**IOT BASED NOISE POLLUTION MONITORING**

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**PHASE 5: PROJECT SUBMISSION**

**PROJECT: NOISE POLLUTION MONITORING**

**INTRODUCTION :**

**Noise** **pollution**,

Noise pollution commonly referred to as environmental noise or sound pollution, is the spread of noise that negatively affects human or animal behaviour.

**Objectives**:

* To monitor and control sources that produce and cause noise.
* Maintaining the noise-related criteria for ambient air quality.

**Applicability**:

At all public locations where the ambient noise levels cause noise pollution, which includes noise from things like machinery, loudspeakers, mechanical devices, public address systems, music systems, and more.The Environment Protection Act lays out a framework for researching, organising, and putting into practise long-term environmental safety requirements. It also establishes a system for prompt and adequate response to environmental threats.

IOT SENSOR DEPLOYMENT:

In the past decade, human life changed because of the internet. The internet of things has been heralded as one of the major development to be realized through out the internet portfolio of technologies. The Internet of Things (IOT) is concerned with inter connecting communicating objects

that are installed at different locations that are possibly distant from each other. Internetof Things represents a concept in which, network deviceshaveabilityto collect and sense data the world, and then share that data across the internetwhere that datacan be utilized and processed for various purposes. Theinternet of things describes a vision whereobjects becomepart ofinternet: whereevery objectis uniquely identified and access to the network. IOT communication is quite different from the traditional human to human communication, bringing a large challenge to existing telecommunication and infrastructure. Further more, IOT provides immediate information regarding access to physical objects with high efficiency. The concept of Internet of Things is very much helpful to achieve real time monitoring of sensor data. Internet of Things (IOT)is akind of network technology, whichis based on information sensing equip ments such as RFID, infrared sensors, GPS, laser scanners, Sensors and soon, can make anything join the Internet to exchange infor mation, according to the protocol, which gives intelligent identification, location and tracking, monitoring and manage ment. Cloud computing provides the access of application sasutilities, overthe internet. Cloud computing is a large scale processing unit which processes in run time and it is also a very low cost technology based on the IP. The application area of IOT includes building and home automation, smart city project, smart manufacturing various products, wearables , health care systems and devices, automotive etc.

**PLATFORM AND MOBILE APP DEVELOPMENT:**

**Environmental Noise Pollution Monitoring**

Environmental monitoring is a crucial task to control our planet status and develop-ment trends. With the adequate set of technologies and tools it is possible to monitoralmost any measurable parameter. In our case, we are interested in controlling thenoise levels on cities.In [3] it is described and applied the concept of creating a GI system with Volun-teered Geographic Information (VGI), called Public Participatory GIS. The authorsdefine a PPGIS as the result of using GIS capabilities and techniques by the generalpublic, although it was first described in [4]. Moreover, in this paper, scientist com-munity is encouraged to break top-down strategies of delivering geographic data,where government entities, institutions or companies provide them at their own inter-est. The authors’ state that is important to create new bottom-up data productions inorder to create GI systems that really fits users’ needs and availability. An example ofPPGIS application it is found in [3], where Canela (Brazil) users can post commentsabout POIs related to health or education, such as complains for a school menu ser-vice or asking for information related to cultural heritage.In [5] we could find a good description of the concept “Citizens as Voluntary Sen-sors”. The author states that humanity as a collective, possesses a huge amount ofknowledge about the Earth surface and its properties, such as place names, topog-raphic areas or status of a transportation network. If we enable this people with elec-tronic devices to digitize this information, we have a massive collection of raw datacollected by volunteers that we can use in our analysis, services and geoprocesses.Following the PPGIS and Citizens as Voluntary Sensors guidelines, we thoughtthat it would be interesting to join both concepts to apply them in environmental noisepollution monitoring. In this field, some attempts already exist:According to [6] there are three main approaches to assess noise pollution: simula-tion maps and data collection through sensor networks. First method consists in ap-plying physical noise propagation laws considering well-known noise sources to getnoise affection maps, while second method is based on acquiring data using a distrib-uted network of sensor devices. Finally, there is another method they outline, based inthe direct participation of citizenship by providing VGI.In this paper, we are going to extend the idea described in [6] by developing twomobile applications to collect noise pollution data in urban areas by applying to itsdevelopment Gamification concepts. Therefore, as users will collect their own noisesamples, we are using the concept of citizens as sensors [5] and, as we are going topublish our data in a Noise Mapping Platform, we are contributing to the enlargementof a PPGIS.

**General Gamification Concepts**

The ‘citizens as sensors’ paradigm [5] implements the idea of crowdsourcing the sen-sor data collection. This is a straightforward way of collecting huge amount of data at

 MOBILE APP DEVELOPMENT:

Mobile app development for Noise Pollution Monitoring through Gamification Techniques 565

a very low cost. Nevertheless, users need an incentive to make volunteers collectthose data willingly. At this point here is where the gamification methodology playsits role. In [7] it is questioned how the general public can be motivated to voluntaryparticipation by displaying noise data publicly on a Web GIS platform through mapsor allowing tagging the noises measured to enrich this information in a subjectiveway. However, applications with no incentives will probably attract users highly mo-tivated to collaborate with this platform, just for their satisfaction of contributing toscience. Those users will gladly update their observations in the long term, but this setof noise data, although big, will not represent the entire city situation. Gamifying arepetitive or complex problem breaks this gap/wall between a scientific problem andcitizenship and allows any citizen to contribute to science unconsciously.The core concept for gamifying is engagement. As seen in [8], engaging users todo something is crucial to encourage citizenship to collaborate with a project. En-gagement could be achieved by motivating people, so it is important to create niceand user-friendly applications that foster people to take the measurements we need.According to [8] to do a good gamification process it is important to consider fourkey concepts: user status, access, power & stuff.

**Status:** Users usually like to compare or share their progress and achievementswith other users, to see who is in a better or worse position than others. To do this, itis necessary to split game progress in stages or levels, from easiest to hardest ones.

**Access:**This concept encourages allowing users to unlock new features dependingon their contribution or participation in the game. It is important to make these fea-tures exclusive enough to engage the user who achieves them more attached to theapplication.

**Power:** With the transference of some power to some users, it is possible to en-courage them to keep using the application. The power can be represented by lettingthem to do actions that are not allowed to users who have used less the application.

**Stuff:** In addition to all functional concepts stated above, it is important to providea set of free rewards, badges or gifts for users as an incentive to keep playing. Thoseitems are attractive to users because they can make the difference with others.

CODE AND IMPLEMENTATION:

1. Any Smart Phone.
2. Sensors.
3. Cloud / Big Data.
4. Internet of Things.
5. Internet connection is also required.
6. Any Locality.

#include <LiquidCrystal.h> // include the LiquidCrystal library

const int micPin1 = A0; // define the pin for the first microphone

const int micPin2 = A1; // define the pin for the second microphone

const int micPin3 = A2; // define the pin for the third microphone

const int buzzerPin = 9; // define the pin for the buzzer

const int ledPin = 6; // define the pin for the LED

const int contrast = 50; // define the LCD contrast

LiquidCrystal lcd(12, 11, 5, 4, 3, 2); // initialize the LCD display

void setup() {

  pinMode(buzzerPin, OUTPUT); // set the buzzer pin as output

  pinMode(ledPin, OUTPUT); // set the LED pin as output

  lcd.begin(16, 2); // initialize the LCD display

  analogWrite(6,contrast); // set the LCD contrast

**Serial**.begin(9600); // initialize the serial monitor

}

void loop() {

  // read the values from the microphones

  int micValue1 = analogRead(micPin1);

  int micValue2 = analogRead(micPin2);

  int micValue3 = analogRead(micPin3);

  // calculate the sound levels in dB for each microphone

  float voltage1 = micValue1 \* 5.0 / 1024.0; // convert the first microphone value to voltage (5V reference)

  float voltage2 = micValue2 \* 5.0 / 1024.0; // convert the second microphone value to voltage (5V reference)

  float voltage3 = micValue3 \* 5.0 / 1024.0; // convert the third microphone value to voltage (5V reference)

  float dB1 = 20 \* log10(voltage1/0.0063); // calculate the sound level in dB for the first microphone

  float dB2 = 20 \* log10(voltage2/0.0063); // calculate the sound level in dB for the second microphone

  float dB3 = 20 \* log10(voltage3/0.0063); // calculate the sound level in dB for the third microphone

  // calculate the average sound level in dB for all microphones

  float averageDB = (dB1 + dB2 + dB3) / 3;

  // display the sound level on the LCD display and the serial monitor

  lcd.setCursor(0, 0); // set the cursor to the first row of the LCD display

  lcd.print("Sound Level: "); // print the text "Sound Level: " on the LCD display

  lcd.setCursor(0, 1); // set the cursor to the second row of the LCD display

  lcd.print(averageDB); // print the average sound level on the LCD display

**Serial**.print("Sound Level: "); // print the text "Sound Level: " on the serial monitor

**Serial**.println(averageDB); // print the average sound level on the serial monitor

  // control the LED and the buzzer based on the sound level

  if (averageDB > 70) { // if the sound level is higher than 70 dB

    digitalWrite(ledPin, HIGH); // turn the LED on

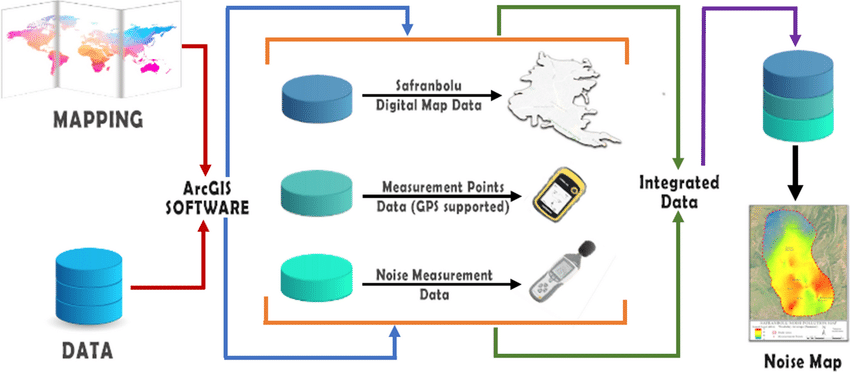
    tone(buzzerPin, 1000, 500); // turn the buzzer on

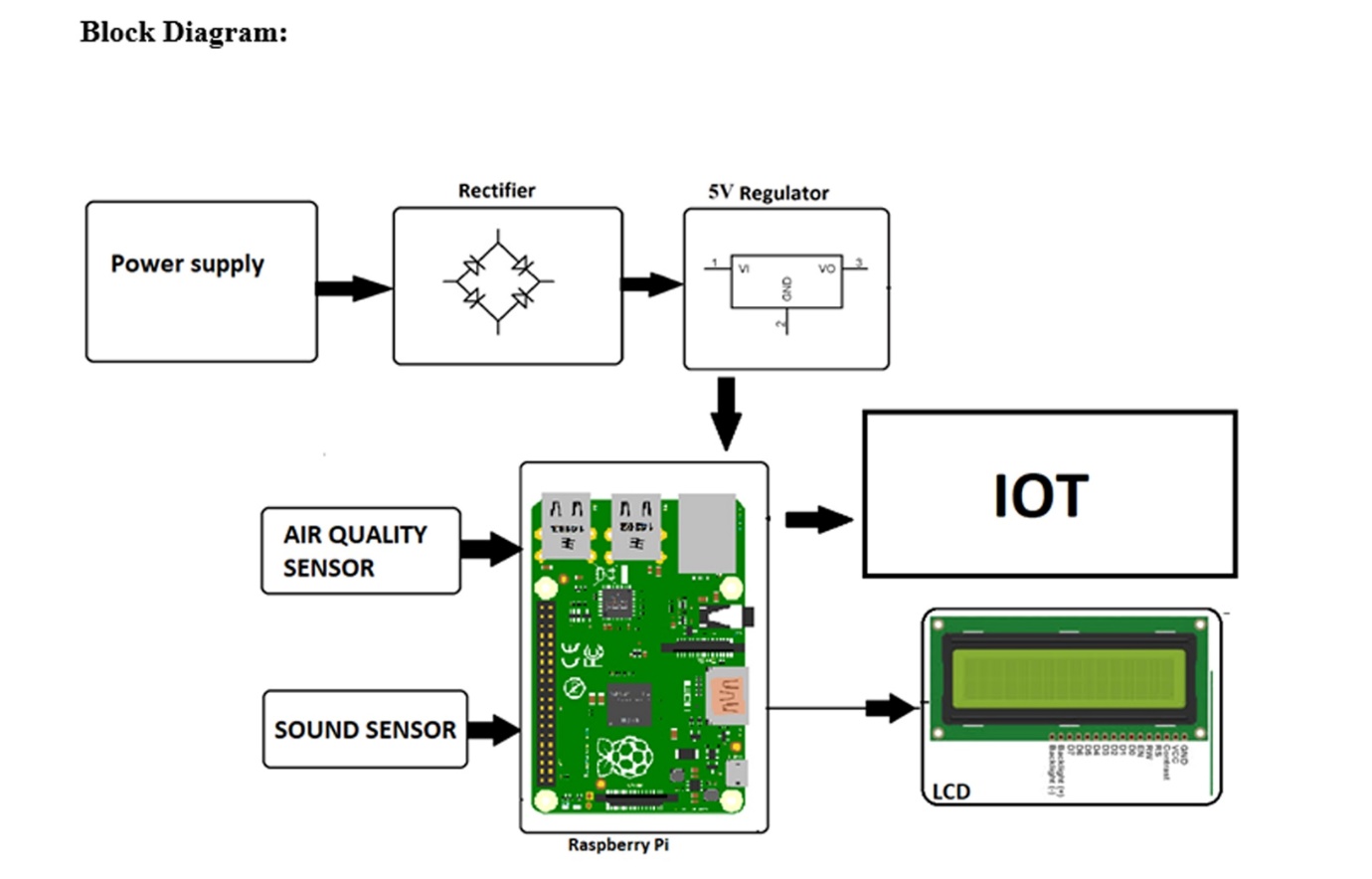
  } else { // if the sound level is lower than 70 dB

    digitalWrite;

  }

}



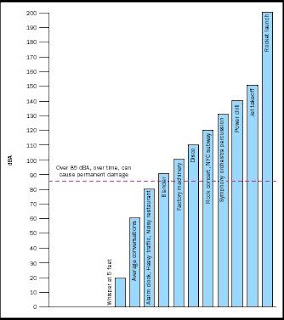
**BLOCK DIAGRAM:**  
[](https://nevonprojects.com/wp-content/uploads/2018/08/Raspberry-Pi-Air-and-Noise-Pollution-Monitoring-System-Over-IOT-Block.png)

Noise pollution information Platform:

On-line noise monitoring platform

NoisePlatform is an on-line platform that displays and dynamically analyses, in real time, the noise measured by a network of sensors that can monitor the entire area affected by noise-generating activities.

* A step forward in noise monitoring to fight sound pollution by covering a broader area and time period with **multiple sensors (TA120)**
* Economically sustainable. NoisePlatform offers low sensor, maintenance and platform usage costs
* High-precision data measurement, utterly reliable transmission of information and totally secure data storage
* NoisePlatform delivers access, display, analysis, downloads and reports of the LAeq function and a selectable extra function (LCeq, LAFmax or LASmax) 100%-on-line without the need for any software, thus guaranteeing permanent availability
* **APPLICATIONS:** Cities (Smart Cities), Environmental, Building, Industrial Noise, Leisure activities, etc.

Applications

this purpose, strategic noise maps are produced and action plans are implemented.NoisePlatform facilitates the deployment of a network of sensors in the areas studied in order to collect and store real-time CITIES ( Smart Cities): Local administrations are increasingly more committed to the control noise. For noise level data.

The continuous generation of reliable data for monitoring action plans enables the rapid assessment of these plans' effectiveness and the taking of decisions regarding their continuance, thus saving time and economic resources.



ENVIRONMENTAL

The supralocal administrations manage environmental noise by means of action plans to reduce or prevent noise pollution in road, railway, airport or seaport infrastructures, and to safeguard noise quality in designated quiet areas.NoisePlatform performs the most monotonous jobs: recalculation of time bases, Day/Evening/Night mean calculations, incident analysis, comparison with the regulatory limits.It can also quickly assess the effectiveness of action plans applied, saving time and economic resource.![A bridge with cars on it

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD0RXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAE7AAIAAAAKAAAIVodpAAQAAAABAAAIYJydAAEAAAAUAAAQ2OocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEpDYXNhbWFqbwAABZADAAIAAAAUAAAQrpAEAAIAAAAUAAAQwpKRAAIAAAADNDEAAJKSAAIAAAADNDEAAOocAAcAAAgMAAAIogAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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BUILDING

Construction, refurbishing or demolition work on buildings is a part of modern and dynamic cities, but it also greatly contributes to increasing environmental noise pollution.NoisePlatform continuously receives noise levels from different points on the site and makes it possible to check and substantiate that the maximum levels permitted have not been surpassed. It also verifies fulfilment of operation timetables. In this way, on-site workers and the noise quality of the immediate environment are both protected.



INDUSTRIAL NOISE

The main inconvenience of industrial noise normally lies in the presence of highly time-specific and quantitatively parameterised fixed noises, compounded by intermittent noises which often lead to offences for being over the limits and which sporadic or one-off measurements cannot assess.NoisePlatform's continuous monitoring function can detect noises from intermittent sources or focal points by the actual industrial activity or due to elements in bad condition. And its warning system permits immediate action.

![A large factory with several towers

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RGeRXhpZgAATU0AKgAAAAgACAEPAAIAAAAGAAAIegEQAAIAAAAPAAAIgAESAAMAAAABAAEAAAE7AAIAAAAKAAAIkIKaAAUAAAABAAAImodpAAQAAAABAAAIopydAAEAAAAUAAARguocAAcAAAgMAAAAbgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENhbm9uAENhbm9uIEVPUyA0NTBEAABKQ2FzYW1ham8AAAAAAQAAAZAAC4KaAAUAAAABAAAROIKdAAUAAAABAAARQIgnAAMAAAACAGQAAJADAAIAAAAUAAARSJAEAAIAAAAUAAARXJIJAAMAAAACABAAAJIKAAUAAAABAAARcJKRAAIAAAADNjUAAJKSAAIAAAADNjUAAKQ0AAIAAAAIAAAReOocAAcAAAgMAAAJLAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAGQAAAACAAAAAEyMDE2OjA3OjA1IDExOjE1OjIxADIwMTY6MDc6MDUgMTE6MTU6MjEAAAAACwAAAAExMS0xNm1tAAAASgBDAGEAcwBhAG0AYQBqAG8AAAD/4gxYSUNDX1BST0ZJTEUAAQEAAAxITGlubwIQAABtbnRyUkdCIFhZWiAHzgACAAkABgAxAABhY3NwTVNGVAAAAABJRUMgc1JHQgAAAAAAAAAAAAAAAAAA9tYAAQAAAADTLUhQICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABFjcHJ0AAABUAAAADNkZXNjAAABhAAAAGx3dHB0AAAB8AAAABRia3B0AAACBAAAABRyWFlaAAACGAAAABRnWFlaAAACLAAAABRiWFlaAAACQAAAABRkbW5kAAACVAAAAHBkbWRkAAACxAAAAIh2dWVkAAADTAAAAIZ2aWV3AAAD1AAAACRsdW1pAAAD+AAAABRtZWFzAAAEDAAAACR0ZWNoAAAEMAAAAAxyVFJDAAAEPAAACAxnVFJDAAAEPAAACAxiVFJDAAAEPAAACAx0ZXh0AAAAAENvcHlyaWdodCAoYykgMTk5OCBIZXdsZXR0LVBhY2thcmQgQ29tcGFueQAAZGVzYwAAAAAAAAASc1JHQiBJRUM2MTk2Ni0yLjEAAAAAAAAAAAAAABJzUkdCIElFQzYxOTY2LTIuMQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAWFlaIAAAAAAAAPNRAAEAAAABFsxYWVogAAAAAAAAAAAAAAAAAAAAAFhZWiAAAAAAAABvogAAOPUAAAOQWFlaIAAAAAAAAGKZAAC3hQAAGNpYWVogAAAAAAAAJKAAAA+EAAC2z2Rlc2MAAAAAAAAAFklFQyBodHRwOi8vd3d3LmllYy5jaAAAAAAAAAAAAAAAFklFQyBodHRwOi8vd3d3LmllYy5jaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABkZXNjAAAAAAAAAC5JRUMgNjE5NjYtMi4xIERlZmF1bHQgUkdCIGNvbG91ciBzcGFjZSAtIHNSR0IAAAAAAAAAAAAAAC5JRUMgNjE5NjYtMi4xIERlZmF1bHQgUkdCIGNvbG91ciBzcGFjZSAtIHNSR0IAAAAAAAAAAAAAAAAAAAAAAAAAAAAAZGVzYwAAAAAAAAAsUmVmZXJlbmNlIFZpZXdpbmcgQ29uZGl0aW9uIGluIElFQzYxOTY2LTIuMQAAAAAAAAAAAAAALFJlZmVyZW5jZSBWaWV3aW5nIENvbmRpdGlvbiBpbiBJRUM2MTk2Ni0yLjEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHZpZXcAAAAAABOk/gAUXy4AEM8UAAPtzAAEEwsAA1yeAAAAAVhZWiAAAAAAAEwJVgBQAAAAVx/nbWVhcwAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAo8AAAACc2lnIAAAAABDUlQgY3VydgAAAAAAAAQAAAAABQAKAA8AFAAZAB4AIwAoAC0AMgA3ADsAQABFAEoATwBUAFkAXgBjAGgAbQByAHcAfACBAIYAiwCQAJUAmgCfAKQAqQCuALIAtwC8AMEAxgDLANAA1QDbAOAA5QDrAPAA9gD7AQEBBwENARMBGQEfASUBKwEyATgBPgFFAUwBUgFZAWABZwFuAXUBfAGDAYsBkgGaAaEBqQGxAbkBwQHJAdEB2QHhAekB8gH6AgMCDAIUAh0CJgIvAjgCQQJLAlQCXQJnAnECegKEAo4CmAKiAqwCtgLBAssC1QLgAusC9QMAAwsDFgMhAy0DOANDA08DWgNmA3IDfgOKA5YDogOuA7oDxwPTA+AD7AP5BAYEEwQgBC0EOwRIBFUEYwRxBH4EjASaBKgEtgTEBNME4QTwBP4FDQUcBSsFOgVJBVgFZwV3BYYFlgWmBbUFxQXVBeUF9gYGBhYGJwY3BkgGWQZqBnsGjAadBq8GwAbRBuMG9QcHBxkHKwc9B08HYQd0B4YHmQesB78H0gflB/gICwgfCDIIRghaCG4IggiWCKoIvgjSCOcI+wkQCSUJOglPCWQJeQmPCaQJugnPCeUJ+woRCicKPQpUCmoKgQqYCq4KxQrcCvMLCwsiCzkLUQtpC4ALmAuwC8gL4Qv5DBIMKgxDDFwMdQyODKcMwAzZDPMNDQ0mDUANWg10DY4NqQ3DDd4N+A4TDi4OSQ5kDn8Omw62DtIO7g8JDyUPQQ9eD3oPlg+zD88P7BAJECYQQxBhEH4QmxC5ENcQ9RETETERTxFtEYwRqhHJEegSBxImEkUSZBKEEqMSwxLjEwMTIxNDE2MTgxOkE8UT5RQGFCcUSRRqFIsUrRTOFPAVEhU0FVYVeBWbFb0V4BYDFiYWSRZsFo8WshbWFvoXHRdBF2UXiReuF9IX9xgbGEAYZRiKGK8Y1Rj6GSAZRRlrGZEZtxndGgQaKhpRGncanhrFGuwbFBs7G2MbihuyG9ocAhwqHFIcexyjHMwc9R0eHUcdcB2ZHcMd7B4WHkAeah6UHr4e6R8THz4faR+UH78f6iAVIEEgbCCYIMQg8CEcIUghdSGhIc4h+yInIlUigiKvIt0jCiM4I2YjlCPCI/AkHyRNJHwkqyTaJQklOCVoJZclxyX3JicmVyaHJrcm6CcYJ0kneierJ9woDSg/KHEooijUKQYpOClrKZ0p0CoCKjUqaCqbKs8rAis2K2krnSvRLAUsOSxuLKIs1y0MLUEtdi2rLeEuFi5MLoIuty7uLyQvWi+RL8cv/jA1MGwwpDDbMRIxSjGCMbox8jIqMmMymzLUMw0zRjN/M7gz8TQrNGU0njTYNRM1TTWHNcI1/TY3NnI2rjbpNyQ3YDecN9c4FDhQOIw4yDkFOUI5fzm8Ofk6Njp0OrI67zstO2s7qjvoPCc8ZTykPOM9Ij1hPaE94D4gPmA+oD7gPyE/YT+iP+JAI0BkQKZA50EpQWpBrEHuQjBCckK1QvdDOkN9Q8BEA0RHRIpEzkUSRVVFmkXeRiJGZ0arRvBHNUd7R8BIBUhLSJFI10kdSWNJqUnwSjdKfUrESwxLU0uaS+JMKkxyTLpNAk1KTZNN3E4lTm5Ot08AT0lPk0/dUCdQcVC7UQZRUFGbUeZSMVJ8UsdTE1NfU6pT9lRCVI9U21UoVXVVwlYPVlxWqVb3V0RXklfgWC9YfVjLWRpZaVm4WgdaVlqmWvVbRVuVW+VcNVyGXNZdJ114XcleGl5sXr1fD19hX7NgBWBXYKpg/GFPYaJh9WJJYpxi8GNDY5dj62RAZJRk6WU9ZZJl52Y9ZpJm6Gc9Z5Nn6Wg/aJZo7GlDaZpp8WpIap9q92tPa6dr/2xXbK9tCG1gbbluEm5rbsRvHm94b9FwK3CGcOBxOnGVcfByS3KmcwFzXXO4dBR0cHTMdSh1hXXhdj52m3b4d1Z3s3gReG54zHkqeYl553pGeqV7BHtje8J8IXyBfOF9QX2hfgF+Yn7CfyN/hH/lgEeAqIEKgWuBzYIwgpKC9INXg7qEHYSAhOOFR4Wrhg6GcobXhzuHn4gEiGmIzokziZmJ/opkisqLMIuWi/yMY4zKjTGNmI3/jmaOzo82j56QBpBukNaRP5GokhGSepLjk02TtpQglIqU9JVflcmWNJaflwqXdZfgmEyYuJkkmZCZ/JpomtWbQpuvnByciZz3nWSd0p5Anq6fHZ+Ln/qgaaDYoUehtqImopajBqN2o+akVqTHpTilqaYapoum/adup+CoUqjEqTepqaocqo+rAqt1q+msXKzQrUStuK4trqGvFq+LsACwdbDqsWCx1rJLssKzOLOutCW0nLUTtYq2AbZ5tvC3aLfguFm40blKucK6O7q1uy67p7whvJu9Fb2Pvgq+hL7/v3q/9cBwwOzBZ8Hjwl/C28NYw9TEUcTOxUvFyM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7aV0i2AnaGw2ck4Azms6lWNtWXTpNanF6XqCRj+zbi2ivobhAkiyL90A5AH4jNLHL4fuL9reLQRGgjMcqidgQp64A4HWulh+EnxItZ7e+j8Ca7Mhi3MotyGDgn5duc8jvUDfD/AMc6fetqL+ANbUSgoY2s5nZRxycLwfcdxSjXpW+JEyhK+w+TTtGfw7p3liZZYZHcDO1ogEO0FjwQSf8Ax33rpNK8R69Io1wxWQ1O20eTSxCssf8Ax744OQchiM8g9ulcn4t03xOrozeFdR0jTrot5C3MUqiNV6q7YGDx3p1z4iOkagwXVJNOeSBDNB9i3hkMajYr5OM4zkqOvWnKqvssqFKT3RoaxcXd/qYmF0Hup4RA8k4XeiKAEVGxkgYPfOTmtePU7z+2tKu2AeayKwptfCy4xxjnLdfzrn9M8Saarea1rbSlQY7hXZhIU7GNgPlOOc5H6VqWniLQbGGb+z2N08Vvts1vCTLASBk4IwSMZB9+1cFSrOUtEd9OlFRs2VNQup5tMsdJkE8a2xXLKzbSzdAB/c9B2wKx7fUpLG+tmt5BJvk8suYuhcrwBnPYE1rPdWuoPpd5b30EN5FcJJdNg7JdpBwAgwO/QDFXm0nTobW91S1v57toWR2heIIodjgspOOOfrxWnL3ZLfZHMfE6O7vPEU4nuVkb5RlU2g5X0ycckVHpp/s6WOZZJWeWJADGGXy8jqWz9PyHFbU+l/2pqst3fTtEhRUVYxv+YDGSfQ12GveH7HR9KUQO93boojeeZNjNuXptBI46Z9ga6ITSsmc06cndnI6L4g+0eLbGRtZupIUchoXcmONFDBRk9uuBz+tdt8W/GkNz4emaymjm6lMcq5Hb8xXkul6TfNPMNPOm7gpbMil2OM89sA8CvQPB3iq/0u0+ySX0EVkbffEIbaIKkh5POwk0p2bUhxUkuVnB2PinVI7BVW0jYXkeySPnGMr+X3Fpsjxakskn2FYCcKSrDB5PXjoAMDOfrXomoeKLbVIruKXWLC4S8g8sl50DplcZHQe/SsSx0vRRoZt7vVpDES6vFGYpNwY45Iwex45x2NaKrDsZyozRh+HNanuLS6uYbdbXzlFm3lMciMuowD24JrOm0ZLXXZf3qrAVZVQRO23Kj5uB1HTv171s2+l2+l2q29rcyzQl94Z8DcAeM4+g/KrS3LF1lYoZFO4NgcdB/QUOcegKnLqxo0G4sfs9u+jX90vmYgSaxkQkEcIA4APJz+NaXwRvNStPFUk97ZSwp5ThWMaonKtjGMdcCuf8W6m2matpM1vfSWsjx+e0qoXKEtyRg7hzk4Hp+FO0PVtWhmilsdTh1BZWbKvHIAp5xhiuR1qZ1LxsOFOzNfW9D8J6gn/Eu028sp02skgt5FjI5wp8xzjoccVWt/D9ybBobfR/tMG0LLIzxqWUEgHLEZ5U4A9K+uTo+j+WiHTLApHnYptlwv044ph0vRyeNJsMev2ZP8K8xY5W2O/6r5nxRq/hqSx1A3oa38pk8rYtwkxQj/rmWx+NWfDfgPxLqtvemx057qSG3VztRlBOCAAcfeOcgexr7WitbaPCx21ug/2Y1FWQqhQoOB6AVf8AaVlojP6inuz4k8LeB/EU+o2KppF6klookZpLdwGxxgHHXmvoXxnqGoz+HFn03TNVF3DfySm1S2YyAMAAeBg/h716wNuOppQegrmxOLVeDpyWjN6GH9jNTi9j57sZfH2o28VxYaDrdxDIisG27MEjkHcRyO9ST6b8SfOijl8M6sFlDbW81HGQMgNtY7c9MnAr6C3depNBkGOOteN9Rw6+yem8ZVMPwlo8i+A7bRfElnFcySxMLyCUrIp3MTsPZsDAqa38OWFjaJaaNY2enW4vEuTHCgRWIZSTgDqdoFafzZqQOe4r1YYypTgoR2R508PCcnJ7sy/EHhnSdcC/2tYaffeWxMf2m2WXZnGcbhxnA/KqqeGZZrNrbUNQhulZjx9lG3Zn5VK5wcDFb/mnB+WkaXIBAwR70PH1+4vqtPscfqfwz0fUHgW8mR7SJXAt1tgqtuxk8Hg5HauU8X/Afw7eibUNJv8AVLO9W0+zxW8EgSF/mB+bPOCBg8+/WvXlkUrk49+aC2clWAzU/Xq9/iH9VpW2PkbUPA15oFlqOkR6S7ySTiF5DexAfdwANw3Z+bgcj8a5rT/hr4mt9Tcx21qyop4N7GxBPKgndg8e1fVGueBpNS1ifUP7ZMazS+Z5LQBlVsAcHI9KrjwJMvynV1APcWY/+Krtjj+rMHhOh87WfgjxLCVlkt7XcX/eEXcZIH03V02gw3osEsbxreBbWBUiTz2fzCDg9vlPHPPNewSeAGfJHiGYL6C1TH61UX4Waapk/wCJ3qKCSQuwQgDk5wM5xRLHKQ44blOM03TQkaoxtg4Jyzykjb9O9JqGmwiRUWe08w4bCoelekx+A9PAy97cO2c7lRB/7LUx8GaSyqJLq7Y9i2zP/oNR9biX7Fnly3ml2OkXFveaEdX8/wCVY1u1iRVyvzCMqSSvXIP4VhSWOjTW89pJoxkjO1U86YkpjkEYVeh9c9K9n/4V34YCnfBNKOhHmdeevAq1H4H8Mxnd/ZhY/wC1KxP86f11NWJWGs2zyH4cGHwnqF1HZ2UN6moKsc4vo/NjyuSrYGOeT+de3+Ef7J1fQYby80PSlm3MpEdmiqMHsDmsqXwL4ZeQOtpcxsGDDZcyLyPxrodNtLXTLNbWxhEUSksFyTyepJNc1aqprTc3hBrc0IbfS4Svk6bZoVOV226DaeenHHU/manthaW7yPb2sUTSnMjImC31NURM2P4fz6U4SfKctXNeXc0suxjD4f8AgNdcGtL4V06O+8zzd6IVBf8AvFAduePStjxLo+jeJNLOl6zYrdWhcP5eSg3DocqR60/zlHUgUpmGO4/DFHPO6dxckexx9r8Jvh7anEWjzAb9203cpGfT73StbT/APgixuDcW3h2zEpIJdyznjp94mtguCecn8aa0nTHyirdaq95MSpwWyC00Pw7ZnfbaHpkbA5BFqmQfbI4rUju3jj2RM0S44CjAH4VmA/L980jZI+V+nrWTu3qyrLsagv5sDdM7Y9aDqJH/AC0YVlDf/eGfY00+dnr+tNQQGndXkd1C0FwwkicbXjfkMPQg15JqnwA+H+pavJqlxJrBkdw2z7UCgA6Lgr90AYwe1ejkSdWxSbm/vj8DVwlKn8DsJxUt0cgPhF4N8hYPJYAZw0dtbxt0x1WMfnVP/hRvw7bf9ptL26ZhtLTThmC+gO3ge1d2d+M804OyrhmOat1qr+0JQj2PP4vgb4Bt4jDbxapEmcgLOhAPqAUNVpPgxpUcha18Va1bjGCpigYY54PyDPU16UGbIJOR6ZprMxOSUAprEVf5hezj2PJpfgXanPkeMr9F7D7BESPqciq+qfA3VLqwezX4gSsj43ebp+c+3EmP0zXsQfLYDZ+gpd5A5ZV+lP6zW7h7OPY8p+HHwPsPDOofbtU1a31Ut8skJ09QkijpksSQfpivUG8PeGGOf7B09WwBlLdVOPTI5x7VLIxI+UtSASEfM7fyFZyqVJO7kVyrscvL8I/hXKSW8E6YCTn5Q6/yatjQvBPgfQ7c2+l+FdLgjLbjm3Dkn6tk/rWjGsijg/pTxv8A7+KTnN/aDlXYhn8P+GZpBLN4d0p3C7QWs4yQPTpTk0Pw2n3fD+lL9LOP/Cpsnu9BdQOWJ+pqby7jsuwRaZosL7odH06NsY3LaoDj06VZVbWNQsdrAgHYRqAP0qoZk9T+FIJl7Ln60Wk+oaEBaFchXpu9ccOMfWs9vlODGc+opu4e6n3HWp+ZVjS+hUigN065+tUFk2rjjd6j0pyyFTg4BI/Ki4F/zlzyWz7U9ZgMdfyrP389eRQZg2N35g1Og7GkJI+SXP5UwNGW5lzmqHm49vQ5pfMGAcH8qAsXjszyxqQtDkcsv41mGQ9hR53oKAsabPHt+/8Ajmmo8QOd3Ws7z1x827H1pPtAJCqT78UWA0WlhQ9Tn68Ugnyv7sZ985/pWe0itzJJ09VoSYLjbKh/A0AaHP3icmn9VByAfpWc95tGWx9cGoXv2YHbtC+7EUagX3TcfmYnn0pPLVR8rsP+BGsw3zDug/4Gab9tbJyx/A1WorGmVZT1PPXmm5YHv+BrP+2jH3pTn/aH+FILrnPJ+vNNMLGl5pAyXb86DMD/AMteazPtLeo/BKTzsjqxH0p3FY2oZEdQ3OcdTxQ33fl2/nms2KaMr90fjUyXP8Svt9hmp1HYndmHO5iO/wAgpv3ifu59W5qKS4yv3s++Krm4OenHbApphYvDpgMR9OKcv+8T9TVFZX6849qDcfXI785p3CxoAuByxPuaQuMHk5qj5xyODz7UvnEnGH4/ClcLFxZmzgbvfNO8xu23P+9VHzF4IQj604SsPu4H5UNhYtb3yRk/hTf3m45Vh6ZaoDO2PvJ+dN8+Q9Dj8aLhYs/N3wfxpVUZGWYZ96q7ieTIfwpGYd3NFwsWn2565PpnNJ5rf3T+JxVQOoHGaUMOvmD6UwsWvOf+IDHpuFJ5y9DHkdiTVYkHBwDTtwxgKf0pXCxK10w+6gHuOaBdMBkx8+pquJNrcfL9TS71b/lp9cCmKxYF1N7U77VMBztH1qoZBn7zH60u5d2cKPrzSGWluJW/5aD8KPOk/wCejH6VW3HPD547ClEgA9Pei6CxOJJM9SaN7dyQfrUHmgZ5Jo84E8AfiadwsWN+T8zE08TKv8P61U8w4/1mPZab5nuc/Wi4WIVulIwYgQR3NJ50WcqCOOcN1qG3gjdmJyCO4NUpGIkYehrBWZZpeZjn5vwNNNww+8rH6mqIkbldxxTklYjnH1xzTAurd4AGHA/3qXz1bnnPuapbtzYOKXsO1K6Cxd8xdvAH407zGI2kLnt89ZTOy9D3pyyvz8xptAaZb+Dy8477qjMnP3enYiq5Ztw5/hzSljgc1PMFiyszM2FVAPepUYhSFm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LEISURE ACTIVITIES:

Most leisure activities involve high levels of noise, which may be due to loud music or the levels generated by the actual activity.NoisePlatform also controls as many points as necessary (public and workers' areas and nearby housing) and presents information in level-versus-limit graphic format, thus facilitating assessment to ensure compliance with the applicable regulations.Moreover, it has an alarm system so that corrective action can be taken before excessive noise levels are actually surpassed. ![A crowd of people at a concert

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAtAC0AAD/4SyIRXhpZgAATU0AKgAAAAgADAEPAAIAAAAGAAAIqgEQAAIAAAAWAAAIsAESAAMAAAABAAEAAAEaAAUAAAABAAAIxgEbAAUAAAABAAAIzgEoAAMAAAABAAIAAAEyAAIAAAAUAAAI1gE7AAIAAAAKAAAI6gITAAMAAAABAAEAAIdpAAQAAAABAAAI9JydAAEAAAAUAAAY+OocAAcAAAgMAAAAngAAGQwc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENhbm9uAENhbm9uIERJR0lUQUwgSVhVUyA0MAAAAAC0AAAAAQAAALQAAAABMjAwNTowNToxNCAwMjo0ODozNQBKQ2FzYW1ham8AACOCmgAFAAAAAQAAEqqCnQAFAAAAAQAAErKQAAAHAAAABDAyMjCQAwACAAAAFAAAErqQBAACAAAAFAAAEs6RAQAHAAAABAECAwCRAgAFAAAAAQAAEuKSAQAKAAAAAQAAEuqSAgAFAAAAAQAAEvKSBAAKAAAAAQAAEvqSBQAFAAAAAQAAEwKSBwADAAAAAQACAACSCQADAAAAAQAQAACSCgAFAAAAAQAAEwqSfAAHAAAEmAAAExKShgAHAAABCAAAF6qSkQACAAAAAzgzAACSkgACAAAAAzgzAACgAAAHAAAABDAxMDCgAQADAAAAAQABAACgAgADAAAAAQQAAACgAwADAAAAAQMAAACgBQAEAAAAAQAAGLKiDgAFAAAAAQAAGN6iDwAFAAAAAQAAGOaiEAADAAAAAQACAACiFwADAAAAAQACAACjAAAHAAAAAQMAAACkAQADAAAAAQAAAACkAgADAAAAAQABAACkAwADAAAAAQABAACkBAAFAAAAAQAAGO6kBgADAAAAAQAAAADqHAAHAAAIDAAACp7qHQAJAAAAAQAAAAAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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REAL TIME NOISE LEVEL MONITORING:

Scientiﬁc evidence reveals that enhanced acoustic comfortin companies or academics increases concentration and pro-motes better communication [27]–[30]. Not only does theacoustic comfort promote learning behaviours, but it alssupports good teaching understanding [31]–[3Inaddition,providing acoustic comfort in hospitals reduces stress andsleeplessness created by high noise levels, decreases patient’srecovery time and promotes staff productivity [34]–[36]Furthermore, acoustic comfort in residencies promotes afeeling of protection in occupants and increases the senseofsecurity and privacy [37], [38]. Therefore, acoustic comfortpromotes occupational health, productivity, happiness andincreases well-being.The effects of noise on health are not only related to annoy-ance, sleep and cognitive performance of adults and childrenbut also with increased blood pressure [39]. Environmentalnoise pollution may be a novel risk factor for pregnancy-related hypertension, particularly more severe variants ofpreeclampsia [40]. Long-term exposure to railway and roadnoise, especially at night, may affect arterial stiffness, a majordeterminant of cardiovascular disease.

**How accurate is accurate enough?**

Where the accuracy of apps on mobile devices or so-called citizen kits are potentially imperfect or certainly less reliable than products that are specifically and commercially designed for industrial noise monitoring use, it raises an important question: How accurate is accurate enough? This will likely vary according to the intended use, however, in the context of a smart city, the intended use will likely be to help project stakeholders improve their decision making skills. Projects such as [SONYC](https://www.zooniverse.org/projects/anaelisa24/sounds-of-new-york-city-sonyc) (Sounds of New York City) use inexpensive sensors that are working alongside artificial intelligence data processing tools to understand the soundscape in order to develop a better understanding of noise sources. This also means that, using their smartphones, the public can not only detect noise level but also what is making the noise.

When it comes to noise monitoring, there is a demonstrable lack of standardisation across smart city projects. And often the individual projects lack any link to measurement standards in the presentation of results. Compliance with BS EN 61672 may not be the project aim and issues like calibration and long-term consistency may be of no concern to smart city participants.

**Noise Mapping**

Noise mapping – the generation of large amounts of sound level measurements over long periods of time – is an ever-increasing field of acoustics and there have been some interesting developments in the techniques and potential use cases for this.

The [Dynamap project](http://www.life-dynamap.eu/" \t "_blank) aims to validate and enhance existing urban noise maps by producing dynamic/real-time noise maps, using data gathered from low cost sensors. But could the data produced by a myriad of smart city projects be relied upon for developing noise mitigation strategies?

*Can a large volume of less accurate measurements give a good long-term average?*

While we do not have the answer to all these questions, we understand the importance of asking them as these globally accessible networks of noise monitors will continue to grow and the data will certainly be used by local stakeholders. The treatment of this data and the link to industry standards might be the key to unlocking that potential.

Within the regulated sectors of policy and compliance the use of high-grade instrumentation is almost certainly needed. The expertise of the acoustics professional is critical in steering the technology choice, installation and the analysis of the data. This will enable and empower cities to address noise issues more effectively; however, for community led initiatives, outside of the regulated space, there is far less scope for the acoustic professional to influence any instrumentation choices or drive standards in measurements. Perhaps a more effective role for acoustics experts is to provide education on sound levels and noise which can be used to frame the data coming from various monitoring systems. Putting the big data generated from these connected cities into context can allow citizens to make informed decisions, even if the underlying measurements are less than ideal. Initiatives like the IoA STEM programme and 2020 Year of Sound aim to broaden awareness of acoustics and spread knowledge. Perhaps it is here that the acoustics expert is most likely to ensure a “smart” outcome from city sensing projects?

While there is no doubt that widespread city noise monitoring will happen without the input of acoustic professionals, there is still no substitute for sound advice.

**AWARENESS AND CONTRIBUTES:**

**Causes of Noise Pollution**

**1. Transportation:** Urban areas are characterized by constant traffic flow, which is a primary source of noise pollution. The incessant rumble of engines, screeching tires, and incessant honking contribute significantly to the overall noise levels.

**2. Industrial Activities:** Industries and factories, often concentrated in urban zones, generate noise through the operation of heavy machinery, equipment, and manufacturing processes. Construction activities, with their bulldozers and pile drivers, are particularly notorious for their noise emissions.

**3. Recreational Activities:** Urban centres are hubs of entertainment and recreation, hosting concerts, sporting events, and social gatherings. These activities generate high levels of noise, especially when amplified music or cheering crowds are involved.

**Effects of Noise Pollution**

**1. Health Implications:** Prolonged exposure to high noise levels can lead to severe health problems. Hearing impairment is a common consequence, with noise-induced hearing loss being a well-documented issue. Noise pollution is also linked to increased stress, anxiety, and elevated blood pressure, which can escalate the risk of cardiovascular diseases.

**2. Sleep Disturbances:** Noise pollution disrupts sleep patterns, leading to chronic sleep disturbances.

**3. Cognitive Impairment:** Noise pollution impairs cognitive functions, making it difficult to concentrate and focus. This can hinder academic performance and reduce workplace productivity.

**Solutions to Noise Pollution**

**1. Urban Planning:** Thoughtful urban planning and zoning regulations are essential to mitigate noise pollution. Separating industrial areas from residential zones, implementing noise-buffering green spaces, and designing soundproofed buildings can significantly reduce noise exposure.

**2. Noise Barriers:** Erecting noise barriers along highways and busy roads can shield residential areas from traffic noise. These barriers are designed to absorb or reflect sound waves, reducing their impact.

**3. Quiet Transportation:**Promoting quieter modes of transportation, such as electric vehicles and hybrid engines, can substantially reduce noise pollution. Improved public transportation can also reduce the number of private vehicles on the road.