

PRELIMINARY REPLICABILITY AND TRANSFERABILITY PLAN

(to Ceramic Sector)

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Responsibility: Gresmalt - Coordinating Beneficiary

1.INTRODUCTION

The aim of this document is to have a plan for replicability and technology transfer of the project results to other companies in the ceramic sector, both in Italy and in Spain, where the two main clusters of the European ceramic industry are located.

2.PROJECT OVERVIEW

The project aims to integrate environmental (Life Cycle Assessment), economic (Life Cycle Costing) and social (Social Life Cycle Assessment) impact assessment tools in order to determine sustainability parameters in an innovative and comprehensive way. Thanks to this integration it will be possible to have at one's disposal an eco-design model able to analyze and predict sustainability indices defining alternative design scenarios. On the production side, the model will be able to monitor the environmental, social and economic performance of the product, as well as prescribe corrective actions on the ceramic production process in the in case of deviations from the planned sustainability targets.

3.REPLICABILITY STRATEGY

On the basis of the list of the main stakeholders listed in annex "*B6.Annex1*", those directly related to the ceramic sector will be selected, and after their prioritization, the involvement strategies described below will be implemented.

3.1 Association of Manufacturing and Service Companies

Confindustria Ceramica (Association of Italian Ceramics Manufacturers) and ACIMAC (Association of Italian Manufacturers of Machinery and Equipment for the Ceramic Industry) represent the two main industrial associations of the ceramic sector in Italy. With both we intend to create a bilateral-institutional table, in the framework of which and with regular periodicity, we will update the people responsible for the two associations, on the progress of the project and the results achieved.

Objective: to institutionalize the bilateral-institutional tables by 30/10/2018.

3.2 Others Ceramic Tile Manufacturers

Through the institutional intermediation of the industrial associations we intend to propose to the other Italian tile manufacturers to carry out feasibility studies to implement the impact assessment model developed in the project, in their manufacturing processes.

Objective 1: selection of ceramic companies and verification of the possibilities of collaboration by 31/01/2019.

Objective 2: finalization of feasibility studies by 30/01/2019.

3.3 Research Community

Similarly to what has been done with the associations of ceramic industries, the creation of a discussion table with the Ceramic Centre and the Società Ceramica Italiana (ICerS) to get in touch respectively with the network of ceramic technology laboratories at European level and the other European ceramic societies. This will take concrete form with the participation in the ICerS conference on Circular Economy that will be held in Rimini (Italy) on 26 September 2018 as part of the International Fair “*Tecnargilla*” and at the XVIth conference of the European Ceramic Society (ECerS), which will be held in Turin (Italy) from 16 to 20 July 2019.

Objective: to institutionalize the bilateral tables by 31/12/2018.

3.4 Regulatory Authorities

We plan to involve ARPAE (Regional Agency for Prevention, Environment and Energy of Emilia-Romagna) both in the development phase of the environmental and socio-economic impact assessment model and in the monitoring phase of industrial impacts. The aim is to present the project outputs to the sector, through ARPAE, as a good practice for the sustainable management of the ceramic process and for the definition of a benchmark of environmental targets.

Objective: to engage ARPA by 30/06/2019.

3.5 Suppliers

In order to facilitate the adoption of the simplified model for the impact assessment, by other ceramic companies, it will be validated by an external Certification Authority to make it suitable also for the preparation of the Environmental Product Declaration (EPD).

Objective: to validate the model by 31/12/2019.