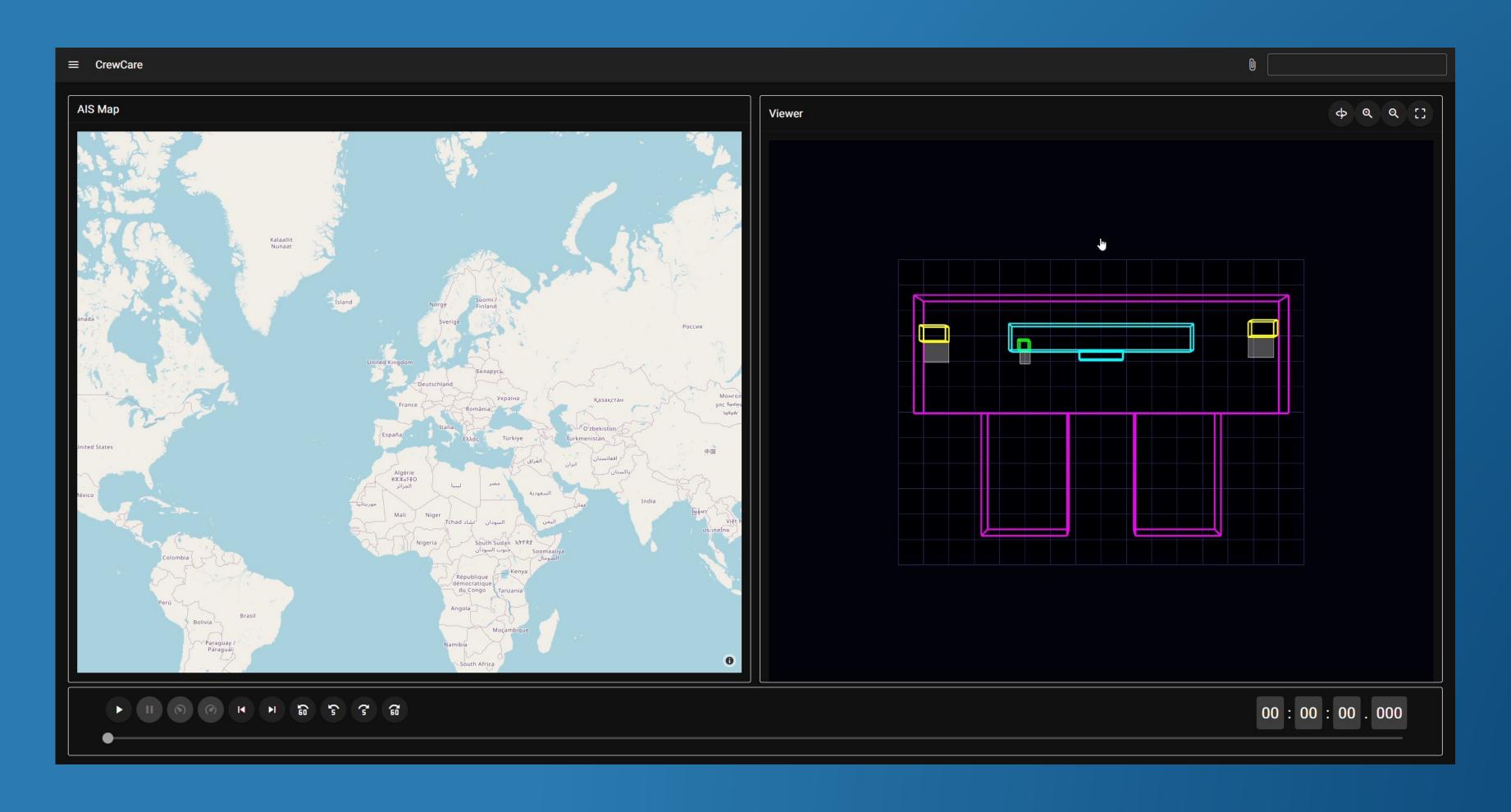


Recording & Dashboard





Offline Analysis





3 functions

- Recording crucial data (VDR 2.0) in a more complete and more anonymous way: VDR + audio transcripts and 3D skeleton data.
- **2. Real-time monitoring & alarm system** using dashboarding tools that measure compliance to best practices: attendance, fatigue, distractions, fall detection, ...
- 3. Offline analysis of crew behavior and usage of the bridge equipment to gain insights that are helpful for bridge design, education,...



Features

Proactive & predictive process

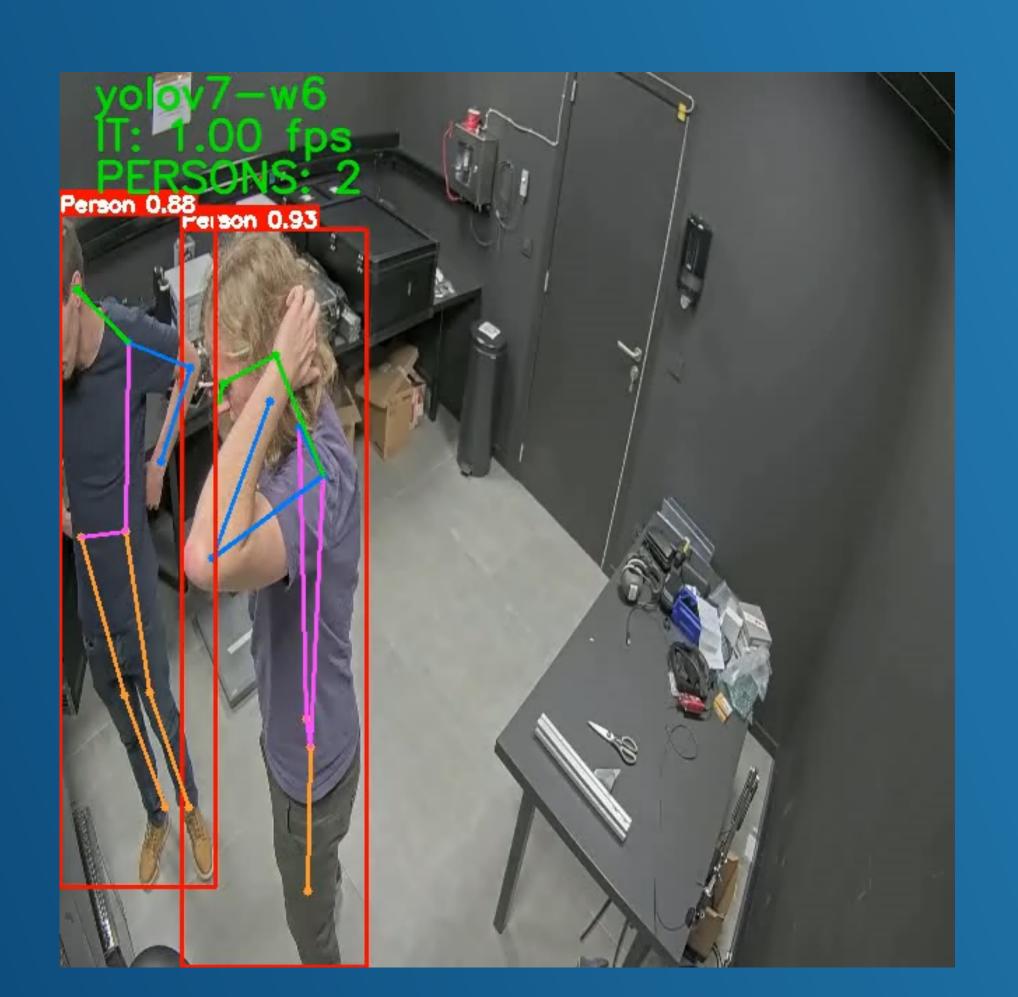
- Fatigue measurement (Optional)
- Positioning & location
- Med' Emcy
- Remote audits & Risk Assessment
- Simulator training
- Muster station
- Incident investigation
- Continues improvement

Vessel / Platforms

- Bridge •
- Engine Room •
- Cargo control room
 - Accommodation •
- Crane Lay down area •

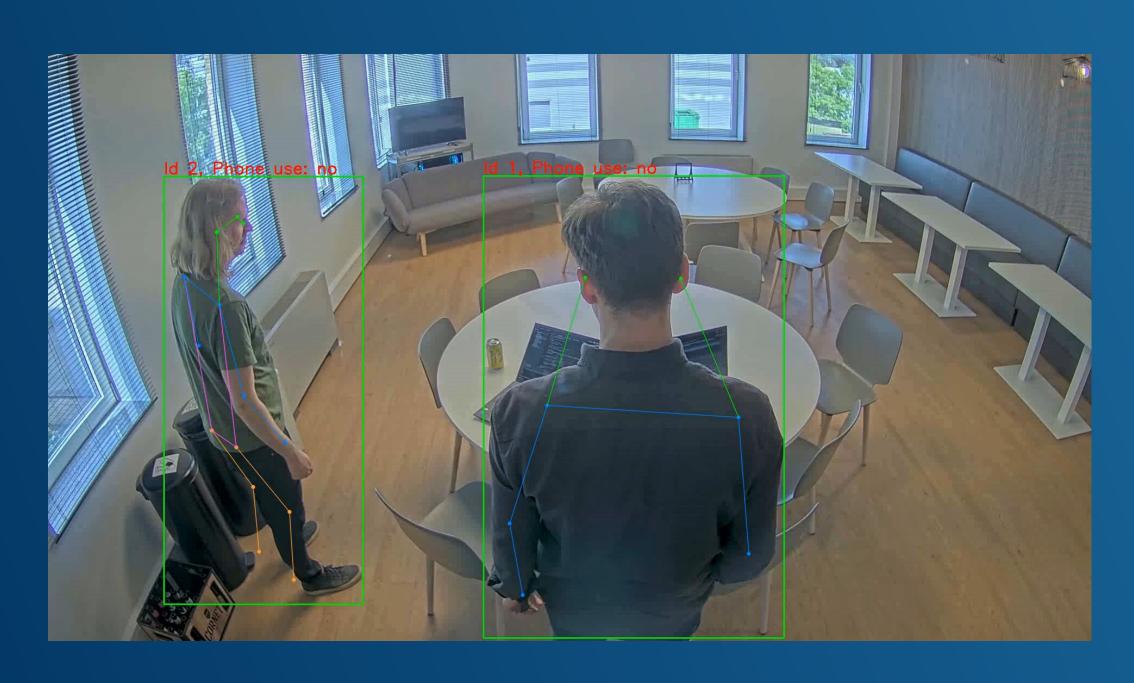


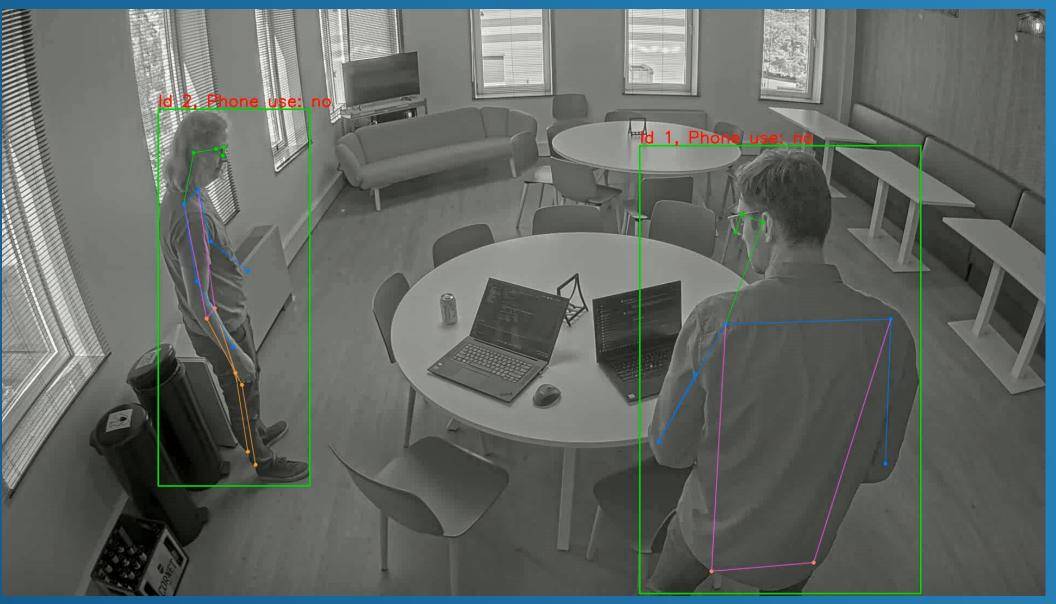
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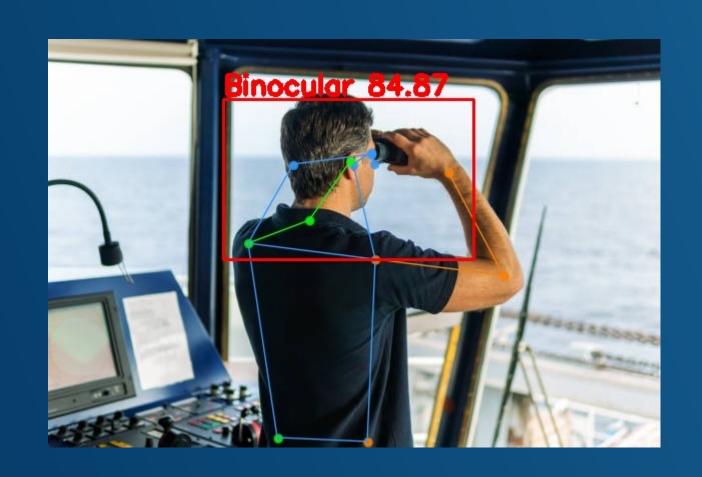
Mobile phone usage test

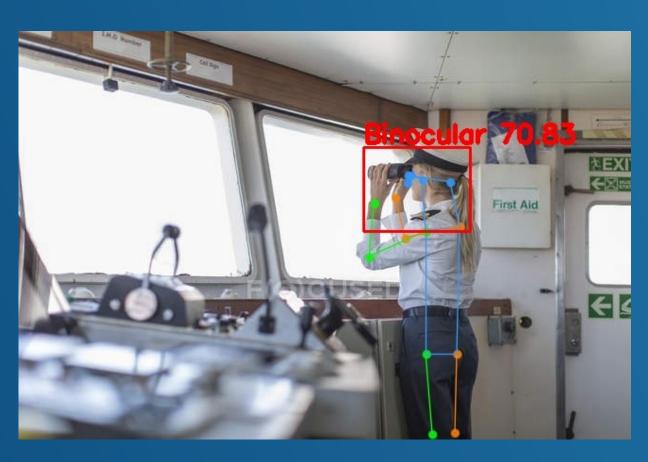






Binocular usage test

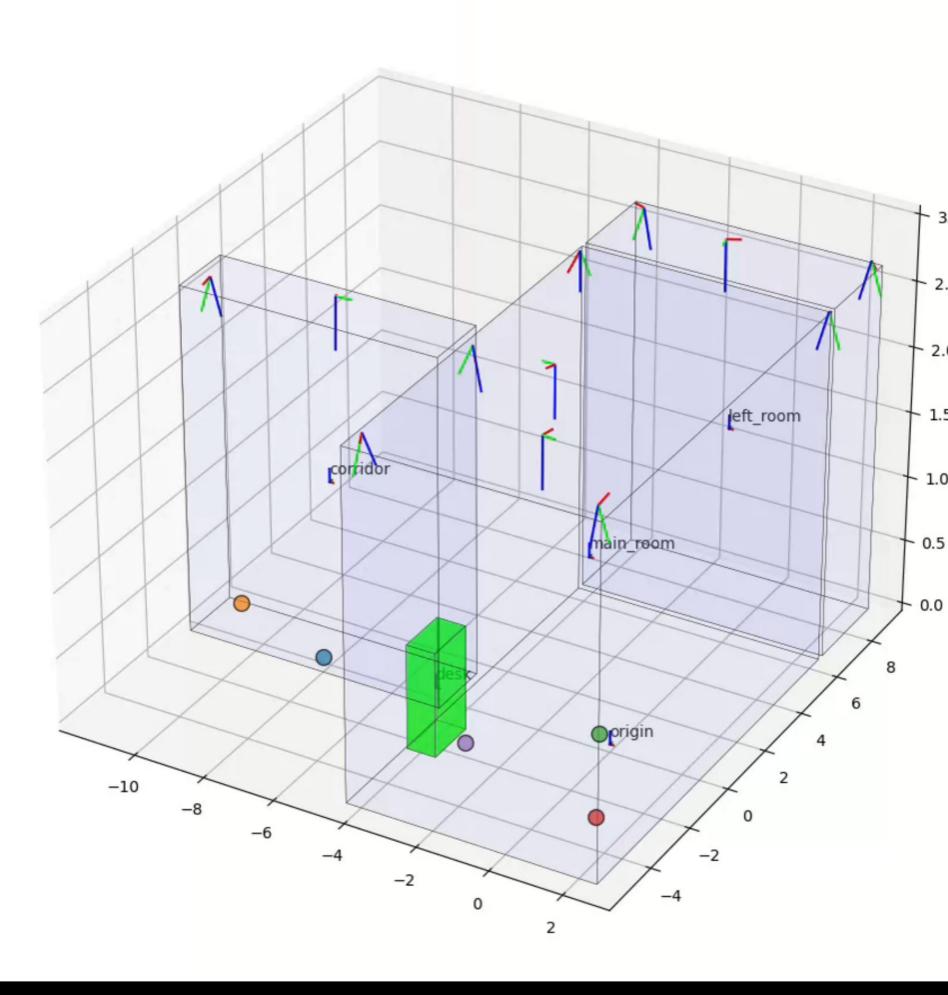


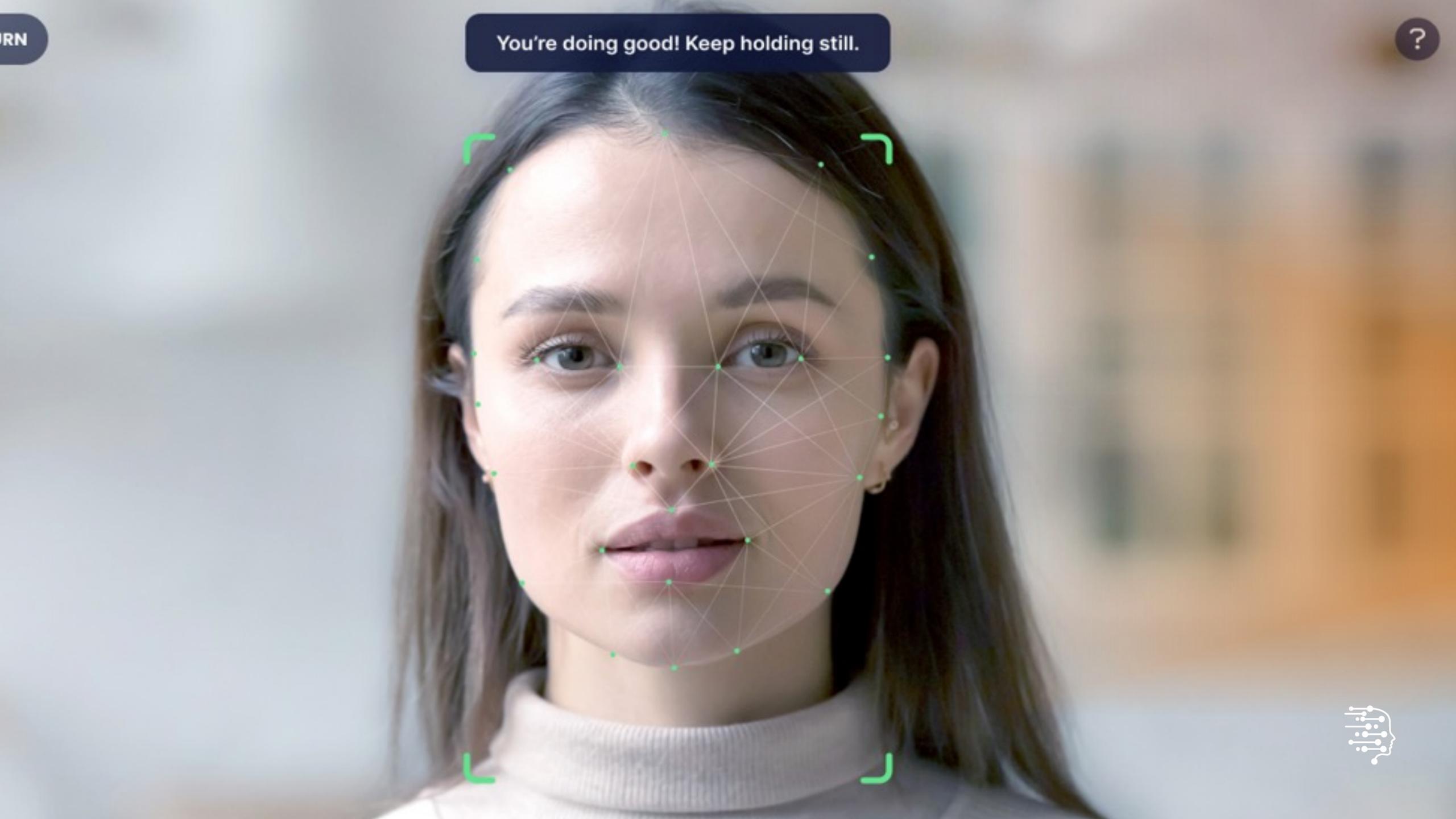




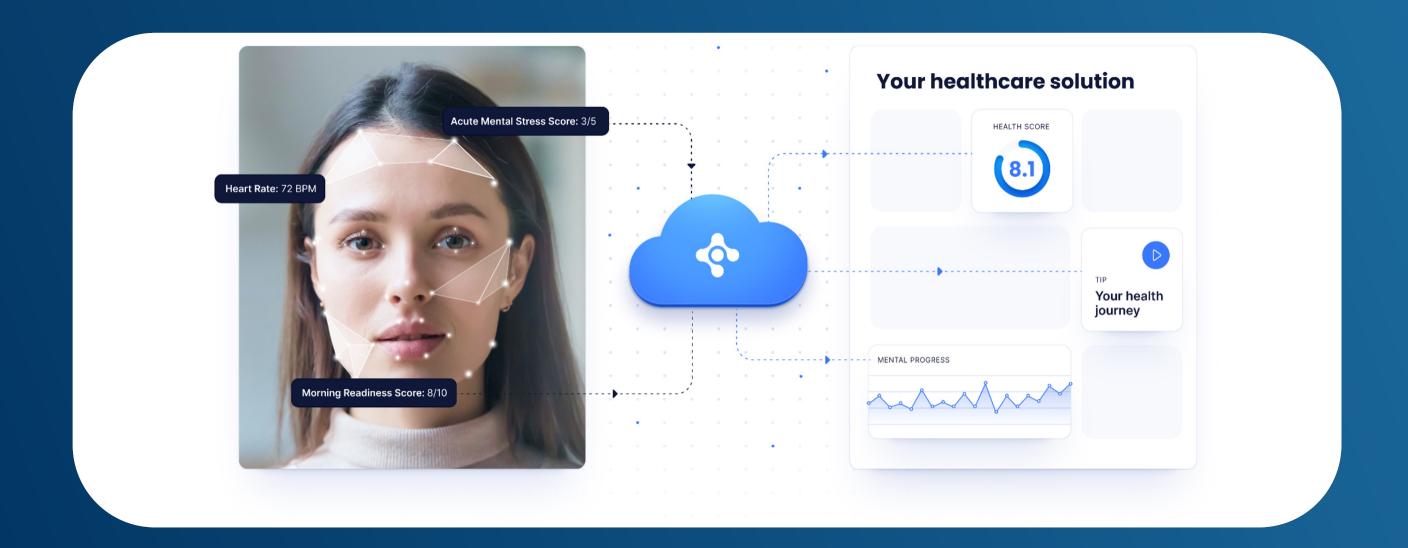


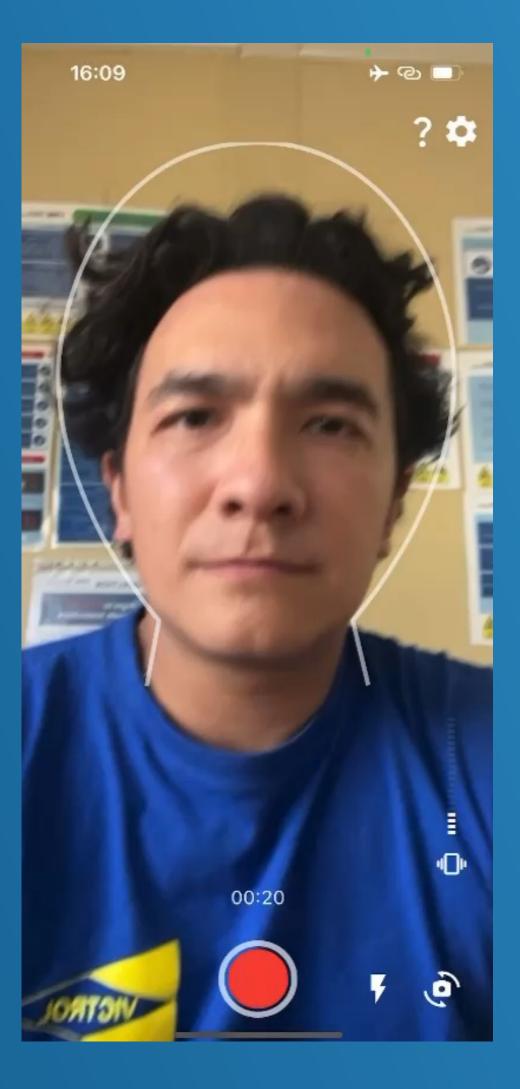






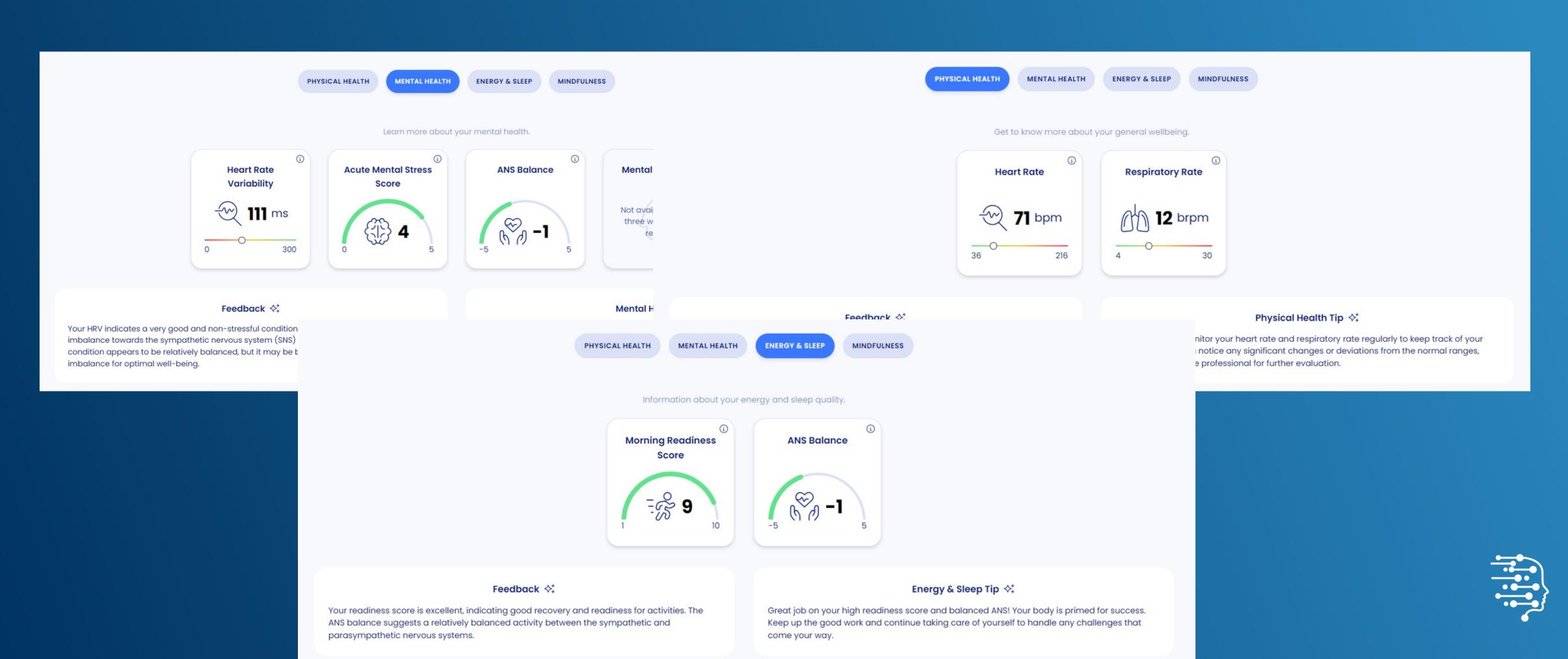
Health assessment test:







Health assessment results:



Ethics & GDPR

Ethics

Goal of the application should align with company ethics: a tool to help the crew to follow guidelines.

GDPR

Addresses privacy concerns in different project phases

During development: ask consent of crew to use raw image data for AI training and testing

Once operational:

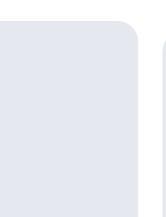
- Data is fully anonymized (stick figure data) and comprehensions (KPIs) are stored in a database
- Raw recordings of last xx hours are stored securely (encrypted, only to be opened by authorized bodies) for VDR 2.0?

Al-Act

Restricts use of AI applications: currently not finalized, but important to track.



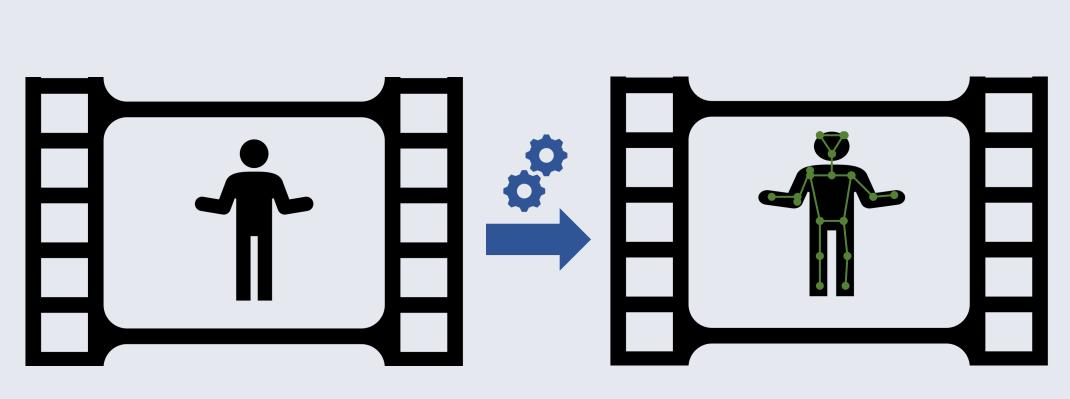
Recording

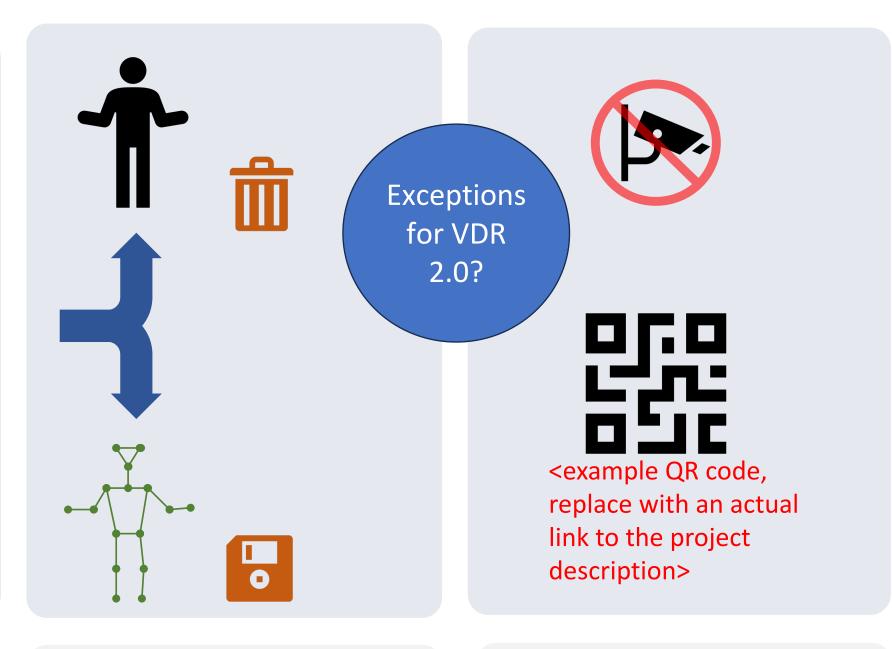












Smile! This workplace is being monitored with cameras, for a research project focusing on bridge safety through behavioral analysis.

We are committed to protecting your privacy and want to inform you as well as possible on the purpose of these recordings.

For this project, we are interested in **analyzing motion behavior** and patterns. Our clever processing algorithms process the video feed we are capturing and determine a so-called **skeleton**, which is an abstract representation of yourself as a **stick figure**.

By analyzing this **anonymous** stick figure, we can then determine several motion patterns we're interested in.

This anonymous stick-figure representation is the **only data we are storing** to disk.

The video feed used as input for the processing is not stored or retained in any way.

In case you do not want to be included in any analysis, you can simply push the red button, which will stop the recording and processing immediately.

If you have more questions, or wish to know more about this project, you can visit the project page linked through the QR code above.