



Innovative anti-graffiti product for application in the Cultural Heritage of Europe

EFFACEUR

ECTP Conference 2011

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PROBLEM TO BE SOLVED

- Many Cultural Heritage objects are attacked by graffiti
- Graffiti cleaning costs Europe nearly
 90M€/year
- Anti-graffiti protection: none of the coatings currently available on the market presents the necessary characteristics for Cultural Heritage materials



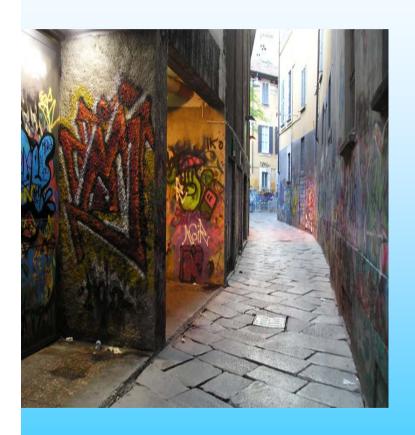








PROBLEM TO BE SOLVED



- Need to develop urgently efficient antigraffiti products for their application in Cultural Heritage
- However, SMEs often lack of the necessary
 R&D infrastructures
- Besides, the financial risk is high
- European SMEs urgently need innovative technology to produce an anti-graffiti product which fulfils the requirements of the Cultural Heritage market









EFFACEUR OBJECTIVES



- To develop a novel industrial anti-graffiti formulation and its associated production process
- To develop the most adequate application method
- To develop a specific graffiti cleaning procedure for this anti-graffiti product
- To validate the behaviour and suitability of the new product in 5 case studies





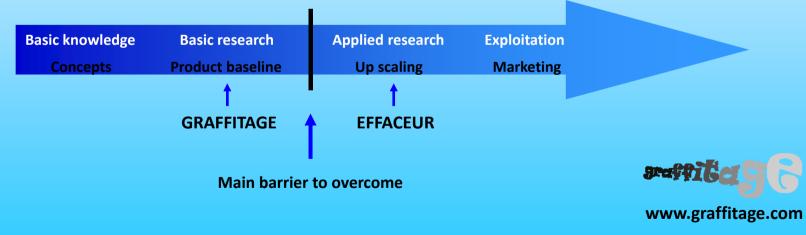






GRAFFITAGE & EFFACEUR

- GRAFFITAGE EU project: development of a new anti-graffiti formulation for Cultural Heritage (anti-graffiti prototype)
- The project attracted much attention of many SMEs worldwide













OPPORTUNITY FOR SMEs

• In EFFACEUR SMEs will outsource research activities to RTD institutes

•EFFACEUR is a clear opportunity for SMEs involved in the field to increase their competitiveness and benefit in Europe by designing, distributing, marketing and applying new anti-graffiti coatings for Cultural Heritage application









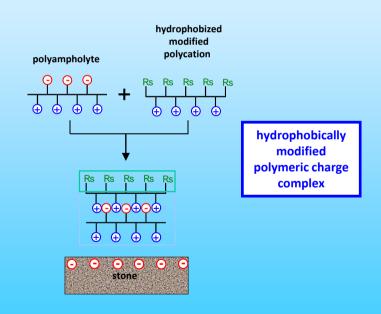






EFFACEUR INNOVATIVE SOLUTION

 Aqueous formulation containing 2 polymeric components which form a pH-sensitive complex when applied onto a porous substrate







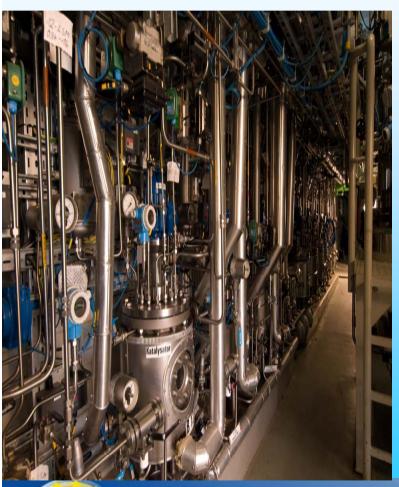








EFFACEUR INNOVATIVE SOLUTION



- Properties of the new anti-graffiti formulation:
- **Hydrophobicity**
- Good adhesion to substrates of different porosity
- Low colour and gloss variations after application
- Improved water vapour permeability and drying behaviour in comparison to current commercial products
- Resistance to natural weathering
- Reversible but resistant to cleaning agents
- **Good cleaning efficiency**
- **Environmentally friendly (based on an aqueous** emulsion)







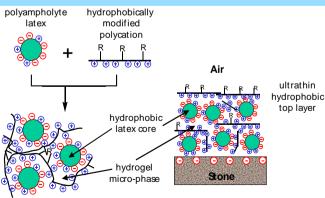




IMPACTS OF EFFACEUR

- The successful market transfer of the anti-graffiti product will stimulate and enhance the whole Cultural Heritage sector
- Research results will enter the Cultural Heritage market
- This will motivate other SMEs to use previous research results to develop a marketable product















IMPACTS OF EFFACEUR

- EFFACEUR will contribute to the requests from the European Parliament that money for research needs to be converted into money generated by markets
- Important for the European Commission to increase visibility for successful Cultural Heritage research and to reach Lisbon goal of a knowledge-based society
- Help to stay Europe Nº 1 in Cultural Heritage research by offering high-tech products and services to the rest of the world











CONSORTIUM

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PROJECT DETAILS

Project acronym: EFFACEUR

Contract number: 262486

Duration: 24 months (1/1/2011 – 31/12/2012)

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Thank you very much for your attention.





