**Tshirts :**

For babies and for patients.

Respiratory sensors used to detect the respiratory cycle.

Temperature sensor used to analyse the body temprature.

Motion sensor used used to get the body movements.

Noise sensors for detecting the snoring sounds. :p

Combining these 4 sensors following can be done :

-to measure the movement of the body throughout the night and provides a "wakefulness analysis" for getting the sleep cylces of the patient or the child.

-send to a smartphone or tablet via the cloud, that then provides parents with information around their child's skin temperature, body position, and respiration and can alert them if something unusual is detected.

Usecase :

Can be used for patients having asthama problems, for children, and for isomania.

**Water Pressure and leakage sensors :**

Place water sensors inside the water line of the city.

Sensors include pressure measurement sensors to ensure any leakages

Sensors to check quality of water at every junction. So that if at any point quality degrades, we need to replace the pipes at that junction and not at everywhere.

More usecases:

Can be used in rivers for ensuring the quality and other reservoires.

In rivers to check water pressure at different sites such as dams and other lower places to get info about floods prior.

**Gunfire Detection :**

**-** 10 to 12 audio sensors to be installed on top of roofs or streetlights for every square mile of street coverage.

- When a loud noise is registered by 3 or more of the sensors of a pre known intensity the cops can come into action:

* GPS clock signals from the sensors are synchronized and used to provide location data down to a specific street name.
* The captured audio is compared to a database of known weapons signatures of a particular intensity.
* This can further be enhanced by using a high resolution camera through a satellite control to detect the guns and the no. of persons for that activity.

-Sensors used:

Audio sensors

GPS

Usecases : Police army, very useful incase of riots for the authority.