# **PROJECT OBJECTIVES**

The RAPID DRY project aims to **optimise the DRYING PROCESS OF CERAMIC CAST PIECES** thanks to



The project technology:

- ENSURES A HOMOGENEOUS DRYING PROCESS thanks to the innovative PLC (Programmable Logic Controller) software
- REDUCES THE DURATION of the drying
  cycle
- PROVIDES A HIGHER RESISTANCE TO BREAKAGE of the ceramic pieces during the drying cycle

LIFE RAPID DRY project



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31 MONTHS

2020/06/01 START

2022/12/31

LIFE19 CCM/IT/001243

IFE PROJECT

# PARTNERS

www.setecsrl.it



www.lcengineering.eu





WITH THE CONTRIBUTION OF THE LIFE FINANCIAL INSTRUMENT OF THE EUROPEAN UNION LIFE19 CCM/IT/001243

RAPID DRYING OF CERAMICS

REDUCING ENERGY CONSUMPTION AND CO, EMISSIONS WHILE PRESERVING PRODUCT QUALITY

# www.rapid-dry.eu

## **FINAL RESULTS**

### INDUSTRIAL OUTCOMES



#### DRYING CYCLE WITH NEW RAPID DRY DRYER







GAS CONSUMPTION



-86% ELECTRICITY CONSUMPTION

### ENVIRONMENTAL OUTCOMES

Compared to a traditional dryer, the new RAPID DRY DRYER and slips have significantly reduce GREENHOUSE GAS EMISSIONS



-68% in the life cycle of A RAPID DRY **DRYER** [30 years]



per 1 kg of RAPID DRY VITREOUS CHINA



-4% per 1 kg of RAPID DRY



#### SOCIAL OUTCOMES



### ECONOMIC OUTCOMES

#### -25%



costs over the life cycle of a dryer using RAPID DRY VITREDUS CHINA BODIES

### -31%



costs over the life cycle of a dryer using RAPID DRY **FIRE CLAY BODIES** 

#### -than 1 year



the time needed to repay the higher investment due to the purchase of the NEW RAPID DRY DRYER