



# BASE

Behavioral Assessment to Improve School Environment

Kick off meeting

Grant Agreement:

2017-1-RO01-KA201-037460

Partner No: 8

Presenter: Assoc. Prof. Eleni Mangina

(SkypeID: [eleni.mangina](#))





## Partner: University College Dublin School of Computer Science



**Dr Eleni Mangina** [Project-Coordinator] is currently Associate Professor at School of Computer Science and Deputy VP International for College of Science. Dr Eleni Mangina's research profile includes active research in the area of applications of ICT in a number of different domains with the main focus of applications in education and assistive technology.

**Dr Abraham Campbell:** Abraham Campbell is an Assistant Professor in School of Computer Science since September 2014. Prior to this post he was a postdoctoral researcher in CLARITY, a Science Foundation Ireland Centre for Science, Engineering and Technology based on University College Dublin and he is an expert in Virtual and Augmented Reality for the last 10 years.

**Research Assistant (TBA):** Position to be recruited within the next 6 months





Partner: University College Dublin  
School of Computer Science



- **Role in the project:** Partner no 8 - University College Dublin (UCD) is the largest University in Ireland, the involved School of Computer Science is expert in the area of applications of ICT in a number of different domains with the main focus of applications in education.
- **Skills:** Learning management systems, e-learning, educational analytics; Virtual reality, virtual Environments; 3D visualisation development; Artificial intelligence, machine learning; Mobile platform development; Large scale distributed infrastructures, including cloud, peer-to-peer systems and the IoT





Partner: University College Dublin  
School of Computer Science



## Infrastructure and availability for the project

- University College Dublin is one of Europe's leading research-intensive universities. In the case of management/exploitation of any intellectual property arising from the project (specifically within the development of augmented reality objects for education), UCD Innovation has the expertise and will provide support to the research team. Over €45M a year (Gross Value Added) contributed by NovaUCD activities to the Irish and global economy; over 480 inventions disclosed; over 330 patents filed (including 176 priority patent applications); over 90 licence agreements concluded and a number of spin-out companies have been acquired (ChangingWorlds for over \$60M).
- The School of Computer Science has been actively involved in the research area of data analytics for education, digital learning repositories and 3D learning content development. The expertise will be shared within the consortium.





# Partner: University College Dublin School of Computer Science



## Role in BASE (Intellectual Outputs):

- **O1:** Design of software features (P2,**P8**) & development client-server software (P2,P4,P5,P6,**P8**):  
Timeframe: **01-09-2017 --> 28-02-2018 (?)**
- **O2 (Leading Partner):** The BASE repository will provide the Internet users with high quality contents about the application of PBS at school using the Information Communication Technologies. In particular the repository will include the following materials: data gathered at school through the BASE application about a variety of measures and gathered in many contexts (see IO5); the collection of good practices gathered during the project released as Open Educational Resources (see IO3); a reasoned collection of multimedia contents as described in IO3. The contents of the repository will be available for at least 5 years at the end of the project, trying to constitute an important knowledge base on the Internet about the application of the PBS in European schools with the support of the BASE application, developed during the project. In order to promote the repository sustainability, the partnership will decide how to let the Internet user to add new contents during the project and at after its' conclusion. The intellectual output will be leaded by **UCD (P8)**. **P8** will select the technological solution and for setting up the repository. **P1 will help P8** to choose the most appropriate open source technologies for the repository. The contents for the repository coming from intellectual outputs (IO3, IO5) will be published online as soon as they will be completed by partners. The collection of multimedia products will be assigned by P8 to partners according to the ongoing project activities. The contents released as OER will be released according to the following methodology: the use of an open license for the contents produced (such as Creative Commons); the use of file formats that are usable by most of the devices on the market; the subdivision of the materials in tiny reusable modules. The contents released as open data will be structured and published online according to the best practices defined by the W3C. Timeframe: **01-09-2017 --> 31-08-2020 (?)** (ADD INFORMATION SERVICES; INSTITUTO POLITECNICO DO PORTO; STICHTING VU; Fundatia de Abilitare Speranta)





Partner: University College Dublin  
School of Computer Science



### Role in BASE (Intellectual Outputs):

- **O2 (Leading Partner): Issues to be discussed related to data repository**
- In particular the repository will include the following materials: data gathered at school through the BASE application about a variety of measures and gathered in many contexts (see IO5): Decision to be made where, when and how the repository will be hosted – information is needed on the type of data repository.
- the collection of good practices gathered during the project released as Open Educational Resources (see IO3);
- a reasoned collection of multimedia contents as described in IO3 – We need to discuss issues such as personalised data etc. and the exact type and size of contents in order to decide the open source data repository.





# Partner: University College Dublin School of Computer Science



## Role in BASE (Multipliers Events):

- **E1:** BASE application testing (Italy) - This BASE application testing multiplier event is designed with the aims to involve stakeholders in the development process of BASE application. It will involve the contact networks of each partner in order to recruit the stakeholder participants. It is related to the (O1) Adaptation of the WHAAM application. Stakeholders identified by partners (teachers, educators, health professionals, etc.) will compose the group of testing. A virtual meeting with the testing group will present the preview of BASE application and the testing process. During the testing phase, users involved in the evaluation activities will have the opportunity to evaluate the features of the application and the usability of user interface from different devices (mobile devices and workstations). The feedback of stakeholders will be gathered with the intention to identify potential problems in the interface usability and make the proper adjustments for before the final release of the application. The testing of the BASE application will be developed according to an agile development approach. Periodically, the developers will involve the final users to the development process as described in O1, in particular before the release of crucial milestones of the application. **01-11-2017 --> 28-02-2019 (?)** Development of the BASE web application: CONSIGLIO NAZIONALE DELLE RICERCHE; UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN; UNIVERSITA DEGLI STUDI DI PALERMO
- **E2:** A new Internet application for Positive Behavior Support system (Italy) - This dissemination event is aimed at presenting the new BASE application (O2) to an audience of potential new users. The event will be addressed to primary school teachers, school leaders, positive behavioural experts and families. The event will introduce school operators and caregivers to the new powerful application for performing an educational process based on evidence-based features. Positive behavioral evidence-based facilities play a key role in providing teachers useful measurement tools, chart aids, visual aids for evaluating the effectiveness of behavioral interventions. The event presents how the system provides these aids to the teachers, describing in depth the BASE application features. **01-03-2019 --> 31-03-2019 (?)** Development of the BASE web application: CONSIGLIO NAZIONALE DELLE RICERCHE; UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN UNIVERSITA DEGLI STUDI DI PALERMO





Partner: University College Dublin  
School of Computer Science



### Role in BASE (Multipliers Events):

- **E4:** The European Positive Behavior support repository (The Netherlands): The following event will be the aim to present the European Positive Behavior support repository (O2) a digital service for improve the knowledge about the application of positive behavior as educational practices. Target audience is composed by families, associations, school operators (teachers and school leaders), educators interested in applying positive behavior in school education. It will present the different contents and facilities provided by the repository: the learning module will provide educational contents useful for improving the professional career of school operator and suggest the conditions for applying an educational turn in the teaching practices. The collection of good practices (O3) released as open educational resources offer opportunities of sharing, reusing and application of european cases studies and multimedia contents. Digital resources as video on positive behavior strategies help people to learn how to apply the strategies effectively. The event raises awareness the participants to explore and use this digital service as channel to know the PBS approach employable at schools. The event will be occasion to present also the progress activities related to the development of the BASE application (O1) describing the capabilities and features to the audience. **01/09/2018--> 30/09/2018 (?)** BASE repository; Good practices collection; Development of the BASE web application, STICHTING VU; UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN; Fundatia de Abilitare Speranta; ADD INFORMATION SERVICES; Cubuk Ilce Milli Egitim Mudurlugu







Partner: University College Dublin  
School of Computer Science



### Role in BASE (Multipliers Events):

- **E5:** Behavioural Hackathon Day (BHD) IRELAND: The use of computing technologies and the evidence-based practice (EBP) in the field of Positive Behaviour Support (PBS) and Functional Behavioral Assessment (FBA) opens new educational perspectives in the management and monitoring of behaviour, especially in the creation of new software tools able to support research-validated educational processes. The Behavioural Hackathon Day (BHD) aims to be a catalyst event for computer developers concerned to accept a programming challenge for collaborating intensively on the production of a software prototype. They are asked to imagine new tools or interface solutions able to process data contained in the Evidence-based PBS dataset produced inside the project. In this occasion, the hackathon programmers will explore new software ideas able to leverage the collection of data such as students' performance, classroom level of wellbeing, behavioural patterns, statistical indexes useful for evidencing the effectiveness of specific educational and positive behavioral interventions. The event wants to be a first European developmental corner for stimulating and creating a novel scenario about the designing of positive behaviour support tools based on sharing and process behavioral knowledge, a sort of creative forge to advance the features of novel e-health and e-educational systems devoted to speed up the digital use of EBP assessment practices. Finally, all produced prototypes will be included in the BASE project web sites. **01-05-2020--> 31-05-2020 (?)**, Evidence-based PBS dataset; Development of the BASE web application, UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLINCONSIGLIO NAZIONALE DELLE RICERCHE; Cubuk Ilce Milli Egitim Mudurlugu





Partner: University College Dublin  
School of Computer Science



## Role in BASE (Multipliers Events):

- **E6:** Final Conference on Behavioral Assessment to improve School Environment (Romania): The final conference on Behavioral Assessment to improve School Environment presents the results of the project (O1-O5). It will be addressed to a public of school operators, health professionals, families, associations, health and educational services, local educational agencies for primary education and policy makers. All Intellectual outputs will be presented by partnership. The internet application for positive behavioral support system (O2) will be presented with all facilities developed to implement a PBS intervention, The Base repository (O3) will be available with all open educational resources collected for teachers and educators interested in the application of PBS approach released under the intellectual outputs O3, O4 and O5 . In particular the policy recommendations (O5) released by the consortium will guide policy makers to frame specific educational policies and take decision that will enhance the teaching methods and address the educational programs at school. It will be occasion for the schools to witness the use of BASE application and to present their Evidence-based PBS dataset about the application of the most effective and suitable instructional strategies applied in their schools. The three best Behavioral Support Team (BST) that have conducted with success the application of PBS strategies for behavior management in classroom will be rewarded and the school will be elected "school leader in PBS intervention". The work activities of BST will be judged on effectiveness, impact, content, and relevance. A panel of experts in PBS , will judge the best work activities. **01-07-2020 --> 31-07-2020 (?)** Development of the BASE web application; BASE repository; Good practices collection; Policy recommendations; Evidence-based PBS dataset Fundatia de Abilitare Speranta; CONSIGLIO NAZIONALE DELLE RICERCHE; ADD INFORMATION SERVICES; ISTITUTO POLITECNICO DO PORTO; STICHTING VU; Cubuk Ilce Milli Egitim Mudurlugu; UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN



## Finances:

- O1: 7230.00 (?)
- O2: 15665.00 (?)
- O1: 3800.00 (?)
- O2: 5700.00 (?)
- E: 5000 (Multiplier events)
- Total: 42365.00 (?)

PIC of Organisation	Country of the Organisation	Transnational Project Meetings	Intellectual Outputs	Multiplier Events
920007268	Romania	5340.00	17170.00	5000.00
999979500	Italy	6120.00	47720.00	5000.00
940083552	United Kingdom	4600.00	21400.00	
991473861	Portugal	4970.00	16440.00	5000.00
999734284	Italy	6120.00	34240.00	
954530344	Netherlands	4600.00	32395.00	5000.00
944554961	Turkey	7230.00	7400.00	
999974359	Ireland	4970.00	32395.00	5000.00
913106591	Portugal	4970.00	5480.00	
945100004	Romania	5340.00	2960.00	
913094369	United Kingdom	4600.00	8560.00	
912861181	Turkey	7230.00	2960.00	
912575031	Netherlands	4600.00	9640.00	
913208344	Italy	5750.00	8560.00	



## Partner: University College Dublin Recruitment plans



- **UCD – BASE Research Assistant to be allocated within the next 6 months for O1 & O2 Intellectual Outputs**





# BASE

Behavioral Assessment to Improve School Environment

**Thank you**

**Any queries please email me:**

**[eleni.mangina@ucd.ie](mailto:eleni.mangina@ucd.ie)**

**SkypeID: [eleni.mangina](#)**

