

## CRS4 has filed two international patents applications for industrial inventions

*Cagliari, July 28th 2020*

The Center for Advanced Studies, Research and Development in Sardinia - **CRS4**, located in the Science and Technology Park of Sardinia (Cagliari, Italy), has filed in the last few days **two international patent applications for industrial inventions** that belong to the ICT and the renewable energy sectors, respectively.

The first patent application, which is related to a **“system for detecting interactions with a surface”**, whose authors are Samuel Iacolina, Gavino Paddeu, Alessandro Soro, Massimo Deriu, Carlino Casari and Pietro Zanarini, can be used, for example, in tourism (exhibitions and fairs), infotainment (reception areas), commerce (interactive shops), teaching and communication in general. **Pietro Zanarini**, Director of the Information Society sector at CRS4, and **Samuel Iacolina**, responsible for the latest versions of this technology, highlight what follows: “It is a low-cost technology that can make any large surface interactive, thus allowing a group of people to use it at the same time and turn it into a sort of wide multi-user tablet, even tens meters long. The system detects the fingers’ touch, hand movements and objects near the surface; it displays images through a series of projectors or monitors, so that multiple users can listen to different sounds depending on the position in front of the wall”.

The second patent application concerns the invention of a **“method for optimizing tower-type solar power plants”**, whose author is Lorenzo Pisani. The objective is to develop and make available to the solar industry, software tools to improve the performance of tower systems and reduce the costs associated with their construction. “The proposed idea allows those who design these systems, but also those ones producing, installing and using them, to adapt the heliostat fields of solar tower systems to territories of complex shape and profile” - explains **Lorenzo Pisani**, expert in physical models and numerical simulation codes, in particular in the field of fuel cells and concentrated solar power systems technologies”.

“The two technologies developed and filed for patenting by CRS4” – said Prof. **Giacomo Cao**, recently appointed sole director of the Research Center – “represent a further and **clear evidence of our potential in different and relevant scientific-technological sectors** that can bring a significant feedback to the Sardinia Region both in terms of possible exploitation on the corresponding market sectors as well as national and international visibility in the industrial research which has always been the driving force for the development of every country”.

### CRS4 Media Contacts

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