

## Expression of Interest



### Contact Person/Scientist in Charge

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### Universitat Politècnica de València (UPV)

#### Department / Institute / Centre

- **Name:** Food Technology Department - Universitat Politècnica de València
- **Address:** Campus de Vera; Camino de Vera, s/n; Valencia (46022)
- **Province:** Valencia

#### Research Area

- Economic Sciences (ECO)
- Environmental Sciences and Geology (ENV)

### Brief description of the institution:

Universitat Politècnica de València (UPV) is the single Spanish Technical University that features in the main University world rankings. It is within the top 5 Spanish Universities with the highest revenue from both public research and knowledge transfer activities, and a national leader in patent license income and start up creation. Constituted in 1971, it comprises nearly 30.000 students, over 2500 academics, and 17 university research centres of excellence.

UPV has a relevant experience in the participation in international research programmes, with over 100 FP7 projects and 40 H2020 projects in the period 2014-2015. UPV researchers are also actively involved all H2020 life program stages, from workprogramme drafting discussions, to project coordination. It is also taking part in several major partnering initiatives (JTIs, PPPs, KICs...).

### **Brief description of the Centre/Research Group (including URL if applicable):**

The research group ASPA is located in the Department of Food Technology at the Universitat Politècnica de València (UPV). The main objective of the group is the analysis and optimization of agrifood processes (energy, environment, economics, production...). One of the research lines of the ASPA group is “Minimization of the environmental impact of food processes and products”. The proposed research project is integrated in this research line.

Within this research line we have worked in Life Cycle Assessment (LCA), development of sustainability indicators, eco-efficiency and consequential LCA. The most significant results are:

- 9 research projects: 1 European, 4 national, 2 regional and 2 founded by UPV.
- 11 research papers in journals indexed in Journal Citation Reports.
- more than 40 contributions to international conferences.

### **Project description:**

#### Improvement of food consumption patterns in Spain: Towards a more sustainable agrifood chain

The production, distribution and consumption of food are activities with a great economic and social impact. It is necessary to emphasize that these activities are the responsible of an important part of the environmental impacts. For that reason, by acting on them it is possible to improve the sustainability of the agri-food chain. The aim of this research project is the evaluation, under a life cycle perspective, of the potential changes in the Spanish food consumption patterns. For that purpose, information about the average consumption of food per person and quarter from 2007 to 2016 will be collected. After that, the carbon footprint, water footprint and nutritional value of the average food consumption will be evaluated. From the results of these evaluations, alternative scenarios for a more sustainable food consumption (decrease of the consumption of processed food, increase of the consumption of vegetable protein...) will be proposed. These scenarios will be designed to decrease the carbon footprint and water footprint and to improve the nutritional value of the average Spanish. The proposed scenarios will be evaluated by means of Consequential Life Cycle Assessment. In this way, land use changes and their influence on carbon and water footprint, and also the influence of the proposed changes on the economical sustainability for both producers and consumers will be identified. These results can be very helpful to stablish policies addressed to the improvement of the sustainability of the agri-food chain.

### **Applications**

CV of the candidate

Motivation letter

One support letter

Deadline: 14th September 2016