

**\* manifesto**  
 [noun] man-i-fes-to  
 a written statement that describes the policies, goals, and opinions of a person or group.  
 Meaning: we believe in what we do!

30%

**ENERGY SAVINGS**

The eFurnace targets a 30% reduction in energy consumption, thanks to smart control algorithms, efficient regenerative burners and improved design.

20%

**KETTLE LIFE EXTENSION**

Thanks to improved heat flux distribution, eFurnace will allow to exploit kettle life longer than in traditional settings, monitoring its status with advanced on-board thickness sensors.

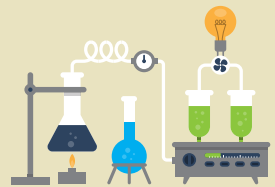
25%

**QUALITY IMPROVEMENT**

Energy efficiency is deeply connected to a finer control over internal bath dynamics, allowing to reduce metallurgical phenomena that would decrease product quality.

4

4 Pre-existing patents are built into the technological base of the eFurnace concept.



**THE ZINCO LAB**

The Zinco Lab has been inaugurated thanks to the eFurnace project and is now an advanced center for research and testing of high temperature, thin film ultrasonic sensors.

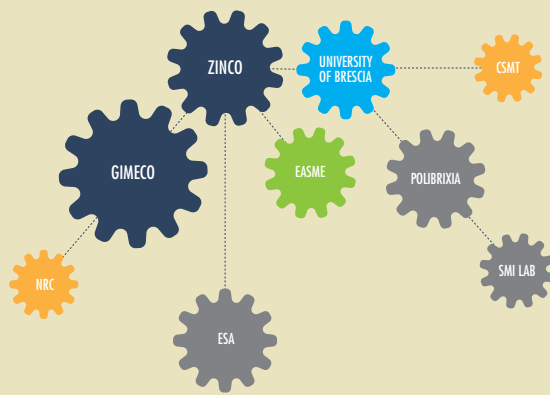


the **eFURNACE**  
 — manifesto\* —

- 1 EVERY GALVANIZER HAS THE RIGHT TO A **SUSTAINABLE, EFFICIENT AND HIGH QUALITY EFURNACE.**
- 2 EVERY STAKEHOLDER HAS THE RIGHT TO **PROTECT STEEL WITH THE BEST AND MOST DURABLE PROCESS, PRESERVING NATURAL RESOURCES FOR FUTURE GENERATIONS.**
- 3 THE WORLD NEEDS **CLEANER AND SMARTER TECHNOLOGIES FOR CLEANER, SMARTER COMPANIES.**

**Our Keywords**

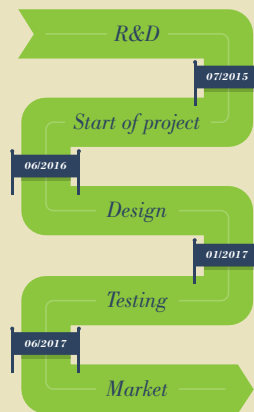
INNOVATION SAFETY  
 DURABLE SMARTER GALVANIZING R&D  
 SUSTAINABILITY SENSORS  
 TECHNOLOGY ENGINEERING CLEAN  
 ENERGY ZINC INTELLIGENT MOBILE



**NETWORK OF PARTNERS**

There is no successful project of this magnitude without an efficient network of partners rotating around the main goals of the Beneficiaries. We are very lucky in having found a great eco-system of innovative companions in this adventure.

- BENEFICIARIES
- UNIVERSITIES
- PUBLIC INSTITUTIONS
- INCUBATORS AND R&D INSTITUTIONS
- SUBCONTRACTORS



**5 STEPS TO GO**

Over the course of three years, the eFurnace project will go through the typical phases of product development, from proof of concept to market.

**WHAT IS THE EFURNACE?**

eFurnace is a new generation of hot dip galvanizing furnace, designed to collect all the best of the existing knowledge, as well as a wealth of new R&D for the galvanizing sector. Save energy, improve kettle life, and get better product quality: these are eFurnace's goals.

**TOTAL BUDGET**

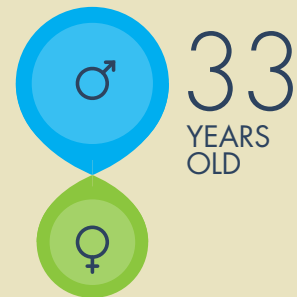


eFurnace has been approved by the EASME to receive a 1,2 MLN Euros grant as a part of Phase II of the Horizon 2020 Program.



eFurnace has been ranked among the first 10 projects within the EU and is one of the only 35 approved so far in Italy.

**PEOPLE INVOLVED**



People involved in the project for Gimeco and Zinco are 40% women and 60% men. With an average age of 33 years old.

- ENGLISH
- FRENCH
- ITALIAN
- GERMAN
- SPANISH

Languages spoken within the project team.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 672910



**eFURNACE**  
 sustainable galvanizing