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W.E.E. and Air Quality

Project Erasmus + 2019-1-ES01-KA202-063878

**Residuos Eléctricos y Electrónicos y Calidad del Aire**

# Plugin air quality (2021-2022)

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# The aim of the project

The aim of this project is to gather in real time the air quality in Bermejales (Seville, Spain), Patra-2 (Patra, Greece) and Druzhiba (Sofia, Bulgaria).

The image shows the condition of the air in Patra-2 the 3<sup>rd</sup> of October.



# Examples

The plugin also allow us to execute it in other regions with the search function.

Introduce el nombre de la estación:

Resultado:

Paris

29

2021-10-07 16:00:00



# Examples

We can also download the plugin, in order to see as the other page.



# Ours stations

In order to use the plugin we need to have:

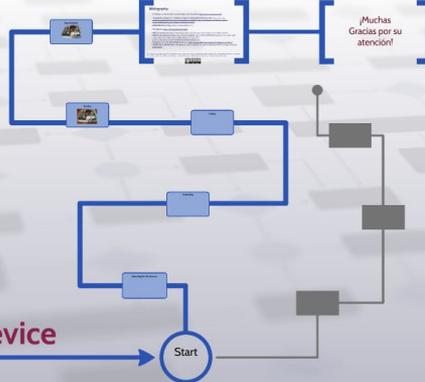
- MongoDB
- Heroku
- Arduino



# Ours stations

The most important part is our own measurements devices. One in Sevilla and the other, and bigger, in Chania.

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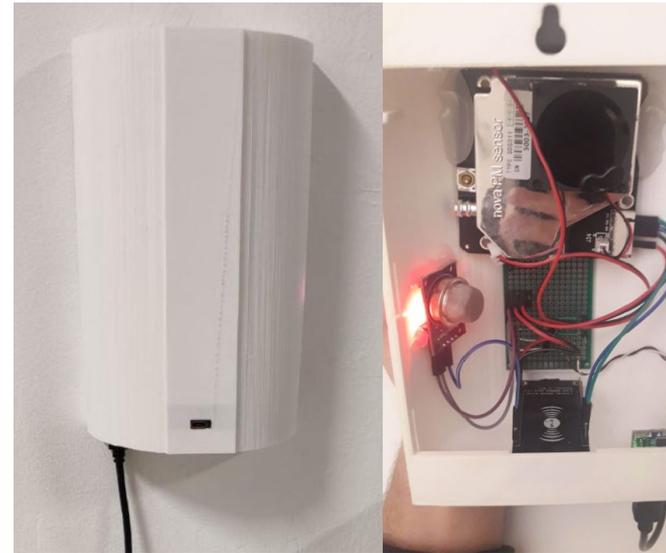


**Air Quality Measurement Device**

Project Erasmus + 2019-1-ES01-KA202-063878  
Residuos Eléctricos y Electrónicos y Calidad del Aire  
1st Mobility  
Seville, 2-7 of February 2020

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link for on-line presentation: [https://prezi.com/ss80Ou91nhld/?utm\\_campaign=share&utm\\_medium=copy](https://prezi.com/ss80Ou91nhld/?utm_campaign=share&utm_medium=copy)



# Ours stations

Thanks to Heroku we can recollect all the data this devices are taking.

- First, the data is send to Heroku.
- Heroku send the data to MongoDB.
- With the API in Heroku, we can see all the data in the next page.

# Plugin

This are the two currently operative devices we have.

Nuestras medidas de la Calidad del Aire	
  Cofinanciado por el programa Erasmus+ de la Unión Europea	
R.E.E y Calidad del Aire	
SEVILLA (España)	08/10/2021 11:25
CO <sub>2</sub> <sup>*</sup>	417
NH <sub>3</sub> <sup>*</sup>	3
NO <sup>*</sup>	13
PM <sub>10</sub> <sup>*</sup>	2
PM <sub>2.5</sub> <sup>*</sup>	1

Nuestras medidas de la Calidad del Aire	
  Cofinanciado por el programa Erasmus+ de la Unión Europea	
R.E.E y Calidad del Aire	
CHANIA (Grecia)	08/10/2021 11:24
CO <sub>2</sub> <sup>*</sup>	739
NH <sub>3</sub> <sup>*</sup>	8
NO <sup>*</sup>	28
PM <sub>10</sub> <sup>*</sup>	78
PM <sub>2.5</sub> <sup>*</sup>	76

# Bibliography:

- [Official plugin web page](#)
- [Official GitHub code](#)
- [Devices used](#)
- [Other devices](#)

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