



Waste synergy IN the production of innovative CERAmic tiles

WINCER

Waste synergy in the production of INnovative CERAmic tiles

Contract number:
ECO/13/630426



Co-funded by the Eco-innovation Initiative of the European Union

EXPECTED AND/OR ACHIEVED RESULTS

- Recycling of waste and saving of natural resources, reduction of energy consumption, reduction of GHG emissions.
- Innovative structural ceramics produced with 70 wt% of recycled materials in ceramic tiles, and obtained with similar or improved mechanical properties respect to state of the art products.
- Contribution to the improvement of the European ceramic industry through the acquisition of the world leadership in waste-based ceramic materials, the widening of the ceramic products spectrum by including more sustainable ones in substitution to other materials, and the reduction of energy consumption of the milling and firing processes.

OBJECTIVES

The project aims to develop innovative ceramic tiles containing 70 wt% of recycled materials from urban and industrial wastes. The specific objectives are related to:

- contribution to sustainable waste management by recovery of the amount of soda lime glass (SLG) cullet waste that today is not re-introduced in glassware (about 30% of the total glass waste);
- reduction of the use of natural resources thanks to: the use of SLG, coming from urban collection; the reuse of green scrap tiles, generated during the industrial process;
- improvement of the environmental performances of the ceramic tiles sector by reducing CO2 emissions, energy consumption and methane use.

WASTE SYNERGY IN
THE PRODUCTION OF
INNOVATIVE CERAMIC
TILES



1

European State



3

Partners



3

Year - Duration



2015

Start Project



1489312

Total Cost



744656

Eu contribution

"The combination of these different wastes enables the production of innovative ceramic tiles with similar or improved mechanical properties respect to the traditional ones."



MARAZZI GROUP