



# Successful European Public Funding Projects ITEA 19008 Inno4Health

Philips

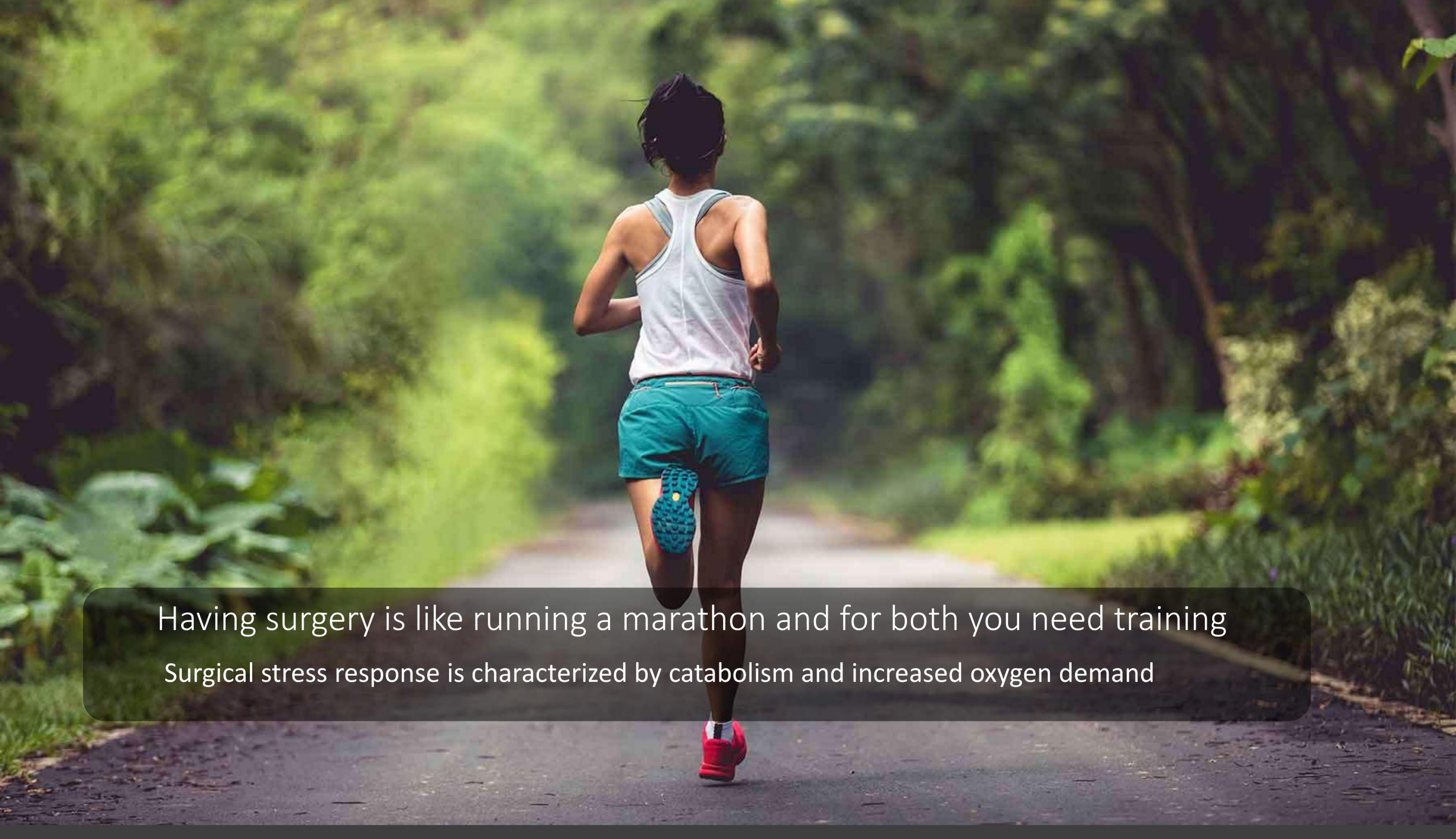
July 7, 2021

**PHILIPS**



Building continuous monitoring solutions for preparing individuals to surgery or sport competition

OSF Bijeenkomst 7 Juli 2021  
Ad de Beer



Having surgery is like running a marathon and for both you need training  
Surgical stress response is characterized by catabolism and increased oxygen demand



Tracking the condition of athletes is essential to guide physical preparation

- Limit maladaptation to training
- Mitigate risks of injuries
- Avoid adverse health events
- Avoid a sudden death

*These problematic challenges deriving from the healthcare and sports domains may require solutions that have a lot more in common than it could be thought*



# Preparing patients to be fit for surgery

**Payers** – lower healthcare cost savings

**Clinicians** – less workload and risk of complications

**Patients** – better health outcome



challenges? If we look at preparing patients to be fit for surgery, it is a win-win situation for: insurance companies would require less time and resources from clinicians in terms of workload, due to fewer complications **patients** in terms of improved functional capacity after surgery through physical and mental preparation

# Preparing athletes to be fit for sport competition

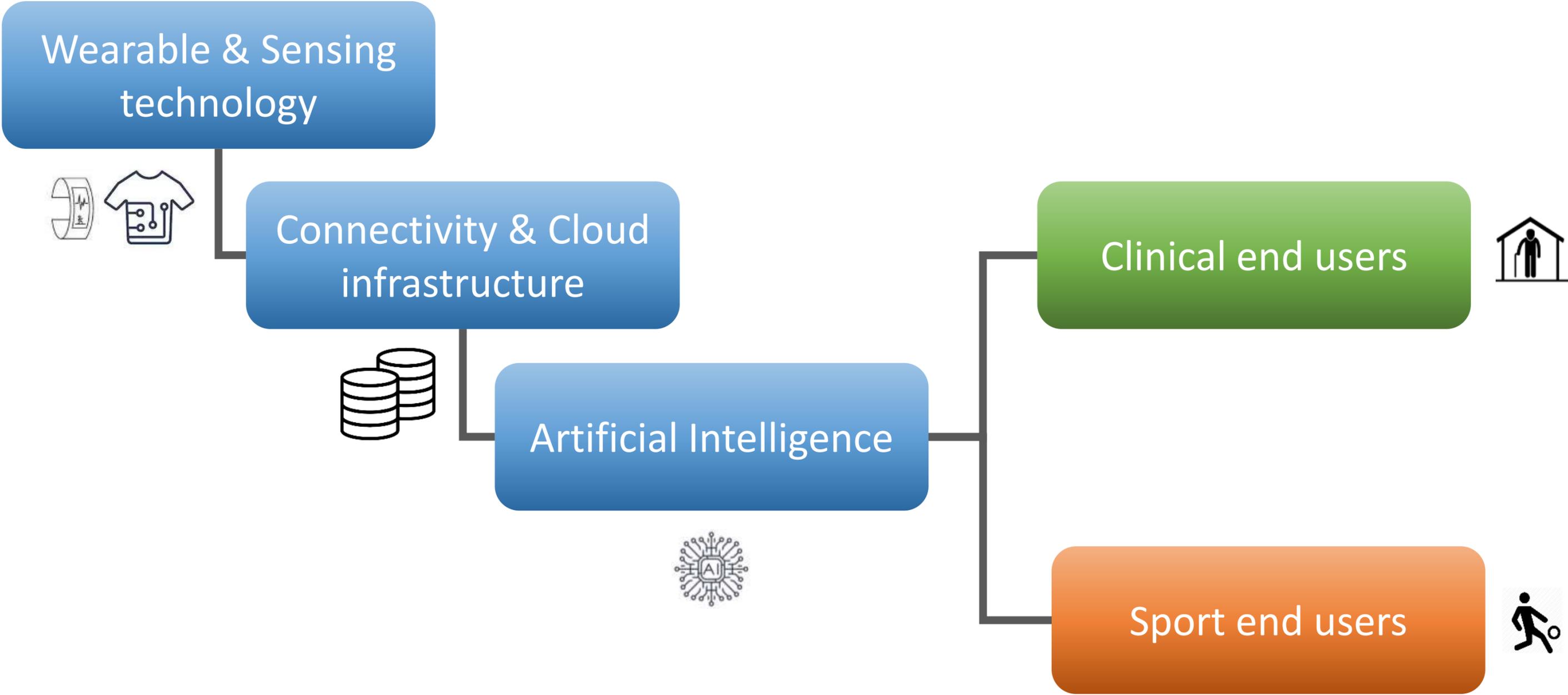
**Sport business managers** – larger income

**Performance coach** – better informed decisions

**Athletes** – lower risk of injury and better training



# INNO4HEALTH solution pillars





kaunas university of technology

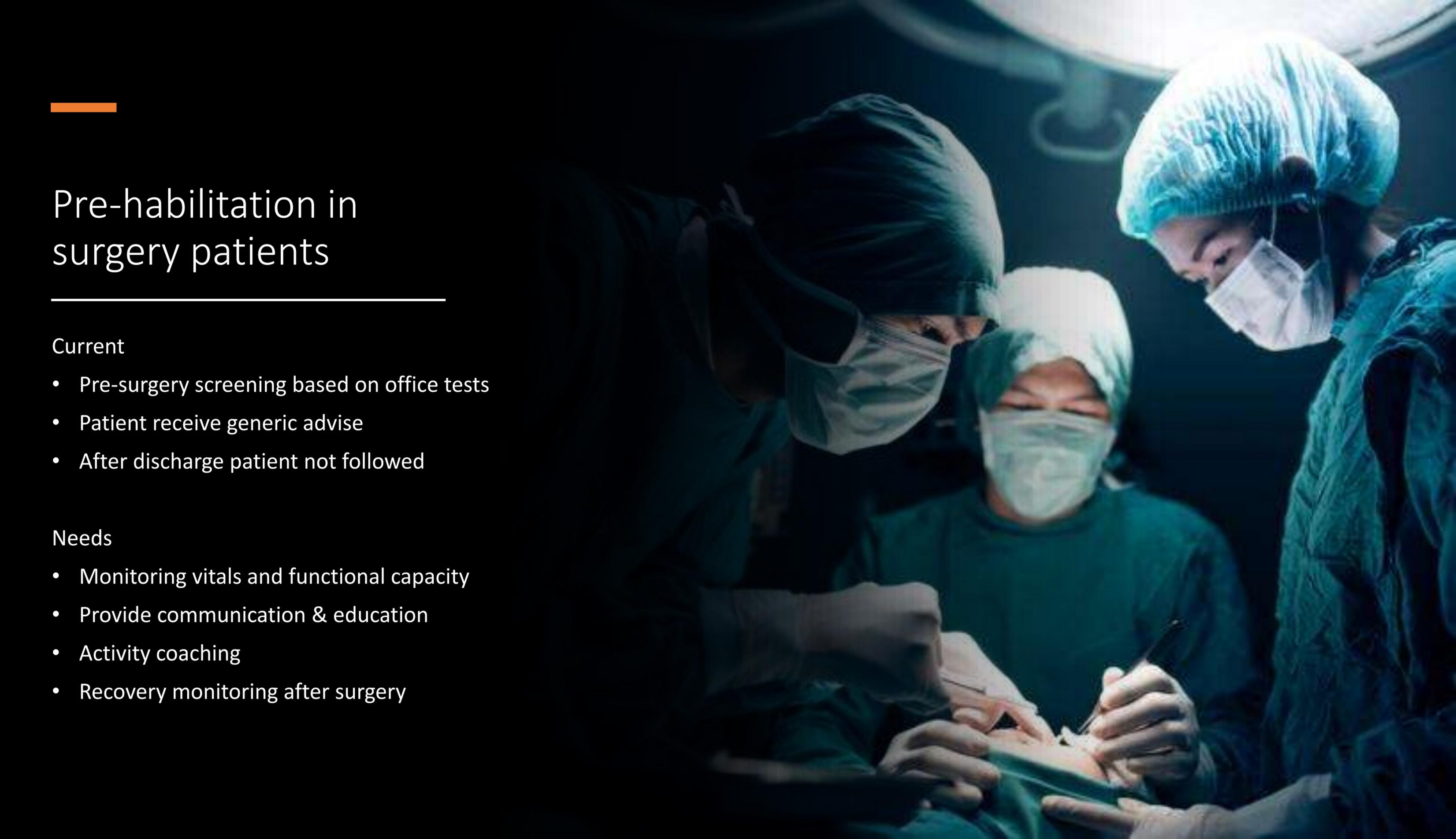


TEKNASYON



# Use cases

Name	Domain		Leader	Contact
Re-habilitation after orthopaedic surgery	Health	NL/TR	St. Anna Hospital	<b>Walter Van Der Weegen</b>
Pre-habilitation in Bariatric surgery patients	Health	RO	BEIA	<b>Cristina Balaceanu</b>
Screening for Sudden Cardiac Arrest	Health	NL	MMC	<b>Hareld Kemps</b>
Claudication, venous ulcers and diabetic foot patients	Health	PT	ISEP	<b>Luis Conceicao</b>
Holistic preparation for football competition	Sport	NL	PSV / PHILIPS	<b>Luc van Agt</b>
Cognitive preparation of athletes	Sport	LT	LIPSE	<b>Aiste Zemaityte</b>
Management of athletes recovery after injury in team sports	Sport	CA	XCO	<b>Scott Mc. Millan</b>
Personal health monitoring and self-assessment for health prevention, empowerment and management	Health	CA	RideShark	<b>Sharon Lewinson</b>



# Pre-habilitation in surgery patients

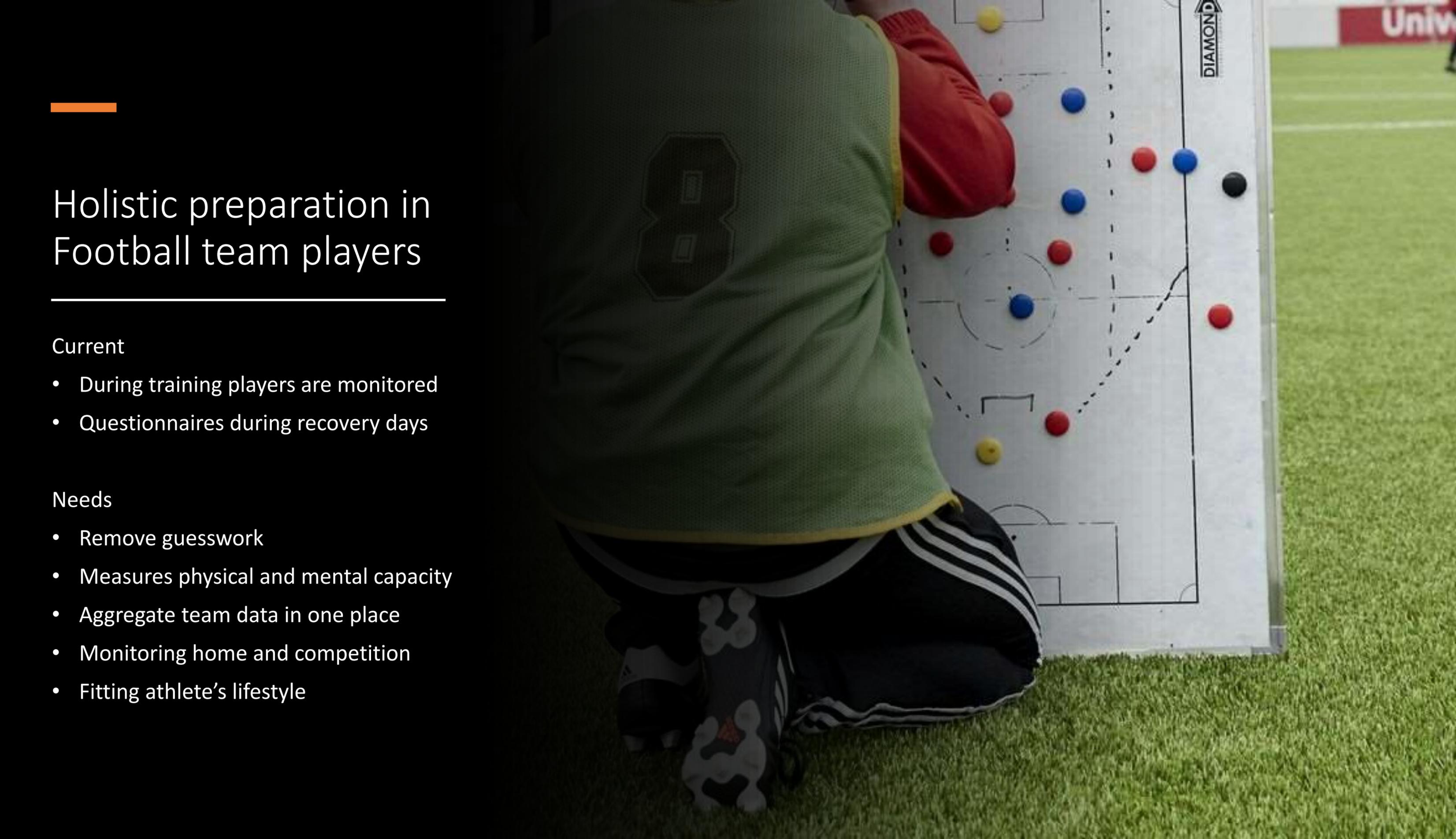
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## Current

- Pre-surgery screening based on office tests
- Patient receive generic advise
- After discharge patient not followed

## Needs

- Monitoring vitals and functional capacity
- Provide communication & education
- Activity coaching
- Recovery monitoring after surgery



# Holistic preparation in Football team players

## Current

- During training players are monitored
- Questionnaires during recovery days

## Needs

- Remove guesswork
- Measures physical and mental capacity
- Aggregate team data in one place
- Monitoring home and competition
- Fitting athlete's lifestyle

# Examples of new business



▲ PSV en Philips werken samen met het St. Anna Ziekenhuis. Clubdokter Wart van Zoest verricht hier onderzoek bij PSV'er Ryan Thomas. © Photo Prestige

## **PSV en Philips kondigen medische topprimeur aan: Veel beter na te gaan of training topsporters aanslaat**



## **MONITOREN BINNEN EN BUITEN ZIEKENHUIS**

De Healthdot sensor meet ademhalingsfrequentie, hartslag, activiteit en lichaamshouding van een patiënt elke vijf minuten gedurende 14 dagen. De data kunnen zonder tussenkomst van een ontvanger (monitoringsrelay) worden verstuurd naar één of meerdere dataplatformen. Via deze platformen van Philips (IntelliVue Guardian of Engage) kunnen zorgverleners hun patiënten binnen en buiten het ziekenhuis monitoren.

# Removing the guesswork



**TNO** innovation  
for life



**PHILIPS**



**TU/e**

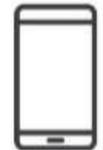


**umec**



**PHILIPS**

**THUNDERBYTE.AI**



**St. Anna Ziekenhuis**

# Visit our website: <https://inno4health.eu/>



## News



UNCATEGORIZED

**Project related conferences and trade fairs**

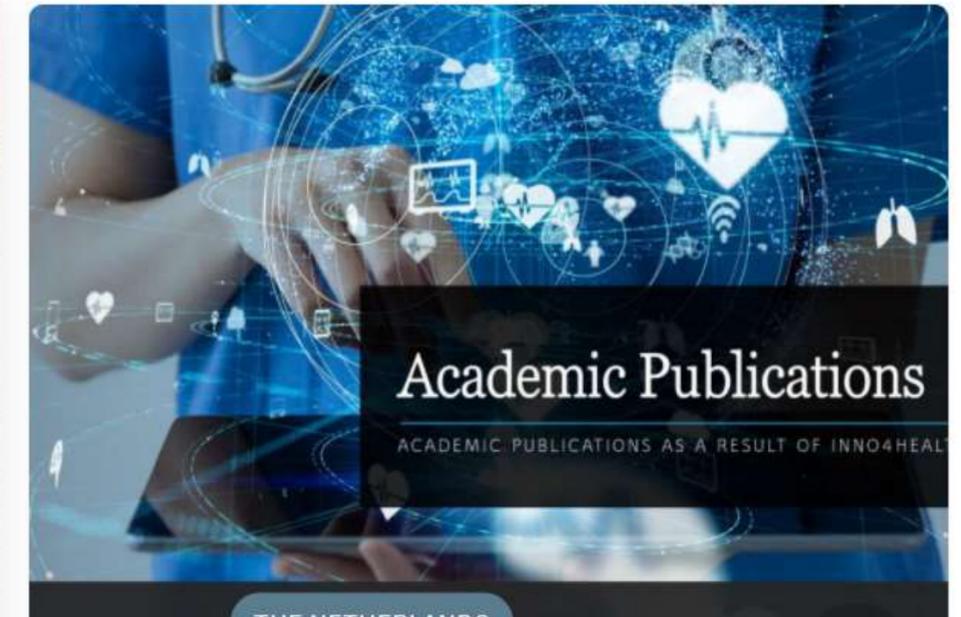
<https://inno4health.eu/performance-by-innovative-health-online-congress/>



THE NETHERLANDS

**Online Congress TU/e: Performance by Innovative Health**

On the 7th of May, students from the Eindhoven University of Technology (partner



THE NETHERLANDS

ACADEMIC PUBLICATIONS HEALTHCARE

**Publication Imec: Paper Sensors 2020, 20(24), 7302**

In 2020, Imec submitted a paper and it was

A large crowd of runners is participating in a marathon on a suspension bridge. The runners are spread across the width of the bridge, moving away from the camera towards the distant tower. The bridge's structure, including its cables and towers, is visible against a clear blue sky. The scene is bright and sunny, with shadows cast on the pavement.

Innovation is leading us towards making sense of complex processes that can be used to assess our ability to overcome challenging situations in life

# Sportbizz responsibilities in Inno4Health

- ✓ Business development
- ✓ Market scans
- ✓ Validation
- ✓ Dissemination
- ✓ Expos / Fairs
- ✓ Market entrance strategy for the use cases



PEOPLE WILL FORGET  
WHAT YOU SAID,  
PEOPLE WILL FORGET  
WHAT YOU DID,  
BUT PEOPLE WILL  
NEVER FORGET  
HOW YOU MADE  
THEM FEEL

MAYA ANGELOU

