

Polytechnic Institute of Bragança

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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, Portugal) asserts itself as an innovation co-creation ecosystem, involving students, teachers and staff with companies and organisations, aiming to create a regional knowledge-based economy and to implement strong international partnerships, both at EU and worldwide levels. IPB aims at being a reference in the European Higher Education Area, in the context of the universities of applied sciences system, implementing innovative teaching and practice-based research, through collaborative laboratories, strategic partnerships, and living labs, in a multidisciplinary and multicultural learning community. The IPB is part of the Portuguese and European system of science and technology through the existence of R&D laboratories with impact and excellence of its scientific production and applied research, namely at U-Multirank, Scimago Institutions Rankings, Shanghai Ranking, and World's Universities with Real Impact. The IPB is a founding member of the Park of Science and Technology Brigantia EcoPark, a privileged space for science and technology for technology-based companies, start-ups, and spin-offs, and an associate member of the MORE and AQUAVALOR Collaborative Laboratories for the implementation of research and innovation agendas aimed at the creation of economic and social value.

IPB is a deep international and multicultural institution where 36% (3600 out of 10000) of its students are international students from 70 different countries. IPB has a mobility program with widely recognized success, with annual mobility of more than 1000 incoming and outgoing students and researchers and 400 principals, teaching and non-teaching staff members, as the result of the collaboration with several HEIs from all over the world. Being an international academic community is part of our DNA. Students and researchers from all over the world have the opportunity to explore IPB for studies, internships and research. IPB offers several course units and entire bachelor and master programmes in English for mobility and prospective students. Researchers are welcome to take part of our community, namely, at the associated laboratory SusTEC (Associated Laboratory for Sustainability and Technology in Inland Regions) and the research laboratories of CIMO (Mountain Research Centre), CeDRI (Research Centre in Digitalization and Intelligent Robotics), UNIAG (Applied Management Research Unit) and CIEB (Research Centre on Basic Education). The IPB offers all its students a unique opportunity to study in a creative and innovative institution and to take advantage of a unique academic, cultural and ecological environment.

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 the quality of services and follow the financial implementation of projects.

All these activities and projects have provided IPB with valuable experience and competencies that will be shared with the other partners of this project. This, aligned with the diversity of cultural contexts and region-specific challenges of the consortium, will allow IPB to fulfil its aim of becoming a global-local driver for an integrated societal development.

Experience of the organization in previous European projects**Erasmus+ Strategic Partnership – “ HACK-IT” (2022-2025)**

Global funding: 375.671€.

Erasmus+ Strategic Partnership – “ ECOLAH” (2022-2024)

Global funding: 36.450 €.

Erasmus+ Strategic Partnership – “ Connected4Health” (2022-2024)

Global funding: 269.057€ <https://connected4health.pixel-online.org/>

Erasmus Mundus Design Measures – “Data Driven Digital Marketing - 3D-M” (2022-2023)

Global funding: 55.000 €

Erasmus Mundus Design Measures – “ - M2PI”(2022-2023)

Global funding: 55.000 €.

Erasmus+ Strategic Partnership – “ - iMath” (2022-2023)

Global funding: 385.700€; <https://imath.pixel-online.org/>

Erasmus+ Strategic Partnership – “Ethical food entrepreneurship” (2022-2023)

Global funding: 35.070€.

Erasmus+ Strategic Partnership – “e-SafeFood” (2022-2024)

Global funding: 73.763 €.

Erasmus+ Strategic Partnership – “VitEtnoClimat” (2022-2024)

Global funding: 69.592€.

Erasmus+ Strategic Partnership – “ DIFUCH” (2021-2023)

Global funding: 292.650€.

Erasmus+ Capacity Building – “Enhancing Early Childhood Education and Care in Palestine – CARE” (2021-2024)

Global funding: 961.244€. For more information see the project's web page at: <https://care.edu.ps/>

Erasmus+ Strategic Partnership – “QUILL” (2021-2023)

Global funding: 276.789€. For more information see the project's web page at: <https://quill.pixel-online.org/>

Erasmus+ Strategic Partnership – “VR Science Tour” (2020-2023)

Global funding: 395.370€. For more information see the project's web page at: <https://ec.europa.eu/programmes/erasmus-plus/projects/eplus-project-details/#project/2020-1-PT01-KA204-078597>

Erasmus+ Strategic Partnership – “GAINKIDS - Global Citizenship for Kids” (2020 – 2023)

Global funding: 325.326€. For more information see the project's web page at: <https://ec.europa.eu/programmes/erasmus-plus/projects/eplus-project-details/#project/2020-1-PT01-KA201-078771>

Erasmus+ Strategic Partnership – “SG4NS - Serious Games - Developing Emotional Competencies for Nursing Students” (2020-2023)

Global funding: 207 235€. For more information see the project's web page at: <https://ec.europa.eu/programmes/erasmus-plus/projects/eplus-project-details/#project/2020-1-PT01-KA203-078847>.

Erasmus+ Strategic Partnership - “VIW – Voices of Immigrant Women” (2020-2022)

Global funding: 284.839€. For more information see the project's web page at: <https://viw.pixel-online.org>

Erasmus+ Strategic Partnership – “TUT4IND – Training University Teachers for the Inclusion of People with Intellectual Disabilities” (2019-2022)

Global funding: 339.881€. For more information see the project's web page at: <https://ec.europa.eu/programmes/erasmus-plus/projects/eplus-project-details/#project/2019-1-ES01-KA203-065823>.

Experience and Expertise of the organization in the project’s subject area

Regarding its experience and multidisciplinary expertise, the IPB team is very well prepared to develop projects of pedagogical intervention, carried out through cooperative support to the learning of children and their families, in promoting their educational and social success, and improvement of their basic and transversal learning skills, through training and collaborating with university teachers, professionals, creating a solid technical-scientific knowledge that can be used as a reference and a fundamental basis in the design and evaluation of programs of intervention and educational change. The team of researchers involved in this Project has complementary skills. They are involved in national Projects and members of one National Project with schools and, in the following Erasmus + Projects: TELESPA, GAINKIDS, CARE, and TUT4IND.

Contributions that can be provided to the project

Considering the heterogeneous background of the IPB's team members, there are several contributions that are valuable to the project. Moreover, the involvement of the Research Center in Digitalization and Intelligent Robotics ensure the resources and knowledge relevant to the development and deployment of the digital tools planned in the project. Rui Pedro Lopes has extensive experience in multi-platform, distributed, and application development, for both research and development projects. The expertise in design and multimedia that Ana Lúcia brings to the project allows for building integrative and friendly user interfaces, aiding in the easiness of use by families, educators and kindergarten teachers as well as by children and families.

Three members of the team are experts in early childhood education. They are experienced in early childhood education teacher education.

Reasons of involvement in the project

The IPB, as mentioned above, is a Higher Education Institution composed of 6 different schools, each with its own area of training and research. The IPB also hosts four research centers that belong to the national network of science and technology. One of the centers is the Research Center in Basic Education, whose mission is for Cristina to paste here.

This project falls perfectly within this mission and also justifies the involvement of the IPB and the research centers. It allows research on the learning processes in both kindergarten teachers' education as well as helping kindergartens to improve their practices.

Contact Person's Experience and Expertise

Cristina Mesquita is a professor in the Social Sciences Department of the School of Education of the Polytechnic Institute of Bragança. She is the coordinator of the Research Center of Basic Education and was head of the social sciences department. She has a Ph.D. in Child Studies from the University of Minho, Portugal, and a Master's in Science Education in Teacher Education. She also has twelve-year experience as an early childhood education teacher, plus twenty years of experience in higher education. She has been responsible for the subject of Childhood Pedagogy and Supervision in teachers' education programs and Didactics of Knowledge of the World in early childhood education and primary school. She authored several national and international publications focusing on education, praxeology, and social and children pedagogy.

Luis Castanheira received his PhD from the University of Lisbon, in history of education, with the title "For the story of the Childhood Education in Portugal: the case of Bragança (1934-1986)". His master thesis is in education, in history of education, from the Faculty of Psychology and Educational Sciences of the University of Lisbon. He is a professor at the Department of Supervision of the Pedagogical Practice of Childhood Educators and Teachers of the first cycle of basic education. During the last years, he participated in the research and teaching of history and Psychology of education research and development unit in education and training in research and teaching of history and Psychology of education, Institute of education, University of Lisbon.

Rui Pedro Lopes received his master's degree in Electronics and Telecommunications and the PhD degree in Electrical Engineering by the University of Aveiro, Portugal. He is an associate professor (professor coordenador) at the Polytechnic Institute of Braganca. He is also a member of the Research Center in Digitalisation and Intelligent Robotics and an external member of the IEETA Research Center. His main research interests include on distributed systems, operating systems, and information systems design, in both SQL and NoSQL. He has more than 100 papers in peer-reviewed international conferences and has been actively participating in international research projects

Ana Lúcia Pinto is an Assistant Professor at Arts and Humanities department of IPB / School of Communication Administration, and Tourism of Mirandela. She is the director of Multimedia graduation and coordinator of EsACT audiovisual resource center. She has a PhD in Child Studies (specialization in Visual Communication and Art) from the University of Minho entitled *From click to gesture – the hybrid book for*

children in the time of tangible interfaces. Her master's thesis is in Multimedia Art, from the Faculty of Fine Arts of the University of Porto (UP/FBAUP). She has 22 years of experience in higher education teaching during which she taught in areas as diverse as drawing, photography, animation and interaction design methodologies. Between 2012 and 2016 she participated in research projects at Engagelab /Algoritmi research center at University of MinhMinho. She as also authored national and international publications focused mainly on illustration and interactive/hybrid books. As an artist and illustrator she participated in several individual and collective exhibitions. She also illustrated several books for children.

Maria Luísa Azevedo is a Ph.D. student in Education and Behavioural Sciences at the University of Vigo, Spain. She has a Master's in Pre-school Education and Teaching of the 1st Cycle of Basic Education since 2017, by the IPB, Portugal. She is currently a researcher at the IPB's Centre for Research in Basic Education, where she works on the OleaChain project. Her research focuses on aspects of children's well-being and teachers' professional development. She has professional experience as an early childhood educator, having tried to give voice to the children, listening to them and starting from their interests.

Raquel Rodrigues graduated in Anthropology - Ethno-cultural specialization. Since 2004 is a member of IPB International Relations Office. Responsible for European projects management.