

## ESR5

### **ESR5 project title- Cloud Platform for context-adaptive positioning and localization on wearable devices**

*Lead beneficiary (place of employment)* – Universitat Jaume I, Spain

*Supervisory team* - Prof. Joaquin Huerta and Dr. Joaquin Torres-Sospedra (Universitat Jaume I, Spain), Prof. Jari Nurmi (Tampere University, Finland) and industrial mentors: Dr. Stefan Beyer and Antonio Villalon-Huerta (S2 Grupo, Spain).

*Project tasks and objectives:* To identify and analyse the target GNSS-denied scenarios for localization using wearable devices.; to extract scenario features for its classification; to study the deep learning techniques for positioning context identification; to define the protocols for storing data, needed to positioning, to enhance positioning interoperability and for developing the indoor positioning systems in the cloud platform. The ESR will also have the possibility to participate in the Advisory Board of the network (two ESRs are selected annually by voting among the 15 ESRs of the network). The ESR will also be involved in social media promotion of the network, such as Webropol surveys, Facebook and LinkedIn groups, Youtube video channels, Twitter and blogging.

*Mobility/cross-country and cross-sector secondments including industrial training:* 6 cumulated months at Tampere University, Finland and 3 months of industrial experience at S2 Grupo, Spain

*Eligibility:* MSc degree in a relevant degree obtained after Sep 2015 and not having lived or worked more than 12 cumulative months in Spain during Aug 2016-Aug 2019.

*Preferred starting date-* September 2019

*Trial period* - 12 months

*Target degree* –joint PhD degree from Tampere University, Finland and Universitat Jaume I, Spain

*Approximate gross salary* – about 2800 EUR/month

#### *Working and living conditions in Spain*

**Spain** is the 10th country in the world with the highest quality of life and, above all, a mosaic of cultures what is reflected in the hundreds of its heritage sites. In fact, Spain is the third country in the world in UNESCO world heritage sites.

**Castellón** is a small city open to the Mediterranean Sea. Increasingly, Castellón attracts students from all over the world due to the international projection of the Universitat Jaume I (UJI). Read more about Spain and Castellón:

- <https://www.spain.info/en/>
- <http://www.turismodecastellon.com/es/>
- <https://www.castellonturismo.com/>

**Universitat Jaume I** is a higher public education institution devoted to innovation as a means to socially, culturally and economically develop its environment. It is a technology oriented University as is shown by the fact that UJI hosted the very first web portal in Spain and in Spanish language around the world. The Higher School of Technology and Experimental Sciences is a center noted for the quality of its research, its international impact in the industry and society of Castellón and surroundings areas. Read more: <http://www.uji.es>

*Information about the industrial partner* – S2 Grupo is a cybersecurity and critical information infrastructure protection (CIIP) company, established in 1999. S2 Grupo is a leading actor in the security sector at national level and has grown internationally during recent years. Currently S2 Grupo has offices in Spain, Mexico

and Colombia. For years, S2G has developed a close cooperation with customers spanning a wide range of sectors: energy, banking, finance and insurance, government, healthcare, distribution, manufacturing, utilities and critical infrastructure. The consistent high investment in R&D has made S2G a technological leader. Proof of this is the partnership with the National Cryptology Centre (assigned to the National Centre of Intelligence) for the development of the first National (Spanish) APT detection tool, and the leading role in several EU-funded projects. S2 Grupo is an advocate to society security and tries to make an impact through the CSR program too, developing activities with a special focus on the youngest at home. S2 Grupo also supports the United Nations Global Compact and has implemented work/family reconciliation and gender equality policies.