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AIRUSE

Testing and development of air quality mitigation measures in Southern Europe

PM10 TRENDS IN AIRUSE CITIES

REPORT 3

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PM10 TRENDS IN THE AIRUSE CITIES

Figure 1 shows the clear PM10 downwards trends recorded at all the air quality monitoring sites of the 5 metropolitan areas studied in AIRUSE. Thus, BCN-MA and POR-MA, the downwards trends were evident since 2005-2006 and these cities recorded averaged decreases on both PM10 annual means and 90.4 percentile values ranging from -49 to -45% form the period 2000-2005 or 2000-2006 to 2013. Similar trends were evidenced for MLN-AGG and FI-AGG, but with sensibly lower decreases, -34 to -29%. For ATH-GAA this decrease was gradual from 2001 to 2013 and reached -32 and -29%.

BCN-MA

- Mean of 69 µg/m^3 for the 90.4 PM10 percentile value of all the monitoring sites of the BCN-MA (AQZ-1) in 2000-2006 and a progressive decrease down to 34 µg/m^3 in 2013, accounting for a decrease of **-49%.**
- Mean of 47 µg/m^3 for the PM10 annual averges at all the monitoring sites of the BCN-MA (AQZ-1) in 2000-2006 and a progressive decrease down to 24 µg/m^3 in 2013, accounting for a decrease of -49%.

FI-AGG

- Mean of 63 µg/m^3 for the 90.4 PM10 percentile value in 2000-2007 for the 2 monitoring sites of the FI-AGG with continnuoud records and a progressive decrease down to 45 µg/m^3 in 2013, accounting for a decrease of **-29%.**
- Mean of 41 µg/m^3 for the PM10 annual average values in 2000-2007 for the 2 monitoring sites of the FI-AGG with continnuoud records and a progressive decrease down to 27 µg/m^3 in 2013, accounting for a decrease of **-34%.**

POR-MA

- Mean of 81 µg/m^3 for the 90.4 PM10 percentile value in 2000-2005 for all the monitoring sites of the POR-MA and a progressive decrease down to 44 µg/m^3 in 2013, accounting for a decrease of **-45%.**
- Mean of 46 µg/m^3 for the PM10 annual average values in 2000-2005 for all monitoring sites of the POR-MA and a progressive decrease down to 25 µg/m^3 in 2013, accounting for a decrease of **-46%.**

ATH-GAA

- Mean of 80 µg/m^3 for the 90.4 PM10 percentile for all the monitoring sites of the ATH-GAA in 2001 and a progressive decrease down to 57 µg/m^3 in 2013, accounting for a decrease of **-29%.**
- Mean of 51 µg/m^3 for the PM10 annual average values for all monitoring sites of the ATH-GAA in 2001 and a progressive decrease down to 37 µg/m^3 in 2013, accounting for a decrease of **-32%.**

MLN-AGG

- Mean of 96 µg/m^3 for the 90.4 PM10 percentile for all the monitoring sites of the MLN-AGG in 2000-2006 and a progressive decrease down to 68 µg/m^3 in 2013, accounting for a decrease of **-29%.**
- Mean of 51 µg/m^3 for the PM10 annual average values for all monitoring sites of the MLN-AGG in 2000-2006 and a progressive decrease down to 34 µg/m^3 in 2013, accounting for a decrease of **-32%.**

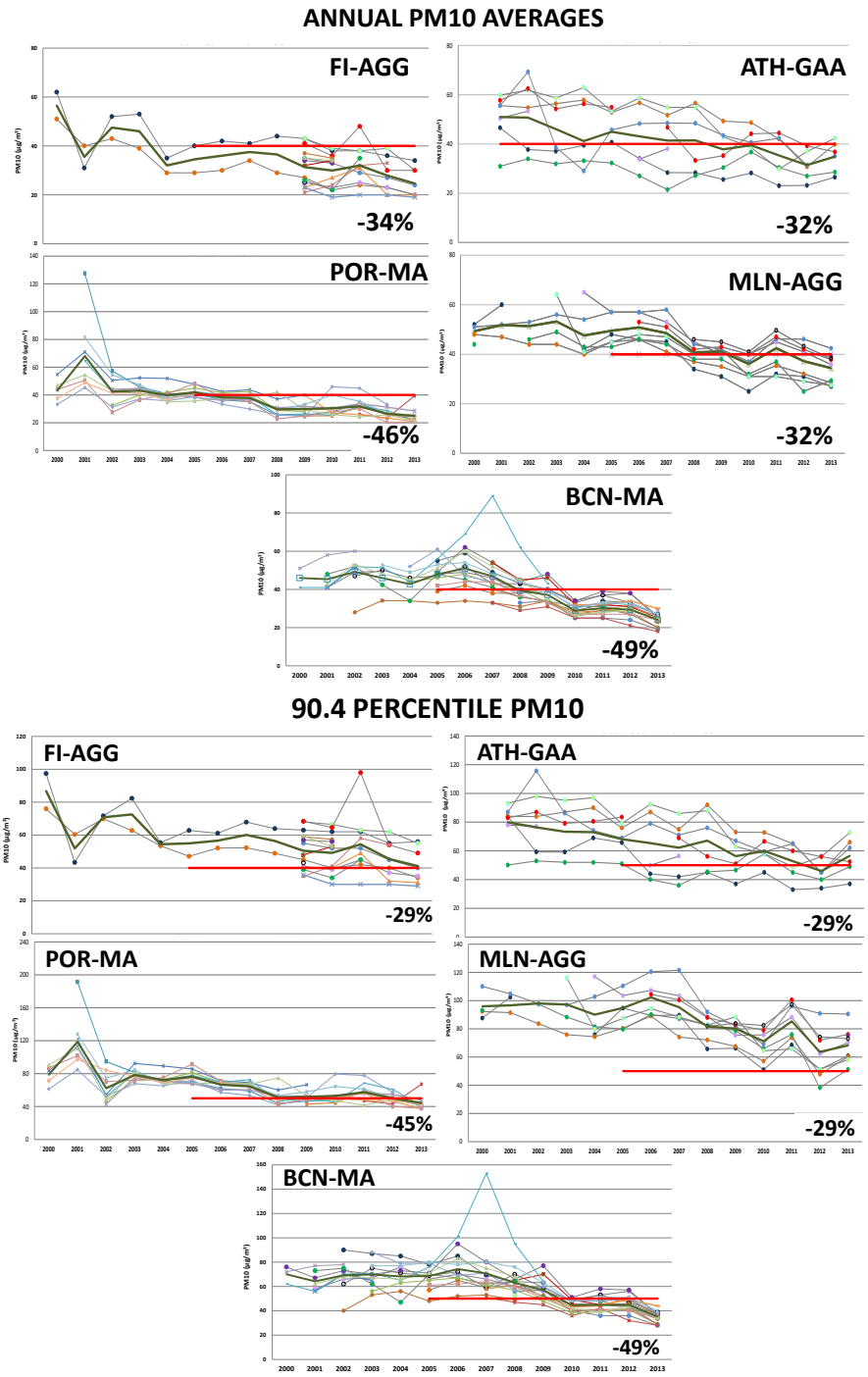

Figure 1. 2000-2013 trends for annual means and percentile 90.4 value of PM10 in the different air quality monitoring sites of the 5 metropolitan areas studied in AIRUSE.