

A person in a white lab coat is shown from the back, interacting with a digital interface. The interface consists of a grid of hexagonal icons, each containing a different symbol: an atom, a heart with a pulse line, a person silhouette, a DNA helix, and a microscope. The background is a dark blue gradient with a faint world map outline. The text is overlaid on the center of the image.

THE | SHAPING A
TECHMED | HEALTHY
EVENT | FUTURE

[13.15 - 14.30] | [ACCELERATION INNOVATION] | [Dr. Huawei Wang]

DEEP DIGITAL SPORTS

Dr. Huawei Wang

wearM.AI B.V.
University of Twente

DISCLOSURE SLIDE

This presentation is supported by wearM.AI B.V.



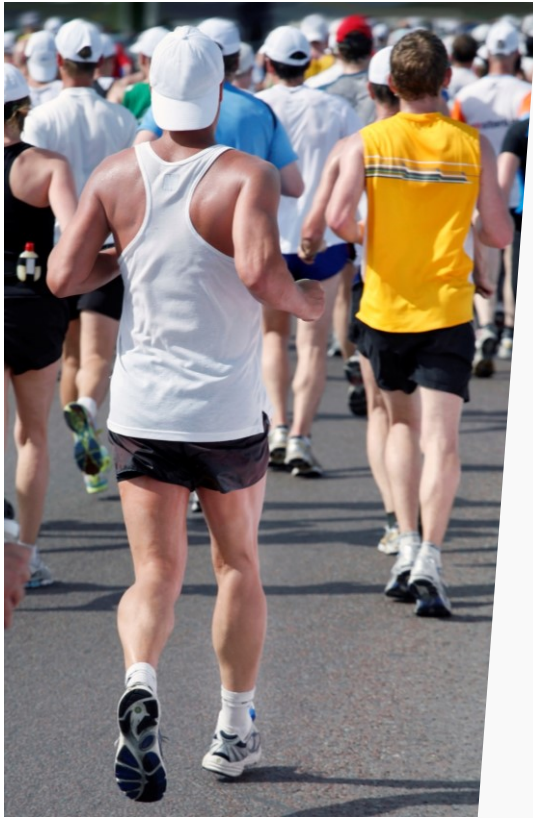
DEEP DIGITAL SPORTS

APPLY BIOMECHANICAL ANALYSIS INTO DAILY LIFE

- Injuries in sports
- Current solutions
- Scientific efforts
- The BIG GAP
- Our solution
- Market potential
- Validation & more validation



INJURIES IN SPORTS



World Health Organization

2019

1.71 billion people with motion related conditions (musculoskeletal issues)

1990 → 2019 ▲ +69%

Science Daily

2021

➤ **300 million** runner get injured each year. About half of the total running population (621 million).

Institute for Health Metrics and Evaluation

2016

\$129.8 billion were spent in the United States for the musculoskeletal treatment and rehabilitation each year.

Current Commercial Solution



Smart
Watches

LIMITED Information



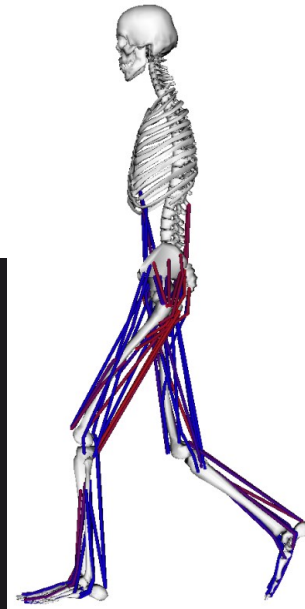
Physio Running
Analysis

Unreachable & Snapshot

Scientific efforts



Laboratory setup



Outdoor setup

<https://www.motekmedical.com/>
<https://www.opencap.ai/>

The BIG GAP

'light' sports experience



Non-wearable solutions



<https://www.movella.com/>

Our Solution

A fully wearable smart device to reduce muscle injuries.



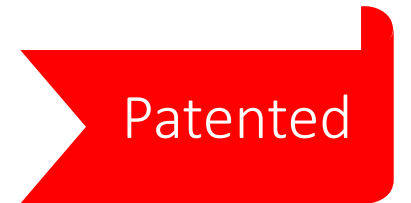
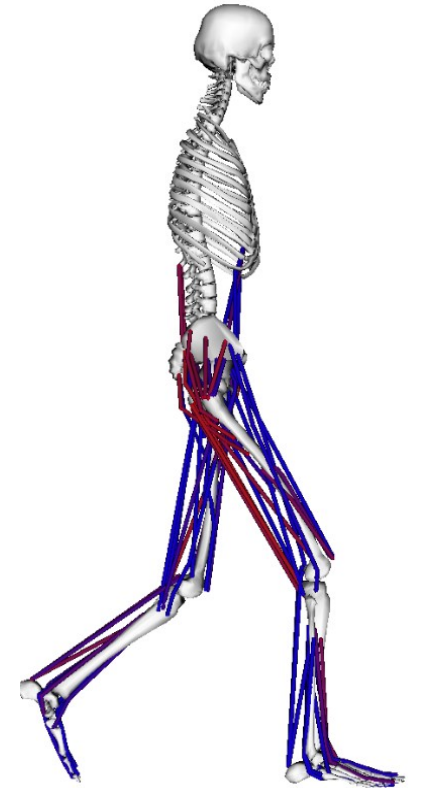
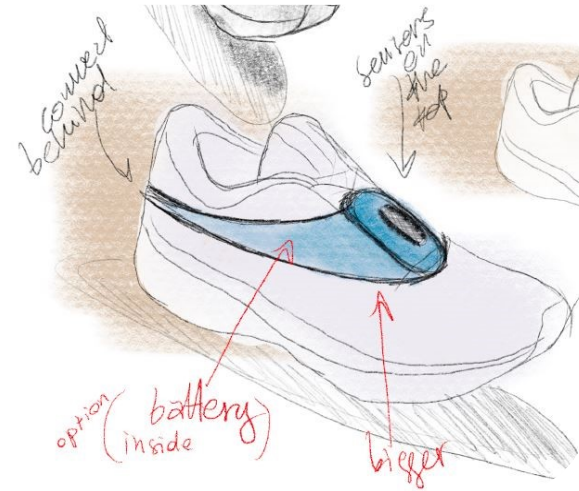
Digital Twin



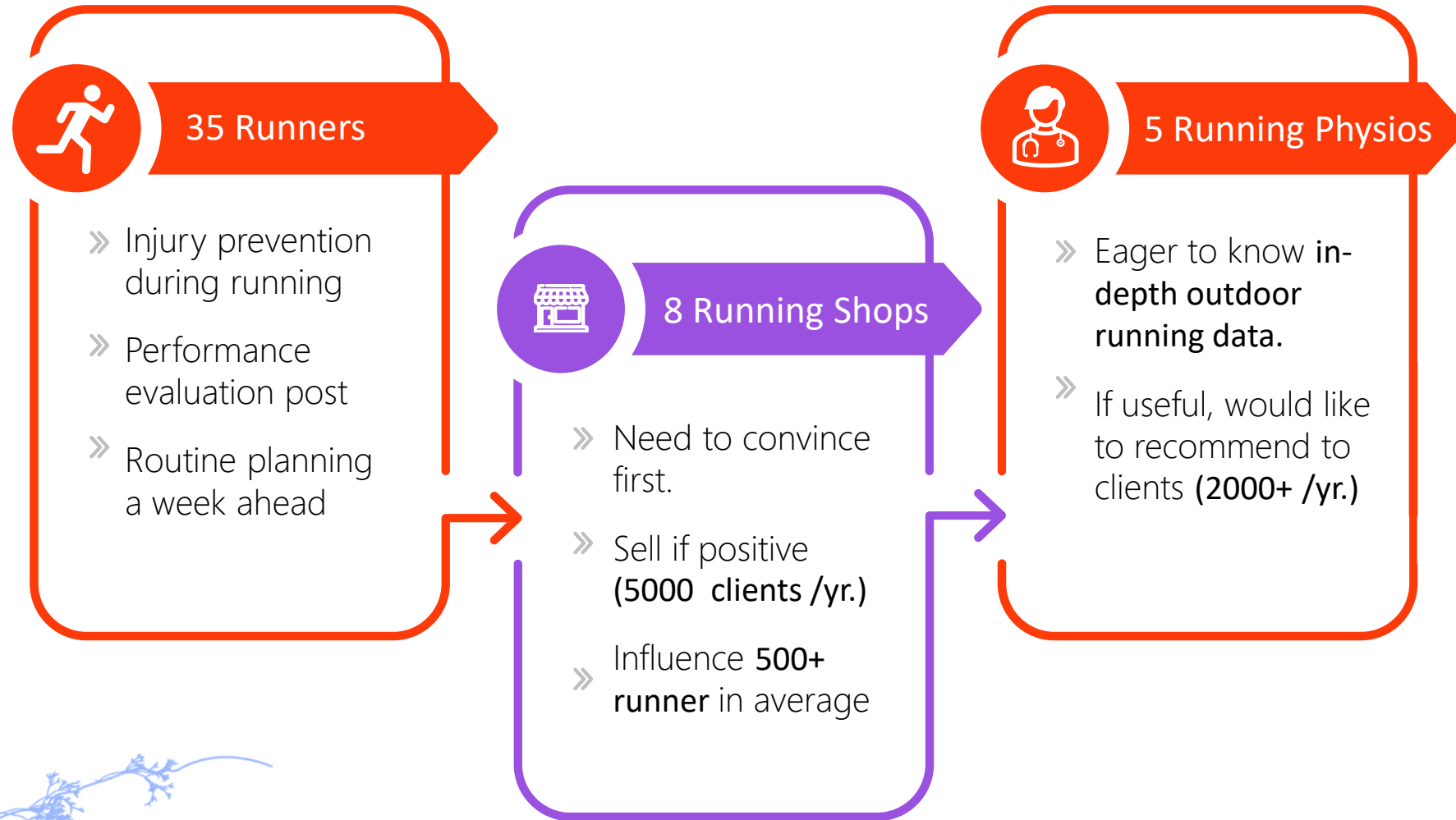
Big-Data



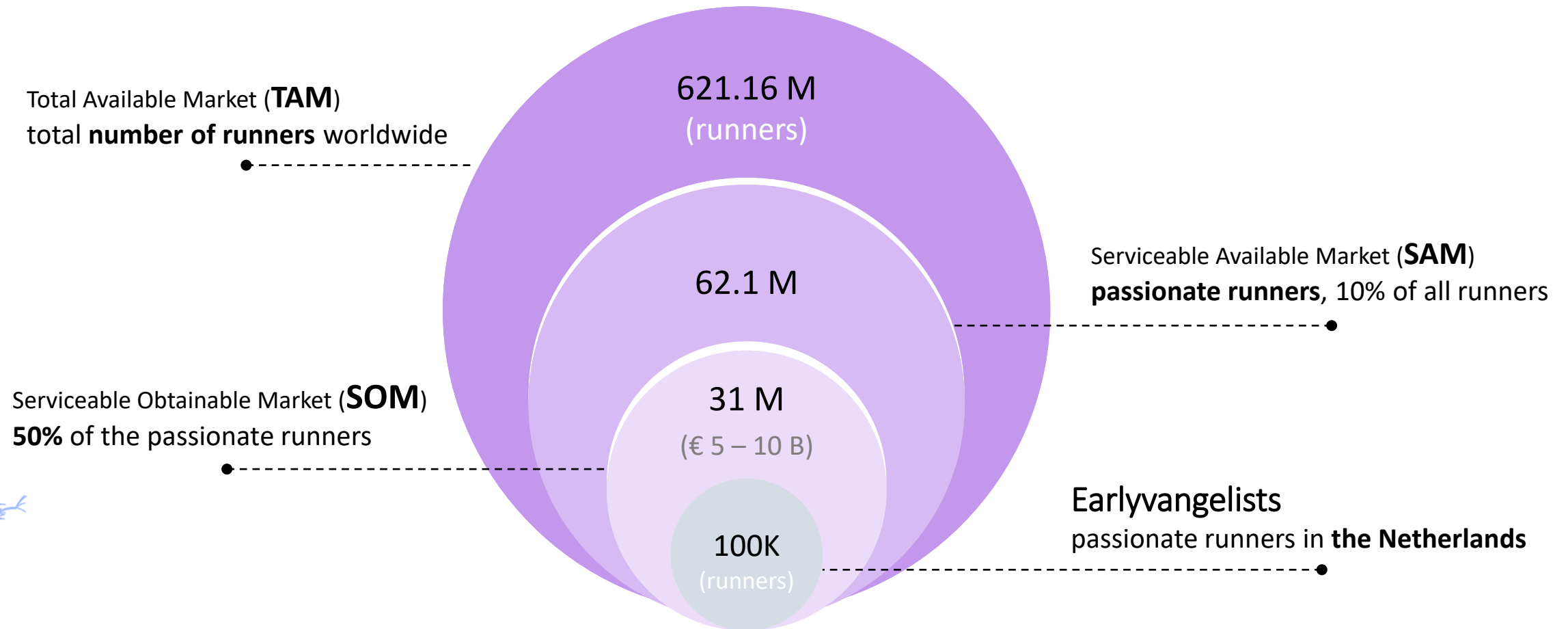
Deep Learning



Market validation (1 to 1 interviews)



Market Potentials



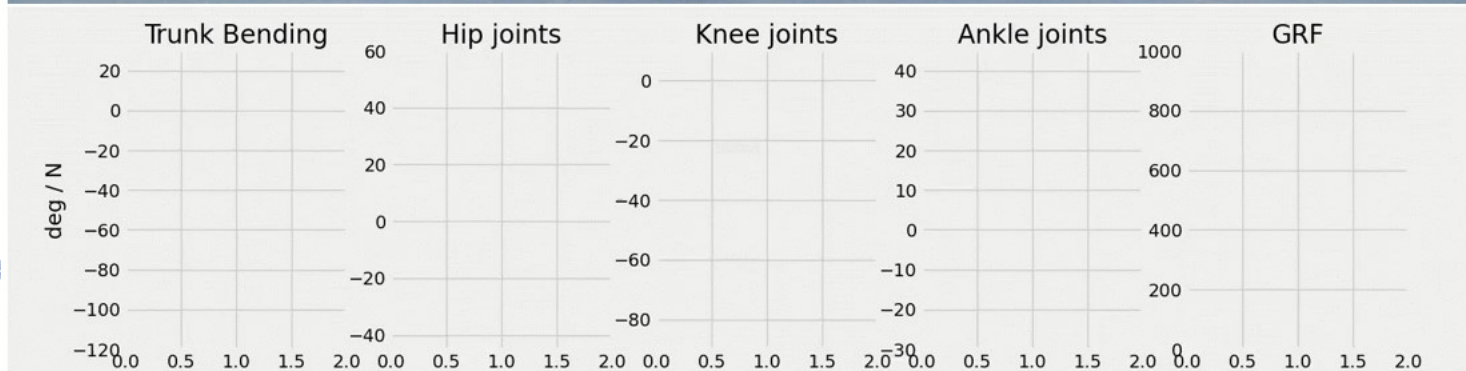
Passionate runners spend €500 each year on the running relevance.

How do we gain trust from potential users?

Validation



Initial validation



How to validate injury preventions?



**Looking for
collaborations**

The Team



Dr. Huawei Wang,

co-funder & CEO

10 years research experience in human movement science, specialized on musculoskeletal modeling and simulation



PhD(c) Lucas Gaudio,

co-founder & CTO

8 years R&D experience in electronics system design & embedded system, specialized on real-time applications



Kiki Liu



Floor Stefess

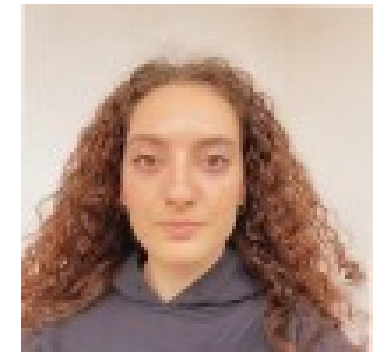


Paula Fernandez

Market Analysis & Validation



Femke Weijnsfeld



Francesca Zacche

Product Design & Promotion

Support by:

UNIVERSITY
OF TWENTE.

NovelT
15



a new digital era of AI powered running sport!

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