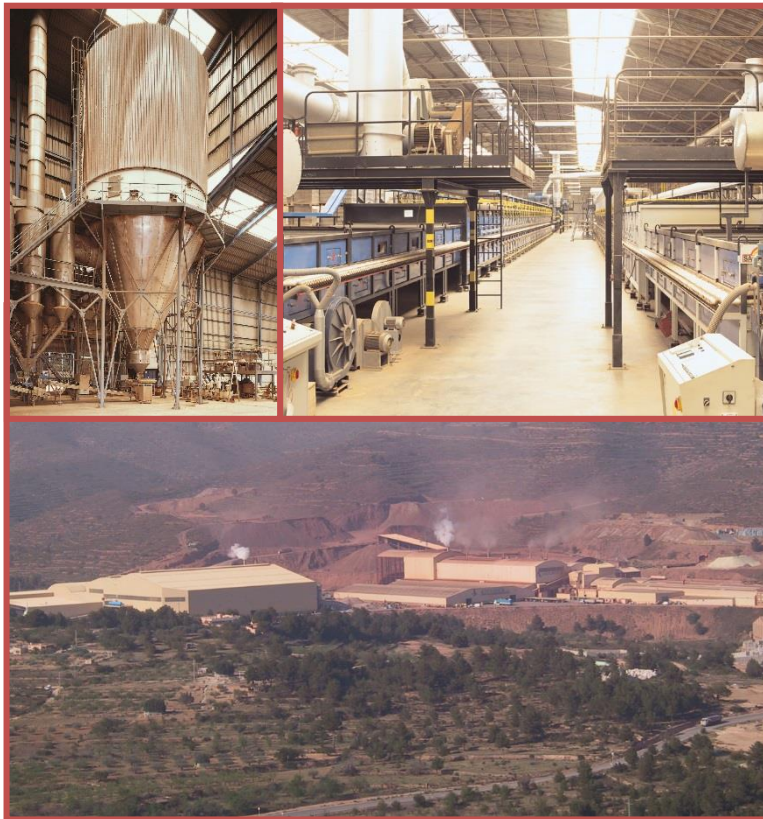


# Case-studies in the Ceramic Industry

SPIRE-PPP

SPIRE-02-2018, SPIRE-03-2018

SPIRE-04-2019, SPIRE-05-2019, SPIRE-06-2019



Thematic brokerage workshops  
EU Brokerage Event on Kets in Horizon 2020  
Strasbourg, 17th October 2017

The Technological Institute for Ceramic (ITC) is a research centre created by agreement between the Ceramic Industry Research Association (AICE) and University Jaume I (UJI) of Castellón (Spain).



ITC-AICE capabilities and research interests include notably:

- ❖ Smart manufacturing and process control
- ❖ Resource Efficiency, waste recovery and waste management
- ❖ Energy Efficiency and heat recovery
- ❖ Environmental technologies (water treatment, air quality, Life Cycle Assessment)

ITC-AICE currently participates in the following H2020 projects:



Reduction of energy and resource consumption in the ceramic industry.  
Integration of alternative energy sources and raw materials.  
Development of automated process control.

Some fact about ceramic tiles environmental impact:

- ❖ Generation of 10-20 kg waste/ton of tile
- ❖ Use of 100-300 L water/ton of tile
- ❖ Average energy consumption: 7–8 MJ/kg of tile (mainly form natural gas)

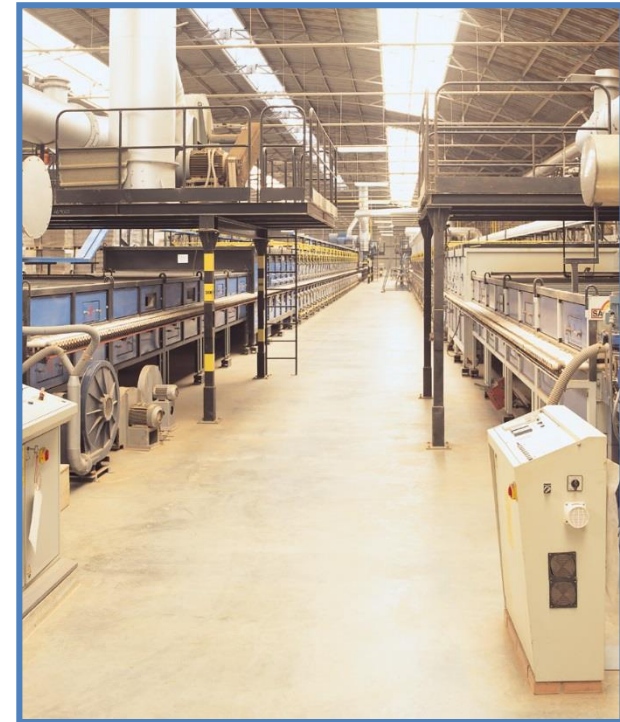


## Ceramic case-study:

- Adaptation and integration of the proposed solutions to the ceramic industry.
  - Demonstration in a real industrial environment.
- Development of a flexible ceramic tile process with higher efficiency and lower environmental impact.

## Consortium (if any)

- ❖ Looking for Partners/consortia for:
  - ✓ SPIRE-02-2018, SPIRE-03-2018
  - ✓ SPIRE-04-2019, SPIRE-05-2019, SPIRE-06-2019
  
- ❖ Other partners we can bring to a consortium:
  - ✓ Ceramic end-users / industrial demo-site  
tile manufacturers, spray-dried powder providers,  
frits and pigments manufacturers...)
  - ✓ SMEs in different fields  
engineering companies, ICT companies, IPR management experts...
  - ✓ RTOs



# Contact details

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