

VitalProbe Inc.

**World's 1<sup>st</sup>**



**Continuous Remote Health Monitoring Device  
for use by *Multiple Patients,*  
*Multiple Times***

**Better Health Outcomes**

# Markets for Continuous RPM

(Remote Patient Monitoring)



shutterstock.com · 2182359975

Remote Patient Monitoring



dreamstime.com id 1009944 | Sakis

Care Homes



Post Hospital at home



Assisted Living



Health Insurance



Fatigue-Stress



Pressure Ulcers



# Extending Continuous Care To Homes

## Extending care beyond hospital walls is a top priority for healthcare leaders<sup>1</sup>

Expanding out-of-hospital care could improve outcomes, reduce costs, and offer patients more convenience:



40%

of hospitals are expected to have shifted 20% of their beds to the patient's home by 2025<sup>2</sup>



60%

of patients find virtual care more convenient than in-person care<sup>3</sup>



80%

of patients are willing to seek care for minor illnesses at retail clinics<sup>4</sup>

1. Ranked as the second-highest priority after staff retention and satisfaction in the 2022 Philips Future Health Index report

2. Gartner 2022

3. McKinsey survey 2022

4. McKinsey survey 2019



# Global Competition – Continuous RPM Market

***ONLY VitalsTrak (4gm), FrontierX2 (25gm) Qardio (130gm) DO NOT require shaving chest hair***

ZIO<sup>®</sup>  
BY IRHYTHM

Records ECG ONLY / Data available after 14 days

FRONTIER X2

Reusable – Continuous ECG for 24 hours

VIVALINK

Reusable ECG ONLY patch

Boston  
Scientific

PHILIPS

Preventice  
SOLUTIONS

BioTelemetry

ECG ONLY in off-line or near Real time mode

VitalConnect<sup>®</sup>

Similar parameters as VitalsTrak, 7 days SINGLE use

QARDIO

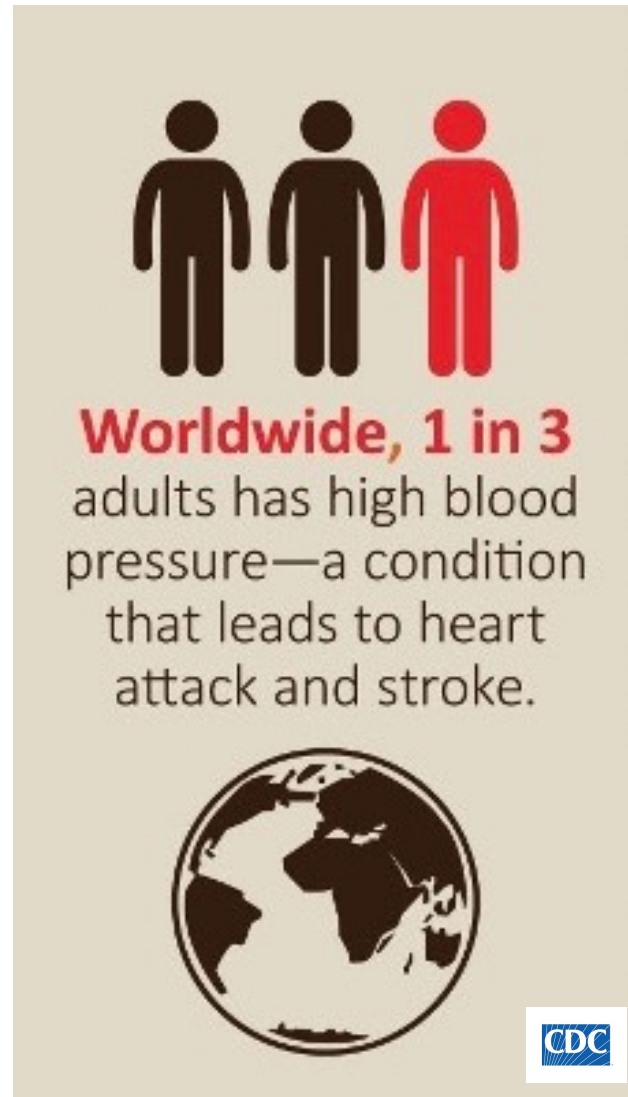
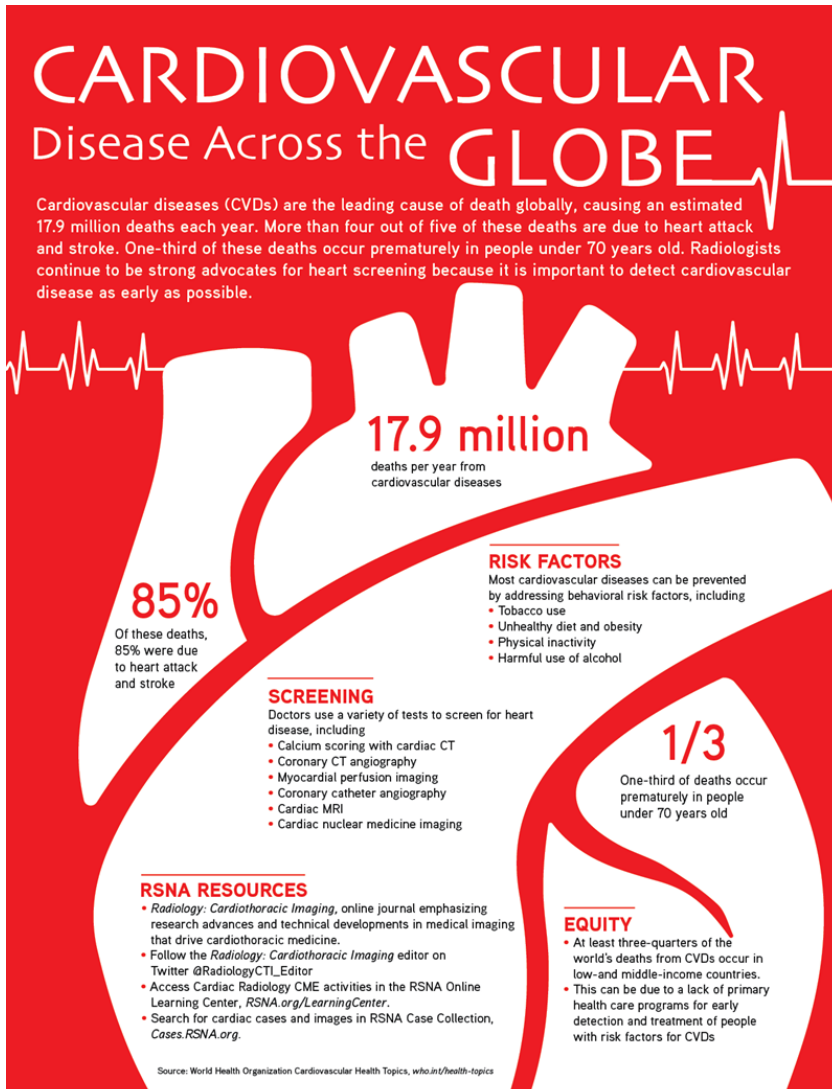
Similar parameters as VitalsTrak, 24 hours battery life

BioIntelliSense

Various Vitals, NO ECG



# Global CVD Epidemic Needs Continuous Monitoring



# India has 60% of the world's heart disease burden, with less than 20% of the pop.

# CVD is the number one cause of mortality

# 50% of heart attacks in Indian men <50 years

Indian Heart Association



# Bed Sores & Sleep Disorders



**Bed Sores / Pressure Ulcers affect\*:**  
Up to 17% of seniors at home  
Up to 24% of long-term care patients  
Up to 38% of patients in hospitals



**An estimated 40-70% of older adults suffer chronic sleep problems and ~50% cases are undiagnosed.\*\***



**Sleep disorders among Primary caregivers in India affect 42-57%\*\*\***

\*<https://effectivehealthcare.ahrq.gov/products/pressure-ulcer-prevention/research-protocol#:~:text=Estimates%20of%20the%20incidence%20of,and%2012.3%20percent%20in%202009.>

\*\*Avidan AY. Normal Sleep in Humans. In: Kryger Meir HAAY, Berry Richard B, editors. *Atlas of Clinical Sleep Medicine*. Second. Philadelphia, PA: Saunders; 2014.

\*\*\*Dahale AB, Jaisoorya TS, Manoj L, et al. Insomnia among elderly primary care patients in India. *Prim Care Companion CNS Disord.* 2020;22(3):19m02581.



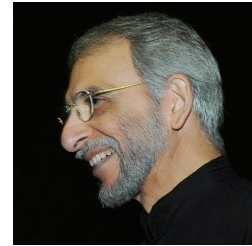
# The VitalProbe Team: Experienced Experts



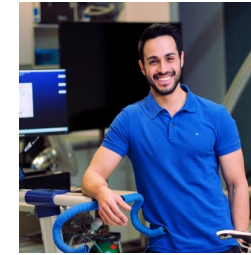
**Billa Bhandari**  
Founder-CEO



**Alex Chan**  
Co-founder / CTO



**Sanjeev Kathpalia**  
Co-founder / COO



**Tanuj Wadhi**  
Co-founder / Scientist

## Board



**Joe Foster**  
Founder / Reebok

**350 years of  
Global Experience**

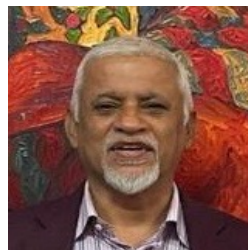
**David Boyer**  
GlobalWatch Technologies



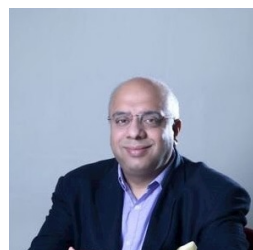
## Advisory Board



**Amr Eid**  
CEO, OmniClouds, UAE



**Dev Varyani**  
Chairman,  
Vista Group Africa



**Annurag Batra**  
Chairman,  
Business World India



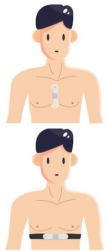
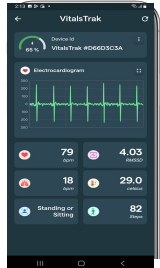
**Ajay Kohli**  
Professor & Chair,  
Georgia Tech, USA



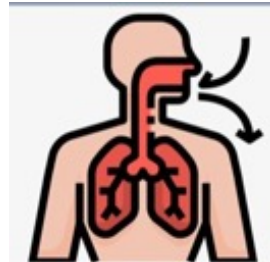
**Bill Shaheen**  
Partner,  
Shaheen & Gordon, USA



# World's 1<sup>st</sup> Multi-User, Reusable RPM Wearable



Continuous ECG



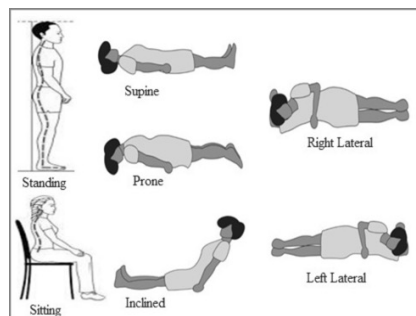
Respiration Rate



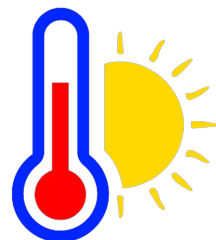
Activity Tracking



Heart Rate Variability

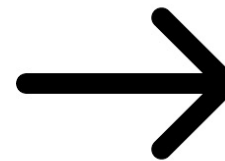


Position Monitoring



Skin Temperature

World's 1<sup>st</sup>



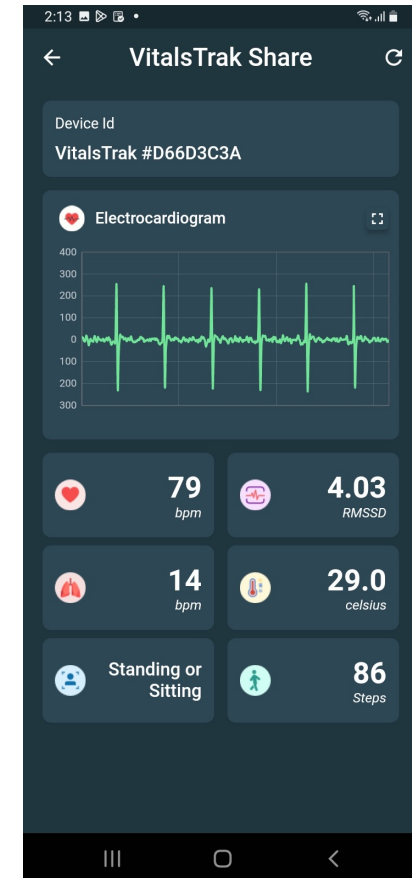
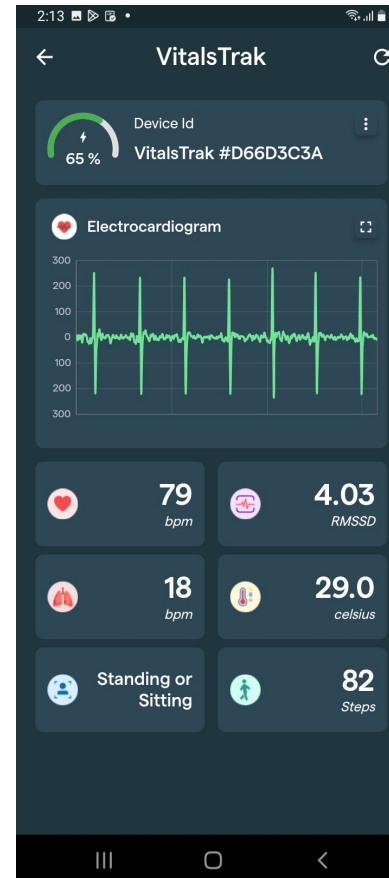
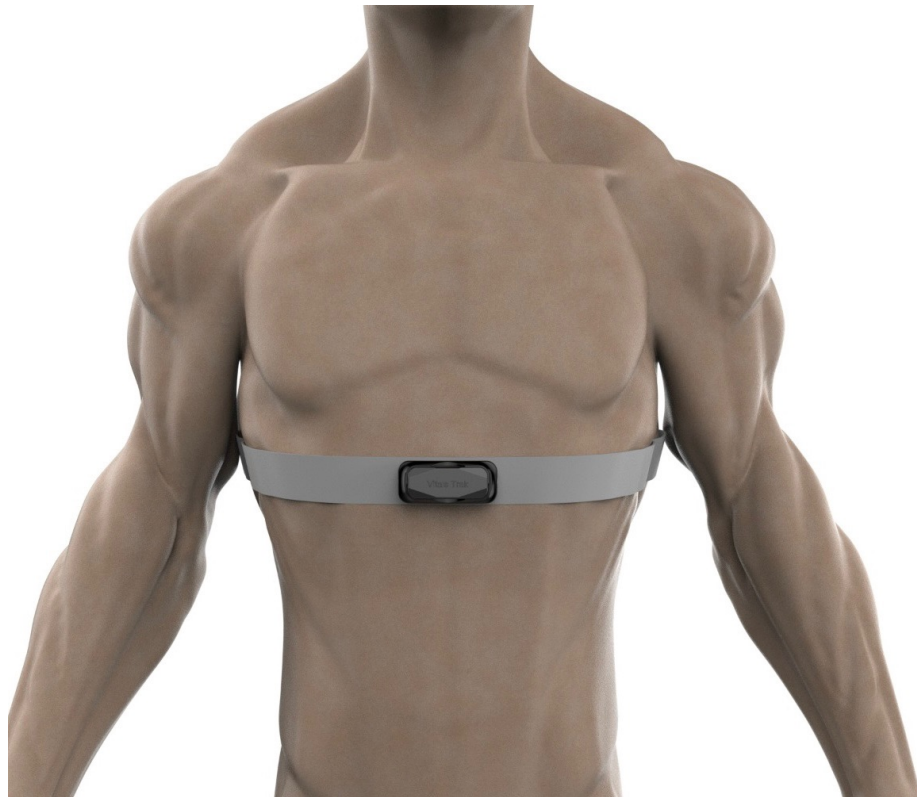
*'Connected, Cognitive wearable'*  
measure, monitor and alert.  
(Smaller than a band aid)

**Rechargeable Battery**  
**Lasts up to 120 Hours**  
**Charge Time 90 Minutes**

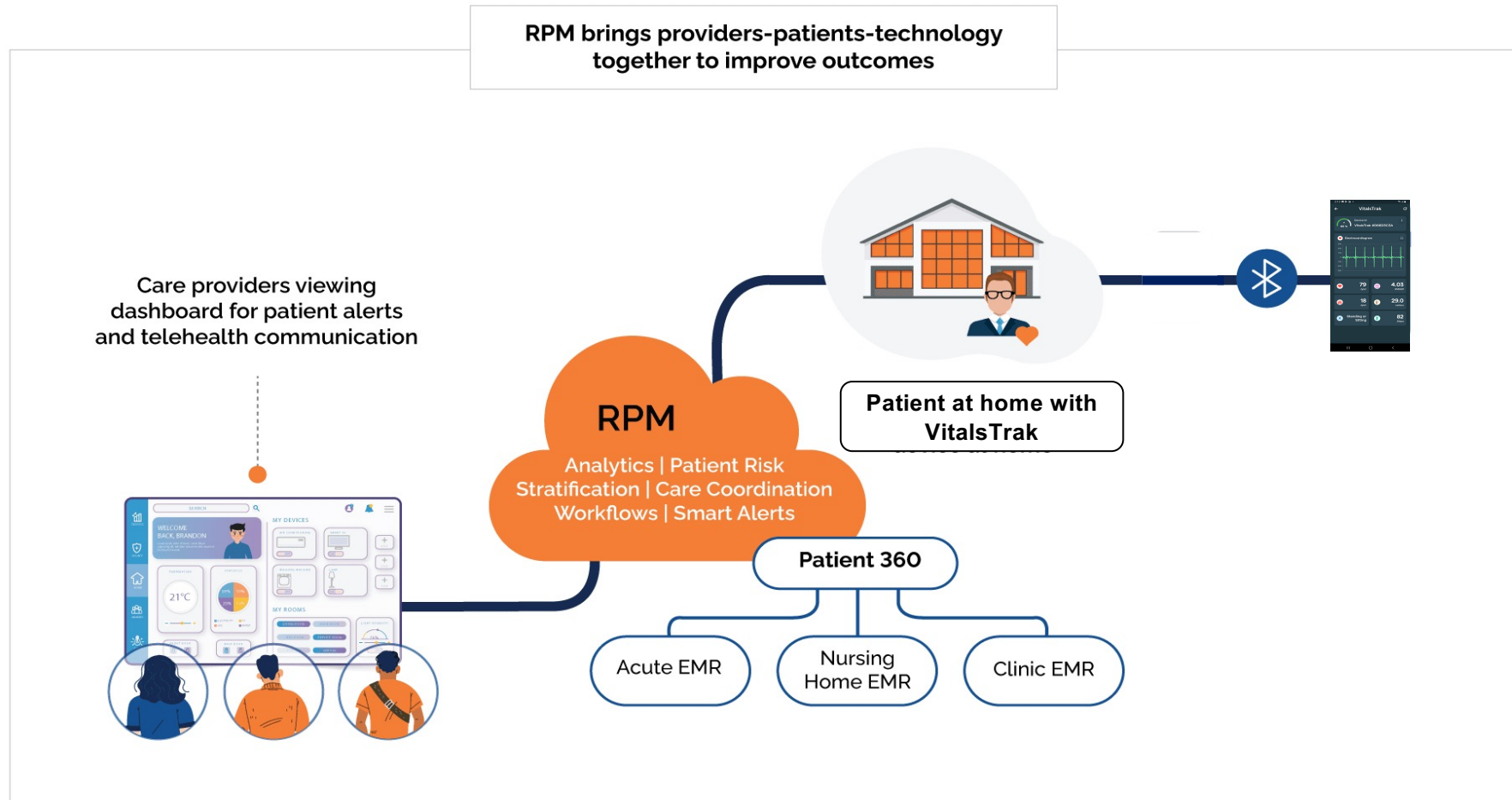




# Wearability, User View & Remote View



# Connects Patients & Caregivers Seamlessly



# Designed for Data Security, Privacy & Mobility

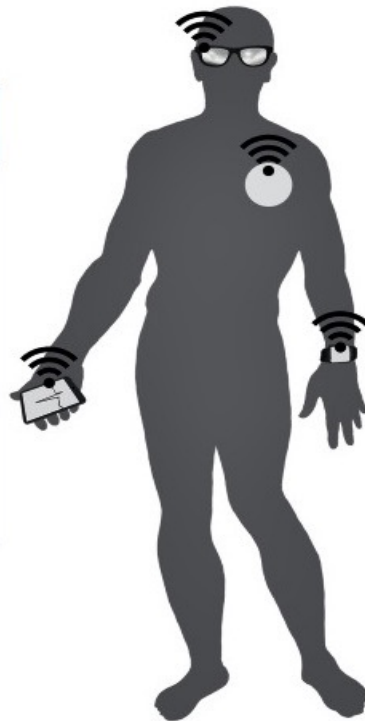


# Uniquely designed for Total User Privacy

# 'User vitals' access requires the Revokable User Consent

## Ambulatory Monitoring Capabilities

- ECG
- Heart Rate
- Arrhythmia
- Blood Pressure
- Cardio-Respiratory Fitness
- Stress
- Respiratory Rate
- Temperature
- Oxygen Saturation
- Ischemia
- Apnea



# VitalsTrak continuously monitors 8 of 11 (73%) recommended Ambulatory Monitoring Parameters

Sana, F. et al. J Am Coll Cardiol. 2020;75(13):1582-92.



# Hospital Readmissions Can Drop 55%

## Remote patient monitoring benefits for patients



**43%**

Convenience



**39%**

Efficiency



**37%**

Control over  
personal health



**36%**

Greater accuracy



**36%**

Peace of mind

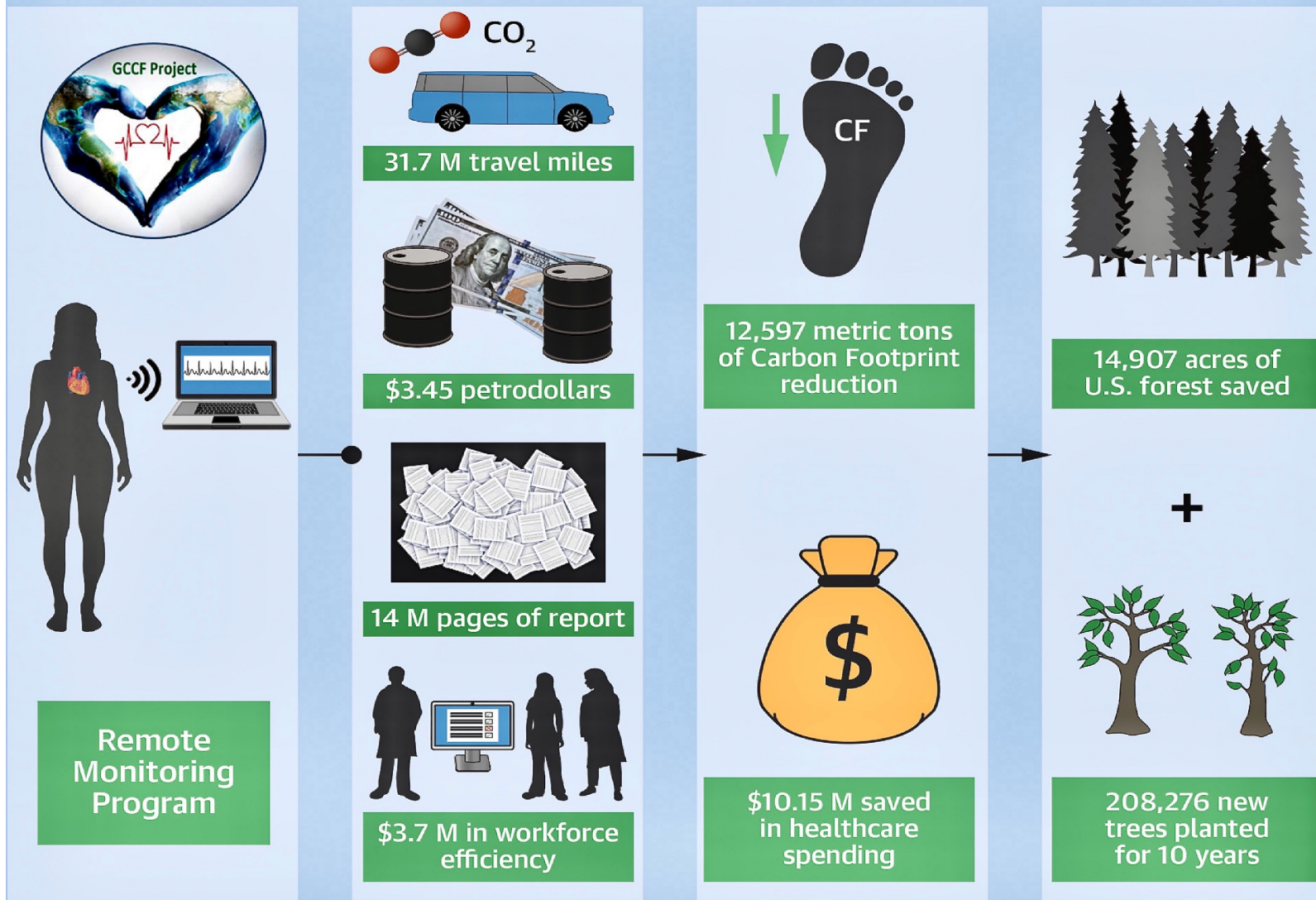
MSI International survey: [80% of Americans favor using RPM](#)



Trinity Health RPM Program: Hospital readmissions dropped 55% (from 18% to 8%) in 30 days



# Reduces Greenhouse Gas Emissions



Bawa D, Ahmed A, Darden D, et al. *Impact of Remote Cardiac Monitoring on Greenhouse Gas Emissions*. *JACC Adv.* 2023 May, 2 (3).

**32,811 patients over two years saved >\$100m**



# Incubated in USA and UAE

**Spartan Incubator**

**DUBAI FUTURE ACCELERATOR**

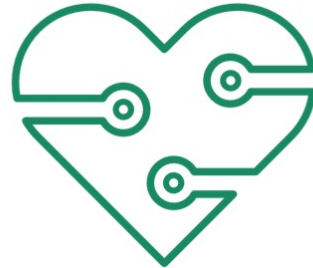


## Cohort 6 & Partnership

Paper Presented in September 2022 at European College of Sports Sciences (ECSS), Seville, Spain by UoT, Research & Data Validation Partner



# The VitalProbe Center of Excellence



**# CoE to promote research in Biomedical and Health Informatics**

**# IBM, BITS Pilani and VitalProbe to accelerate WatsonX adoption globally**

**# Create and Promote advanced training in Data Science, AI/ML and Governance**



# Go To Market Partners





# Technology Development Partners



# About VitalProbe Inc.

HQ



Delaware, USA

R&D

Accelerated R&D Colored Icon



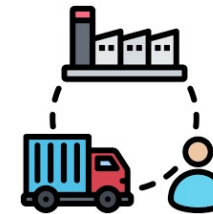
Japan & India

Software



India & USA

Supply-chain



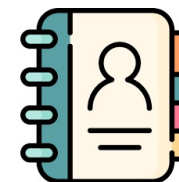
Japan & Sri Lanka

Offices



UAE, India, Sri Lanka

Contact



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