

Project title:

PROCIência 2020

Project code:

M1420-03-08B9-FEDER-000047

Main purpose:

Design of the Industrial Kitchens of the Future: Innovation with Internet of Things and Active Smart Technologies

Intervention region:

Madeira Islands

Beneficiary:

EFEN - HOTELARIA, S.A.

Approval date: 06-09-2018

Start date: 01-10-2018

End date: 30-09-2019

Total eligible cost: 431.860,73 EUR

FEDER: 262.868,33 EUR

Regional public contribution: 46.388,53 EUR

Goals:

Increasing the value in the regional, national and international market through innovation and differentiation, in terms of design, simulation tools and application of new ones;
Applying new materials to improve safety, hygiene and functionality in the kitchens;
Improving human interaction with kitchens;
Reducing energy and water consumption and kitchen operating costs.

Activities (expected/achieved results):

By analysing the practices, objects and space used, it was found that there is a potential for saving resources and increasing safety, which can be obtained by the design of objects and processes, relevant to the meal, which widens and complements the actions already implemented, constituting a design investigation that addresses several dimensions within an industrial kitchen. The result was the Future Industrial Kitchen (FIK) project that came to conceive the next generation kitchen for the gastronomy sector. The project had the partnership of MITI, Universidade da Madeira and Instituto Técnico de Lisboa. Energy efficiency, reduction of cleaning burden, food security through highly sterile engineering materials, reduction of human factor fatigue through optimization of the kitchen layout and real-time inventory management through IoT technology with placement of sensors were the results achieved at the FIK project. A virtual reality design laboratory was created to develop a FIK Virtual Twin, where the latest design software platforms and 3D immersive modelling tools were used.



Operational Program identification: "Madeira 14-20"

Aid system: "ADAPTAR-RAM"

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Priority axis 3: Strengthen the competitiveness of companies

Investment priority 3.c: Support for the creation and expansion of advanced product and service development capabilities

Specific goal 3.c.1: Develop actions aimed at improving the competitive capacity of regional companies in order to consolidate economic growth and add value to processes and to goods and services

Operation calendar: Start date: 18-03-2020 | End date: 31-12-2020

Total investment cost: €8.136,01

Eligible investment: €5.000,00

Not eligible investment: €3.136,01

Private expense: €1.000,00

Private expense participation rate: 20%

Public expense (non-refundable incentive): 4.000,00 Euros (being 3.400,00 Euros - FEDER and 600,00 Euros - Regional Budget)

Public expense support rate: 80% (being 85% FEDER and 15% Regional Budget)