





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

> **ELIS Innovation summit** Ad de Beer



PHILIPS





#### 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

# Preparing patients to be fit for surgery

Payers – lower healthcare cost savings Clinicians – less workload and risk of complications Patients - better health outcome



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 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



#### Use cases

Name	Domain		Leader
Re-habilitation after orthopaedic surgery	Health	NL/TR	MMC
Pre-habilitation in Bariatric surgery patients	Health	RO	BEIA
Screening for Sudden Cardiac Arrest	Health	NL	MMC
Claudication, venous ulcers and diabetic foot patients	Health	PT	ISEP
Holistic preparation for football competition	Sport	NL	PSV / PHILIPS
Cognitive preparation of athletes	Sport	LT	LIPSE
Management of athletes recovery after injury in team sports	Sport	CA	XCO
Personal health monitoring and self-assessment for health prevention, empowerment and management	Health	CA	RideShark



#### Pre-habilitation in surgery patients

Pre-surgery screening based on office tests eive ger eric adv

After discharge patient not followed

Monitoring vitals and functional capacity ication & education vide cor

Activity coaching

ery monitoring after surgery





ASU

## Examples of new business



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







- Wearable insole system for long term • planar pressure measurement. 1kHz 8 point measurement foot pressure from both feet information, synchronized with <Sus delay. Integration of PPG and HRM/ECG information from Polar sensors.
- Electronics include several sensors.
- 9AXES IMU, Barometer, Temperature. GAIT analysis and step counting
- Internal memory to store offline data
- DITEAR





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



Project related conferences and trade fairs





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



