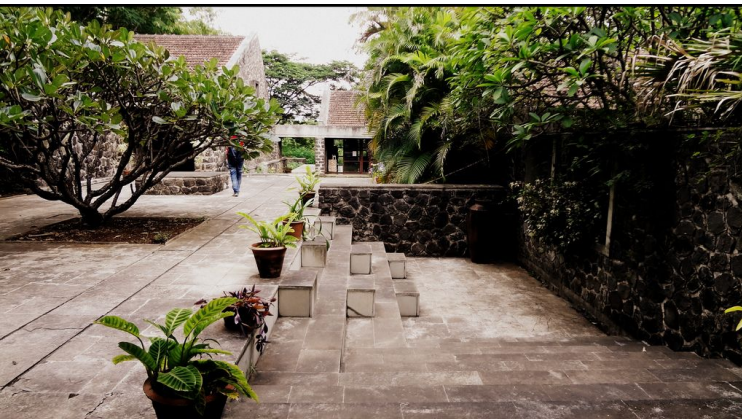




QUANTIFIED

CITIES

MOVEMENT



The Centre for Development Studies and Activities (CDSA) was established in August 1976, registered as a non-profit Trust and Society under the relevant Acts of 1860 and 1950 respectively in India.

Guiding Philosophy

Development is a process of change leading to the attainment of a higher quality of life in a sustainable and inclusive manner. Development is concerned with issues of equity, justice and sustainability of both physical quality of life and standard of living and of transfer of power to micro level institutions that are governed by people who are themselves its beneficiaries.

The Quantified Cities Movement (QCM), pioneered by the Centre for Development Studies and Activities (CDSA), Pune, aims to improve urban planning and create resilient cities by building transparency and accountability through facilitating all citizens to participate in the process of decision making at the local level.

This process will target achieving the goal of sustainable urban development by promoting resilience activities and increasing local level understanding of urban stresses and disaster risk through the prism of urban planning with a focus on participation of all citizens.



The QCM
framework
improves
quality of life
by enabling
citizens to
identify
problems in
their
neighbourhood

What does the QCM framework do?

1. It gives **time and location specific data** which can be compared to the norms and standards to draw inferences about the status of the indicator.
2. It helps to **identify the required actions** for solving stresses and mitigating risks.
3. QCM framework incorporates **periodic collection of data**, which ensures that temporal variations are taken care of.
4. QCM generates **real time maps for easy understanding** of the situation of quality of life in each ward and in the entire City of Pune which is the defined universe at present.



Bus Stops provide access to public transport. It is necessary to have comfortable and safe bus stops to serve the people better.

By engaging citizens and school children in collecting information and providing feedback on various aspects of their local area the QCM framework ensures transparency and accountability in urban governance.



Ambient sound is the sound that is present around us. We can now identify harmful sound levels and improve quality of life by decreasing them.



Walkability is the ease with which pedestrians can walk in a neighbourhood.



Ambient Smell affects our experience of living. Mitigating unsavory smell can lead to improved health and a better living experience.



Health Facilities
Presence of healthcare facilities is essential for quick and timely health care which in turn reduces illness, risk to life and improve quality of life.



Fire stations are essential for disaster preparedness and response and the overall safety of a neighbourhood.



By measuring **Water quality** we can ensure the supply of safe drinking water for all.



Adequate **Educational facilities** in a neighbourhood improve opportunities for our youth to live better lives.



Traffic
A transport network provides for movement of people and goods. It also influences activities of an area as it provides access to places.

HERE IS HOW WE MAKE IT ALL HAPPEN

- 1 Identify Indicators of Quality of Life and Risk (QOLR))
- 2 Training
- 3 Install infrastructure for Data Collection
- 4 Data Collection
- 5 Analyse Data and Identify Stresses
- 6 Propose solutions

What do we collect?

Data on Quality of Life and Risk Indicators.

2

Training



Who do we train ?

Children, Adults, Civil Society Organisations(CSO), Non-Government Organisations (NGOs), Government bodies and elected representatives.

Currently manuals have been prepared for training school children and citizens.

Important **information on all indicators** is provided along with the **methodology** of data collection, quality **standards and norms** and how stresses and risks can **impact on our lives**.

3

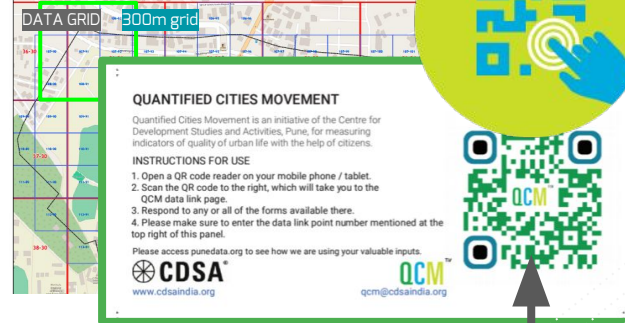
Install infrastructure for Data Collection

Fergusson College Road Ward

Pune Municipal Corporation electoral ward number 24

In order to properly plan, implement and monitor a city or any space we require a wide range of relevant, accurate and timely data. The Quantified Cities Movement has been created to help citizens to collect data for their neighbourhoods to create transparency in the process of planning. The Quantified Cities Movement focuses on participation of adolescents along with adults for localised action for planning and urban resilience building.

The grids shown in the map cover the whole Pune City, and various types of data is collected for each of the grid squares.



TRY IT NOW!

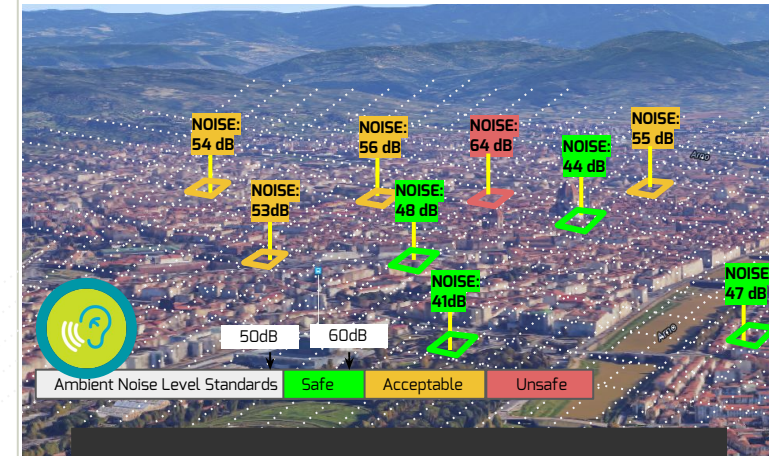
Urban data pulse points installed in every 100m grid square.

We have laid out a grid over the whole city in order to collect data from every hectare of the city.

Urban pulse points located within every grid square enable all citizens to make observations and respond to questions relating to grievances and quality of life.

4

Data Collection



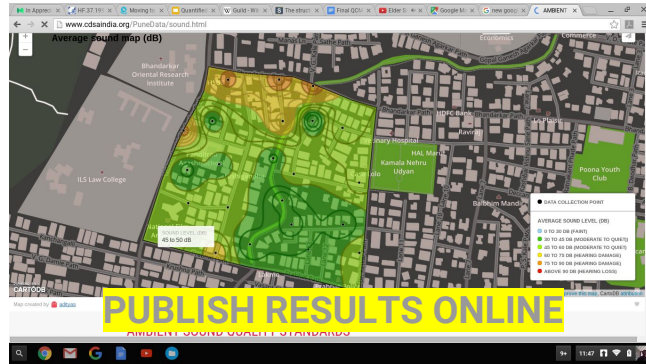
Collect data on various Quality of Life and Risk indicators through Urban Pulse Points + Citizen participation

Citizens can access the pulse points in their neighbourhood, scan it and gain access to the questionnaires on all the indicators.

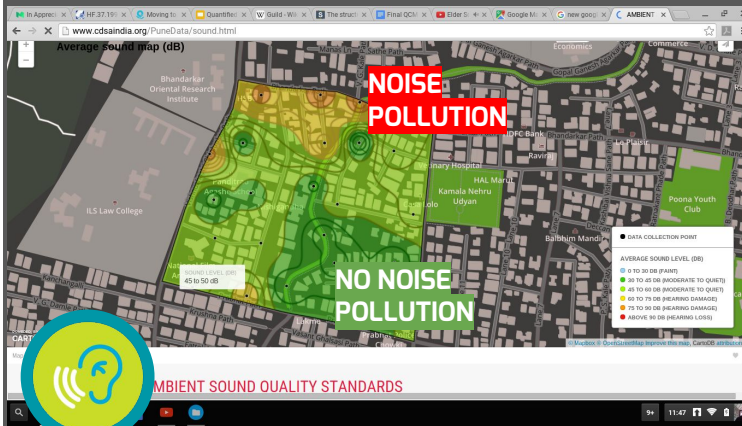


5

Analyse Data and Identify Stresses



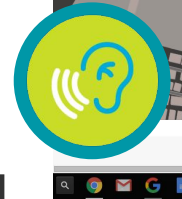
All the data collected will be published online along with the respective standards and norms.



Once the data is collected and mapped, identification of stress and risk situations can be done by comparing the data to the standards.

6

Propose solutions



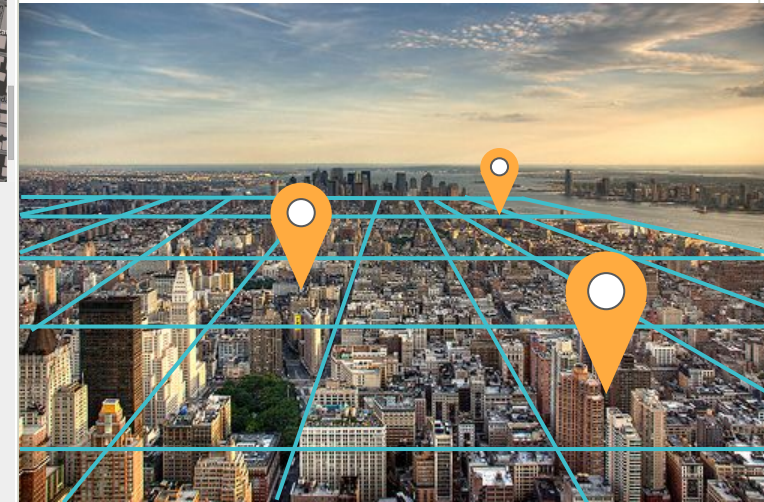
POSSIBLE SOLUTIONS FOR SOUND POLLUTION

1. Ban Honking wherever necessary.
2. Create artificial sound barriers.
3. Create natural sound barriers.
4. Better traffic management practices.

We enable thematic temporal and spatial convergences in data collected. Stakeholders can identify solutions related to stresses identified to ensure quality standards are upheld.

Once stresses are identified for all the indicators in the city, solutions can be proposed location specific to the stress which makes it a more **efficient and accurate problem solving process.**

How will the data be collected?



The GRID

A grid of 1 Hectare (100X100 Metres) will be laid on the city plan in order to maintain uniformity in data collection.

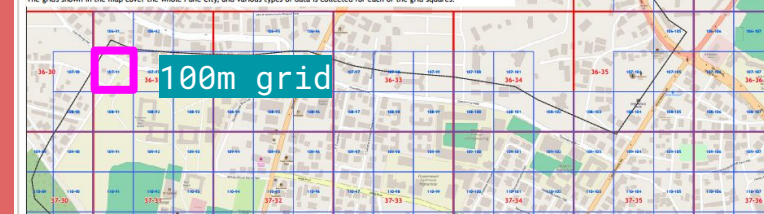
Pulse Points will be installed in each of the grid squares. Thus, data samples for each indicator will be obtained from each of these grids.

Fergusson College Road Ward

Pune Municipal Corporation electoral ward number 24

In order to properly plan, implement and monitor a city or any space we require a wide range of relevant, accurate and timely data. The Quantified Cities Movement has been created to help citizens to collect data for their neighborhoods to create transparency in the process of planning. The Quantified Cities Movement focuses on participation of adolescents along with adults for localized action for planning and urban resilience building.

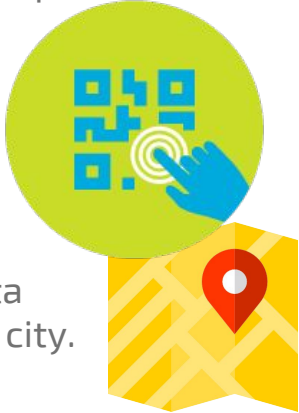
The grids shown in the map cover the whole Pune City, and various types of data is collected for each of the grid squares.



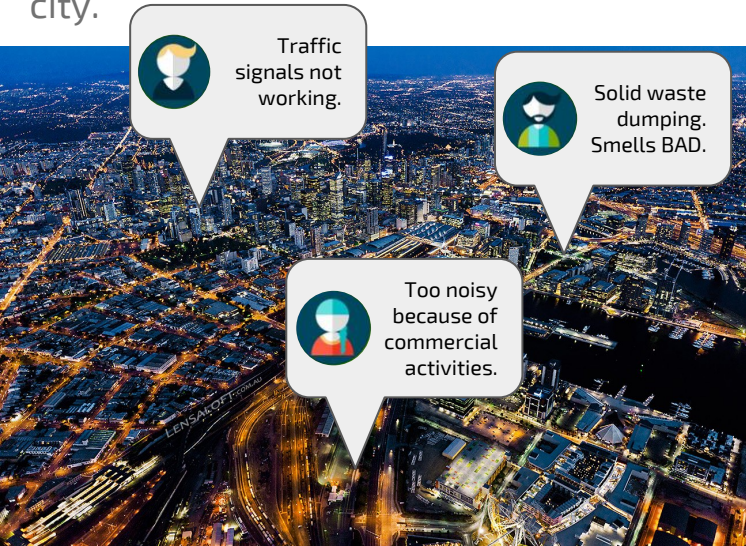
What is a Pulse Point ?

Pulse Points are QR Codes which can be accessed through the QCM app for citizens to enter data about their neighbourhoods and report stresses and risks.

To identify **stresses** all over the city , **QR Codes** will be installed in each grid To have a sample data from each unit of the city.



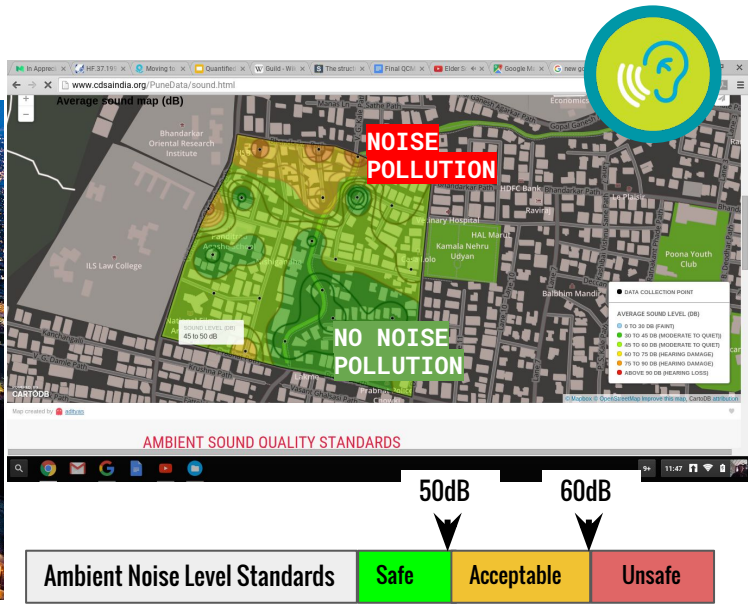
These QR codes are known as **Urban Pulse Points** as they are data points which identify the problems in every part of the city.



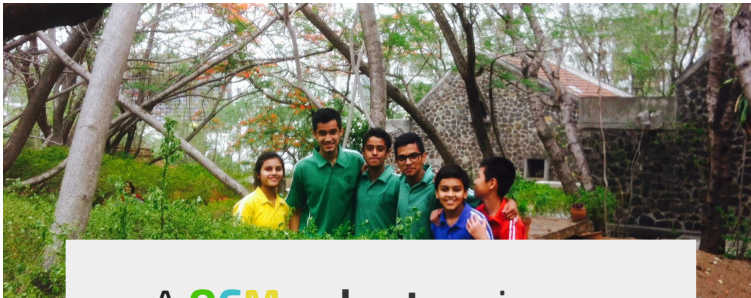
QCM Website

To improve the quality of life for all residents of a city, it is necessary to know the factors that affect it. WWW.QCMWEB.ORG is a platform for citizens to come together and gather this knowledge that can power research, highlight stresses and implement solutions to continually improve quality of life.

QCM website is where all citizens can view local area stresses and risks.



How can you be Involved?



A **QCM volunteer** is any citizen, regardless of age, gender, occupation or religion, who is interested in **improving the quality of life** of the city.

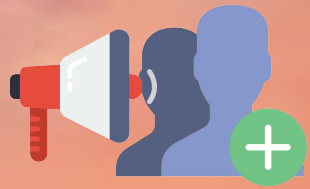
To become a **QCM** volunteer, register at www.qcmweb.org.



REGISTER NOW

Volunteers are trained and certified Through a **four hour workshop (free)**, conducted **every week**.

What does a QCM volunteer do ?



1 Publicize **QCM** and get new members to volunteer.



2 Help **QCM** install urban pulse points.



3 Scan the urban pulse points and collect data for **QCM**.



4 Donate towards **QCM** PROJECTS + LAB and help us improve our services.

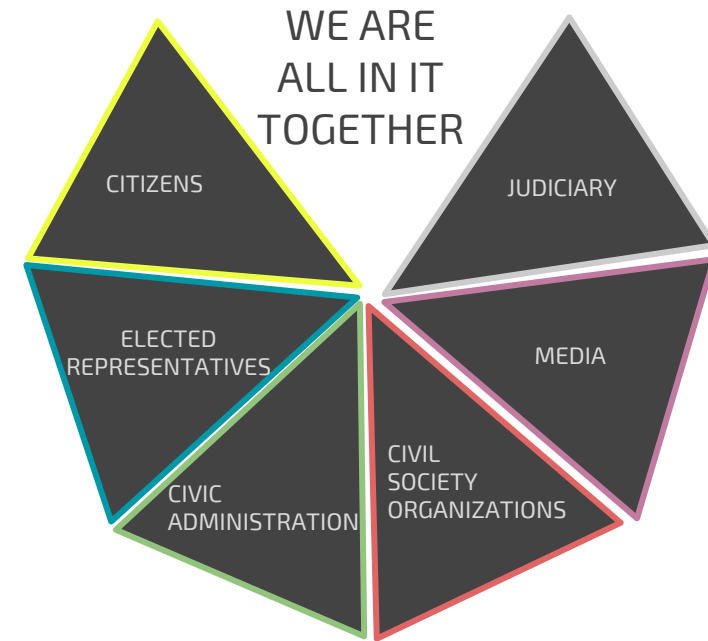


5 Analyze data through **QCM** LAB to create local area plans.



6 Help **QCM** monitor and evaluate plan implementation.

Quantified Cities Movement Stakeholders



CITIZENS/Made up of all groups including the remaining five stakeholder groups.

ELECTED REPRESENTATIVES/Are citizens elected by the other five groups to identify and pass laws to improve the quality of life of all citizens.

ADMINISTRATION/Are citizens appointed by the other five groups to execute the laws to improve quality of life for all citizens.

CSOs/Civil Society Organizations are non-governmental organizations meant to manifest the interests of all citizens for a better quality of life..

CONTACT



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@CDSA_QCM



<https://www.facebook.com/qcmpune/>



www.qcmweb.org