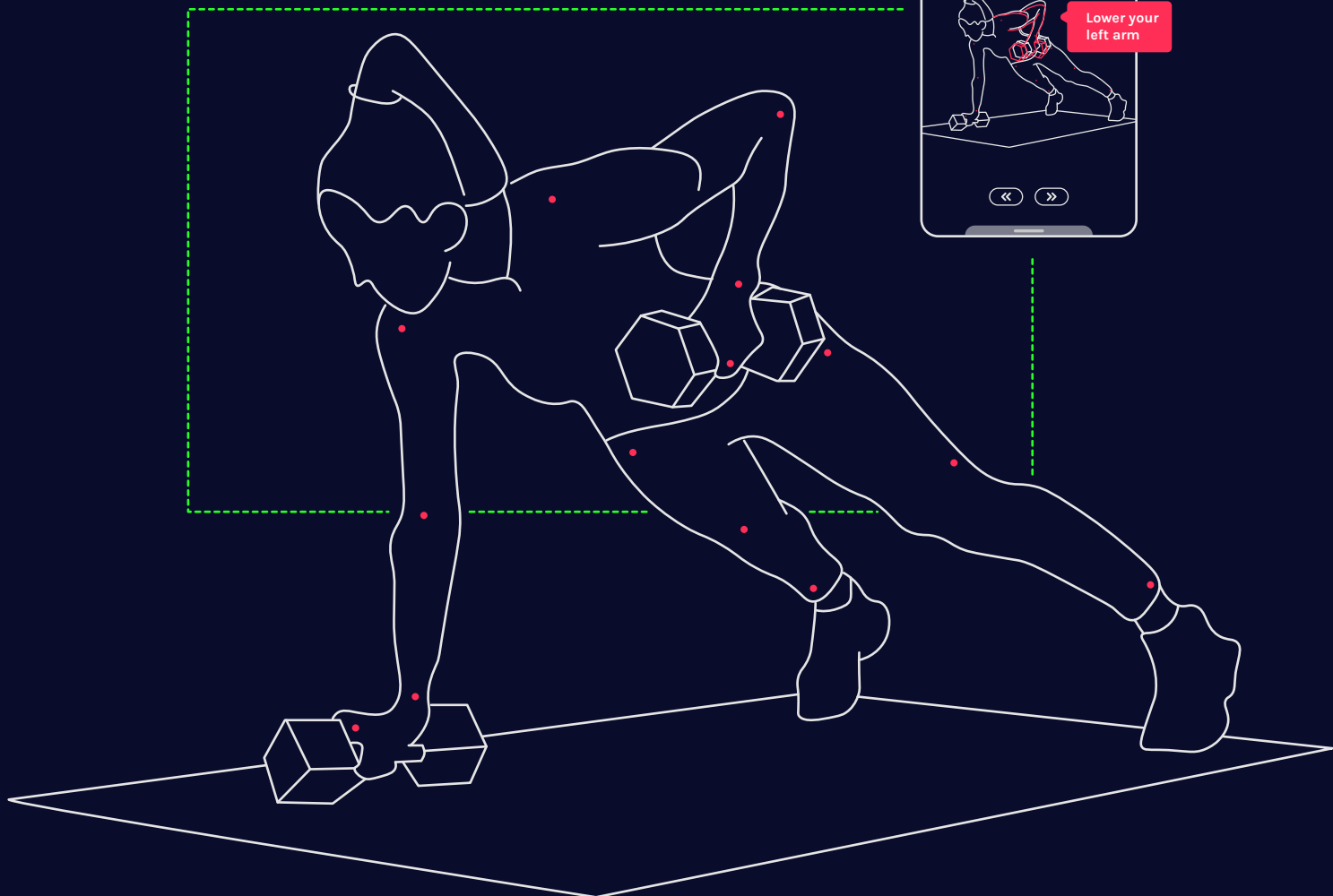




# S.C.A.P.E - I.F —

## A PLATFORM THAT UNDERSTANDS YOUR EXERCISE





## THE PROBLEM

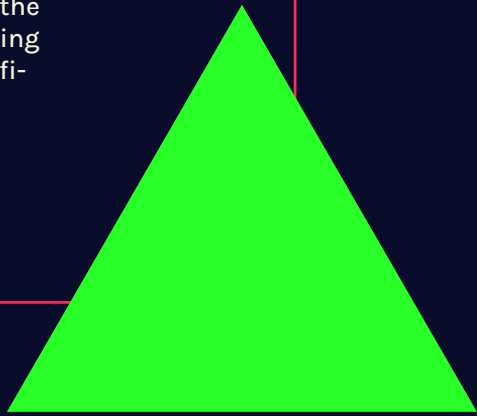
A 2019 study, published in Mayo Clinic Proceedings, indicates that 37.5% of study participants within 6 weeks reported at least one injury during a training session in high-intensity group workout classes (HIIT, circuit training, or any other vigorous forms of weight training).

**It is as we imagine 1 out of every 5 gym attendees will hurt themselves within the next month or so.**

When performing physical exercises, it is difficult to evaluate if the activities are performed properly. This can lead to less efficient exercise, serious injuries, and health deterioration.

Less efficient exercise means that improvements will be seen over a longer period of time than necessary, or no improvement will be seen at all, meaning that a person can lose their motivation for performing physical activities.

Moreover, as for global COVID-19 pandemic, a lot of people that are engaged in physical activities are demotivated in getting to sports facilities for training assistance, limiting them to performing exercises at home without physical assistance or with the assistance being via video call, making them more prone to injuries or inefficient workouts.



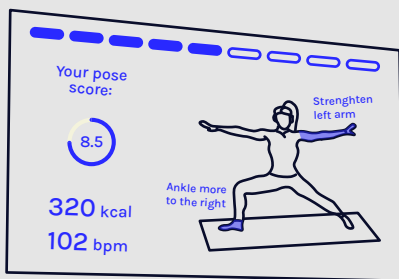


## OUR SOLUTION

Our proposed solution (clothing with built-in sensors and mobile app) works as a complete sports ecosystem:

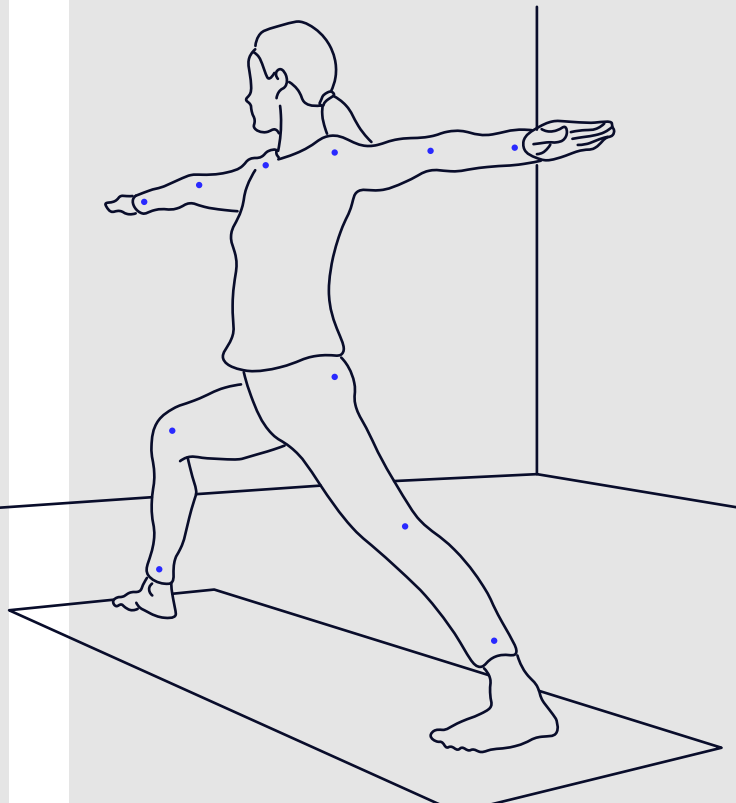
### FOR TRAINERS

To use this platform to create more relevant workouts, train their clients on the spot or remotely, and better understand their clients' progress and performance.



### FOR SPORTS PRACTITIONERS

To become more aware of their body readiness level, understand key factors that contribute to injuries and better performance, analyze the progress and follow virtual assistance to supervise physical activities and enabling the freedom of choice where and when to perform exercises more safely with or without expert's presence.



# BASIS OF THE TECHNOLOGY

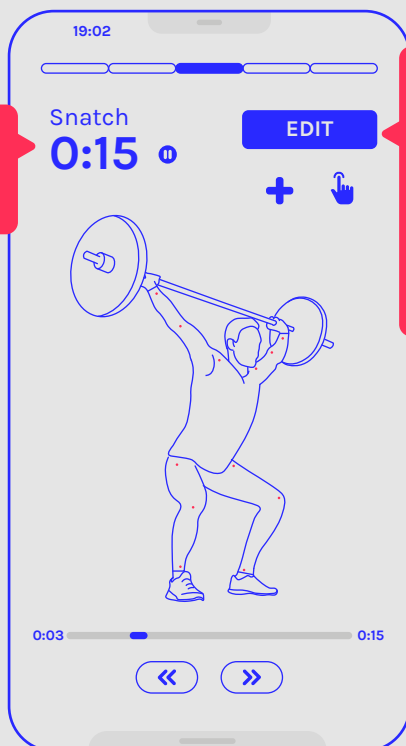
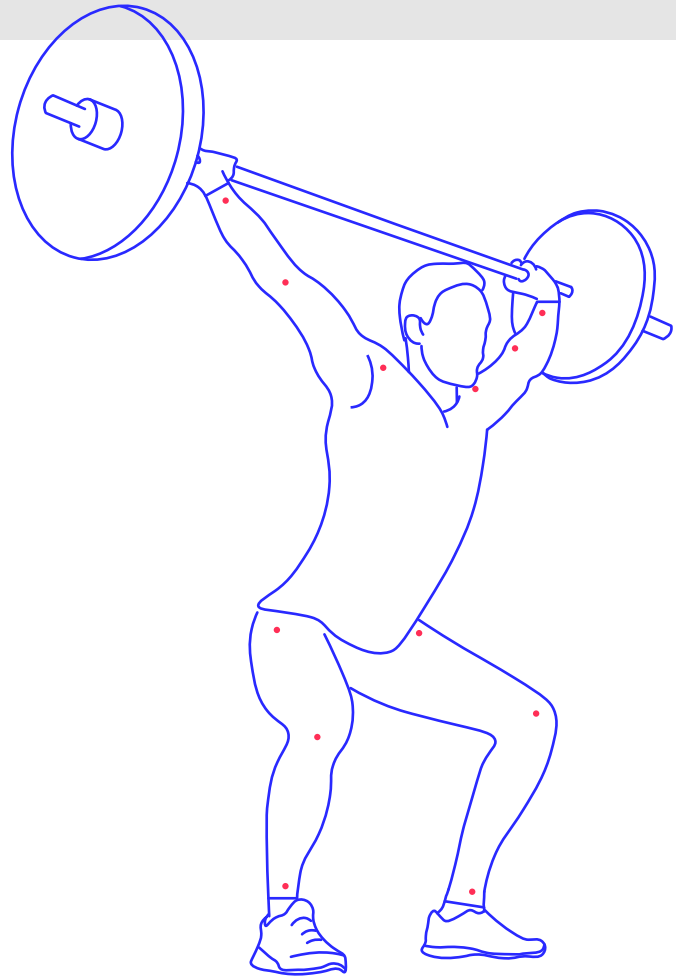
## 01 MOBILE APP

Android and iOS mobile app where data from a smart wearable are sent for further movement analysis and data visualization.

It's the world-first mobile app that helps to connect in a deeper level sport practitioner with their bodies and their trainers.

For trainers it's a platform to uniquely sell their training programs and track practitioner's progress remotely or on spot.

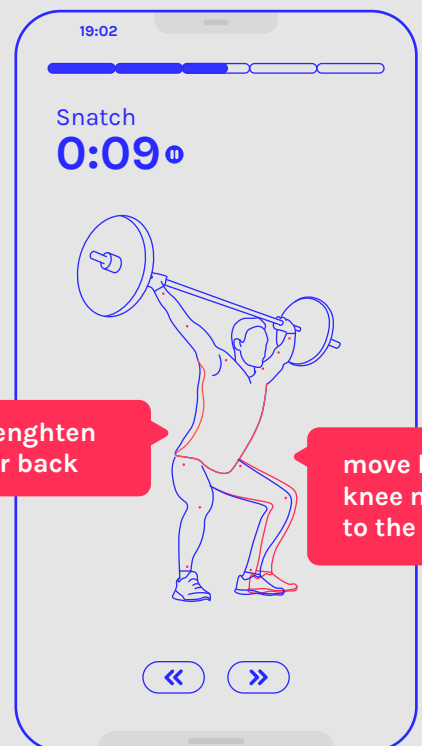
Yet for practitioners - it's a safe haven to learn sports in a progressive, flexible and, most importantly, in correct way with live feedback and progress tracking.



Add title and exercise duration

Edit workout video, add restrictions and comments, change location of the avatar's joints.

TRAINERS PROFILE



Strengthen your back

move left knee more to the left

PRACTITIONER PROFILE

The sensor nodes are embedded on wearable tracksuits and are connected using wired communication (using conductive threads as electric conductors).

Power is supplied from a lithium battery. The number of sensors used can be changed and adjusted for different application requirements. Data is sent wirelessly to a portable device (smartphone, tablet) or personal computer for processing and feedback.

Bluetooth low energy protocol is used for data transmission to achieve energy efficiency for maximized battery life.

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**18**coin-size  
sensors

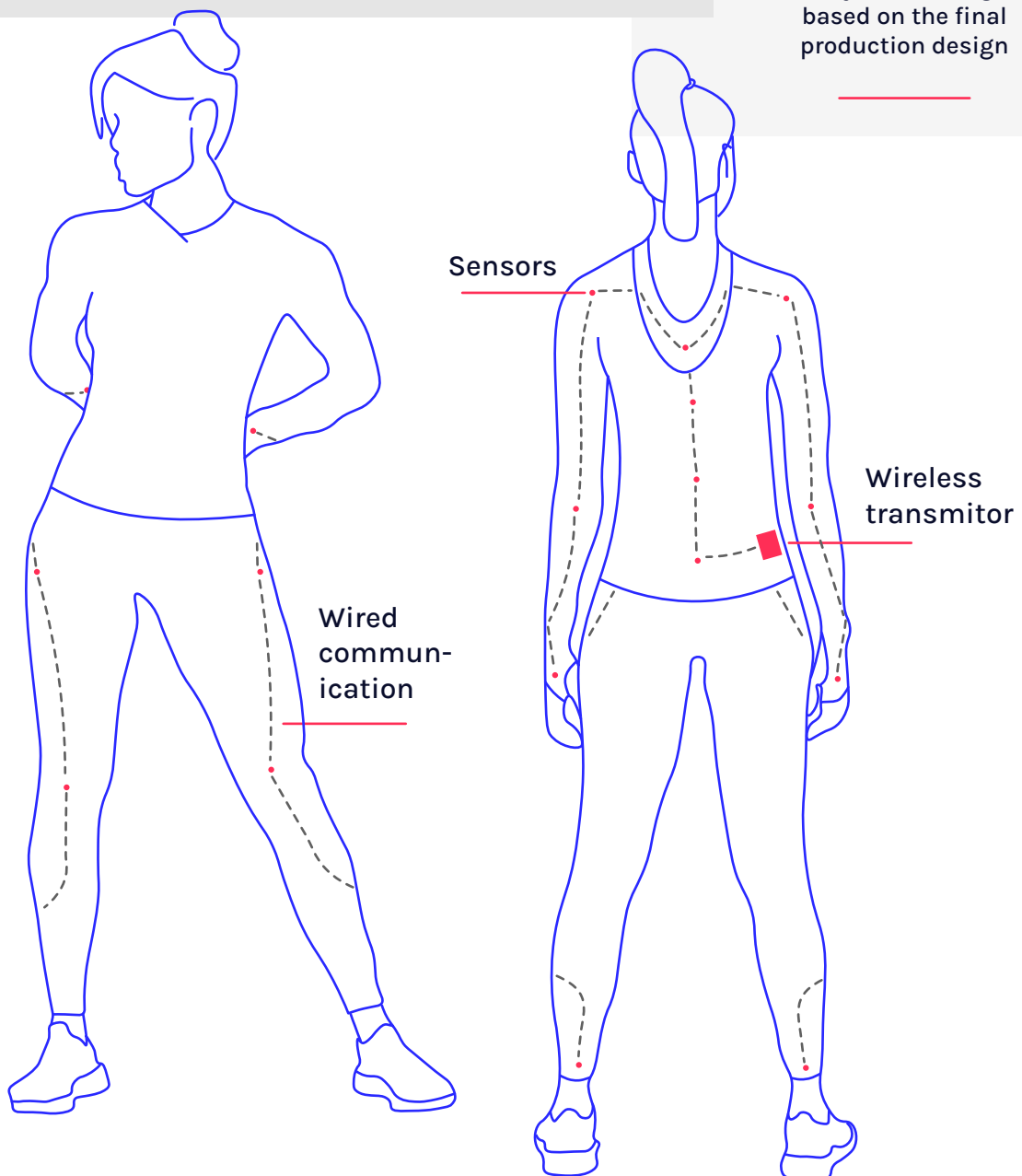
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Accelerometer,  
magnetometer  
and gyroscope  
sensors fusion

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Data transmitted  
via Bluetooth low  
energy protocol  
to the app

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Prototype tested to  
withstand at least  
40 washing hours is  
subject to change  
based on the final  
production design

# OUR MAIN DIFFERENCE FROM OTHER SIMILAR SOLUTIONS

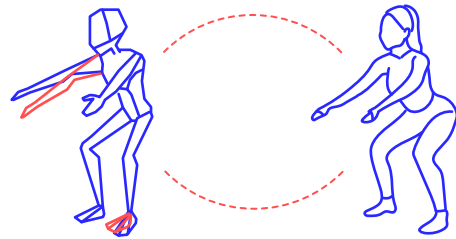
01



4:15  13:06

Real-time low energy motion reconstruction  
50 frames per second.

02



Movement analysis and 360° visualization, including a comparison of movements from multiple people.

03

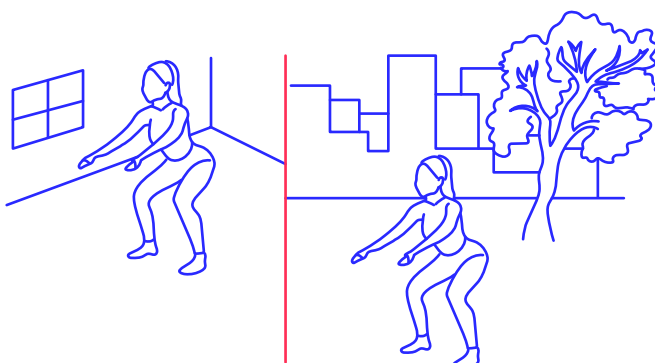


Minimized wireless interference as opposed to multiple wireless sensor nodes.

04



All the sensors are fixed in washable clothing, so it's not complicated putting the apparel on and wearing it. Separate sensors don't need to be attached or charged individually.



05

We are fully mobile and not affected by the environment, lighting, etc. thus no external setup is needed, such as cameras, beacons, etc.

## KEY FEATURES

A training platform for exercise recording, workout program creation and selling

Washable, chargeable, clothing for women and men with built-in sensors for everyday exercises and workouts

Activity progress tracking and performance analytics

Live feedback

Smart sport tech gadgets connected in one place

Workout and exercise plans

## CORE BENEFITS



Improving the efficiency of practice with live feedback and individually tailored exercises based on body measurements



Easy-to-use mobile app for movement recording, data-based performance analysis, live feedback, progress tracking and relevant exercise-related content creation or consumption



Reducing the injury risk while doing physical activities



A social network platform for trainers and sport coaches to increase their clientele and promote their knowledge



A flexible approach for sport practitioners to do exercises in a correct manner, not restricted to a single location or time