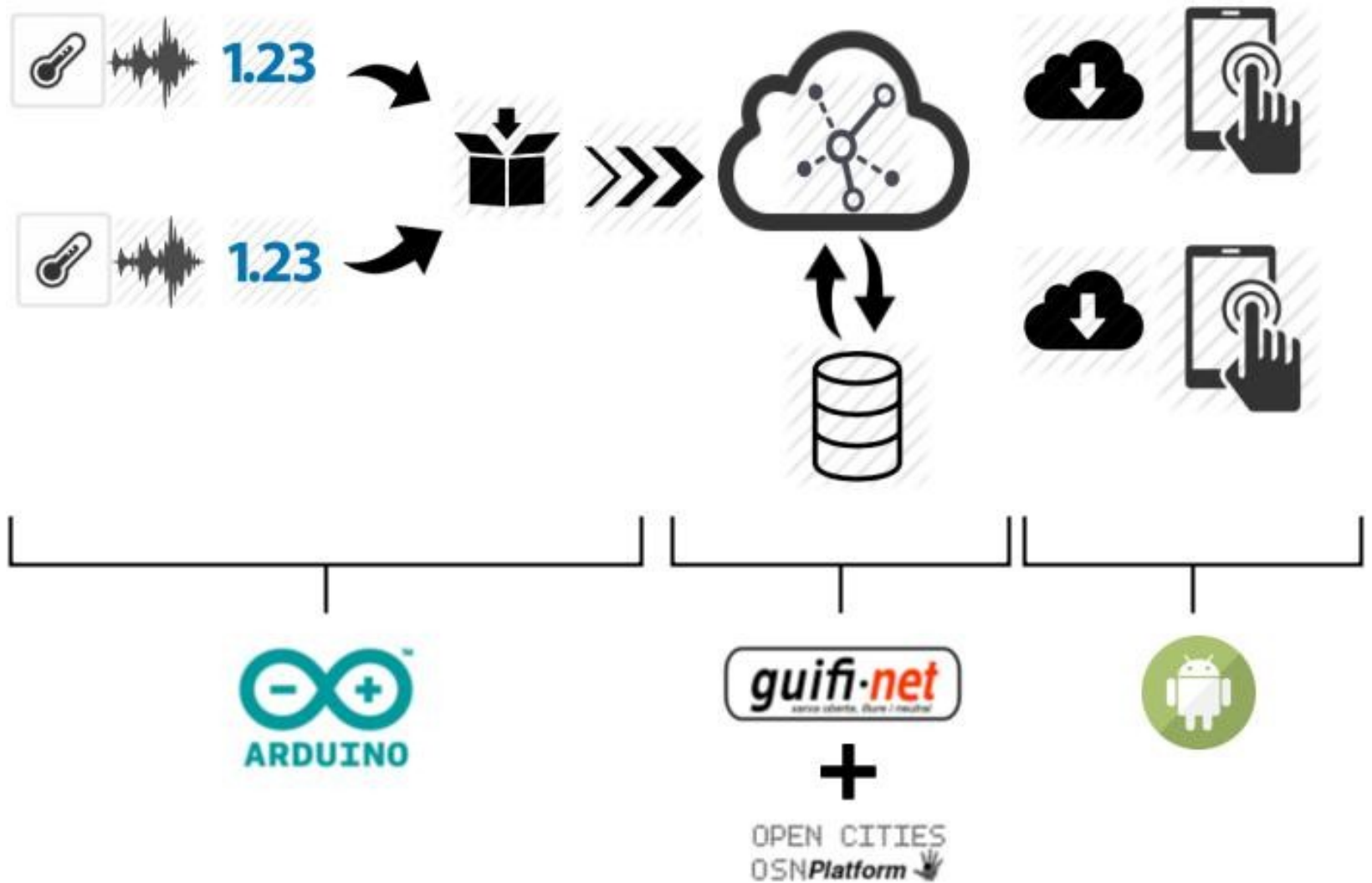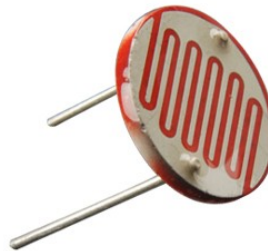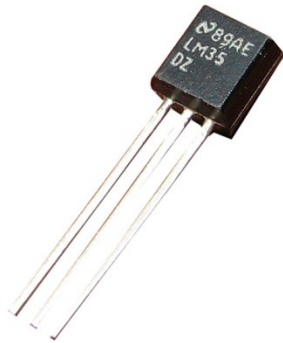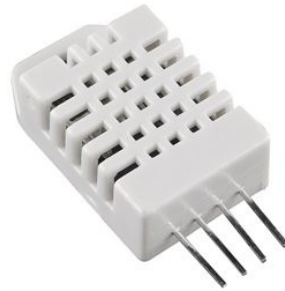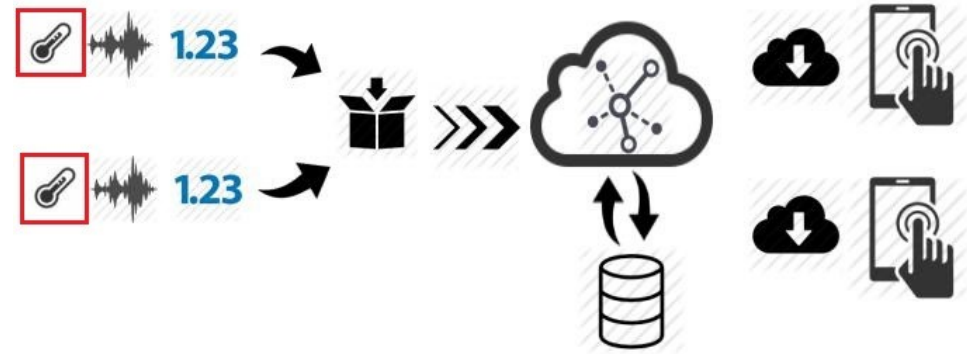# A BOTTOM UP SENSOR TESTBED

Alumno: Sergio Almendros Díaz

Tutor: Jaume Barceló

INTRODUCTION
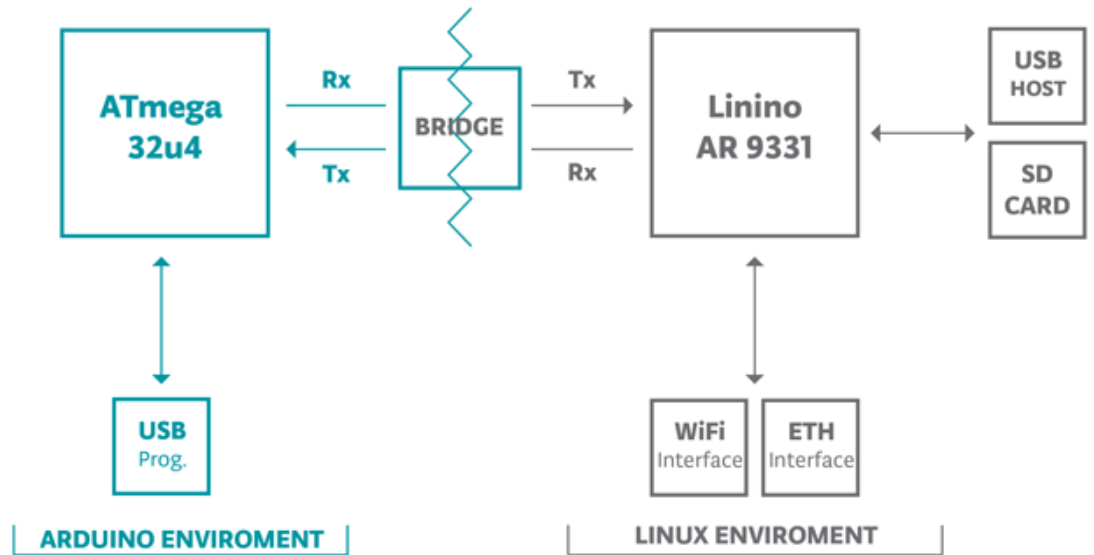
SENSORS

ARDUINO

ATmega 32u4 — Rx / Tx — BRIDGE — Tx / Rx — Linino AR 9331

USB Prog.

USB HOST

SD CARD

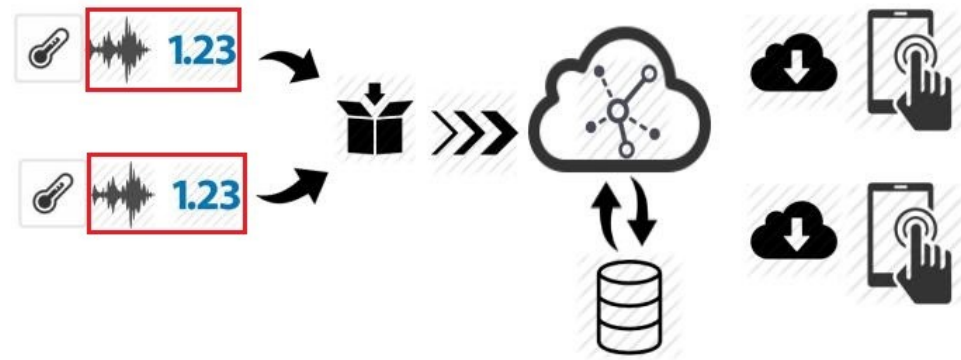WiFi Interface · ETH Interface

ARDUINO ENVIROMENT

LINUX ENVIROMENT
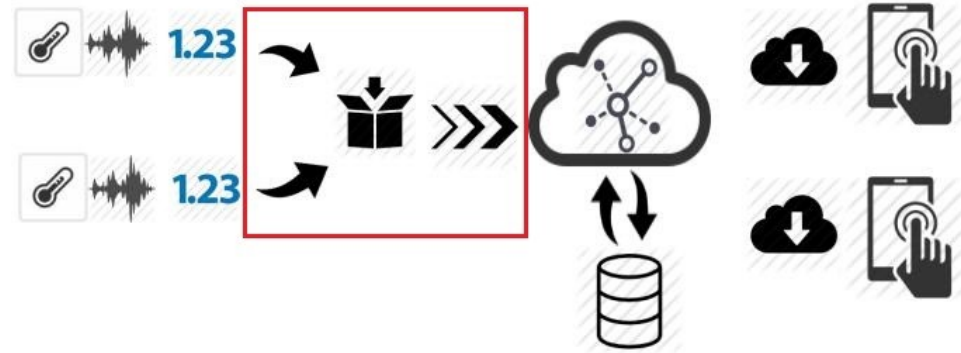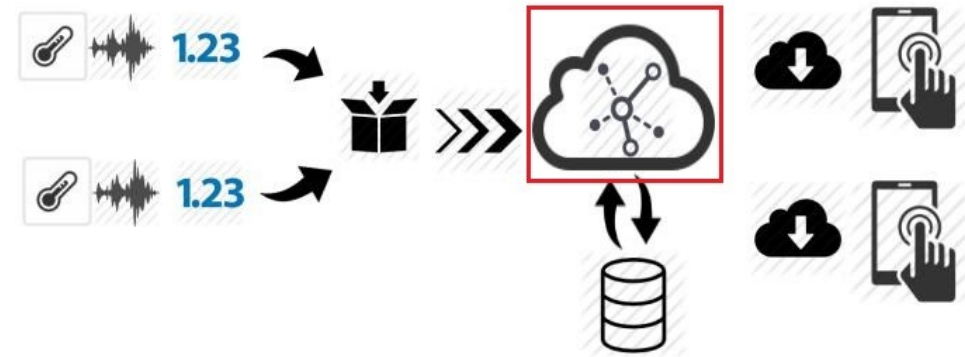
PYTHON


```json
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    "type": "FeatureCollection",
    "name": "dummy",
    "timeStamp": "2014-06-12T08:54:59.424Z",
    "features": [
        {
            "type": "Feature",
            "tags": [
                "red",
                "tall",
                "cheap",
                "upf"
            ],
            "geometry": {
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                ]
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        }]
}
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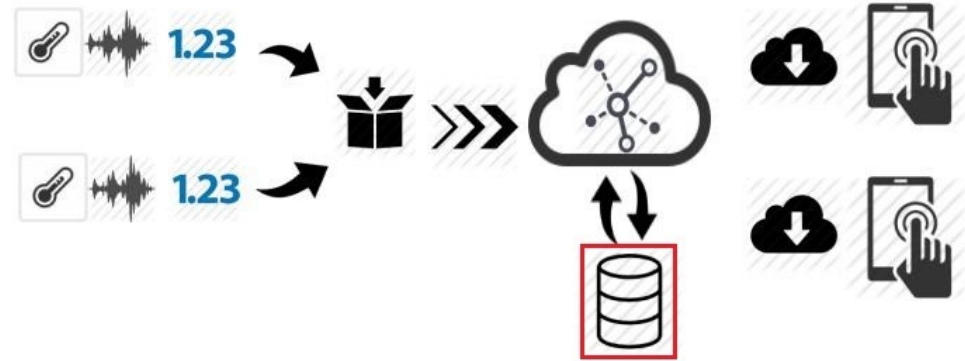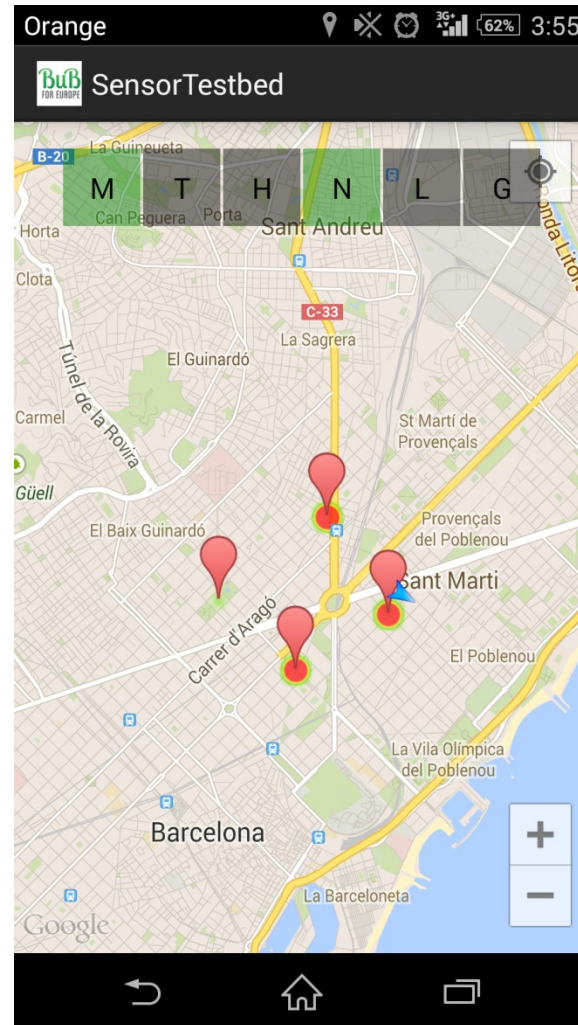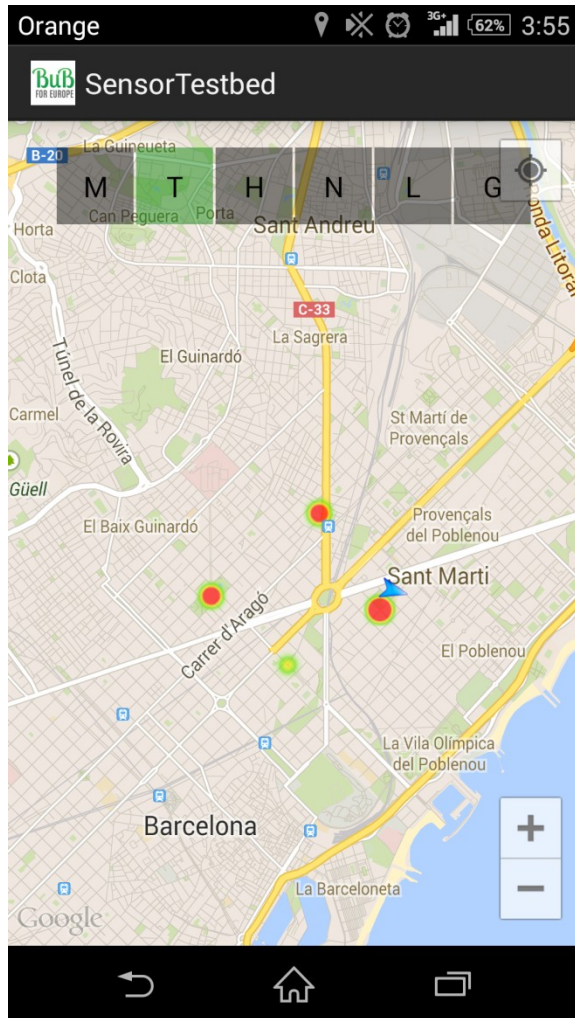
COMUNITY NETWORK
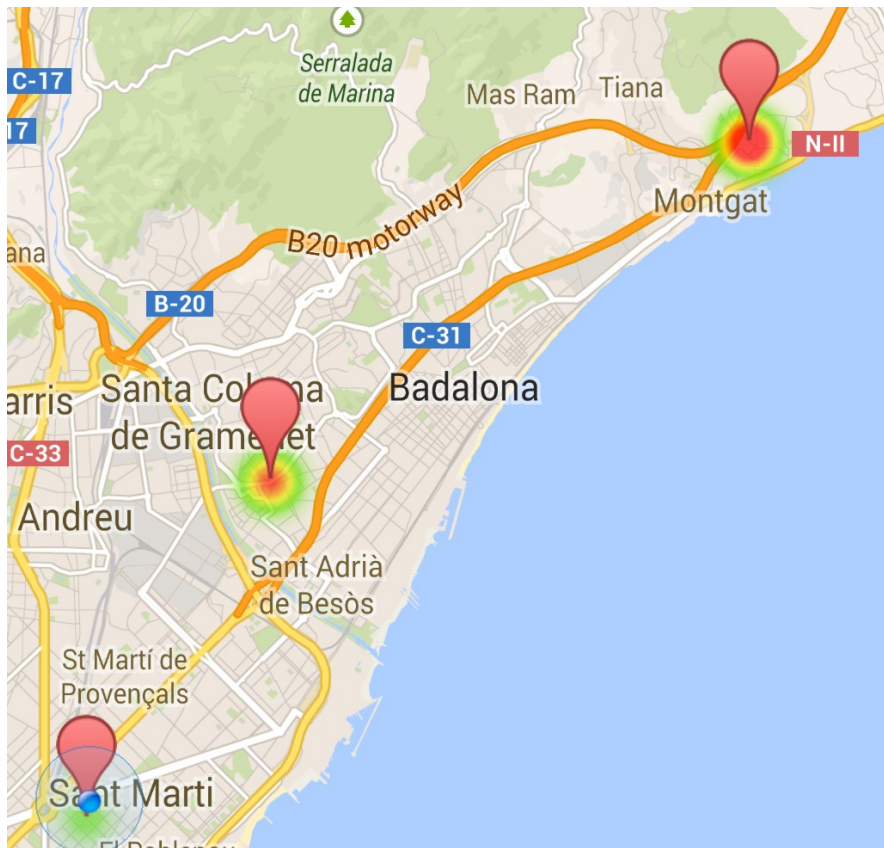

• Guifi.
• Open, free and neutral network.

OPENCITIES

ANDROID APP

TESTBED

- Free space
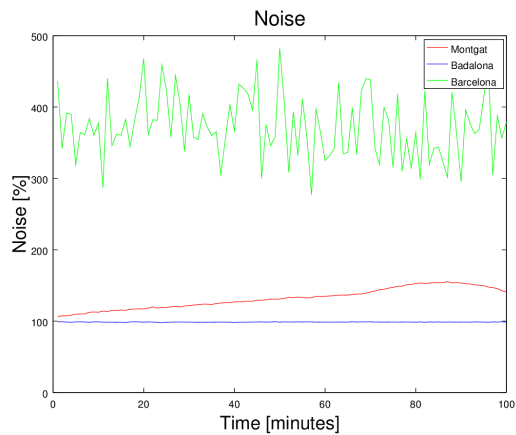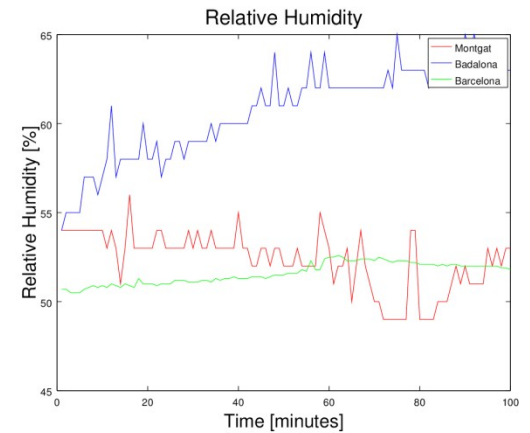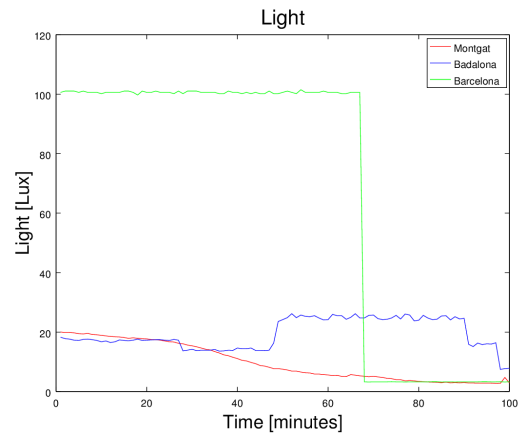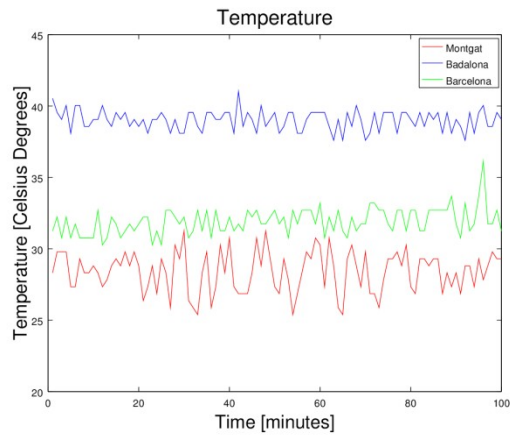- Different locations
- Collect the data into some graphs

TESTBED RESULTS
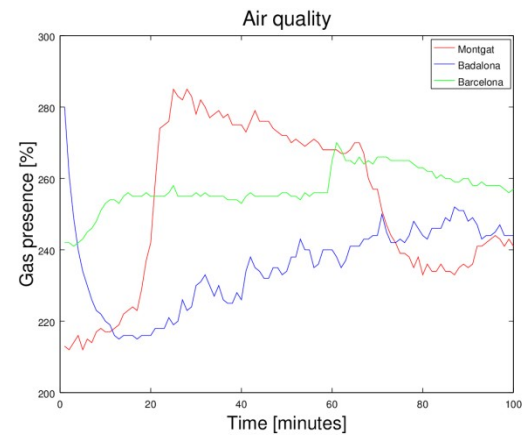
CONCLUSIONS

FUTURE WORK