

# A bottom up sensor testbed

## Hands on WSN

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# Goals

The **general goals** of my project can be summarised in the following points:

- 1 Gather **data** about temperature, humidity, light, noise, and air quality.
- 2 **Share** the data as open data.
- 3 **Visualize** the data in a Android application.

# Introduction

This project has two main parts:

① **Arduino YUN.**



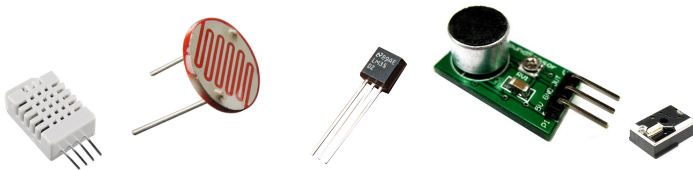
② **Android app.**



# Arduino Code

The arduino code has three functionalities:

- 1 **Collect** the analog & digital data.



- 2 Write it in the **logData** file.
- 3 Call the **python script** with the sensory data as arguments, and then the script will send it to opencities.

OPEN CITIES  
OSNPlatform 

# Android App

The app should do:

- 1 Get the **real-time** data from opencities.
- 2 Show it in a way that anybody can **understand** it.

# Thank you for your attention.

Reporsitory at  
[github.com/SergioAlmendros/A-bottom-up-sensor-testbed](https://github.com/SergioAlmendros/A-bottom-up-sensor-testbed)

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## Any questions?