

| onalabs)



Leading the Sweat Digital Biomarker Platform
The New Revolution in Digital Health

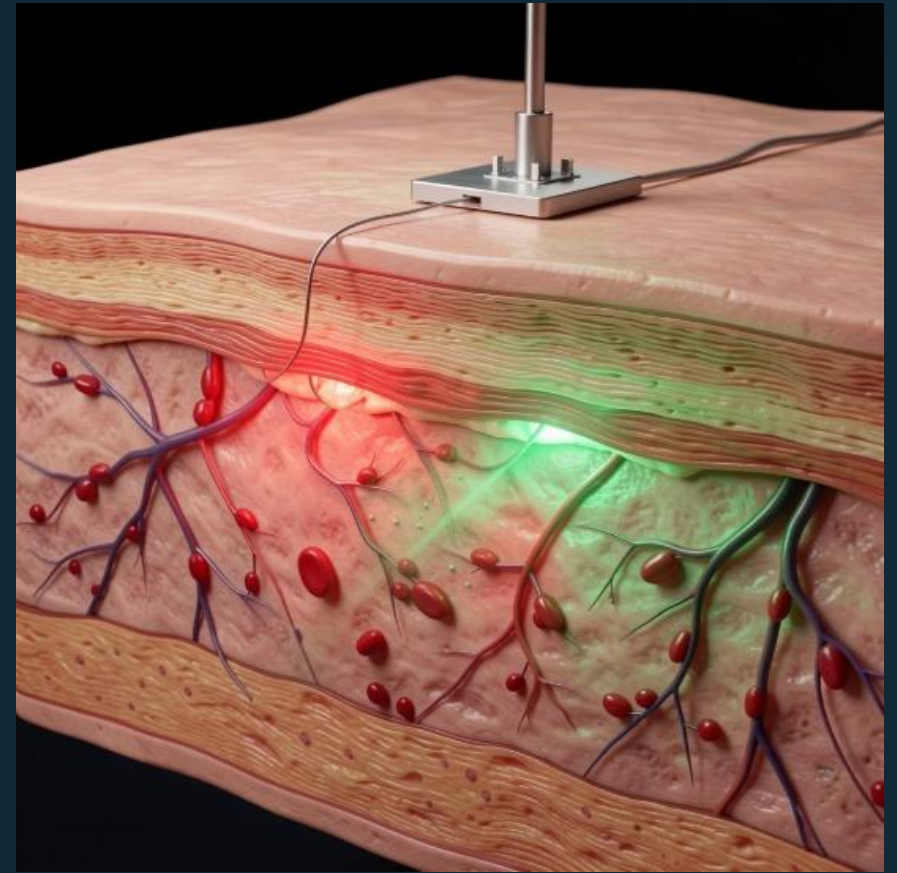
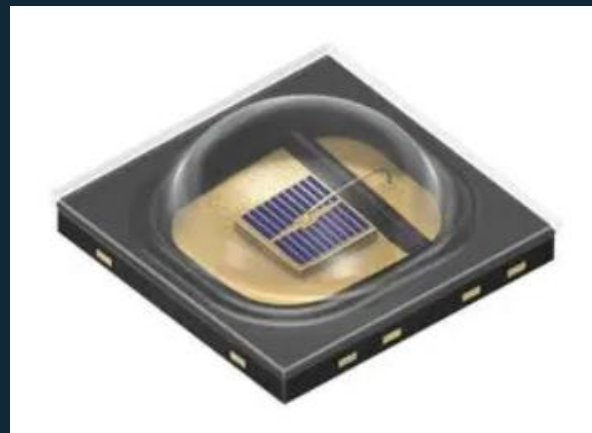
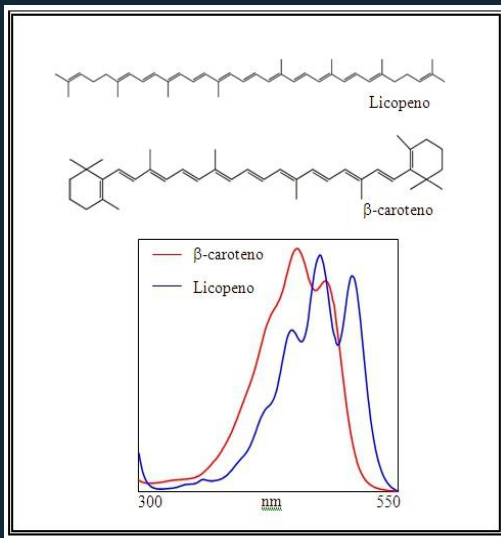


Fotónica basada en PPG: La luz como mensajero biológico

La **fotopletiografía (PPG)** utiliza la luz para «leer» lo que sucede bajo nuestra piel sin necesidad de cables ni agujas. Es el principio que hay detrás del sensor de frecuencia cardíaca de cualquier reloj inteligente moderno.

Diseñar nuestros propios LEDs

Un LED emite luz hacia el tejido cutáneo. La sangre en los capilares absorbe parte de esa luz; de esa luz; un fotodiodo mide la cantidad que rebota o atraviesa. La variación cíclica de absorción genera la «**onda de pulso**»:



Tecnología i regulatoria | **Visión general**

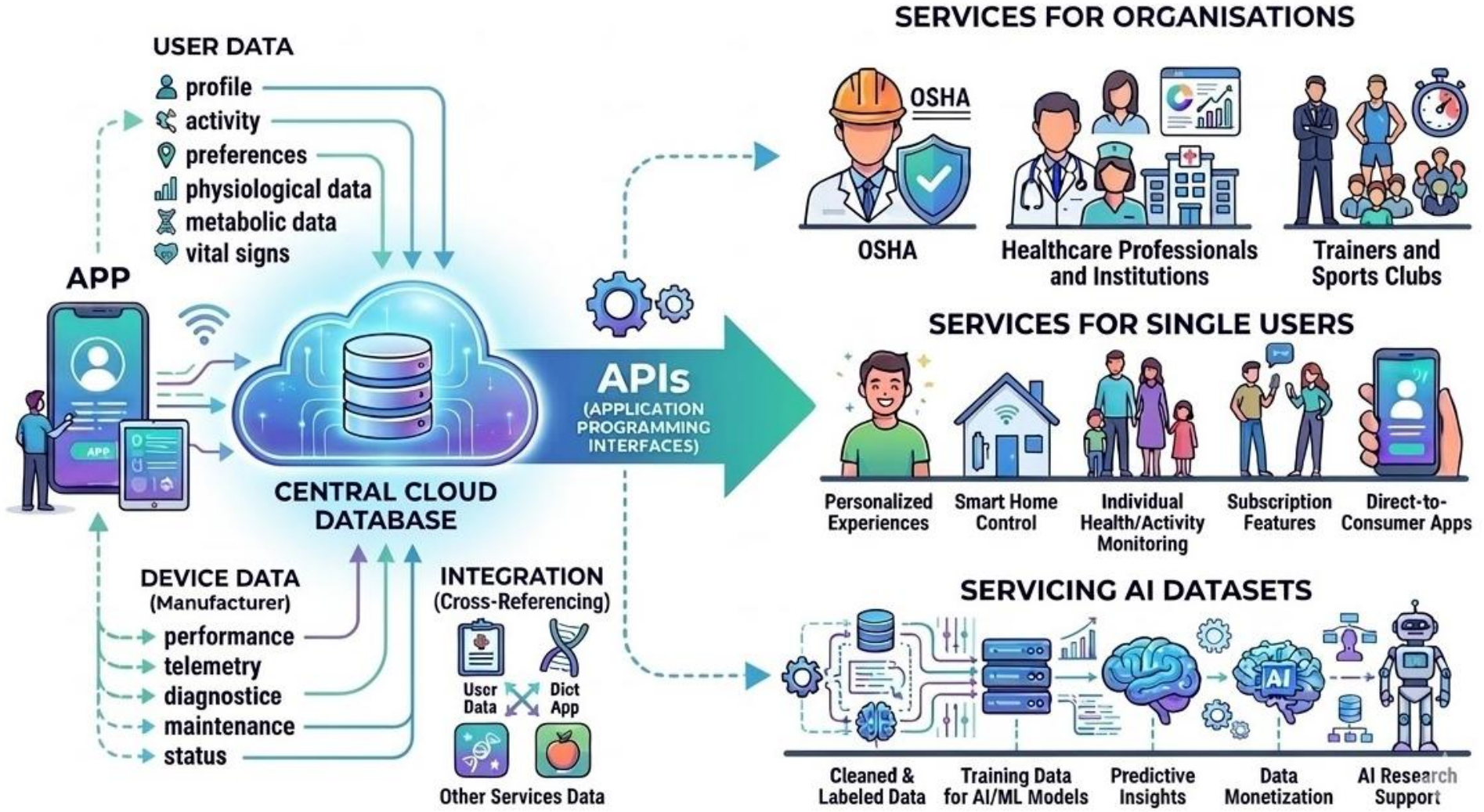
|ONASPORT)



|ONAVITAL)



|ONALIVE)



Tecnología i regulatoria | **Visión general**

| **ISO 13485)**

| **Licencia AEMPS)**

| **Fase Final EU MDR
ONAVITAL)**



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| Producto ONAVITAL)

Producto ONAVITAL | PRODUCTO

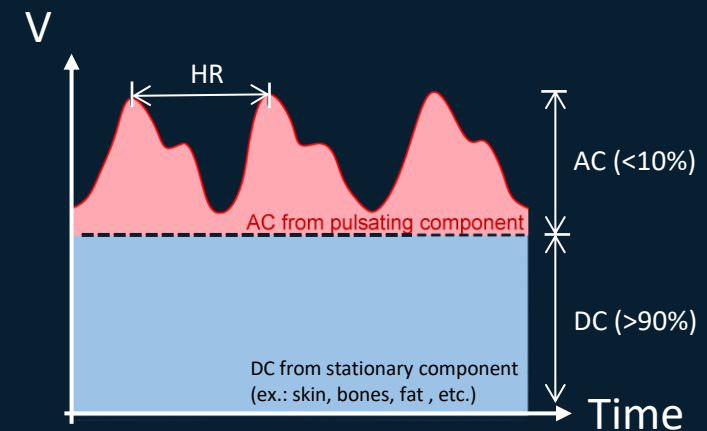
ONAVITAL | Dispositivo de grado médico para la monitorización de constantes vitales en pacientes crónicos que necesitan una hospitalización domiciliaria.



CONSTANTES VITALES |

- PR | Pulso cardíaco.
- SpO₂ | Saturación de oxígeno.
- DBP + SBP | Presión arterial.
- T | Temperatura cutánea.

TECNOLOGÍA | PPG - Fotopletismografía



Producto ONAVITAL | PASADO, PRESENTE y FUTURO

CONCEPTUALIZACIÓN | Finales del 2020 en el marco de una colaboración público privada con el hospital Germans Trias i Pujol | Can Rutí.



CERTIFICACIÓN MÉDICA | Actualmente se encuentra en la ÚLTIMA FASE de certificación de producto sanitario de tipo IIa.

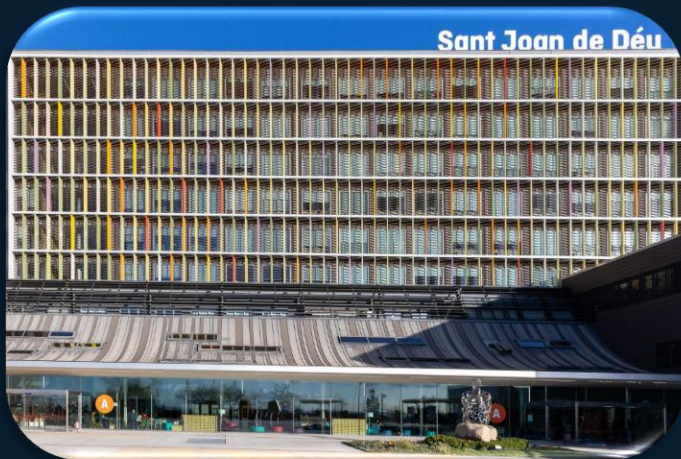


Producto ONAVITAL | PRUEBAS PILOTO

PILOTO Uganda | 35 dispositivos en Uganda para probar el comportamiento del dispositivo con tonalidades de pieles oscuras.

PILOTO Vall d'Hebron | Prueba conjunta de producto ONALIVE y ONAVITAL para monitorización de pacientes diabéticos.

PILOTO Sant Joan de Deu | Proyecto de colaboración público privada para el diseño de un dispositivo de rehabilitación cardiaca en pacientes pediátricos con cardiopatía congénita.

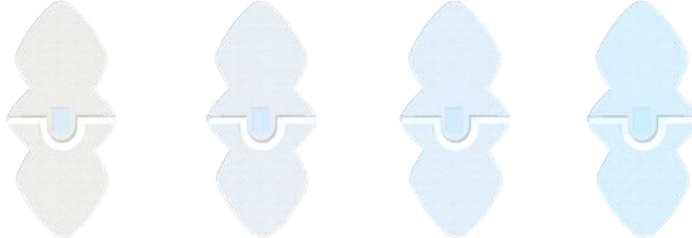


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| Producto ONAMED)

ONALIVE: an Integrated Physical-Digital Ecosystem

M10 patch



ONALIVE durable device



ONALIVE wear accessories



ONALIVE sweat companion App



Secure Unified Cloud Platform

ONALIVE AI Engine



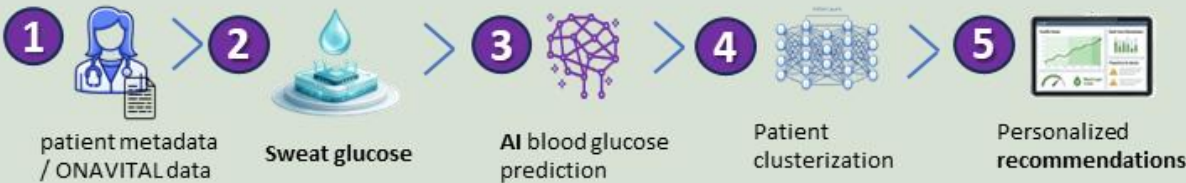
Single Consolidated dashboard

Fully non-invasive, sweat-based, label-free biomarker continuous monitoring device

Integrated AI platform turns raw signals into personalized, guideline-based recommendations

Strong potential as a comprehensive tool for long-term, painless diabetes management

Multimodal data integration



MARD=12.44 %

MAE= 17.58 mg/dL

r = 0.86

n > 1831 paired data points

Recommendation fidelity= 3.5/5

Recommendation relevance= 4.81/5



Sustronics

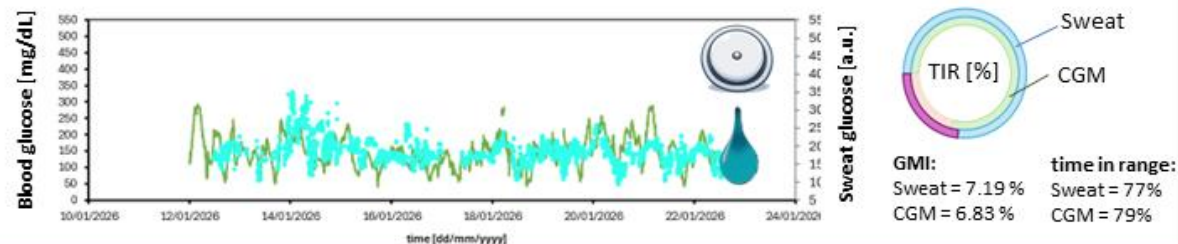
Co-funded by the European Union

ChipsJU

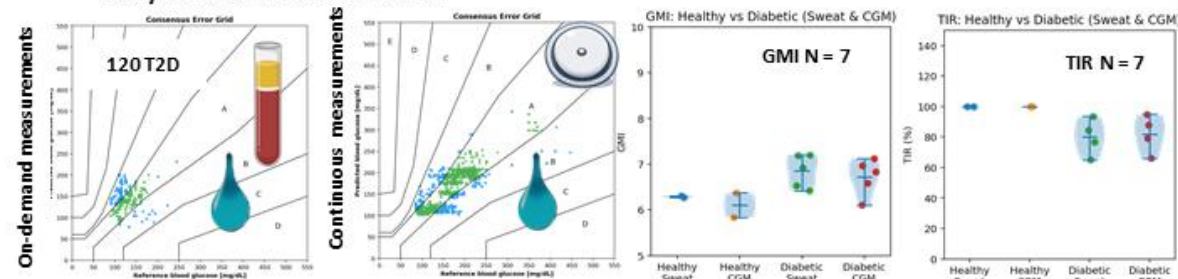
CDTI Centro para el Desarrollo Tecnológico Industrial

SYSTEM OVERVIEW RESULTS

- Continuous sweat glucose monitoring (1 minute sampling frequency)

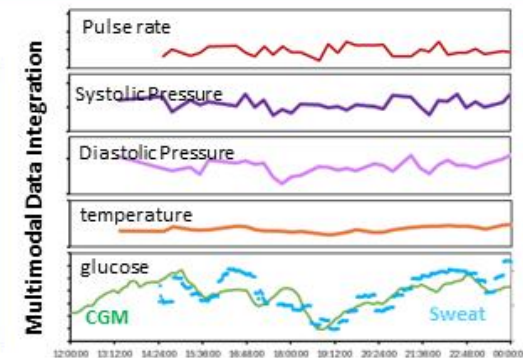


- Analytical & Clinical Performance



- Personalized life-style suggestions

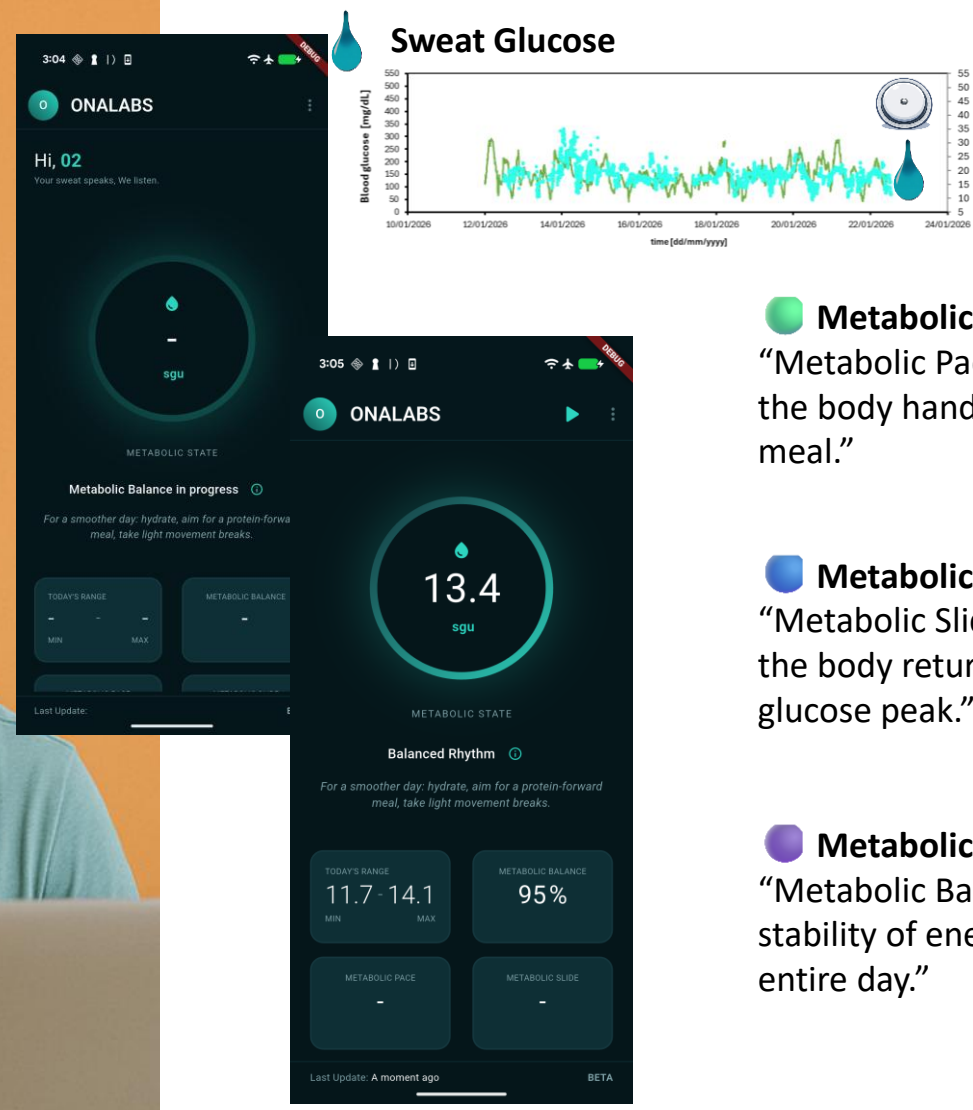
- Increase physical activity:** The patient is currently not engaging in any physical activity, and the cluster description shows a high prevalence of physical activity among similar patients. Regular exercise can help improve blood sugar control, reduce the risk of heart disease, and promote weight loss (Colberg et al., 2016).
- Improve diet:** The patient is consuming vegetables daily, which is a positive aspect. However, the patient's pre-meal blood glucose level was high, suggesting that the overall diet may need improvement. The patient could benefit from following a balanced diet that includes whole grains, lean proteins, fruits, and vegetables while limiting processed foods, sugary drinks, and saturated fats (American Diabetes Association, 2019).
- Monitor blood glucose levels:** The patient's fasting and post-meal blood glucose levels are elevated, indicating that blood sugar control may be an issue. Regular monitoring of blood glucose levels can help the patient and healthcare provider make informed decisions about medication, diet, and lifestyle changes (American Diabetes Association, 2019).
- Smoking cessation:** Although the patient is not a smoker, smoking cessation is still an important recommendation for patients with diabetes, as smoking increases the risk of heart disease, stroke, and other complications (Colberg et al., 2016).



Why do you crash at 2 PM?



Same meal.
Different metabolic flows



Sweat glucose over time

Metabolic Pace
 “Metabolic Pace measures how smoothly the body handles incoming fuel after a meal.”

Metabolic Slide
 “Metabolic Slide measures how gracefully the body returns to baseline after a glucose peak.”

Metabolic Balance
 “Metabolic Balance captures the stability of energy patterns across the entire day.”

*you'll never have to guess why your energy crashes again
 you'll see exactly how your body rises, recovers, and stays
 balanced in real time.*

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| Producte ONASPORT)

ONASPORT

Much more than a pulsometer (ECG)

The first non-invasive wearable that provides internal body BIG DATA in real-time using sweat to enhance performance and prevent injuries

Integrative tool for internal load continuous monitoring using sweat

LACTATE

DEHYDRATION

ELECTROLYTE LOSS

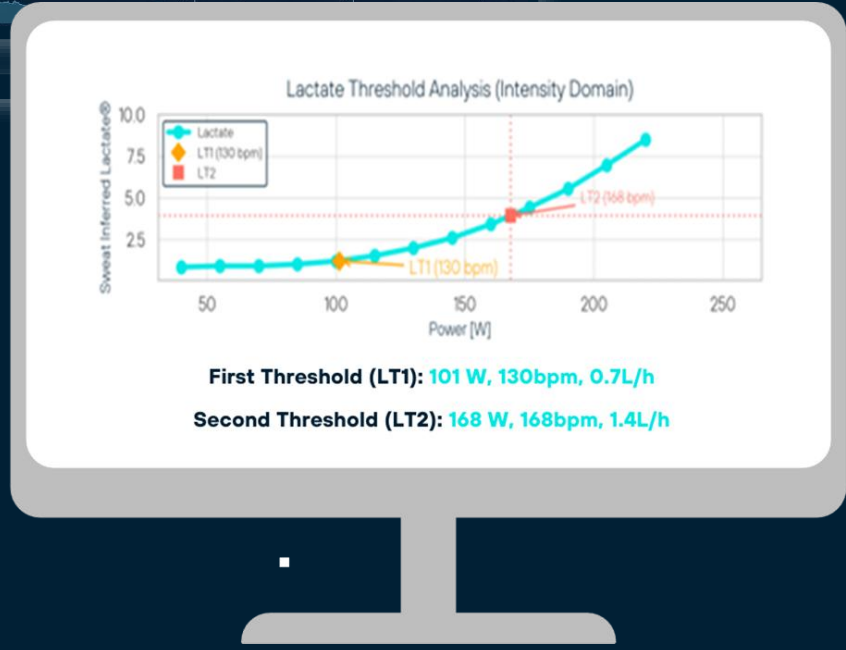
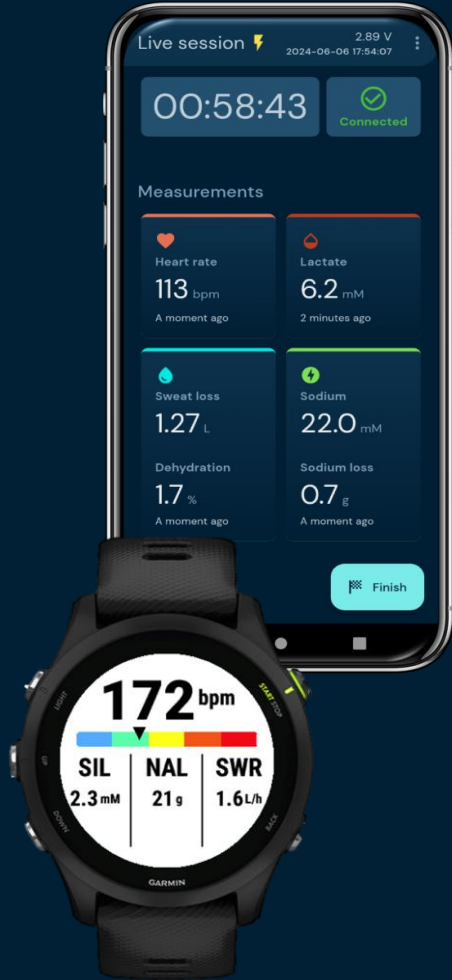
SWEAT RATE

HEART RATE

- |) CONTINUOUS
- |) NON-INVASIVE
- |) REMOTE



ONASPORT Value Proposition



Real-time measurements during training session

Advanced data analysis for training planification

ONASPORT

Better health, higher performance, and less mistakes.



Train with real zones (LT1/LT2):
Progress without guessing



Hydrate with purpose:
quantify exactly how much fluid you need to perform better in long sessions.



Personalized sodium reposition:
adjust salts based on your sodium loss to prevent dangerous conditions.



More control, fewer errors:
simpler, more actionable decisions, an easy-to-interpret report, and recommendations from our experts.

Science-based approach (3 scientific publications) and IP protection (5 patents)



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