

Pilot test in the Metropolitan Area of Barcelona (AMB) and Activity 6.6 Citizen awareness campaigns by mobile apps

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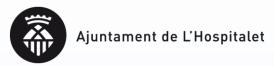
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Interreg Pilot Test in AMB











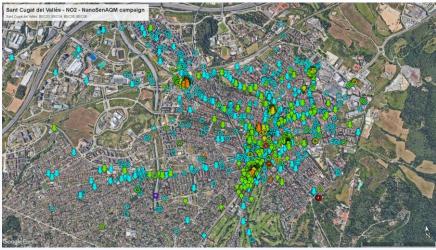


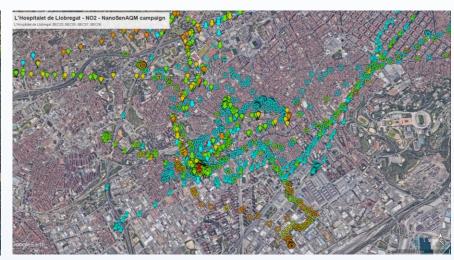




Results NO2







SO₂		PM2,5		PM10		O ₃		NO ₂		CATEGORÍA DEL ÍNDICE
0	100	0	10	0	20	0	50	0	40	BUENA
101	200	11	20	21	40	51	100	41	90	RAZONABLEMENTE BUENA
201	350	21	25	41	50	101	130	91	120	REGULAR
351	500	26	50	51	100	131	240	121	230	DESFAVORABLE
501	750	51	75	101	150	241	380	231	340	MUY DESFAVORABLE
751-1250		76-800		151-1200		381-800		341-1000		EXTREMADAMENTE DESFAVORABLE

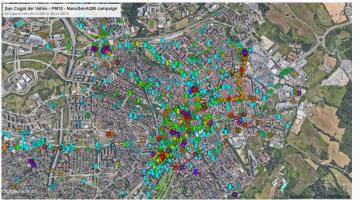
Higher concentration due to:

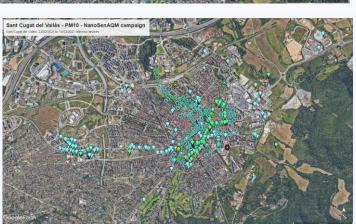
- the mobility associated with commuting
- the heavy presence of industrial parks
- narrow streets with tall buildings on both sides does is make it difficult for pollutants to scatter in the air

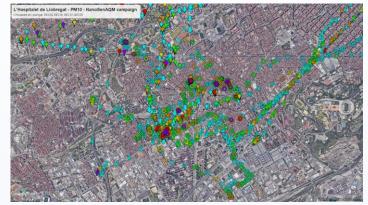


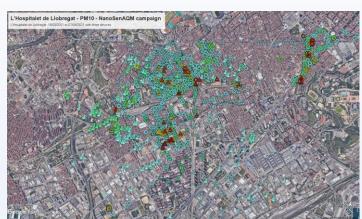
Nan@Sen-AQM Results PM10

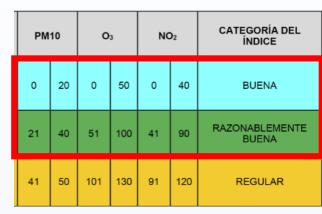














Higher concentration due to:

- influence of mobility in traffic routes
- construction work

- the effect of earth moving due to construction work
- the presence of loose soil in the area.

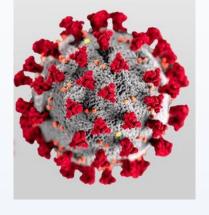


Other low cost sensors











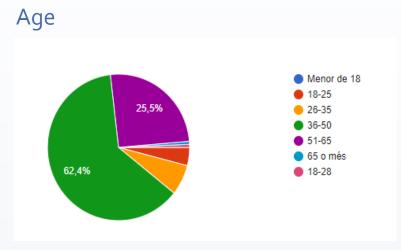






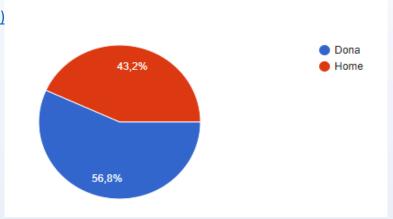
Campaigns through survey citizens: results



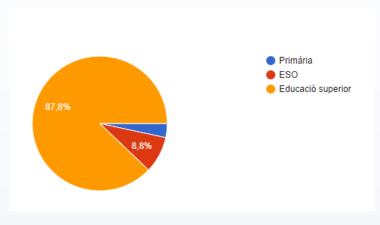




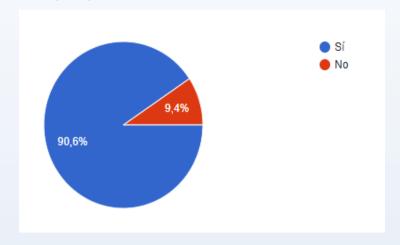
Enquesta QA - Àrea Metropolitana de Barcelona (amb.cat)



Education Level



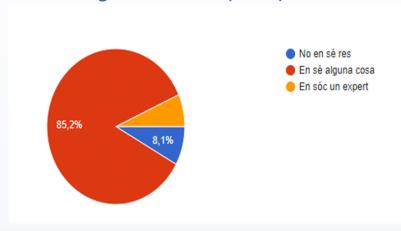
Employment Situation



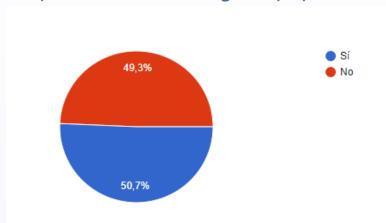


Campaigns through survey citizens: results

Knowledge about air quality



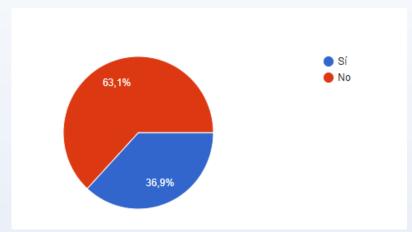
Air pollutants affecting the population



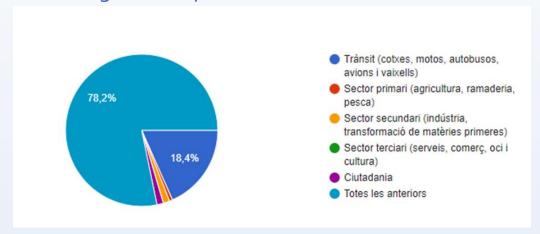
Called pollutants



Difference emission and immission



Sources generate pollutants





Conclusions

About low cost sensors:

- More projects like Interreg Sudoe NanoSen AQM are needed to improve sensors that measure air quality anywhere, anytime.
- Contrast the traceability between the prototype sensors and the commercial sensors and the calibrations of these contrasted with the official measurement stations.

About awareness and education citizenship:

- -The survey shows that pedagogy should continue on some aspects related to air quality, such as the difference between "emission and immission", since 63% affirm that they do not know this difference. The most frequently mentioned pollutants are NOx and PM10.
- -Highlights the need for the citizens to be informed and take advantage of the educational resources in place which exist precisely to raise awareness about air quality and related environmental issues.



Thank you for your attention!



www.nanosenaqm.eu























