

Science with and for Society - SwafS – Partner search

- I offer **my expertise to participate as a Partner in a project**
- I offer **my expertise as a Coordinator in a project**
→ **Please** complete all sections of the Form:

Call: Science with and for Society

Topic: Science education outside the classroom

Offer valid until:

1 Project Information

Activity of the SwafS work Programme concerned : 11

Field of expertise related to the topic: Technology development for Science outside the classroom

Potential Contribution to the project: Technology development, assessment of current technologies, potential stakeholders from Third Level education, Technology for Science outside the classroom for accessibility.

Role in the project

- Research Dissemination Other
 Training Technology development

Project idea:

Free Range technology-based learning is learning by not sitting in a classroom. The last decade education has expanded outside the classroom, where students live inquisitively and think freely. Every person's educational journey develops based on his or her interests, experiences and choices outside the classroom. Taking a step further from a one-size-fits-all curriculum that most schools employ, the Internet offers a world of artificial educational environment, where students encounter an unlimited variety of learning experiences. _GNOSIS will focus on certain pilots' studies of science education outside the classroom and will design and implement a Virtual Reality (VR) ecosystem to evaluate the impact of such technologies and to specify how this form of learning is achieved and how it can be accredited.

Project description:

The GNOSIS project complies with the SWAFS 11 call and the scope and challenges under the Research and Innovation action, as it will focus on the importance of science education outside the classroom, with emphasis on the effects of the informal education within the non-educational activities, that are not well explored in their nature and effects. The application scenarios will be provided from the experts within the Robotics area, building on pedagogical and learning theories and will be evaluated within different socio-economically disadvantaged groups.

The 'VR classroom' provides a meaningful way to engage learners in practical science, giving them experience of collecting and analysing data, and making predictions in the simulated/VR world, beyond the limitations of the classroom or laboratory. Science, at its best, is a vibrant, invigorating and inspirational subject area for Irish people. Science in education is a crucial cog in the economy. It has many triggers and barriers to engagement among children/students and their parents. Aptitude and ability are important factors in fostering a passion for the subject areas. Science is highly valued for its role in advancing society across a range of functions.

In summary, the objectives of this project are to:

- Specify the pedagogical constructionism foundations via stakeholder engagements most pertinent to teaching and learning experiences outside the classroom with VR enabling technologies;
- Analyse the knowledge on science education outside the classroom within a VR ecosystem, taking into account gender and geographical differences and socio-economically disadvantaged groups;
- Facilitate open, effective and efficient digital content within GNOSIS ecosystem in order to specify if this type of learning complements the formal teaching procedures or succeeds where it fails;
- Validate the VR Science ecosystem, via two pilot testing scenarios within the area of Robotics within third level education to support free range learning with new enabling technologies;
- Deliver the results from GNOSIS ecosystem through the the industry stakeholders, the user groups and the standard bodies in EU and worldwide to disseminate and maximise the result of the scientific, social and economic impact derived from Obj. 4.

GNOSIS will provide short term an evaluation of good practices in terms of Science education outside the classroom; it will present the finding to help EU understand the range of innovative products in science education and in the long term to contribute towards the considerations for accreditation of the available information through the future technologies for education.

Already experience as a coordinator yes no x or partner yes x no
If yes, in which projects?

Organisation	Contact name	Address
UNIVPM	Prof. David Scaradozzi	Università Politecnica delle Marche - ISME Mobility Delegate of the Engineering Faculty @ UNIVPM Via Breccie Bianche - 60131 Ancona - Italy
Uformia	Cherie Stamm	Postboks 60 9069 Lynseidet Norway
TALENT	Dr Elisa Mazzieri	Via Bachelet 23, Osimo 60027 Italy
Vetenskap & Allmänhet, VA	Cissi Askwall	PO Box 5073, SE-102 42 Stockholm, Sweden
UPRC	Prof. Apostolos Meliones	University of Piraeus Department of Digital Systems 80, Karaoli & Dimitriou Str, 18534, Piraeus, Greece
Czech Academy of Sciences	Kateřina Svobodová	Národní 1009/3 110 00 PRAHA 1 Czech Republic
Vilnius University	Prof. Eugenijus Kurilovas	Vilnius Gediminas Technical University, Universiteto g. 3, Vilnius 01513, Lithuania
Organisation	Contact name	Address
UCD	Dr Eleni Mangina	School of Computer Science, UCD, Belfield, Dublin 4, Ireland
meetingRoom Software Ltd.	Dr Abraham Campbell	Maraviglia, Vico road, Killiney, Co. Dublin.

Other partners in the consortium already identified (with their countries) **We are under discussions with partners from Spain, Cyprus, Bulgaria and Romania**

② Target Coordinator/Partner Sought

Organisation details :

- | | |
|--|--|
| <input type="checkbox"/> higher education / university | <input type="checkbox"/> industry/SME |
| <input type="checkbox"/> research institution | <input type="checkbox"/> consultancies |
| <input type="checkbox"/> public partner | <input type="checkbox"/> private partner |
| <input checked="" type="checkbox"/> NGOs / voluntary organisations | <input type="checkbox"/> other (specify) |
| <input checked="" type="checkbox"/> education | <input type="checkbox"/> No preferences |

Expertise / competency :

EXPERTISE NEEDED

- Social Sciences
- Informal knowledge evaluation
- Knowledge accreditation

3 Contact Details

Contact person	<input checked="" type="checkbox"/> Ms <input type="checkbox"/> Mr		
Organisation	UNIVERSITY COLLEGE DUBLIN		
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Short Profile of Organisation

UCD is the largest University in Ireland and a major contractual track record in successive EU Framework Programmes: UCD secured 219 EU FP7 contracts, with a 21.7% success rate in EU FP7 participation – Ireland’s average success rate is 22% and the EU average success rate is 19%; UCD currently has already secured over 64 contracts in Horizon 2020 (Feb 2016); UCD is managing 21 ERC awards, including 4 associated ERC Proof of Concept awards.

Date: 8/4/2017

I agree with the publication of my contact data on the NCP Network website and on other national websites

yes no

Please fill in the partner search form and return it to the national contact point for Science with and for Society.