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# The role of PIXE in the AIRUSE project "Testing and Development of air quality mitigation measures in Southern Europe"

## Content :

The European Life+ AIRUSE project aims at testing existing and future mitigation measures and developing new strategies for the improvement of air quality in Southern European countries. The project involves public and private institutions of Spain, UK, Portugal, Italy and Greece. PM10 and PM2.5 daily samplings have been scheduled for one year (from January 2013) in four urban sites, Barcelona (Spain), Porto (Portugal), Athens (Greece), and Florence (Italy). The project includes also samplings with hourly resolution for limited periods. The time-extensive daily data set gives an overall representative picture of the PM composition in these urban sites, while hourly samples may help in disentangling the contributions from different aerosol sources and give better source profiles due to the capability of tracking rapid changes as the ones occurring in many particulate emissions as well as in atmospheric transport and dilution processes. The role of PIXE measurements will be shown.

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