HEALTH

MONITORING

SYSTEM



Get help inside the home

Detects:

- **Body Temperature**
- Respiratory Rate
- **Activity Tracking**
- Heart Rate + HRV
- Stress Monitoring

falls!



and

CAN BE A LIFESAVER!

PRODUCT INFRASTRUCTURE

- NICE AND FRIENDLY DESIGN. THE WEARABLE PART IS IN PENDANT AND/OR WRISTBAND AND/OR CHEST BAND FORM. WATERPROOF.
- THE POWER FOR THE WEARABLE PART IS GENERATED BY BATTERIES OR ENERGY HARVESTERS BASED ON BODY TEMPERATURE AND MECHANICAL (ELASTIC) ENERGY GENERATED BY FALLING.
- MICROCONTROLLER-BASED PRODUCT, IN THE WEARABLE (ULTRA LOW POWER) AND IN THE FIXED PART.
- WIRELESS CIRCUIT

SENSORS

- TEMPERATURE SENSOR
- POSITION AND ACCELERATION SENSORS
- VELOCITY SENSOR
- ECG SENSORS
- RESPIRATORY RATE SENSOR
- GALVANIC SKIN RESPONSE SENSOR



CONNECTIVITY

- FOR THE WEARABLE PART:
 - BLUETOOTH 4.0 OR ZIGBEE



- WIFLOR
- CELLULAR (MOBILE) TECHNOLOGY

FOR DATA TRANSMITTING IN THE CLOUD.



ANALYTICS

- DATA FROM SENSORS ARE USED TO DETERMINE THE STATE OF HEALTH OF THE PERSON.
- DATA FROM SENSORS COULD BE USED IN CONJUNCTION WITH:
 - OTHER DATA CONCERNING THE HEALTHCARE INFRASTRUCTURE AVAILABILITY IN ORDER TO:
 - TALK TO THE PERSON FOR COMFORTING AND/OR GIVE THE PRIMARY ASSISTANCE (SPECIALISED CENTERS).
 - SENDING THE NEAREST AMBULANCE.
 - OTHER PERSONAL DOCTOR DATA TO GIVE ADVICE.

APPLICATIONS

- FOR SMARTPHONES, TABLETS AND COMPUTERS TO ACCESS THE DATA IN THE CLOUD.

- IN THE CLOUD TO:
 - FILTER THE DATA
 - SECURE THE DATA
 - ANALYSE THE DATA AND ASSIST IN THE DECISION PROCESS
 - PRESENTING/VISUALIZING THE DATA IN A FRIENDLY AND USEFUL FORM