

Think it Sensitive, Make it Smart



Sensing•Health

Posture recognition AND MORE!

13 Diciembre UPC Terrassa



The logo features the word "Sensing" in a bold, black, sans-serif font, followed by a dot and the word "Tex" in a bold, lime green, sans-serif font. Above the "i" in "Sensing" are three overlapping circles of varying shades of lime green, arranged in a slight arc.

Sensing·Tex



Mission Statement

Sensing Tex helps companies successfully deliver innovative **Stretchable Printed Electronics**, to make IoT solutions



Sensing·Tex



Development, Production and Commercialization of Smart Textiles based on Printed Electronics



Focussed on **Large Area Pressure Sensor Textiles**



With our **proprietary Patented Technology** we functionalize the Textiles to feel pressure with multi-contact behaviour. This allows us to monitor **Pressure Mapping**



Sensing **Mat**



Pressure Maps Raw Data to Data Analytics – Big Data



Biosignals Tracking



Postural Detection



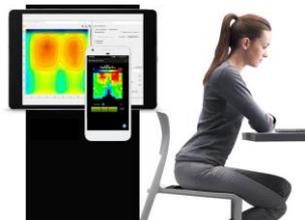
Movement Analysis

Sensing Mat Platform

Bedding Platform



Seating Platform



Flooring Platform

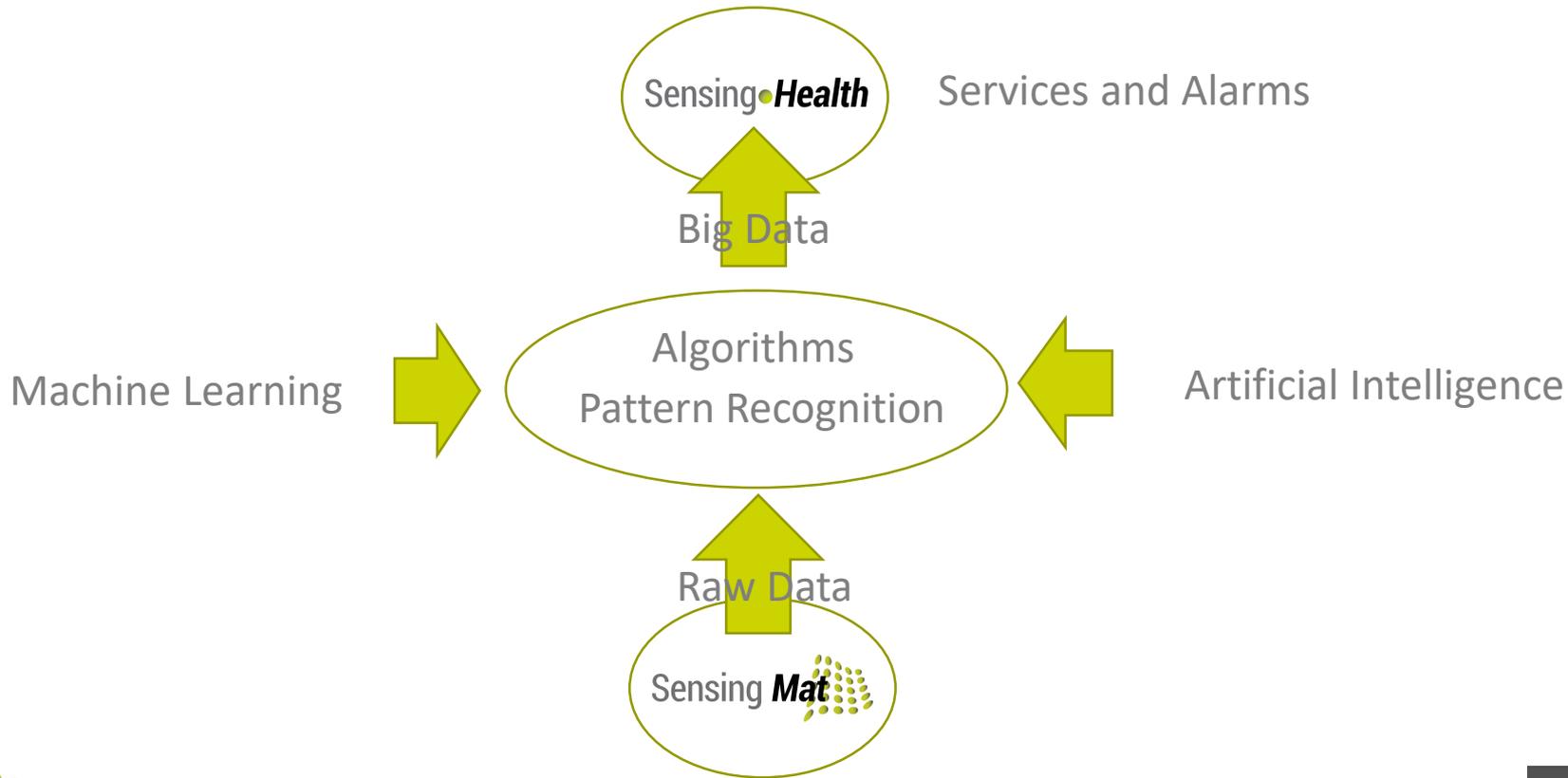


Daily Planet Canada

Business Model from the Brands



From Data Analytics to Services



Sensing●*Health*



Medical Textile Market

Medical Textiles
Market Size
Worth \$23.3
Billion By 2025 |
CAGR: 4.9%

Global
Healthcare
Fabrics Market
Will Reach USD
15.7 Billion By
2025: Zion
Market Research

The Global
Medical Smart
Textile Market is
expected to
register a CAGR
of 7,51% to reach
2,105.32 Million
by 2027.

<https://www.grandviewresearch.com/press-release/global-medical-textiles-market>

<https://www.globenewswire.com/news-release/2019/03/14/1752927/0/en/Global-Healthcare-Fabrics-Market-Will-Reach-USD-15-7-Billion-By-2025-Zion-Market-Research.html>

<https://www.marketresearchfuture.com/reports/medical-smart-textile-market-1123>

Pressure & Falls Injuries are a High Cost for a Health System

Pressure injuries cost the US healthcare system an estimated **\$9.1-\$11.6 billion** annually ¹

Fall Injuries cost to the UK NHS an estimated **£630 million** annually 2016 ²

¹ according to the **Agency for Healthcare Research & Quality (AHRQ) 2016**

² according to the report **The incidence and costs of inpatient falls in hospitals NHS July 2017**

Pressure Ulcers – The Reality in EU

4M
PEOPLE in
EU

COST
70,000€/
YEAR



Sensing Health reduces Pressure and Fall Injuries

Our ***Sensing Health*** by Sensing Mat Platform is a continuous monitoring **Product and Service** across the ***Care Continuum*** that provides early detection to help lower risk and improve patient care while reducing costs

Sensing Health has been designed to address two major group of services that your facility faces every day: **Fall Prevention and Pressure Ulcer Prevention**. The system has an easy-to-use interface and clinical flexibility that allows the system to be integrated into your unique care setting.

Sensing●Health

Sensing Health InfoGraphy

Sensing•Health Ecosystem

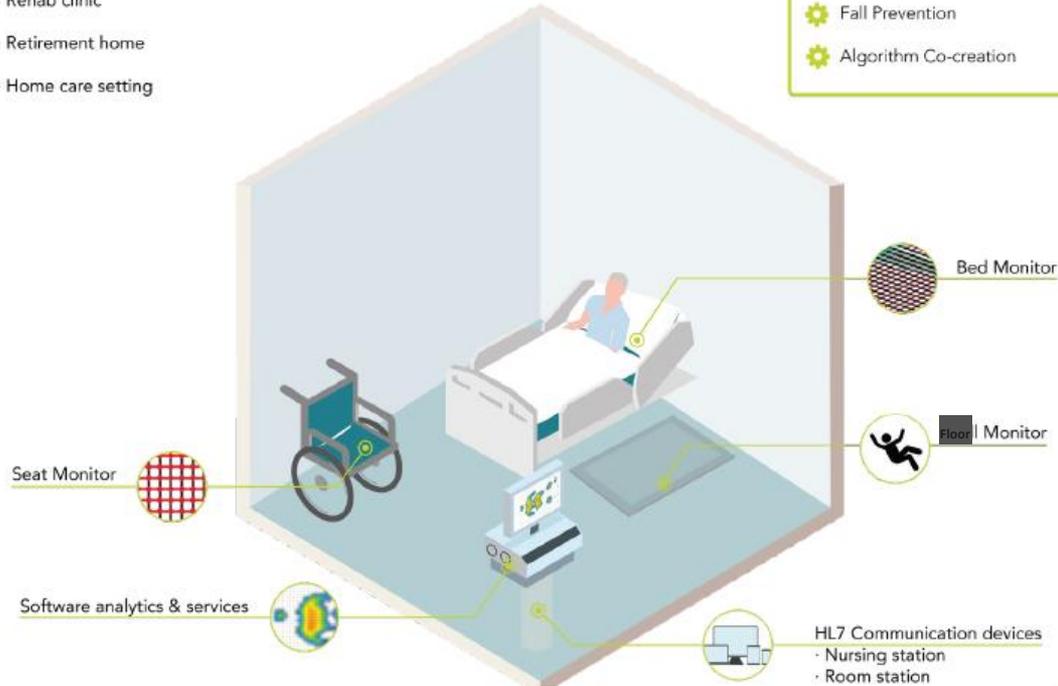
- Hospital
- Rehab clinic
- Retirement home
- Home care setting

Sensing•Health

"Smart Health prevention to improve patient care"

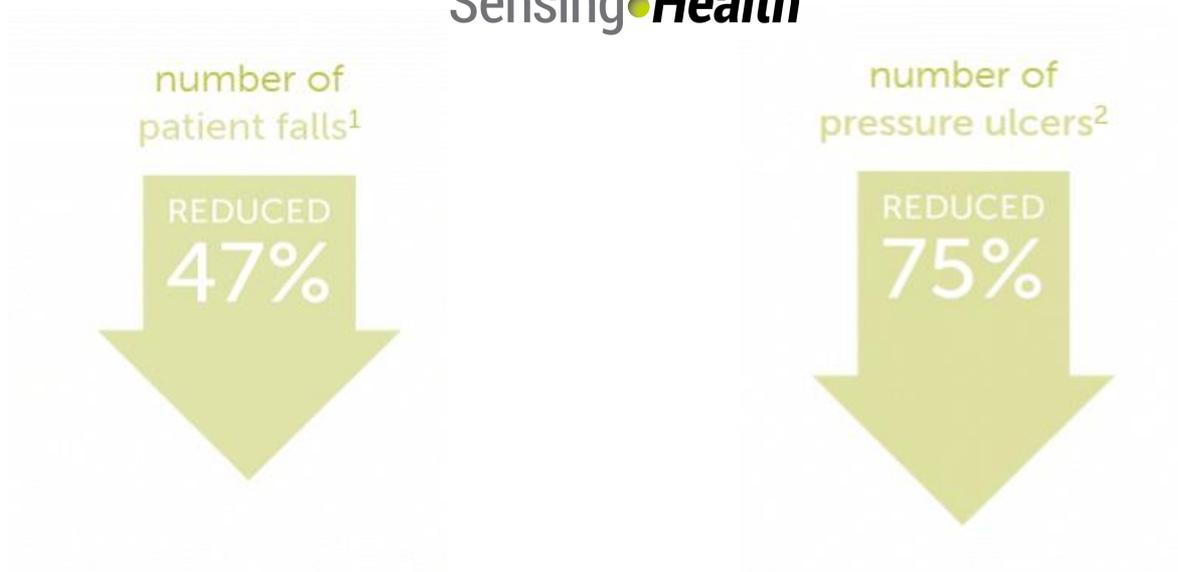
Sensing•Health Services

- Pressure Ulcer Prevention
- Fall Prevention
- Algorithm Co-creation



Benefits for the Health Care System

Sensing•**Health**



¹ A Cost-Effectiveness Analysis of a Proposed National Falls Prevention Programme

[Clinics in Geriatric Medicine](#), November 2010

² Staff's perceptions of a pressure mapping system to prevent pressure injuries in a hospital ward: A qualitative study

[Journal of Nursing Management](#), 26(2), 140-147, 2018

Sensing Health Services v.1.0 Bed Monitor 1.0



PUP Services
*Pressure Ulcer Prevention
Services*

REPOSITIONING ALARM



FP Services
Fall Prevention Services

FALL ALARM

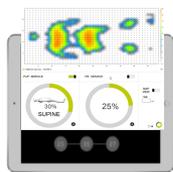


CC Services
Co-Creation New Services

***BIG DATA
BIOSIGNALS REPORTS
SLEEP REPORTS
WANDER PREVENTION
EXERCISE REPORTS
EPILEPSIA ATTACKS
DETECTION***

Think it Sensitive, Make it Smart

Product Hardware Components Bed Monitor 1.0



Overall Area
900 x 2000 mm



Sensing Area
825 x 1800 mm



Sensor Elements
1056



Mattress Cover



Bluetooth 2.0



USB 2.0
24/7



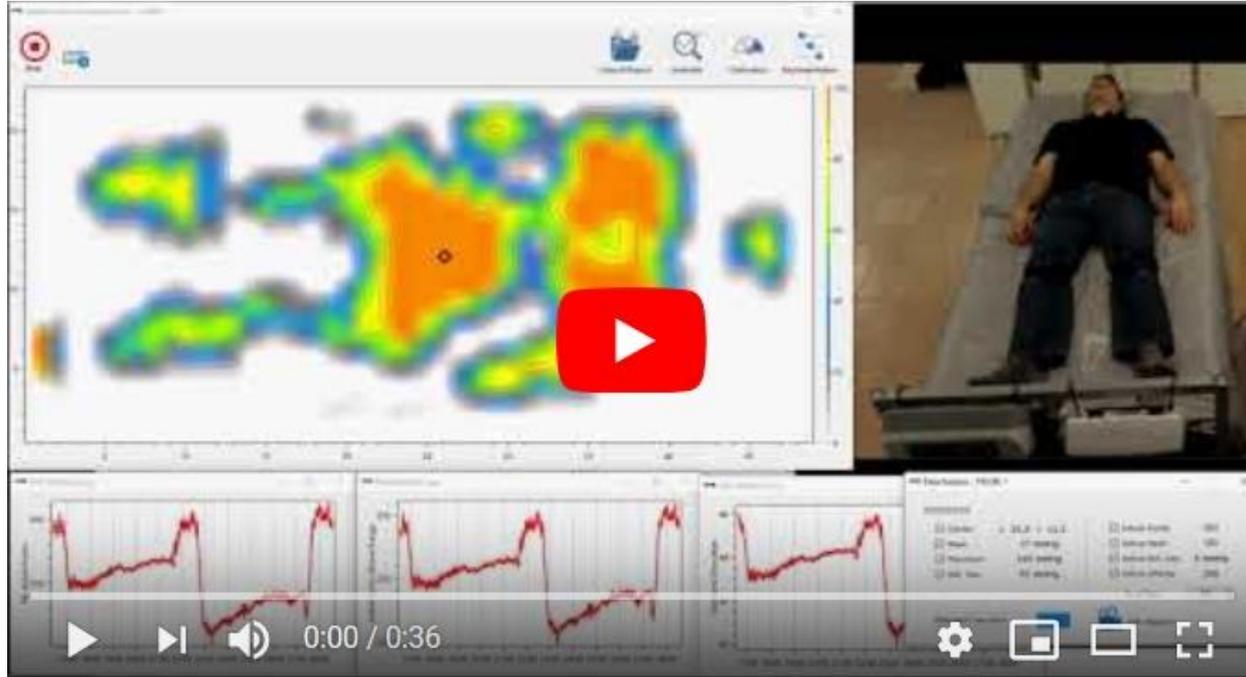
USB Powered



Electronic
Module
90x47x17 mm

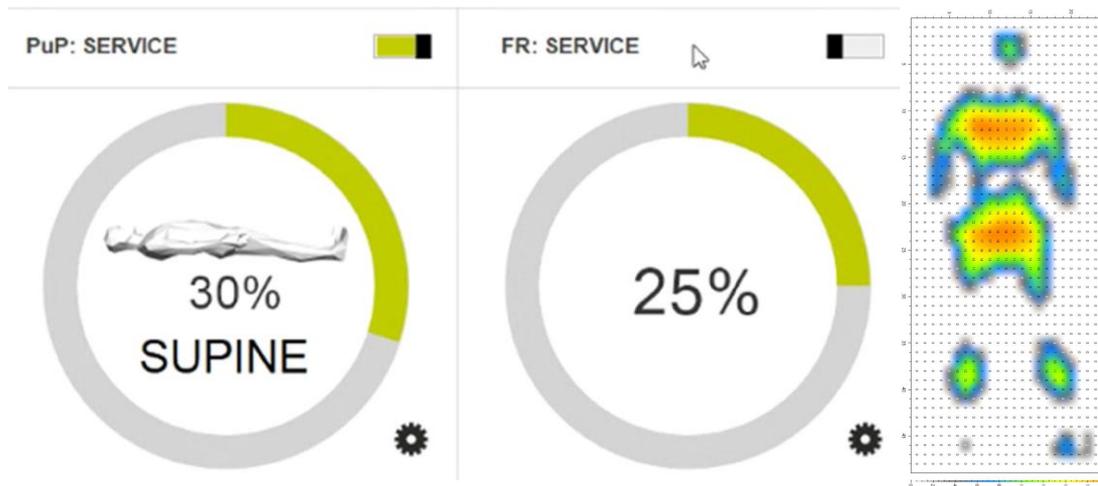


Data Analytics Demo Alternating Inflation Mattress



Software Sensing Health v1.0 – App Services

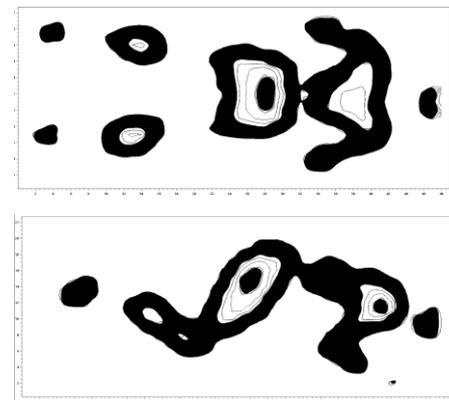
Customization and
Integration to Hospital
Information Systems
**HL7 and Cloud
Services
Based on APIs**



Our Current CV Vision, Machine Learning and AI



Shape Analysis



Position Analysis

Lying Positions

Machine Learning

Spatial Statistical #

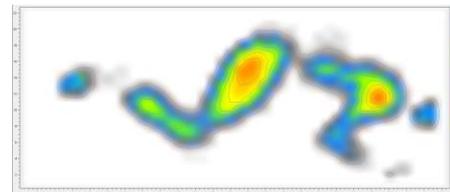
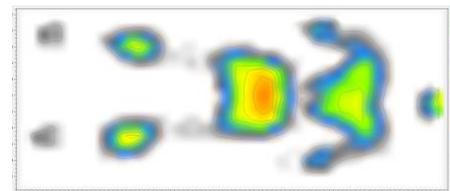
CoS/CoP, Contact Area, etc

Computer Vision

Our CV, Machine Learning and AI in Progress



Pressure / Gradient Analysis



Pressure Gradient

Bone Area Detection

Machine Learning
& Computer Vision

Pressure Gradient

Biosignals

Computer Vision

Pressure Statistical #

Gradient – Average

Computer Vision

What's Next? AI & New Services

Sensing Health is a complete set of services that improves quality of life and care resources for low mobility and bedridden patients and care systems respectively based on the latest algorithms developed thanks to the **Big Data** provided by our low cost single sensor pressure mapping system and using latest **IT technology of Computer Vision, machine learning and AI**



Computer Vision



Machine Learning



Artificial Intelligence

Thank You!

luis.gomez@sensingtex.com

Contact

SENSING TEX, SL

Ctra. C-251 Km. 5,6 Parc de Belloch,
08430 La Roca del Vallès, Barcelona

SPAIN

info@sensingtex.com

Sensing Tex, SL. Sensing Tex® Registered. 2018 All rights reserved. Confidential and proprietary document.
All logos and descriptions are property of their respective owners

This document and all information contained herein is the sole property of Sensing Tex, SL. No intellectual property rights are granted by the delivery of this document or the disclosure of its content. This document shall not be reproduced or disclosed to third party without the express written consent of Sensing Tex, SL. This document and its content shall not be used for any purpose other than that for which it is supplied.