

# **Main elements and aspects of Health Monitoring System.**

## **1) Human element**

- Patient (input)
- Doctors and medical expertise (monitoring and reactive)
- Nurses (monitoring and reactive)

## **2) Electronics and sensor elements (device)**

Patient monitoring sensors

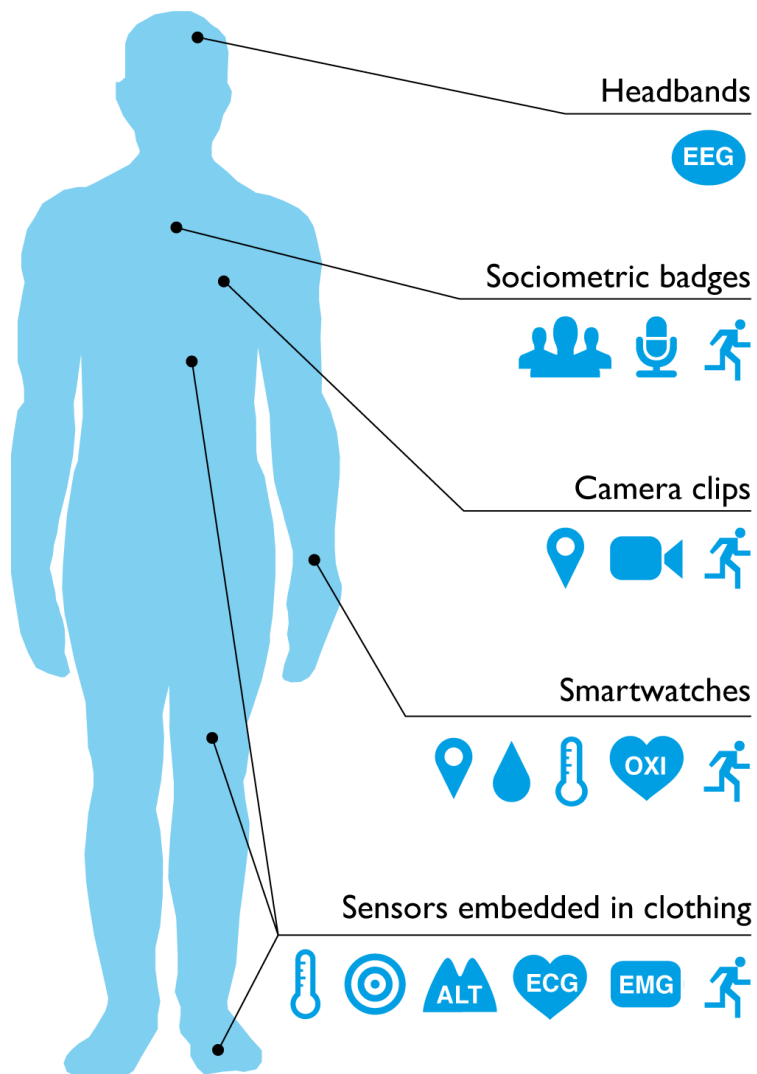
- Glucose monitoring
- Temperature monitoring
- Blood pressure monitoring
- Pulse oximetry (oxygen saturation of the blood)
- Smart implants
- GPS system (Important for patients with amnesia)

Hospital environment sensors

- Smog sensor (air quality)
- Water quality sensors (Ph value and impurities)

## **Requirements**

- 1) System must be functional in real time.
- 2) System must be reliable and precise.
- 3) System must be safe and user friendly.
- 4) System must be sustainable and complete.
- 5) System must have alarms.
- 6) System must have data storage facility (Cloud storage).



Accelerometer



Altimeter



Digital camera



Electrocardiogram



Electromyograph



Electroencephalogram



Electrodermograph



Location GPS



Microphone



Oximeter



Bluetooth proximity



Pressure



Thermometer

