

**Maria Soler**

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## 2nd Project Newsletter

PHOTOCITYTEX project began on 1st of July, 2014 to find demonstrate solutions and validate the use of textiles with photocatalytic activity in terms of decontamination of urban atmospheres. (LIFE13 ENV/ES/000603) The project is coordinated by CEAM - Centro de Estudios Ambientales del Mediterráneo (Spain) and the project partners are AITEX (Spain), Ayuntamiento de Quart de Poblet (Spain), Next Technology Tecnotessile (Italy) and Legambiente Emilia Romagna (Italy).

### OBJECTIVES

The principal aim of the project is to demonstrate the environmental possibilities of textiles with photocatalytic activity in terms of decontamination of urban atmospheres.

In order to consider the depollution of air in urban environments, this initiative takes advantage of the technical opportunities offered by:

- The textile architecture industry
- The current advances in technology of photocatalysis

The effectiveness of the photocatalytic textiles regarding the depollution will be study under laboratory conditions (EUPHORE simulation chamber) and under real conditions by installing some of the textiles prototypes developed (awnings and wall coverings) in different urban locations at Quart de Poblet City (Valencia, Spain) and conducting field measurements before and during the prototypes installation



EUPHORE simulation chamber

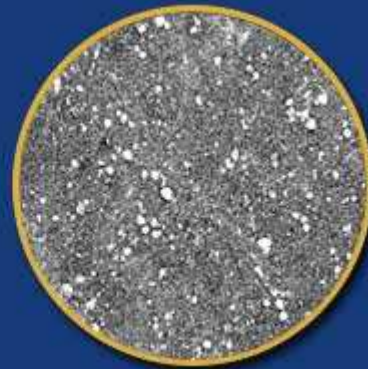


Real conditions –urban location



## During the first 19 months of the project the actions developed have been:

1. The study of the current situation of photocatalytic materials application in polluted air treatment.
2. Environmental measurements of contaminants in selected urban locations before the installation of the photocatalytic textile prototypes.
3. Manufacture and characterization of photocatalytic textile prototypes at lab scale.
4. Manufacture of photocatalytic textiles prototypes at semi-industrial scale.



Microscopy view of photocatalytic PVC | Microscopy view of photocatalytic textil

## For further information:

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<http://www.ceam.es/PHOTOCITYTEX/home.htm>



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