


## Partner Presentation Form

Name of the organisation :	Instituto Politécnico de Bragança	
Address:	Campus de Santa Apolonia	
Tel:	+351 273303200	
Fax:	+351 273325405	
Web site:	<a href="http://www.ipb.pt">www.ipb.pt</a>	

Name of the contact person :	Ana I. Pereira	
Function:	Vice-Coordinator of Research Center of Digitalization and Intelligent Robotics	
Address:	Campus de Santa Apolonia	
Tel:	+351 273303200	
Fax:	+351 273325405	
E-mail:	<a href="mailto:apereira@ipb.pt">apereira@ipb.pt</a>	

Name of the contact person :	Lucas Viveiros	
Function:	Researcher in Virtual Reality	
Address:	Campus de Santa Apolonia	
Tel:	+351 273303200	
Fax:	+351 273325405	
E-mail:	<a href="mailto:viveiros@ipb.pt">viveiros@ipb.pt</a>	

**Type of organisation:**

SME     School     University     Public Authority   
 Training     No Profit     NGO

Other (Specify)

**Fields of action :**

SMEs     Youth     Universities     Public Authorities   
 Equal opportunities     Schools     Unemployed

Other (Specify)

### **Description of the organisation**

The Polytechnic Institute of Bragança (IPB) is a higher education public institution with a defined mission in creating, transmitting and diffusing technical-scientific and professional knowledge through the articulation of study, teaching, applied research and experimental development. IPB belongs to the European Network for Universities of Applied Sciences (UASNET), which main objectives include the transferability of professional skills and the integration of applied research in their professional and technological education mission.

Founded in 1983, IPB is presently composed by five schools. Its activities embraces a wide area of knowledge and technology, namely, arts, communication and multimedia, business sciences and law, education and teachers training, agriculture sciences and natural resources, health, tourism, sports, technologies and engineering.

The IPB has an internationalization programme with widely recognized success, including the annual mobility of more than 900 incoming and outgoing students and 300 teaching and non-teaching staff members, as the result of the cooperation with several European HEIs and with universities from the Community of Portuguese-Speaking Countries and all over the World ([www.ipb.pt/iro](http://www.ipb.pt/iro)).

Taking into account its dimension (8000 students and 420 full time equivalent teachers), IPB is placed in the first line of the international mobility. Considering the latest governmental data, 26% of IPB graduates had an international mobility experience during their study programme, which remarkably places IPB above the objective established by the EU for 2020 (20%). IPB also distinguishes itself as partner in European projects, including 14 Strategic Partnerships, 9 former Comenius, Erasmus, Leonardo da Vinci, Tempus and Erasmus-Mundus, and 30 Intensive Programmes. The IPB is one of the few Portuguese HEIs awarded with both the ECTS and the DS Labels, thus assuring the quality and the transparency of the management and the fair academic and professional recognition of its qualifications ([www.ipb.pt/ectsguide](http://www.ipb.pt/ectsguide), [www.ipb.pt/sd](http://www.ipb.pt/sd)).

IPB is a certified institution awarded with ISO 2001:2008 standards certificate, our Planning and Quality Management Office implements mechanisms of quality control in order to improve quality of services and follow financial implementation of projects.

### **Experience of the organization in previous European projects**

Polytechnic Institute of Bragança (IPB) has a large experience in participating in European projects (leading or be a partner member). Some programs that IPB had participate area Erasmus + Strategic partnership, Erasmus + KA 7 – ICM, Erasmus + KA 1, LLP-Comenius, Tempus, FP7, H2020.

### **Experience and Expertise of the organization in the project's subject area**

Polytechnic Institute of Bragança (IPB) is member of the European Applied Sciences Network and the National Science and Technology System, through R&D testing units, namely, CIMO (Mountain Research Center), or CeDRI (Research Center in Digitization and Intelligent Robotics), UNIAG (Applied Research Unit in Management), CIEB (Basic Education Research Center). IPB has indicators of impact and excellence of its scientific production and applied research, namely in the U-Multirank, Scimago Institutions Rankings and Shanghai Ranking. IPB is a founding member of the Brigantia-EcoPark Science and Technology Park, a privileged space for incubating technology-based companies, and an associate member of the Collaborative and Social Laboratory.

#### **CeDRI - Research Centre in Digitization and Intelligent Robotics**

The Research Centre in Digitization and Intelligent Robotics (CeDRI) is an interdisciplinary research unit that brings together researchers from the areas of Electronics, Computer Science and Mathematics. CeDRI's research activities aim to develop scientific knowledge and applications in technological systems with a high impact on industry, promoting the competitiveness of the socio-economic system, with a special focus on regions of low population and economic density, characterized by SMEs that combine a small-scale industrial system and where their competitiveness is strongly affected due to access difficulties industrial innovation. CeDRI's mission is to contribute to the development, application and transfer of scientific knowledge related to robotics, intelligent systems and information and communication technologies, within the scope of the digitization and automation, strengthening the scientific and technological system.

### **Contributions that can be provided to the project**

Research Centre in Digitalization and Intelligent Robotics (CeDRI) can contribute to the E-CLAS project in different ways, namely:

- Contribute to innovative strategies in learning environments, considering the expertise of the research group in the project (MathE, VR@School, E-Learning from nature, Math Games, and others);
- Contribute in gamification area to promote science contexts;
- Contribute to digitalization topics in the education area.

### **Reasons of involvement in the project**

Some reasons to participate in the project are:

- Increase the research CeDRI's network;
- Share innovative learning strategies;
- Increase the research in Portugal.

### **Contact Person's Experience and Expertise**

#### **Ana I. Pereira**

Coordinator Professor at the Department of Mathematics, Polytechnic Institute of Bragança, and she is vice-coordinator of the Research Centre in Digitalization and Intelligent Robotics (CeDRI) - Polytechnic Institute of Bragança - and member of Algorithm Research Centre – Minho University. She also is Direction Member of Bragança "Ciência Viva" Science Centre. She got her PhD at Minho University (2006) in 'Numerical Optimization' area. She is author or co-author of more than eighty journal papers, book chapters and conference proceedings. She participates in more than fifteen research projects in the areas of robotics, optimization and innovate tools in teaching. In particular she was the IPB coordinator of the following projects: Strategic Partnerships MathE - MathE - Improve Math Skills in Higher Education (2018-2021), SMILD - Focus on Students with Mathematics Learning Disabilities (2018-2020), aCT (2019-2021), VR@School (2018-2020), E-Learning from Natures (2015-2017). She was also coordinator of the national projects "Games Laboratory", financed by Agência Ciência Viva (2013-2015), "Braganza@Science", financed by Agência Ciência Viva (2013-2016) and "Eureka – Mathematical Games" also financed by Agência Ciência Viva (2006-2008).

ORCID ID: [orcid.org/0000-0003-3803-2043](https://orcid.org/0000-0003-3803-2043);

ResearcherID: [www.researcherid.com/rid/F-3168-2010](http://www.researcherid.com/rid/F-3168-2010)

Scopus ID: [www.scopus.com/authid/detail.uri?authorId=8638283800](http://www.scopus.com/authid/detail.uri?authorId=8638283800);

ResearchGate: [www.researchgate.net/prole/Ana\\_Pereira26](http://www.researchgate.net/prole/Ana_Pereira26)

#### **Lucas Viveiros**

Lucas holds a bachelor's degree in Computer Science from the Federal Technological University of Paraná (UTFPR), Brazil, and a master's degree from the Polytechnic Institute of Bragança (IPB), Portugal. His field of research and performance ranges from 3D modelling to Virtual, Augmented and Mixed Reality applications, which includes his experience with Android, Microsoft HoloLens, Magic Leap, and Oculus Quest development. His passion for the field already brought him to other countries like Amsterdam, the Netherlands where he worked with the Dutch network company, Ziggo, and also its lectures in Iași, Romania. Currently, Lucas is recording a 360 teaser and developing a virtual interactive tour of the international biological station of Douro's region, a partnership between Centro Ciência Viva de Bragança (CCVB) and CeDRI's lab.