Fact Sheet

Project Information

LUMENTILE
Grant agreement ID: 644902
Project website

Funded under
H2020-EU.2.1.1.1.
Overall budget
€ 2 969 176,25
EU contribution
€ 2 470 113,75

Coordinated by
UNIVERSITA DEGLI STUDI DI PAVIA

Italy

Start date
1 March 2015
End date
30 April 2018

Objective

LUMENTILE originates from an idea of disruptive innovation, where the joint use of new technologies creates added value and new functionalities for traditional materials, thus turning the classical ceramic tile into a “multifunctional electronic luminous tile” realized by large area and organic electronics. LUMENTILE can be also considered as design-driven innovation, where we give a different meaning to the use of light driven by the design, by empowering it to be used as a radical different designed element for architecture, as a skin integrated element for interior design, lighting or advertising purposes.

The demand for aesthetically integrated and creative construction elements is steadily increasing in many areas of business and industries. A growing number of designers, architects and industrial manufacturers across the world share a common interest in having new elements capable to create surfaces or coverings as creative and multifunctional solutions.

LUMENTILE aims, on one side, to fill the gap between a simple construction element
and a luminous surface element, and goes far beyond, by developing a cutting-edge technologic module (the luminous electronic tile) that is capable of displaying lights, colors and images that can be used as a chameleonic display to be employed as a skin for horizontal (floor) or vertical (wall) applications. The final product will be an “on-the-fly” high energy efficient device that can be considered as a sustainable and competitive lighting element. On the other hand, the possibility of adding other sensors internally to the electronic tile enables it to increase the above mentioned properties (such as the detection of people walking onto it) and also to empower other creative or multifunction purposes.

This project will address the above-mentioned challenges by exploring and developing new materials and integrated systems, manufacturing processes and business scenarios in luminous designed tiles and architecture.

Field of science
/Engineering and technology/Materials engineering/Colors

Programme(s)

Topic(s)

Call for proposal

H2020-ICT-2014-1

Funding Scheme

RIA - Research and Innovation action

Coordinator

UNIVERSITA DEGLI STUDI DI PAVIA

Address
Strada Nuova 65
27100 Pavia
Italy

Activity type
Higher or Secondary Education Establishments

EU contribution
€ 466,895

Website

Contact the organisation

Participants (6)
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<th>Country</th>
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<tr>
<td>Teknologian tutkimuskeskus VTT Oy</td>
<td>Finland</td>
<td>€ 640 822,50</td>
<td>Vuorimiehentie 3 02150 Espoo</td>
<td>Research Organisations</td>
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<td>ECLEXYS SAGL</td>
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<td>€ 0</td>
<td>Via Dell Inglese 6 6826 Riva San Vitale</td>
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<td>JULIGHT SRL</td>
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<td>STUDIO ITINERANTE ARQUITECTURA SL</td>
<td>€ 322,291.25</td>
<td>Avenida Diagonal 523, 5-1 08029 Barcelona</td>
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<td>KNOWLEDGE INNOVATION MARKET S.L.</td>
<td>€ 220,400</td>
<td>Calle Venezuela 103 Planta 1 Puerta 08019 Barcelona</td>
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**Record number:** 194259

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