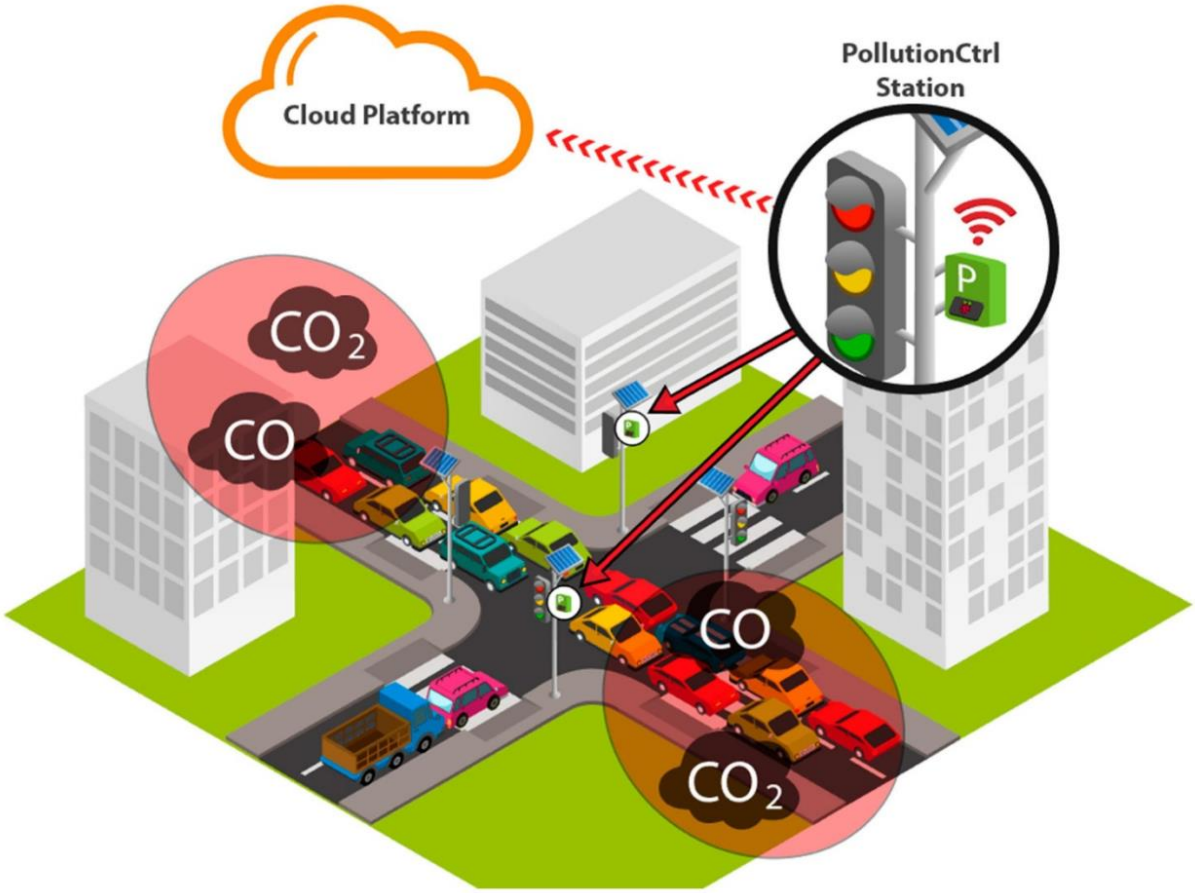
INNOVATION OF NOISE POLLUTION MONITORING IN IOT

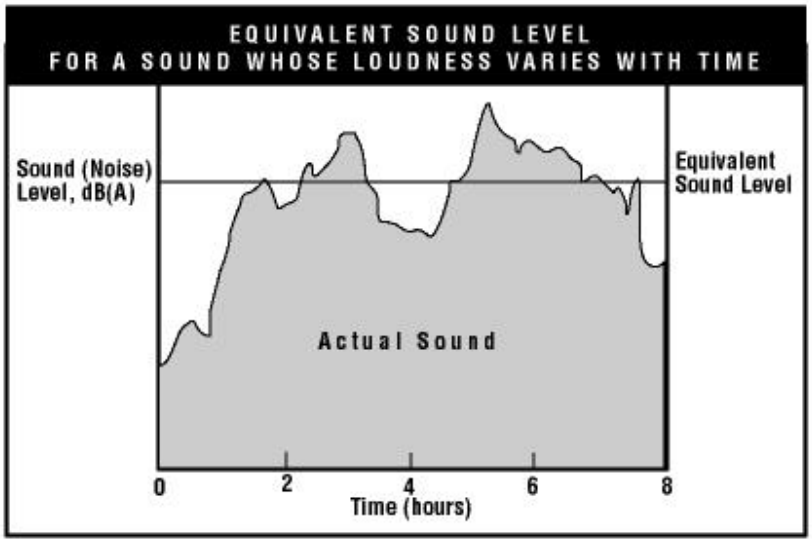
innovative ideas :

We can Reduce Noise pollution by turning off appliances when not in use, use of earplugs, lowering the volume, planting more trees, regular maintenance of vehicles and machines etc. By controlling noise we can control the negative health effects that noise pollution has on everyone.



Potential sources of noise pollution:

Noise pollution can come from outdoor sources, such as road traffic, jet planes, garbage trucks, construction equipment, manufacturing process- es, lawn mowers, leaf blowers, and indoor sources, including: boom boxes, heating and air conditioning units, and metal chairs scraping on floors.



Methods to monitor noise pollution:

What types of instruments are used for measuring noise? The most common instruments used for measuring noise are the sound level meter (SLM), the integrating sound level meter (ISLM), and the noise dosimeter. It is important that you understand the calibration, operation and reading the instrument you use.

Devices used to control noise pollution:

Acoustic barriers, acoustic enclosures, acoustic foams, ceiling baffles, acoustic canopies, varitone sound absorption systems, eco barriers, soundproof doors and windows, and many more are there to control industrial noise pollution.

Control by noise pollution:

Noise pollution impacts millions of people on a daily basis. The most common health problem it causes is Noise Induced Hearing Loss (NIHL). Exposure to loud noise can also cause high blood pressure, heart disease, sleep disturbances, and stress. These health problems can affect all age groups, especially children.

1Control at Receiver's End

(2) Suppression of Noise at Source

(3) Acoustic Zoning

(4) Sound Insulation at Construction Stages

(5) Planting of Trees

(6) Legislative Measures.

A much more effective way of reducing noise and noise pollution is to use noise barriers and soundscape together, by incorporating noise barriers, auditory ratings and visual assessment. Here we note that this way allows the design of better noise barriers and soundscapes and thus better acoustic urban environments.

Internet of things or commonly called IoT refers to the network of physical devices, vehicles,Electronic appliances and other items embedded with sensors, software and connectivity which enables These things to connect, collect and exchange data without requiring human-to-human or human-to-

Computer interaction [1]. IoT is currently growing due to some factors such as convergence of multiple Technologies, real time analytics, machine learning, commodity sensor and embedded systems [2]. The Term IoT was firstly coined by Kavin Ashton of Procter and Gamble and later by MITs Auto-ID centre

(1999) [3]. Cisco System estimated that IoT was developed between 2008 and 2009 [4]. It is widely Used in today's applications such as consumer, commercial, industrial and infrastructure spaces. There

Is a lot of thing that can be implemented for the consumers' daily uses.