Project website

WP11. Communication and Dissemination

DELIVERABLE

11.2

VULKANO
Novel integrated refurbishment solution as a key path towards creating eco-efficient and competitive furnaces

From July 2016 to December 2019

Grant agreement 649770

Date: 31/10/2016
Prepared by: CIRCE

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723803

VULKANO
LEADING THE CHANGE TOWARDS ECO-EFFICIENT FURNACES

DELIVERABLE FACTSHEET

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Task:	11.2 Creation of dissemination material
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	RE = Restricted to a group specified by the consortium (including the EC)
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Approvals

	Company
Author/s	CIRCE
Reviewers	CIRCE

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INTRODUCTION

This document describes the Project website prepared under the Project VULKANO EC-GA contract no 723803.

The deliverable 11.2 is under the following tasks within the DoA of the VULKANO project:

Task 11.2 Creation of dissemination material

The intended audience of this report is each individual participant of the project consortium and the associated partners, as well as any potential stakeholder or individual interested in the activities and outputs of the project VULKANO.

1 SUMMARY

VULKANO public website has been implemented in month 4 of the project, and will be maintained over the lifetime of the project.

The internet portal works as communication platform to assist the coordination of the project and its activities.

An individual domain has been acquired to host the website. The link to this VULKANO website is:

http://www.vulkano-h2020.eu/

Within the design phase of the website, perspectives from both specialized and non-specialized visitors have been considered in order to develop the interface.

The website will be the main communication tool for the project, where all the dissemination materials will be published in a timely manner. The website is an interactive environment that will give access to all the publishable development of VULKANO. It will give a very direct link to the main results and to the hottest project news.

Besides, this website gives a link to the objectives, partnership, activities and events related with the project, and it is planned to give access to all the aspects regarding the new technologies, best practices and recommendations for energy efficiency gathered from the project development. Moreover, direct link to the project intranet is available from the homepage. Contributions from the partners will be highly important to maintain the project's website updated, in order to improve the website positioning in search engines and to reflect an active attitude to Internet users. In addition, partners are asked to link their website and platforms to the website of VULKANO project. In this sense, a SEO positioning analysis will be performed to ensure higher visibility in web search engines.

The following points describe the different sections and functionalities of the website, supported by screenshots to better understand its use.

2 HOME

The "home" area of the website is composed of different sections:

Top bar and upper area: structure of the website including a pull-down menu. The tabs and sub-tabs included may be modified over the project lifetime according to the needs of VULKANO. Besides direct link to the project intranet, contact and related links representatives are included.

As a very first impact, visitors see three dynamic slides giving key messages of the project.

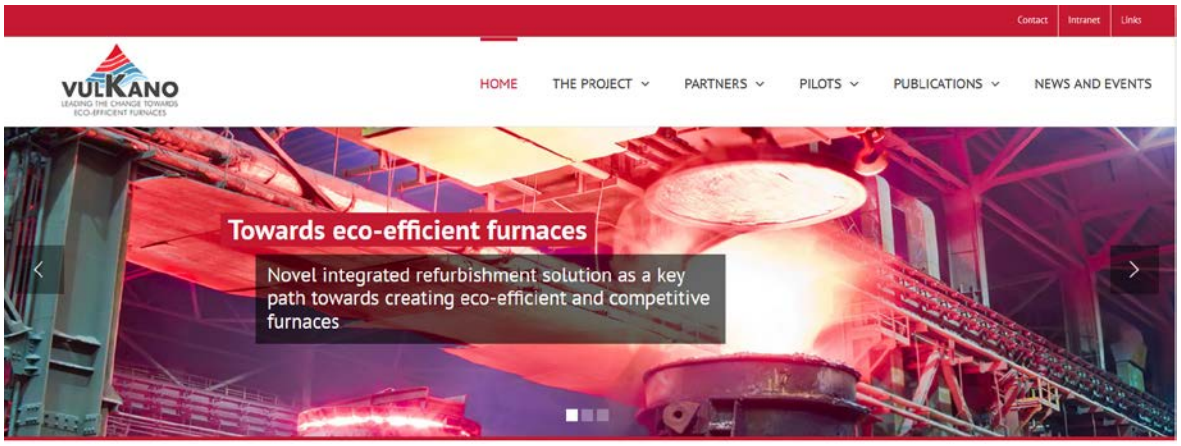

Figure 1. Screenshot: VULKANO homepage (upper area)

Central area: there are two main sections at the moment: pilots 'description and technology solutions to be implemented in the project. These are considered as key topics for the visitors.

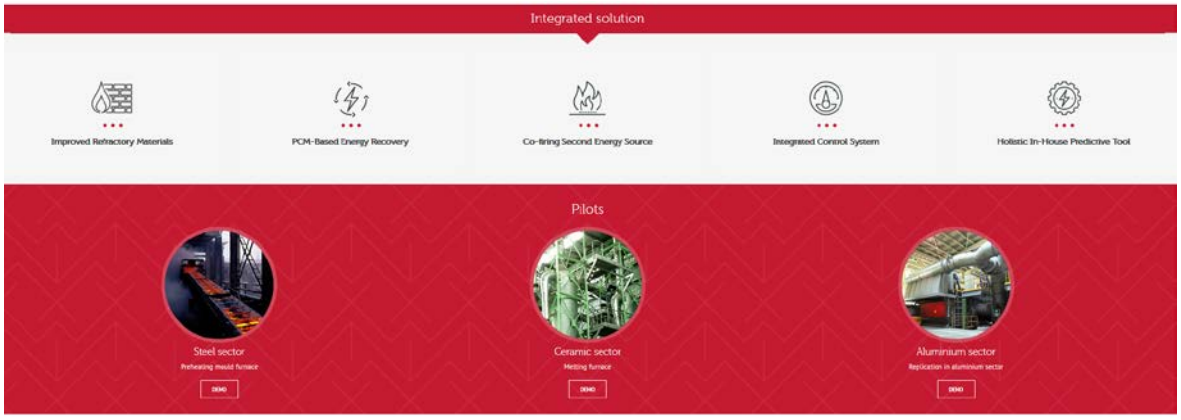

Figure 2. Screenshot: VULKANO homepage (central area)

Bottom area: the hottest news will be posted in this area, together with the logo of the partners of the consortium.

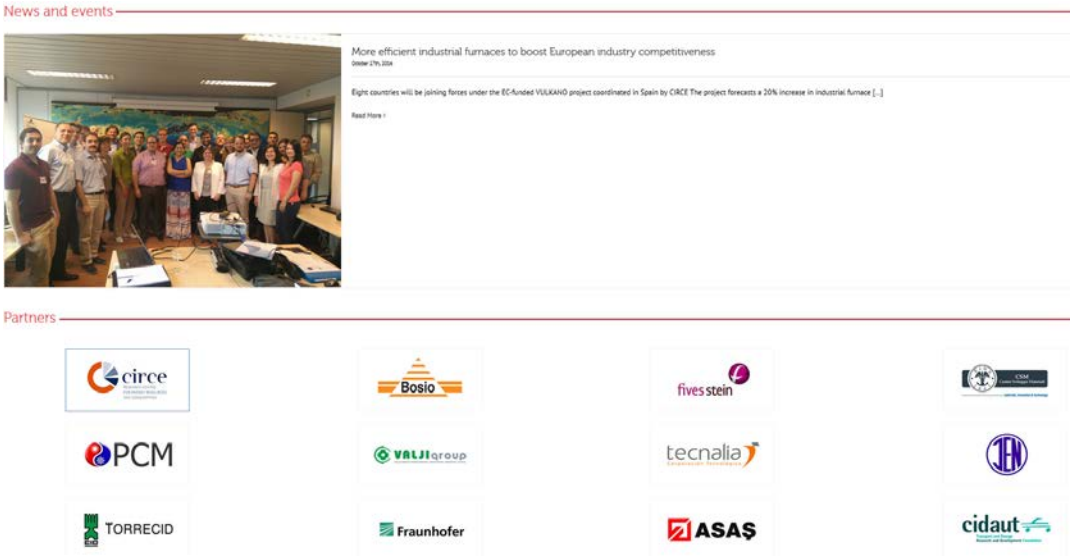

Figure 3. Screenshot: VULKANO homepage (bottom area)

3 SECTIONS

3.1 The project

This sections is broken down in three tabs: motivation, objectives and integrated solution.

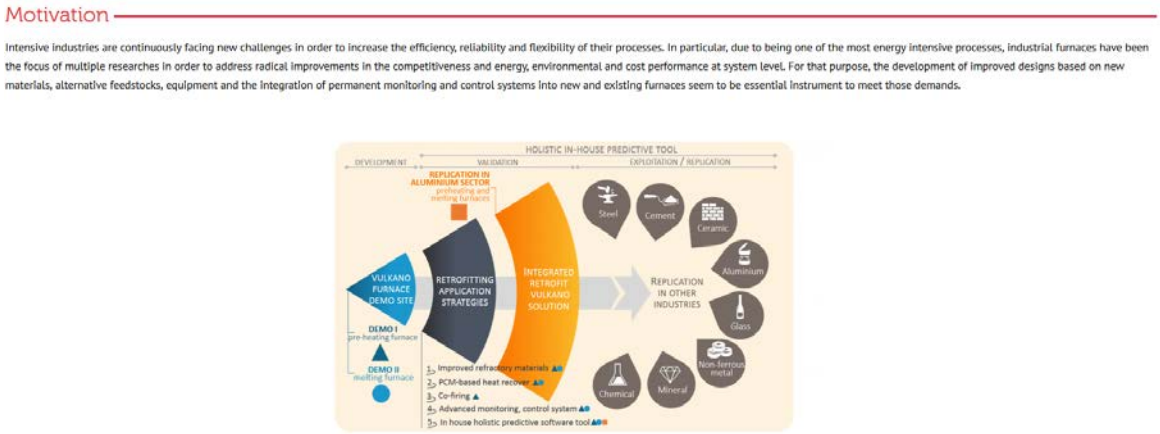

Figure 4. Screenshot: motivation tab

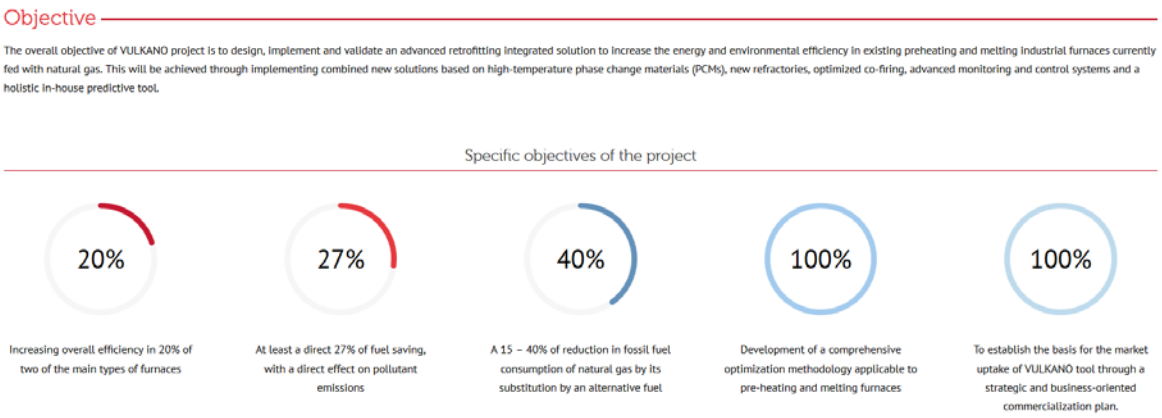

Figure 5. Screenshot: objectives tab

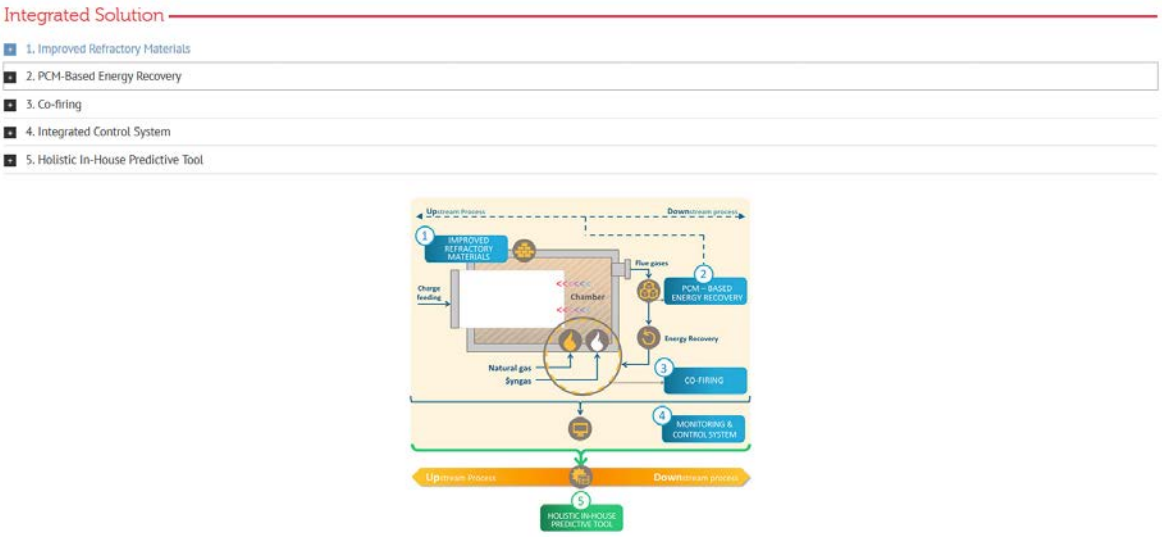

Figure 6. Screenshot: integrated solution tab

3.2 Project partners

Information from all entities can be consulted either by country. In addition, a map with all entities and their locations has been included.

Figure 7. Screenshot: consortium tab, map.

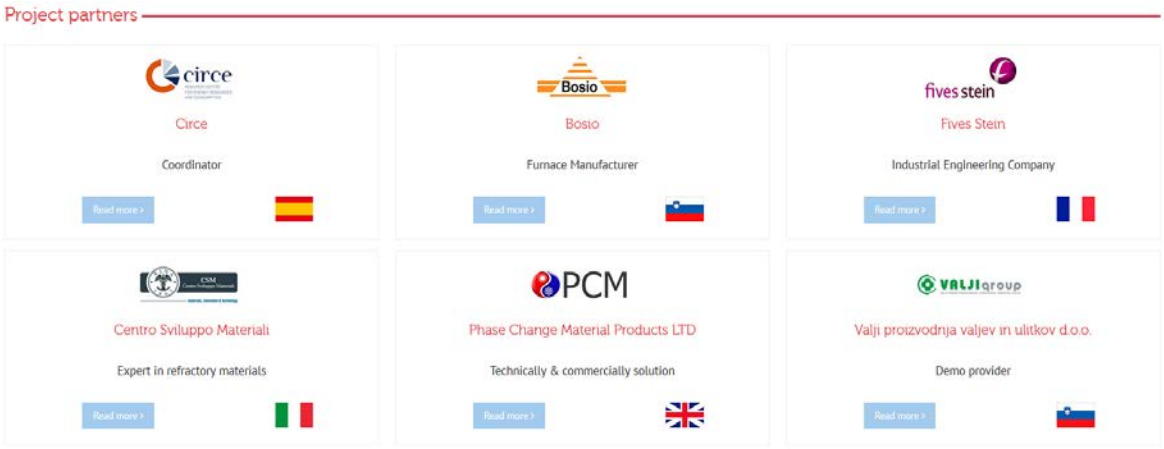

Figure 8. Screenshot: project partners tab.

3.3 Pilots

A description of the three pilots corresponding to the three sectors involved in the project is included. The retrofitting solutions to be applied in each case is described.

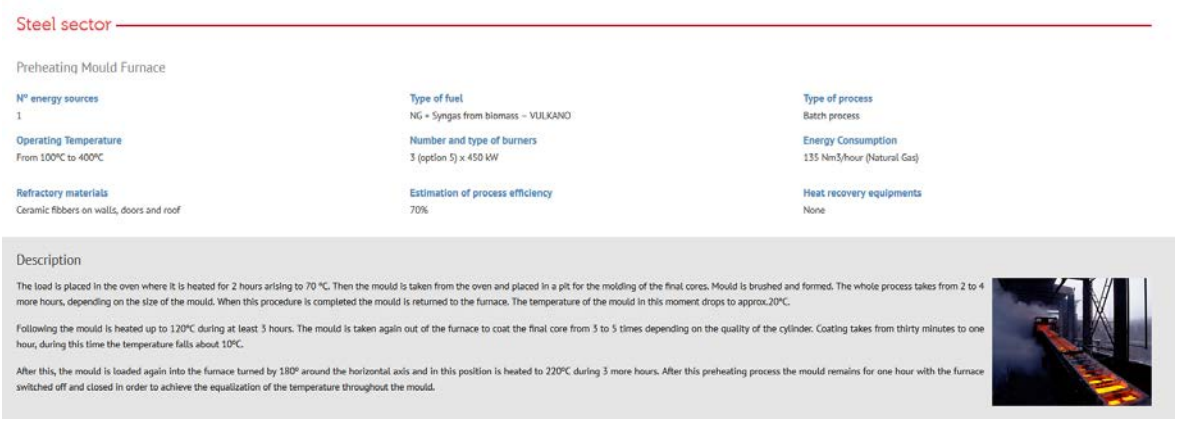

Figure 9. Screenshot: steel sector.

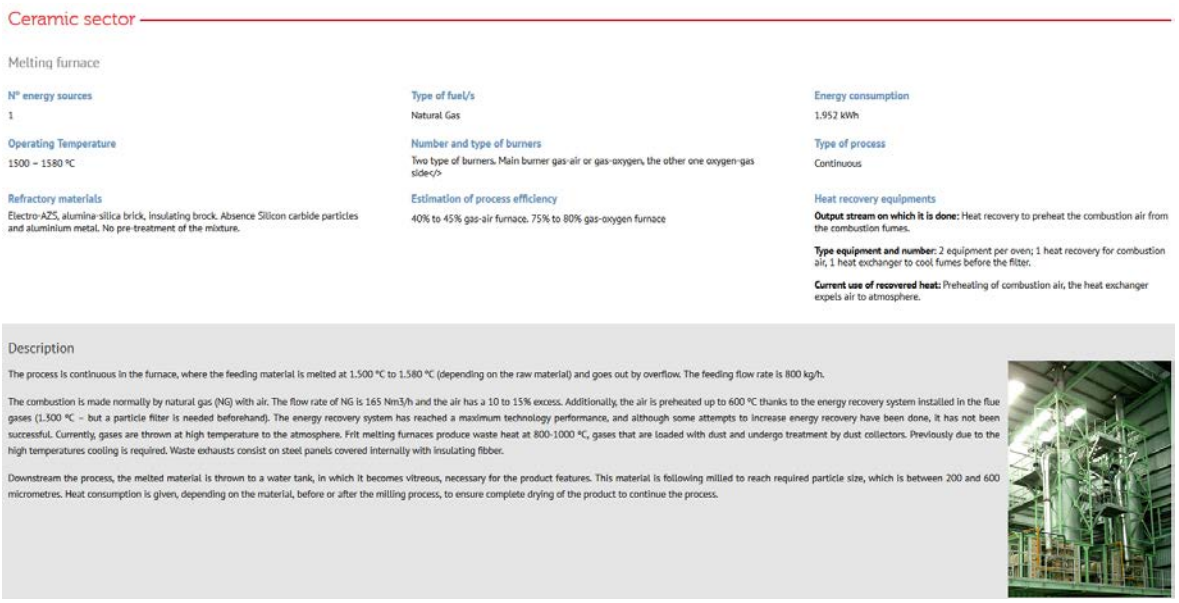

Figure 10. Screenshot: ceramic sector.

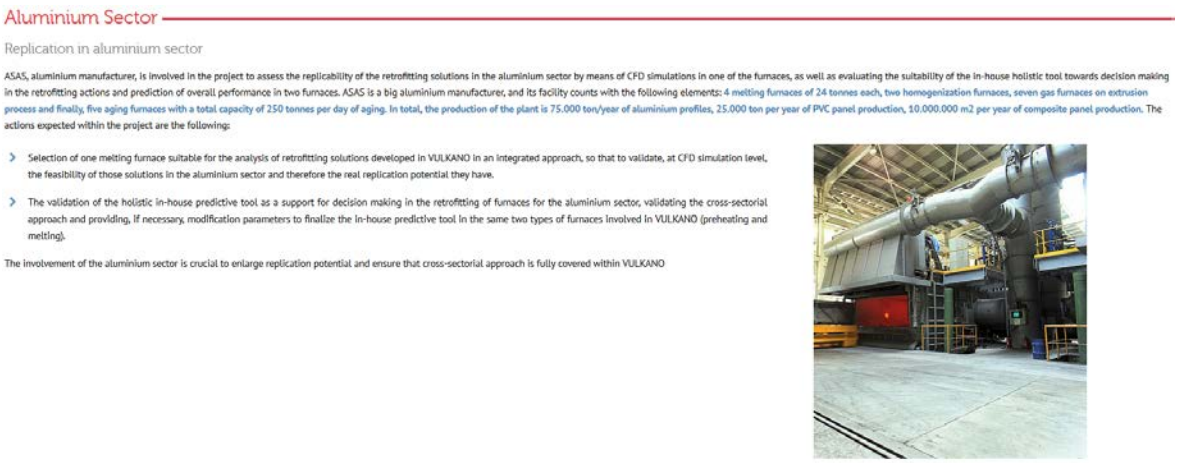

Figure 11. Screenshot: aluminum sector.

3.4 Publications

Within this section different public documentation will be posted, keeping the website updated with the results obtained. In particular, the following materials are considered to be uploaded in this section:

- Dissemination material
- Project public deliverables
- Publications

3.5 News and events

Any new related to VULKANO project will be posted in this section, either prepared internally by the consortium or any external news linked to the project topic.

More efficient industrial furnaces to boost European industry competitiveness

Eight countries will be joining forces under the EC-funded VULKANO project coordinated in Spain by CIRCE

The project forecasts a 20% increase in industrial furnace efficiency in the steel, ceramics and aluminium sectors, as well as a 27% reduction in the use of fossil fuels

Energy intensive industries are constantly facing challenges to enhance their process efficiency, reliability and flexibility. This is especially true for processes that involve industrial furnaces due to their high energy consumption rates, placing them under the spotlight of much research to make the whole system more sustainable and competitive.

The VULKANO project emerged with this objective in mind, with the aim of designing, implementing and validating innovative solutions, and applying them jointly so as to **boost and increase the efficiency**, both in terms of energy and the environment, of industrial furnaces supplied by natural gas and of their related processes. The initiative has been allocated close to 7 million euros by the European Commission and is coordinated by the Centre of Research for Energy Resources and Consumption (CIRCE). During VULKANO's planned three-and-a-half-year duration, CIRCE will be heading up a consortium of 12 partners from Slovenia, France, Italy, UK, Poland, Germany, Turkey and Spain with a view to bolstering Europe's industry.

The VULKANO project will focus on modernising the two most widespread kinds of industrial furnaces: those used during the pre-heating and fusion phases, which are used in two **energy-intensive sectors** (steel and ceramics). It will then analyse the feasibility of replicating them in another key sector: aluminium. VULKANO expects to achieve a 20% increase in the global efficiency of these furnaces, and at least 27% fuel savings, which would lead to a lower associated environmental impact.

The partners will be able to achieve these objectives by developing and integrating five innovative strategies. Firstly, they will develop technology based on **phase-change materials** in order to store and reuse the power obtained from the process both up-and downstream from the furnace, as well as **new refractors** with which to overcome the current limitations on these materials in terms of durability and to improve the furnace's specific energy efficiency. It is also estimated that up to **40% less natural gas** will be used and replaced with alternative or renewable energy sources. To do so, either a new burner will be designed or current furnaces will be adapted to run on syngas obtained from biomass or other gases recovered from the process itself. Secondly, they will develop a system to monitor and control the process in order to enhance overall efficiency by solving the problems that individual subsystems have in terms of integration.

Figure 12. Screenshot: first new posted on the website.

4 CONCLUSIONS

Due to the timing of the project, no conclusions have been obtained so far.