

Citizen Science in Spain

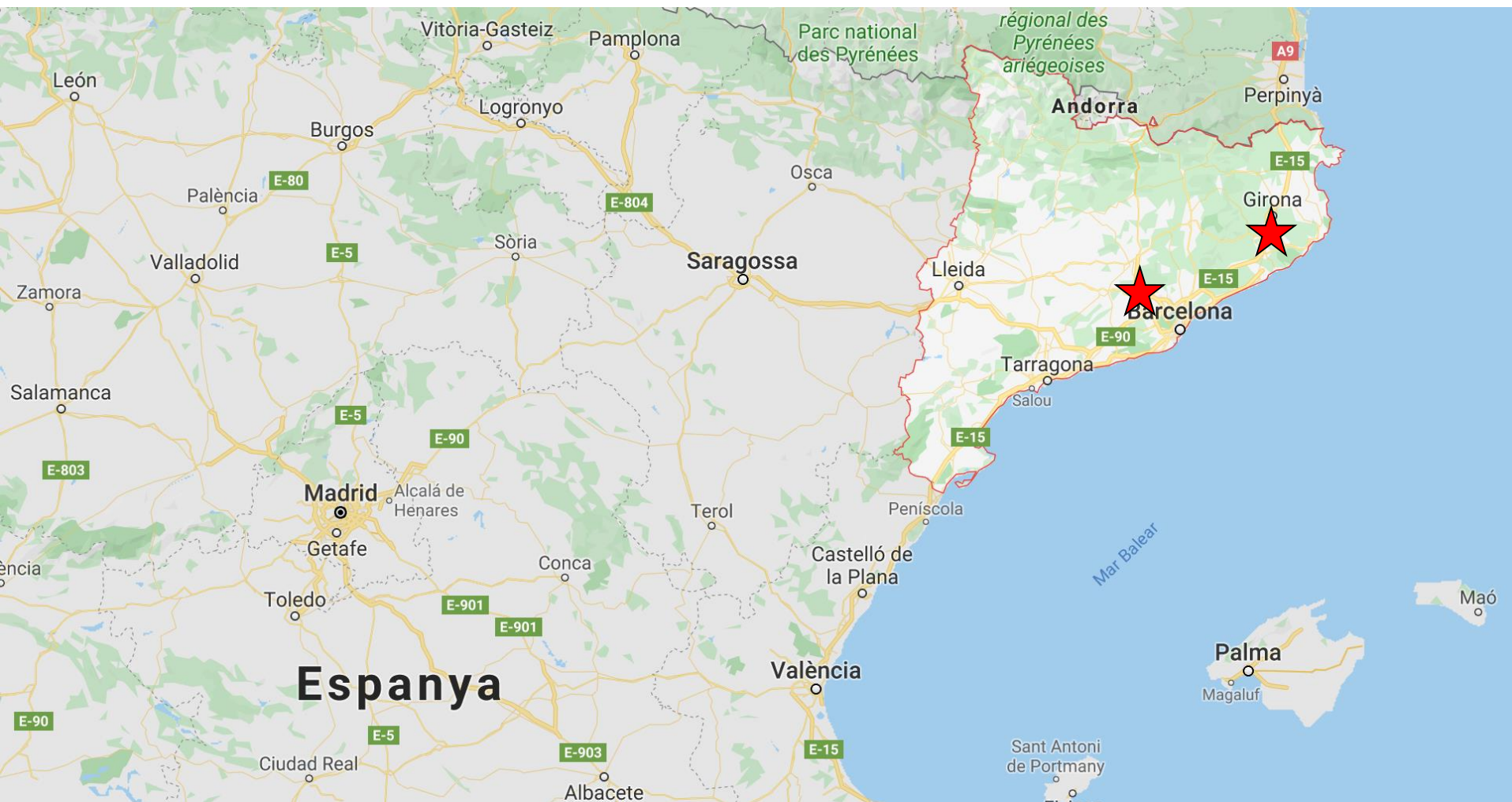
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Citizen Science

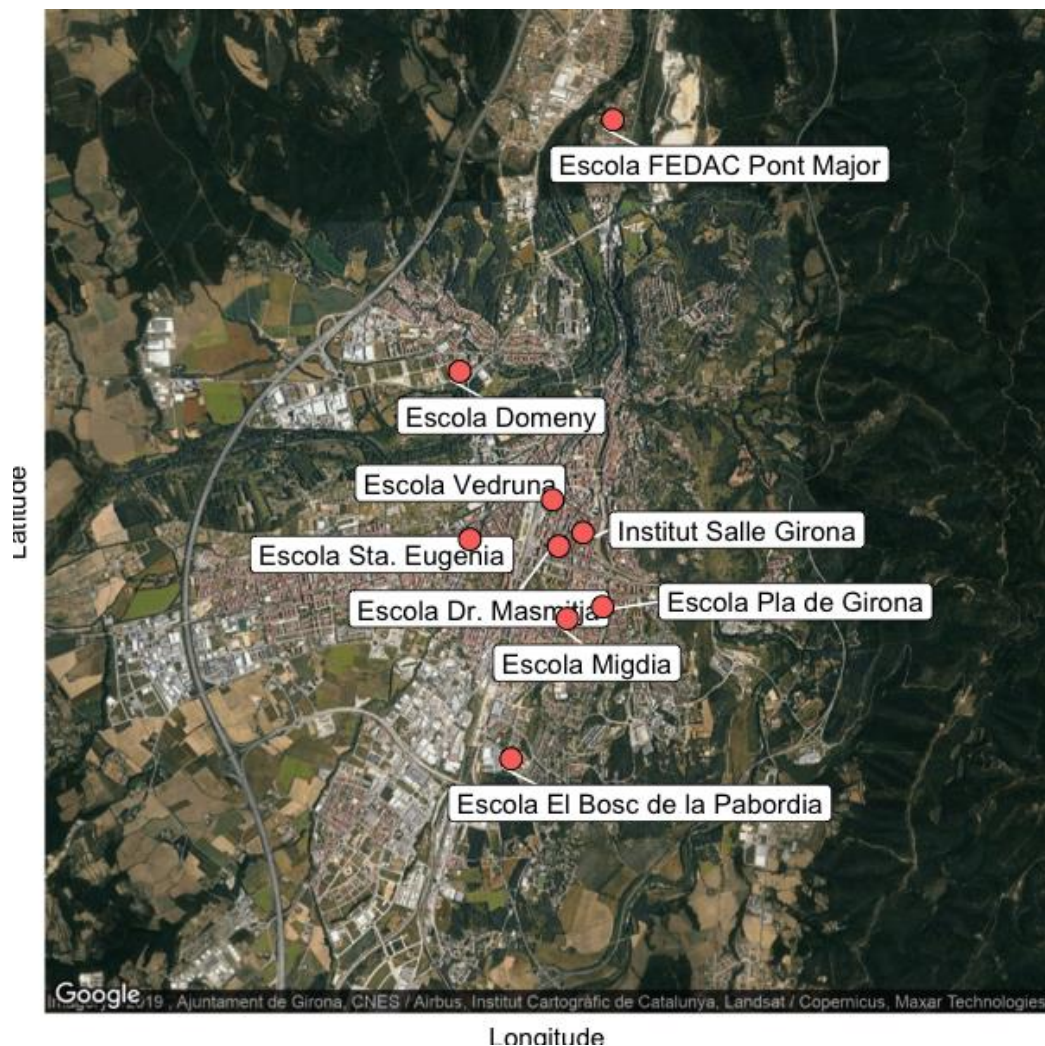


- Ready early 2019
- Waited for the group to organise project at same time
- Budget limited to carry out pilot in Spain
- 2 cities in Catalonia:
 - Girona with finance from MITECO & suport by Girona's LA
 - Sabadell with finance from Sabadell's LA
- Project took place October to November 2019

Selected schools



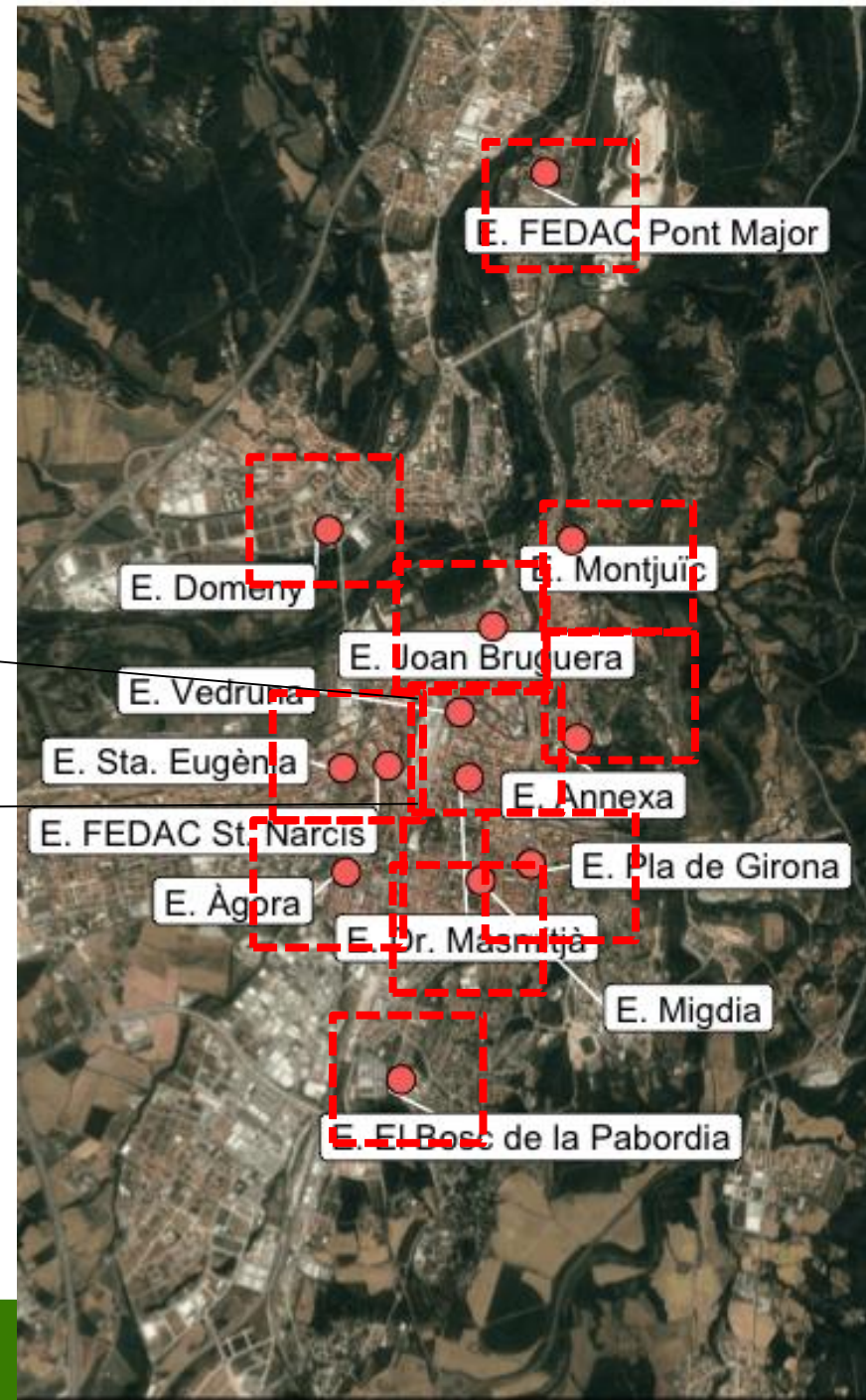
Selected schools



Plan

- Select 15-20 points around each school
- Minimum:
 - Main school entrance
 - 1 Indoor
 - 1 playground
 - Traffic & background (50:50)

At each school

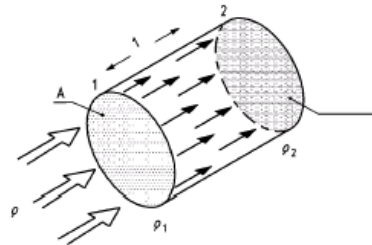




Lonitud

How to measure ?

- NO₂ passive sampler
- At 2.5m
- 4 week exposure



Calendar

- **June**
 - Final points around school
- **September (23 set)**
 - Re-cap project after summer break
 - Distribution of material
- **September (25 set)**
 - First Deployment of tubes



Calendar



- **Collection & deployment (23 oct)**
- **Final collection (20 nov)**
- **Desembre**
 - Presentation of preliminary results
 - Elaboration of plans and change of behaviour at school level

Citizen science



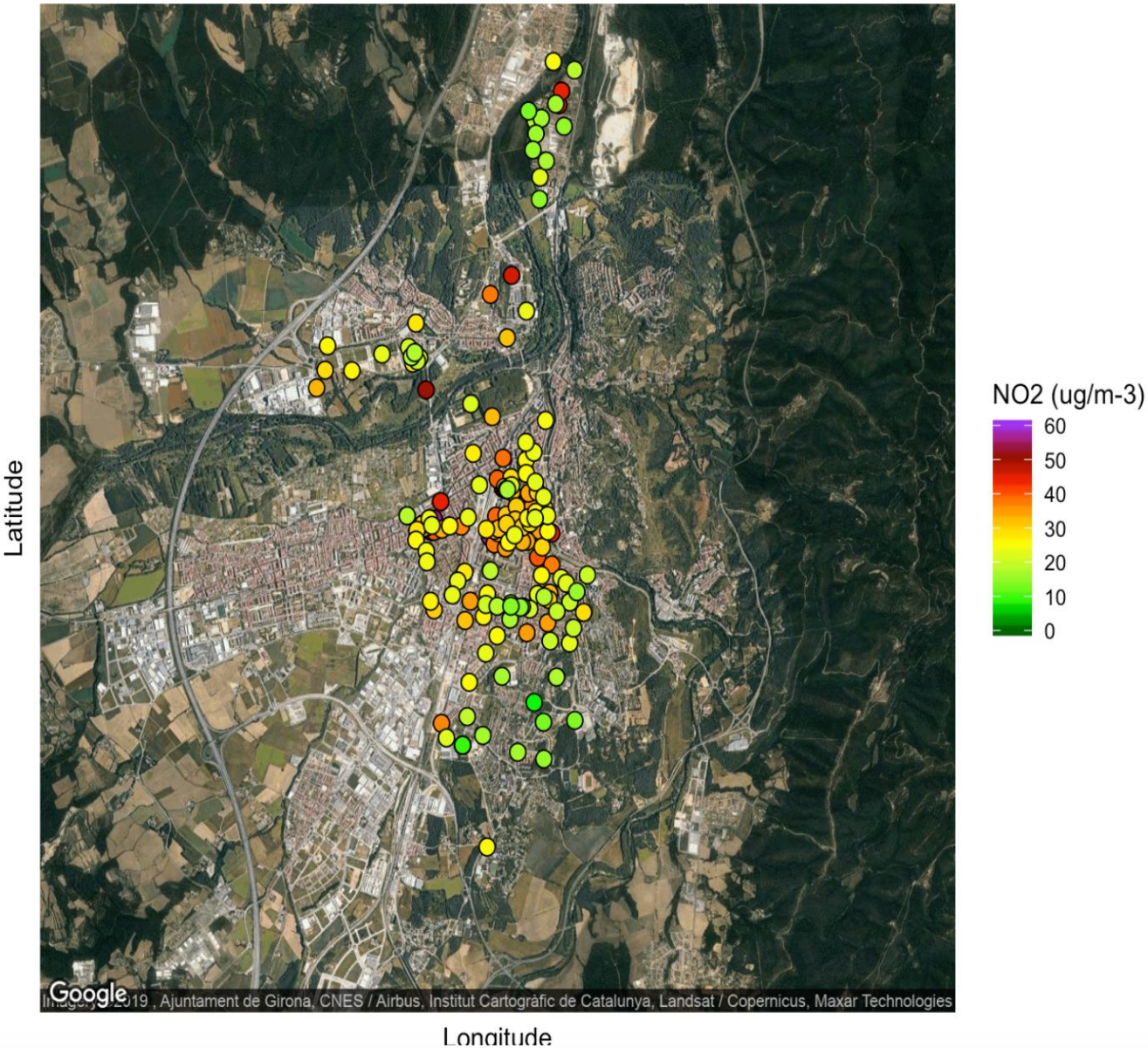
Expected conclusions

- Participation in a European initiative
- Quick execution (finish in December)
- The whole education community involved
- Improve knowledge & change habits

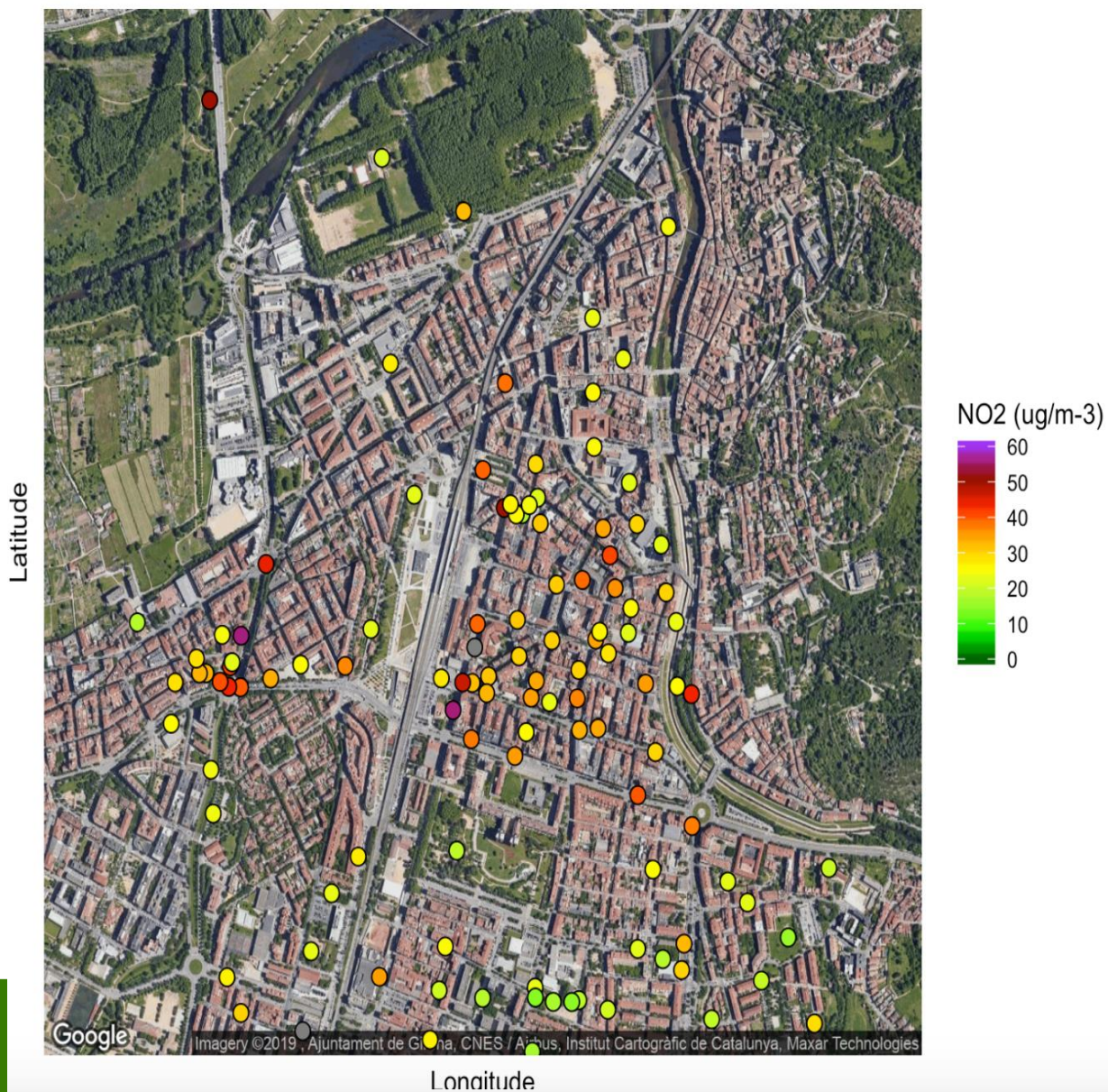
KEY – quality control



Preliminary results



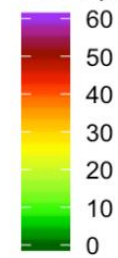
Preliminary results



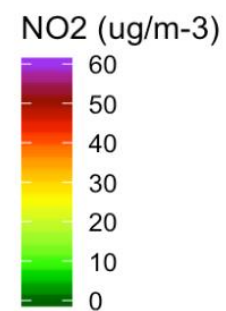
Latitude



NO2 (ug/m-3)



Longitude



Longitude

Challenge



- Initiative on top of normal work load (MITECO)
- Short-time to engage with schools
 - Engagement end School year 2018/2019
 - Start project 2019/2020
- Ensure we can compare schools & districts
- ...

Next steps

- **Receive results from 2nd period**
- **Summarise results & provide them to each school**
- **Work on the questionnaire and analyse them**
- **Event to present results in Sabadell & Girona**
- **Twinning with other schools**

2020

- **Project in two other cities**
- **Organise an umbrella for similar projects?**
- **Increase budget?**
- **Continue twinning with other schools**
- **...**

Any question?

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