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W.E.E. and Air Quality



I.E.S. PUNTA DEL VERDE

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

Electrical and Electronic Waste and Air Quality

Influence of air quality on mortality and life expectancy in different European countries

[EUROPEAN REPORT](#)

[OUR RESUME](#)

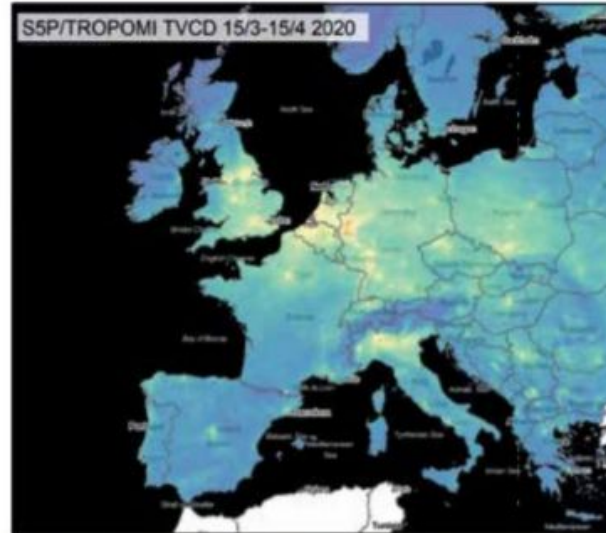
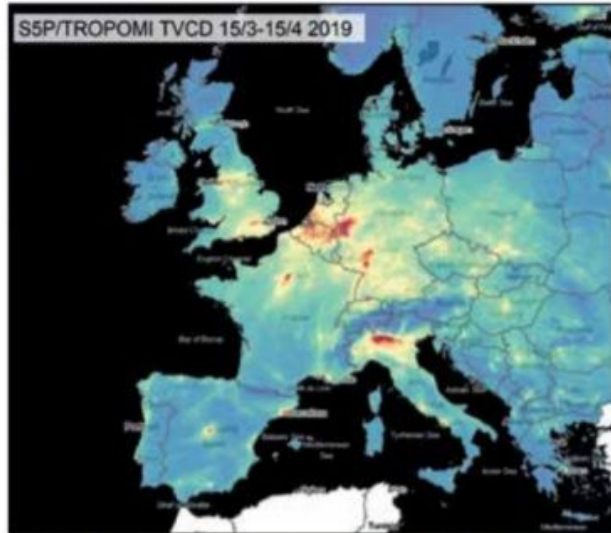
Adrià García Pons
Lucía Ramirez Monje
2º ASIR A

Quality Report



Comparative maps before the pandemic and during confinement

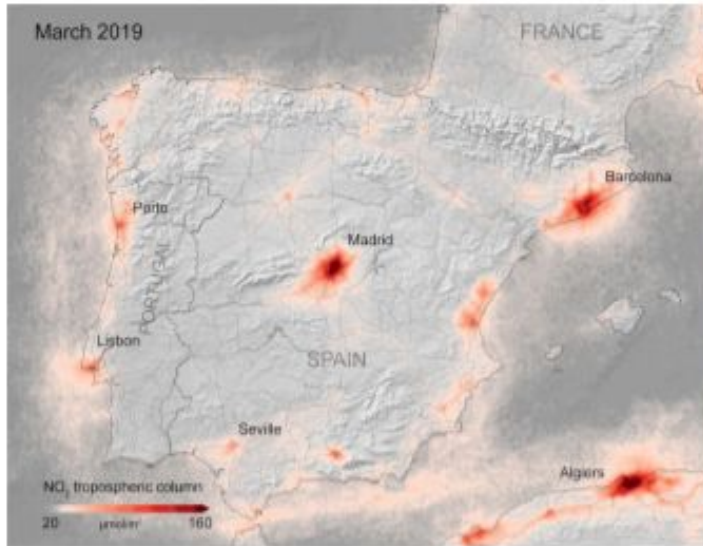
Map 2.1 Average NO₂ pollution level (tropospheric vertical column) from Sentinel-5P/TROPOMI for the period 15 March to 15 April 2019 (left panel) and for the same period in 2020 (right panel)



- High Activity in North Italy and Belgium
- NO₂ is a toxic gas for humans

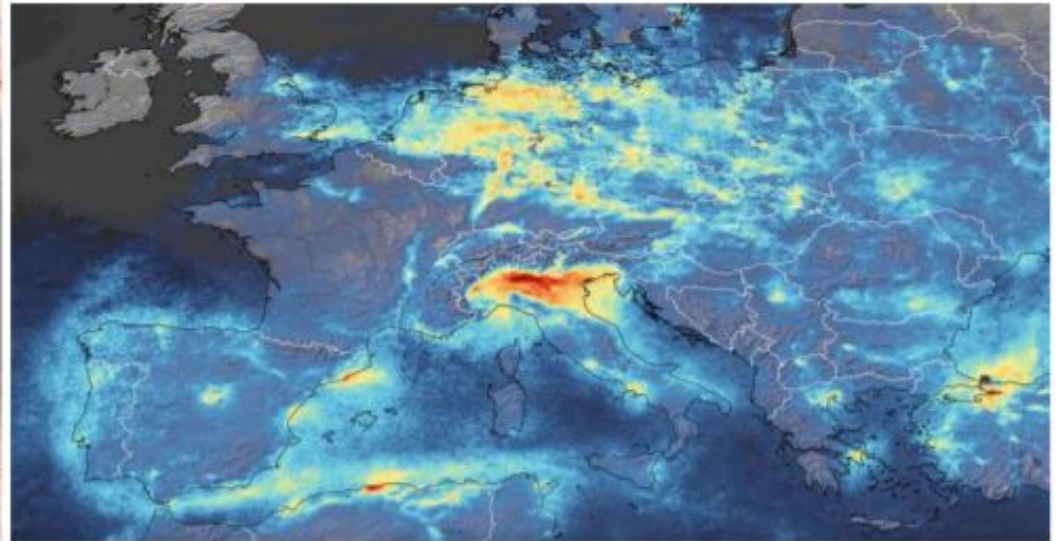
SATELLITE COMPARISON

Comparativa en España



[COMPARATIVE VIDEO SPAIN](#)

Comparativa en Europa



[COMPARATIVE VIDEO EUROPE](#)

MAP OF YEARS OF LIFE LOST



- Germany, Italy, UK, Poland and France most affected countries
- The map data is based by total pollution measures
- Months of Life Lost per inhabitant:

Greece: 15 months
Bulgary: 21 months
Spain: 8 months

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MAP OF PREMATURE DEATHS



- Germany, Italy, UK, Poland and France most affected countries
- The map data is based by total pollution measures
- Total deaths due to pollution:

Greece: 15.450
Bulgary: 13.920
Spain: 31.600

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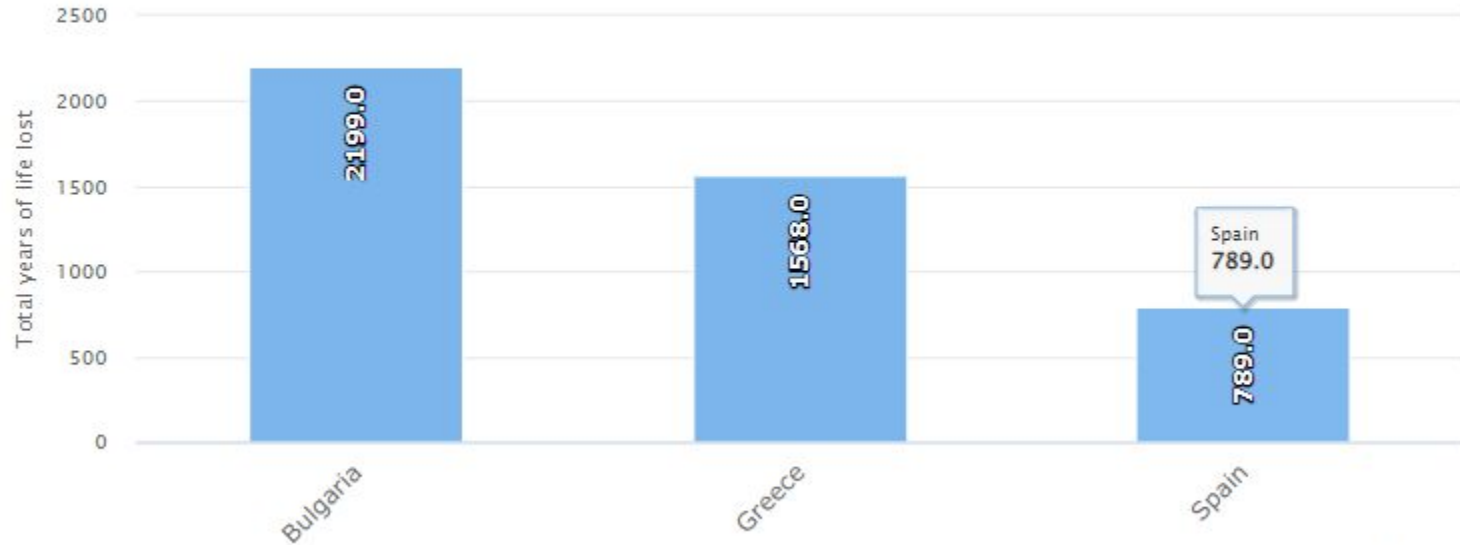
APPLICATION

Total years of life lost by 100000 inhabitants



Source: [Air quality in Europe — 2020 report](#)

Datum by 2018



Highcharts.com

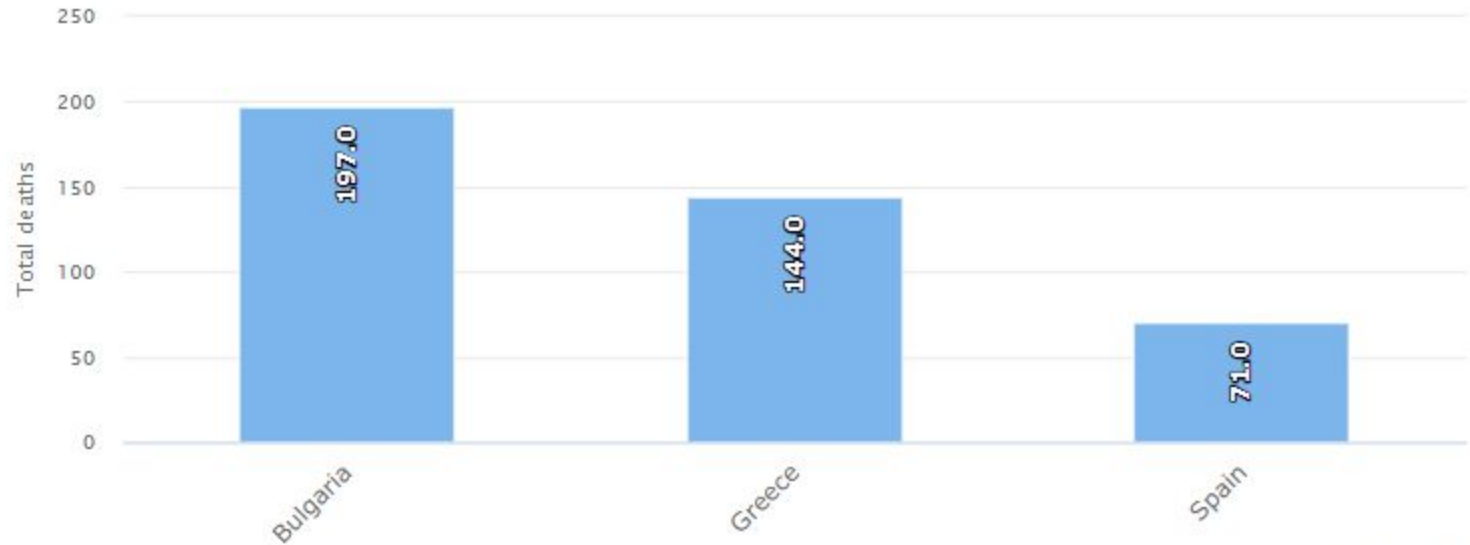


Total population death by 100000 inhabitants



Source: [Air quality in Europe — 2020 report](#)

Datum by 2018



Highcharts.com



PREMATURE DEATHS DUE TO POLLUTION EXPOSURE

Country	Population personas	PM2.5		NO2		O3		Total miles
		Anual mean $\mu\text{g}/\text{m}^3$	Premature deaths	Anual mean $\mu\text{g}/\text{m}^3$	Premature deaths	Anual mean	Premature deaths SOMO35 (*) $\mu\text{g}/\text{m}^3$ día	
Bulgaria	7.050.000	21,0	12.500	19,0	1.100	3.765	320	13.920
Greece	10.741.000	18,3	11.800	21,0	3.000	7.157	650	15.450
Spain	44.452.000	10,2	23.000	19,4	6.800	5.841	1.800	31.600
EU-28 total	507.558.000	13,2	379.000	17,8	54.000	4.970	19.400	452.400

- PM 2.5: Particles in the air
- NO2: Toxic Gas
- O3: Toxic gas with excessive exposition

LIFE YEARS LOST DUE TO POLLUTION EXPOSURE

Country	PM2.5		NO2		O3	
	YLL (years of life lost)	YLL/100000 Habitantes	YLL	YLL/100000 Habitantes	YLL	YLL/100000 Habitantes
Bulgaria	139.600	1.980	11.800	167	3.700	52
Greece	128.800	1.199	32.200	300	7.400	69
Spain	254.700	573	75.400	170	20.600	46
EU-28 total	4.381.000	863	610.000	120	232.000	46

Bibliography

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Application: <https://appyearslost.herokuapp.com/>