

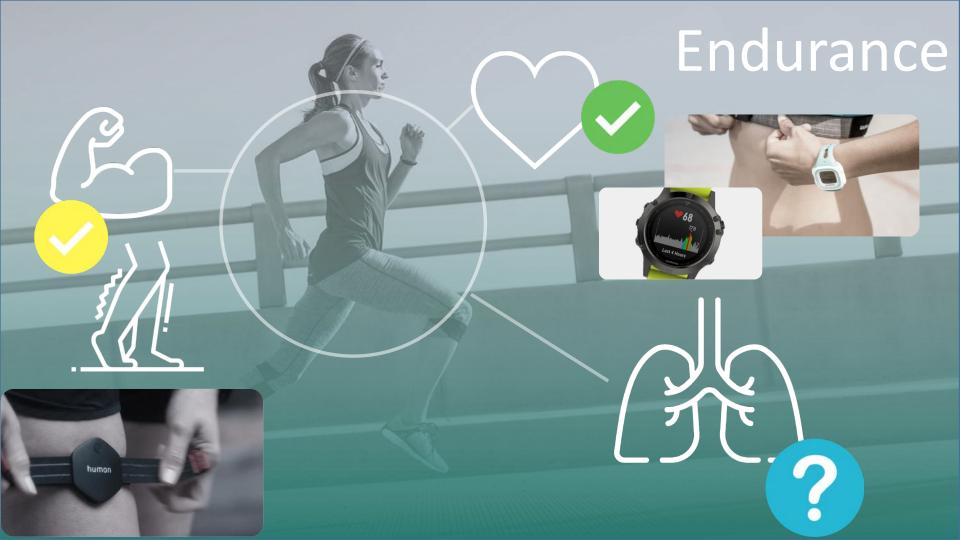


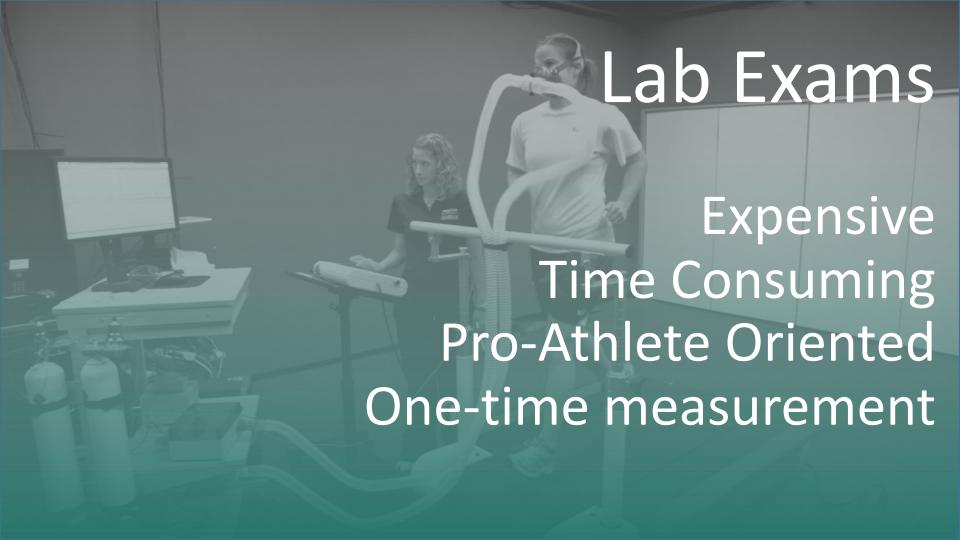




Current devices can help...

... But cardio doesn't tell the whole story









CHASKITM

Wearable Respiratory Activity Tracker
Real-time Feedback
Wireless Connection
to Smartphone or Smartwatch

CHASKITM

Progress tracking app
Al-based training support
Performance Insights



While Training

Get Feedback

How it works

Anaerobic

Threshold

Real time alarm

"You have reached the threshold"



After Training

Get Insights Check your performance Plan your next session

BENEFITS

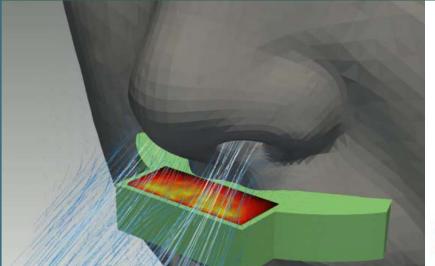


Athletes

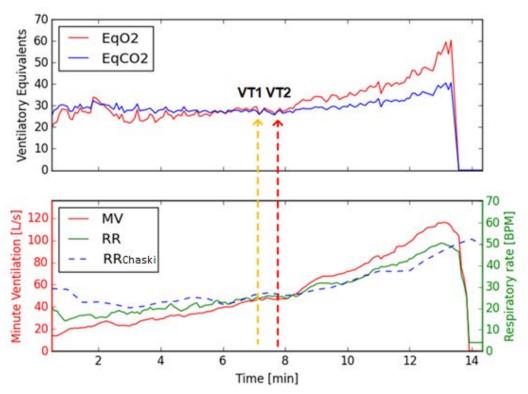
Coaches

TECH

- Solid Lines: Traditional lab tests
- Dashed Lines: CHASKI



- Respiratory Rate Measurement
- RR Analysis for Threshold Detection



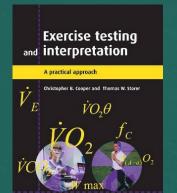
IP

Provisional Patent
US 627616,919 (January 2018)
PCT/IB019/050229 (January 2019)

"Techniques for quantifying respiration using a wearable device and related systems and methods"



- Media Coverage (TV & Newspapers)
- MIT's $Idea^2$ Innovation Program
- Support by Dr. Thomas Storer Part-Time Lecturer in Medicine@Harvard Co-author of exercise physiology book







12 Tendencias

Microdispositivo para runners buscará alertar ante eventuales fatigas

El aparato monitorea el flujo de las vías respiratorias y se espera que debute en la próxima Maratón de Nueva York.

Universidad Católica (PUC) de un microdispositivo respi ratorio creado especialmente para deportistas dedicados al running, que busca mejopasado fin de semana en el prante la acción

detectar el umbral anaeróbico para optimizar el

tividades de larga duración, como maratones"

El conejillo de Indias de esta York, quien se preparará y en la carrera usando el apa rato, que monitoreará su flu

"Una vez detectado el

umbral anaeróbico, asocia- donde se encontró la necesi- nera problemas entre los o do a los primeros síntomas dad de encontrar un modo portistas puesto que el ácido



egrado por ingenieros, médi- librio físico y evitar los proble- ma medirá la preparación físi-

se instala en







VALIDATIO

Survey and Online Registration Validation with Athletes and Coaches (from USA and Chile)

- Running Coaches
- Cycling Coaches
- Cross-Fit Coaches
- Recreational Runners
- Sports Team Physical Therapists
- Triathletes



TEAM

Management



Vader Johnson, MSc Founder & CEO 7yrs xp. Medtech Entrepreneur National Engineering Institute Awardee



Daniel Hurtado, PhD Founder & CSO 15yr xp. Biomechanics Young Scientist at World Economic Forum.



Roberto Lopez,PhD **Project Engineer**

R&D



Javier Kunstmann **Product Owner**



Angel Abusleme, PhD Tech Advisor



Macarena Rodriguez Felipe Contreras, PhD Sports Physiology **Sports Physiology**



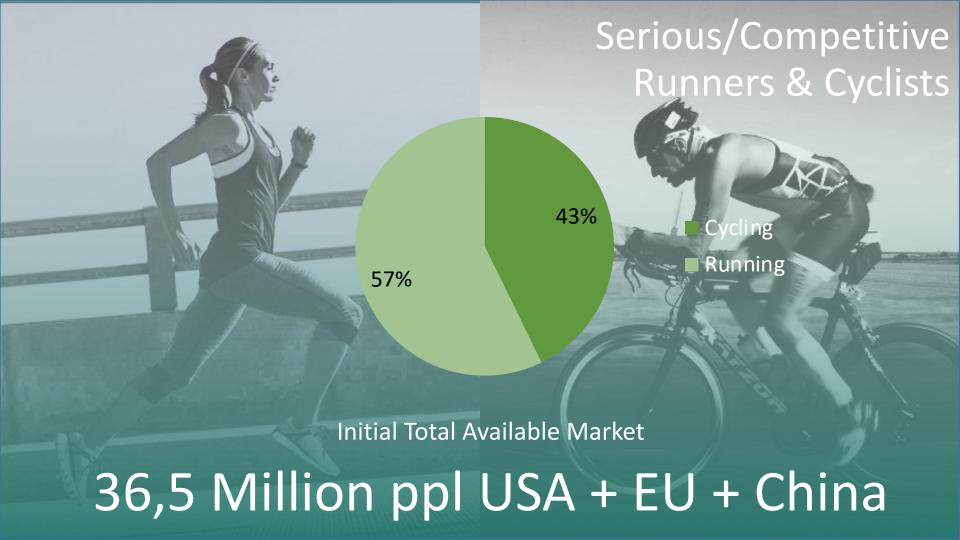
Advisors



Nancy Levy, PhD **Managing Partner Boston Landing Business Advisor**



David Rothkopf President of MEDIcept **Development Advisor**







- While in Boston, we talked with several sports physiology experts
 - Mostly positive feedback, and some interesting negative feedback
- Afterwards, we contacted coaches from the US, agreed to test the device when MVP is ready
- Also, we had meetings with entrepreneur/athlete to get validation as a business.
- Also, securing funding has consumed a good deal of our time

Goals

- Engage with at least 3 key coaches to be part of the validation.
- Design and execute an experiment that show that the device can detect Ventilatory Thresholds/Anaerobic Thresholds.
- Marketing Plan and Timeline (how and who we are going to sell this).

- Engage with at least 3 key coaches to be part of the validation
 - US-Based: Will try the MVP when ready
 - Kyle Wolfe:
 - Owner of Finishfast Cycling, Trains Thrialtlon and Cycling Athletes
 - Head Coach at USA Cycling Team: Women's National Talent ID Program
 - Douglas Chrystall & Vivien Rindisbacher
 - New England Devo Cycling, Senior Mentor and U23 Team Member, Respectively.
 - Chile-based: Will be part of the initial validation
 - Andrés Vial
 - Physiotherapist of Vasek Pospisil (Cánada) at ATP Tour
 - Board member of MUV Sports & Rehab Center

- Design and execute an experiment showing that the device can detect Ventilatory Thresholds/Anaerobic Thresholds.
 - Recruited Macarena Rodriguez, physiotherapist and Triathlete
 - Initial hardware robustness tests performed on her.
 - Initial Protocol written and under revision
 - These tests will gather respiratory rate data, that will be analyzed in the search of a VT/AT detection algorithm.
 - Dr. Thomas Storer will support the in-depth study next year (if we secure the funding we are applying).

- Marketing Plan and Timeline (how and who we are going to sell this).
 - Concept creation and validation with users
 - Endurance
 - Other Sports
 - Initial branding designs



KNOW YOUR LIMITS

Chaski smart breath analysis for athletes



PUSH YOUR LIMITS

Chaski smart breath analysis for athletes

