



**ANNUAL INTERNATIONAL CONFERENCE**  
ON APPLIED RESEARCH WITH BUSINESS  
AND SOCIETY

# ICARUS 2

— 14.DECEMBER.2022

10h00-15h00 CET  
Online

Hosted by



## Schedule

- 10.00-10.10 Conference Opening TUS. Prof. Vincent Cunnane, President of the Technological University of the Shannon (TUS) Ireland, Co-Director of RUN-EU**  
Chair: Dr. Siobhan Moane, RUN-EU PLUS Project Manager, TUS Ireland
- 10.10-10.30 Co-Design of a Sustainable Tourism Research Strategy for RUN-EU Regional Social Impact and Innovation**  
Dr. Anthony Johnston, Director of Research Development for the Faculty of Business and Hospitality, TUS, Ireland
- 10.30-10.45 RUN-EU Researcher Mobility – The Researcher Experience**  
Prof. Dr. Erika Geser-Engleitner, Social Sciences Research Group, FHV, Austria (home) and TUS, Ireland (host)
- 10.45– 11.00 RUN-EU Researcher Mobility – The Researcher Experience**  
Dr. Edit Süle, Marketing and Management, SZE, Hungary (home) and NHL Stenden, Netherlands (host)
- 11.00-11.15 Break**
- 11.15-11.35 RUN-EU PhD Programme in Sustainable Polymer Technologies**  
Dr. Michael Nugent, Lecturer in Polymer Technology, TUS, Ireland
- 11.35-11.55 Professional Practice-based Research towards the Digitalisation of Manufacturing**  
Patrick Ruane, Special Projects Director, Johnson and Johnson Vision Care, Limerick, Ireland
- 11.55-12.15 Joint PhD Supervision across the RUN-EU Alliance – Case Study 1**  
Dr. Paul Archbold, Director of Sustainable Infrastructure Research Group, TUS, Ireland and Arpan Joshi, postgraduate student, TUS & IPL, Portugal
- 12.15-12.30 Joint PhD Supervision across the RUN-EU Alliance – Case Study 2**  
Dr. João Vilaça, Head of Research, IPCA, Portugal
- 12.30-12.45 How Engagement with RUN-EU can support Business Development**  
Dr. Norbert Kovacs, Head of the Smart Project Consulting Ltd, Hungary

12.45-13.30

**Lunch**

**13.30-13.50 RUN-EU Transfer Pathways to PhD – pre-consultation process with SZE doctoral programme explained**

Frank Doyle, Programme Director, Master's of Engineering in Digitalisation of Manufacturing, TUS, Ireland

**13.50-14.10 The Application and Accessibility of Open Science to Business and Society**

Ms. Tania Marsh, Research Integration Project Manager, TUS, Ireland

**14.10-14.30 RUN-EU PLUS Researcher Career Development Programme**

**Dr. Virve Kallioniemi-Chambers, Education Development Specialist, HAMK, Finland**

**14.30-14.50 Open Forum Discussion – How do academia and business/societal organisations find each other and create meaningful engagement opportunities?**

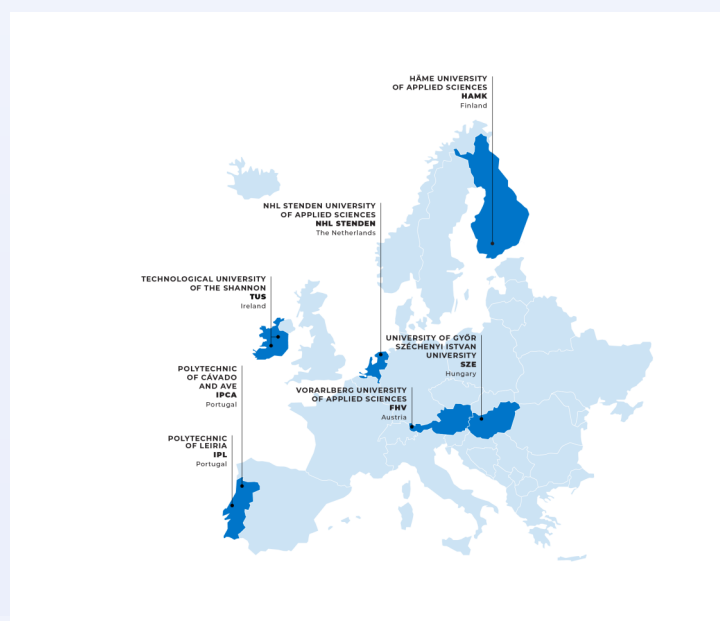
Dr. Markus Preißinger, Head of Research, FHV, Austria

**14.50-15.00 Introduction to the RUN-EU PLUS Cloud of Knowledge Portal**

Dr. João Vilaça, Head of Research, IPCA, Portugal

15.00

**Conference Ends**



## Foreword

**Prof. Vincent Cunnane, President of the Technological University of the Shannon (TUS) Ireland, Co-Director of RUN-EU**



The education landscape across Europe is changing. Strengthening strategic partnerships across the EU between higher education institutions and encouraging the emergence of ‘European Universities’ is one of the flagship initiatives of the EU’s ambitions to build a European Education Area. The European Universities Initiative envisaging Europe as a global hub is a critical project to the European Higher Education Area (EHEA) and the Bologna Process, to create an EHEA based on international co-operation and academic exchange.

The Regional University Network-European University (RUN-EU) alliance brings together seven like-minded, regionally focused Higher Education Institutions (HEIs) comprising more than 76,000 students, 8000 staff, 53 faculties, 97 research centres and groups and more than 40 associated partners including Regional, National, and International authorities. The RUN-EU mission places innovative teaching, learning, research, and engagement at the centre of the alliance activities and plots a course to implement the shared, integrated, and long-term joint strategy of the European Universities. RUN-EU is transformative for our students and our regions. The RUN-EU alliance contributes to the European Higher Education Area goals of enhanced mobility opportunities and recognition of qualifications across the EU through design and delivery of Collaborative European Degrees, inclusion of all in educational opportunities and the promotion of a strong sense of European identity, culture, and citizenship. RUN-EU brings together a new generation of creative Europeans whereby ‘learning, studying and undertaking research’ enables our students to cooperate across borders, languages, and disciplines, and thus develop a strong European identity. RUN-EU will deliver on the core objectives of the European Research Area by ‘fostering the free movement of researchers, scientific knowledge and innovation, and encouraging a more competitive European industry’.

We cannot underestimate the power of our new Regional European Network alliance and its potential for our regions that we all serve as Higher Education Institutes so well, continue to serve and will serve into a very bright future. We already know the RUN-EU community has a shared ethos, value system and commitment to region, that is only strengthened by our alliance. We as places of education and research have evolved in response to the needs of our students, our fellow citizens, and our environment.

Drawing on our past experiences – our future continues to be in responding to the needs of our regions, while moving beyond borders to learn, teach, and research together, bringing our unique skills, perspectives and learning to the RUN-EU community of Universities.

Through this process we have moved from the fringes of Europe to become central to what is happening in Europe, central to a new era in education and part of broader research collaborations.

And all the while we retain our common goals to positively impact our regions, to ensure access to higher education for the most marginalised, and to work closely with business and industry to meet the needs of the local economy.

RUN-EU Universities are also strong supporters of entrepreneurship in our regions - through education, incubation centres and business support.

The RUN-EU PLUS initiative plays a crucially important role in driving the research and innovation of our RUN-EU agenda and in educating researchers with the future skills required by our regional partners for their long-term strategic development. RUN-EU PLUS will enhance RUN-EU collaboration with and for society through the development and deployment of collaborative professional practice-based research degrees across the alliance.





**Dr. Liam Brown**  
**Vice President Research, Development, and Innovation,**  
**TUS: Midlands Midwest,**



**Dr. Patrick Murray,**  
**Head of Research and**  
**Technology Transfer,**  
**TUS: Midlands Midwest**



**Dr Siobhan Moane**  
**RUN\_EU PLUS Project**  
**Manager, TUS Ireland**

ICARUS 2022 is the second annual International Conference on Applied Research with Business and Society of our RUN-EU PLUS project and is hosted by the Technological University of the Shannon: Midlands Midwest. The inaugural conference was held in December 2021 when the RUN-EU PLUS project was just over 2 months old. This year's conference showcases researcher mobility and research collaborations across the RUN European University network and with our regional partners in their strategic priority research areas of sustainability, digitalisation, and social innovation.

The Horizon 2020 RUN-EU PLUS project (grant agreement 101035816) supports our RUN European University in its regional development goals by focusing on the strengthening of regional business and society partnerships in research and innovation across our RUN network. RUN-EU PLUS is developing professional practice-based research master's and doctoral programmes for business and society which will complement the existing RUN-EU strategic vision for teaching, learning, research, and engagement activities thereby delivering institutional and societal transformation in our regions. In addition to delivering a common research and innovation agenda, RUN-EU PLUS is mainstreaming open science skills and practices among our research community and has developed a Researcher Career Development Programme and a Research Career Evaluation system to support RUN-EU researchers in identifying clear personal career paths which will encourage inter-sectoral and international mobility during their careers. Conference participants will obtain insight into the research and innovation collaborative opportunities available through the RUN-EU PLUS project and the international mobility opportunities available to researchers. In addition, they will hear the personal experiences of researchers at all career stages including post-graduate researchers, academic research supervisors, research leaders and business partners.

We welcome you to our ICARUS 2022 conference and look forward to collaborating with you in the future.

## Name

**Dr. Anthony Johnston**

**Director of Research Development, Faculty of Business and Hospitality, Technological University of the Shannon: Midlands Midwest, Athlone Campus.**



## Presentation Title

**Co-Design of a Sustainable Tourism Research Strategy for RUN-EU  
Regional Social Impact and Innovation**

Tony completed a B.A. (Hons.) in Business with Entrepreneurship in the University of Ulster (2003), an M.Litt. in Geography in the National University of Ireland, Galway (2005) and a Ph.D. in Geography in the National University of Ireland, Galway (2011). His main research interests are in tourism geographies and development, particularly how tourism interests with the United Nations Sustainable Development Goals.

## Abstract

In this presentation I will discuss recent collaborations through the RUN EU and RUN EU Plus network to develop a coherent approach to tourism research which addresses some of the major issues faced by the European tourism industry.

The tourism industry in Europe has been configured by crises in recent years. Covid19, war in Ukraine, climate change, and the ongoing refugee numbers across Europe, have exposed the industry to a period of rapid change. These macro environmental issues compound other challenges faced by the sector, including high energy costs, inflation, consumer behaviour, and labour shortages. As an industry configured by Volatility, Exposure, Resilience and Adaptation, there is constant need for collaboration and interaction between academia, industry, and society.

This presentation outlines the initial steps taken to date by tourism researchers in the RUN-EU network to collaborate on digitisation, social inclusion and environmental sustainability issues. The presentation outlines the agenda, structure and outputs of a face to face meeting of tourism researchers in the network.

Progress to date across the network includes development of a joint MA, co-supervision of PhD research, joint dissemination of knowledge, creation of a SAP to be delivered in Spring 2023. This presentation discusses the upcoming

## Name

**Prof. Dr. Erika Geser-Engleitner**

**Social Sciences Research Group, FHV, Austria (home)**



## Presentation Title.

### **RUN-EU Researcher Mobility – The Researcher Experience**

After my studies in social and economic sciences I was managing director of the Employment Pact Vorarlberg. The Employment Pact Vorarlberg is a project that translates strategies to combat long-term unemployment into concrete employment policy measures. For 21 years I have been a university lecturer in social and economic sciences, a member of the Faculty of Social Work and Health and a member of the Social Sciences Research Group at the University of Applied Sciences Vorarlberg.

Main teaching areas are: Empirical social research, sociology, family and generations, poverty, interculturality, evaluation and impact research in the Bachelor's and Master's degree programmes in Social Work in Vorarlberg.

My research areas are: Project evaluation and impact measurement nationally and internationally, care and support system, family and generations, homelessness, poverty/wealth research, development of rural areas. In the ComEnt project (headed by Shane OSullivan TUS) I am the Austrian partner together with a colleague. I received a promotion award from the University of Linz and a science award from the Austrian Social Forum, Vienna.

Committee work: curriculum development, policy advice, media work, numerous lectures nationally and internationally, permanent member of the commission for awarding the title of professor of the FHV.

## Abstract

RUN-EU Researcher Mobility – Researcher Experience

**Facts:** 4 week mobility for research staff; Host Institution: TUS Limerick; Applied Social Sciences & Technology; Dates Travelled: 10.10.2022-7.11.2022

**My research interest:** How do older people manage their everyday lives in rural areas in County Limerick?

**Why this interest?** One of the biggest challenges of the next 20-30 years in the EU will be how older people with support and care needs will manage their daily lives in rural areas. Intensive research activities are needed to meet this challenge. The topic Conditions for successful ageing, transnational care work and rural development is part of the RUN-EU research area 7.

### **The main outcomes of this Mobility:**

- Knowledge what rural area in Limerick means and the impact it has on the lives of older people in the region;
- Acquire extensive knowledge of the Care System in Ireland and projects in this field
- Developing networks with providers of support services for older people
- Transfer of knowledge from and to TUS colleagues about social systems in Ireland and Austria and their impact.

The **quality and appropriateness** of the mobility and of the two way **transfer of knowledge** between the researcher and the host and the **quality of the supervision** and of the integration in the team/institution was very high.

**The impact** was not only achieved, but exceeded. My accommodation in Ballygarra made it possible to understand what rural means. Numerous field contacts with older people, social services and discussion of findings with colleagues from TUS provided a very comprehensive insight in a short period of time.

**Synergies for future collaboration could be established.** By integrating the researchers into the research units of the respective universities, the research units are also connected with each other, which will contribute to increased cooperation in the application and implementation of joint research projects.

**Dissemination of the results:** Professional knowledge gained in Ireland will be presented and discussed with local decision makers, colleagues and students in Austria/Vorarlberg.



## Dr. Edit Süle

Associate Professor, System Theory Research Group, Department of Leadership and Marketing, SZE, Hungary



### Presentation Title

#### RUN-EU Researcher Mobility – The Researcher Experience

Edit has over twenty years teaching and research experience in higher education in the field of logistics. She is the head of Supply Chain Management master program at Széchenyi University. Edit holds a PhD degree in Management and Business Administration Sciences. She has been teaching supply chain relevant courses from bachelor to doctoral level, supervising and reviewing doctoral theses. She has been working on digitalization projects of Vehicle Industry Research Center and actively leads the newly established System Theory research group. The research group operates as a Think Tank and bridges researchers from different scientific stages. As engineer and economist has taken part and managed many intralogistics and supply chain related company and research projects for long time. She is a consultant in the area of artificial intelligent based decision aid systems in procurement, intralogistics and distribution. Edit is author of two books with a proven track record in supply chain management domain. She is active member of Hungarian and international scientific and professional institutions. Edit believes in ground-breaking approaches of supply networks in research and practice through new theories, concepts, models and technologies but continuous focus on human.

### Abstract

In the presentation the researcher from Széchenyi University Győr, Hungary and the RUN-EU project leader from the host institution NHL Stenden University of Applied Sciences, the Netherlands share the experience of Research Mission.

The researcher provides insight into the preparation process and the time spent by the research mobility. Former along these questions: what can be the best period for the mobility, how to find partner institution for host, how to find colleagues from the partner institution and how to build and keep contact with them before and during the stay. These questions are not as easy as they seem to be. As the research focus concerned, the researcher main field is supply chain and its coordination, modeling and optimization, she searched for research contacts in supply chain management and related domains. Hybrid reality as her research group area was the other relevant topic connected to the human-machine decision making process and cognitive biases of logistics decisions the researcher wanted to find similar or additional approach. The researcher's main objective was to initiate a research cooperation in a mutually agreed topic and as a result disseminate the outcomes in co-authored publications in high ranked journals. At the end of the research mobility two research topics became the subject of cooperation: (i) cross country analysis of cooperation in last mile delivery sector, (ii) supply network as a complex, sustainable system. There are more experience, furthermore lesson learnt is worth to share but almost the most important is that this four week time is not as long as at the first time can be thought.

## Name

**Dr Michael Nugent**  
**Lecturer in Polymer**  
**Technology, TUS Ireland,**  
**Athlone Campus**



## Presentation Title

### **RUN-EU PhD Programme in Sustainable Polymer Technologies**

Dr. Michael Nugent is a lecturer in the department of Mechanical and Polymer engineering, Technology University of the Shannon (TUS). He has over 28 years of experience in material processing and material characterisation. He has previously worked in industry in both Ireland and UK with industrial experience including medical device validation and quality engineering, project management, new product and process development and polymer processing. He has led numerous industry-supported research projects. He has over 23 teaching years experience from level 6 to level 10. His research interests are in polymers, drug delivery and Nano technology. He has published 11 book chapters and over 60 peer reviewed publications, over 90 conference presentations, 2 invention disclosures, one patent application and one license to the medical device industry. He is presently a principal investigator with APT and currently the supervisor for 5 PhD projects. He is an external reviewer for a number of universities and is a consultant to the medical device industry. Orcid: <https://orcid.org/0000-0002-7469->

## Abstract

The aim of the RUN-EU PhD Programme in Sustainable Polymer Technologies is to help TUS to become a university of the future by strengthening strategic partnerships, promoting European values and identity, and improving the quality and competitiveness of European higher education. To achieve this, it is necessary to design and create programmes that will ensure that students become engaged in exploring, assimilating, and constructing knowledge. The pillars identified for Future Jobs Ireland 2019 are: 1. Embracing Innovation and Technological Change 2. Improving SME Productivity 3. Enhancing Skills and Developing and Attracting Talent 4. Increasing Participation in the Labour Force 5. Transitioning to a Low Carbon Economy. These pillars are relevant in an European context and cognisance is required for these pillars in any programme and in particular with sustainable polymer technologies, these requirements are to the forefront. Additionally increased demand for research personnel are expected to be across all skill levels in the next 10 years, from technicians through to PhD level research leaders. The main aim of the programme is to address the need to provide additional education/skills to the professional engineers/technologists/scientists currently seeking expertise in the polymer sphere at PhD level. This will be achieved by collaboration with industry and the academic partnerships in the RUN-EU network. The presentation will discuss the approach taken, the collaborations involved and the future plans.

## Name

**Patrick Ruane, Special Projects Director, Johnson and Johnson Vision Care, Limerick, Ireland**



## Presentation Title

### **Professional Practice-based Research towards the Digitalisation of Manufacturing**

I have a 1st Class honours degree in Engineering and on the last year of my PhD. I am with Johnson and Johnson over 25 years. I lead the design of high volume automated contact lens manufacturing lines for both JJVC in Ireland and USA. Also have many years of experience in Engineering management, Operations, R&D and Project Management.

## Abstract

Simulation and optimisation approaches have been reviewed, with the aim of using these digitalization technologies to analyse and optimise a tray loader system configuration at Johnson & Johnson Vision Care Ireland. The digital model was derived from a real-world automated manufacturing line and verified/validated against actual line performance data. The model was then integrated with two different optimisation systems namely SimWrapper and an author developed optimization engine using a popular genetic algorithm meta-heuristic approach that uses the fitness of solutions to determine whether or not to evaluate them using the digital model.

This research combined a simulation/digital model (JaamSim) with an optimization engine to provide design/manufacturing engineers a valuable digitalization template/method to optimize the design of automated equipment with the aim of improving line performance. The overall system was designed and developed to demonstrate and evaluate the use of digitalization technologies during the design stage and continuous improvement stage of automated manufacturing lines.

## Name

**Dr Paul Archbold. Director of Sustainable Infrastructure Research Group, TUS, Ireland and Arpan Joshi, postgraduate student, TUS & IPL, Portugal**



## Presentation Title

### **Joint PhD Supervision across the RUN-EU Alliance – Case Study 1**

Arpan Joshi obtained a Masters Degree in Environmental Protection from University of Hohenheim, followed by a Masters Degree in Civil Engineering Construction from IP Leiria in 2020. Arpan is currently employed as a researcher in the Centre for Rapid and Sustainable Product Development (CDRSP) in IP Leiria, Portugal, where his work focuses on research into sustainable materials for construction 3D printing using robots “Kuka and Roboplans”.

Dr. Paul Archbold is a lecturer in the Department of Civil Engineering in TUS, Ireland. He is also the Director of the Sustainable Infrastructure Research Group in TUS. Paul has extensive experience in research and has supervised masters and PhD students in the area of civil engineering.

His research specialises in structural dynamics and innovative construction materials. Specifically, his main research interests are pedestrian loading of structures, composite materials in construction and concrete technology, with a focus on alternative constituent and reinforcing materials for concrete.

Paul is a member of Technical Committees for National Standards Authority of Ireland and is currently a MC member of a new COST Action.

## Abstract

Arpan Joshi is a researcher at CDRSP (Center for Rapid and Sustainable Product Development) in IP Leiria. Through RUN-EU, Arpan has been successful in securing funding for a research project, which will be carried out under joint supervision of Dr. Paul Archbold (TUS, Ireland) and Prof. Florindo Jose Mendes Gaspar of IP Leiria (Portugal). The project is entitled “Sustainability of 3D printing for building construction using innovative and ecological materials”

This presentation presents the early stages of this work, viewed through two prisms. Initially, the technical knowledge developed through the early stage research is presented by the student. This work is aimed at developing a sustainable concrete suitable for 3D printing and examines the potential for use of forest biomass as a partial cement replacement to reduce carbon emissions.

Secondly, the experiences of development and joint supervision of a research project, including remote supervision are discussed. This presentation describes the evolution of the collaborative project and relates the experience of a new supervision team.

## Name

**Dr. João Vilaça, Head of Research, IPCA, Portugal**



## Presentation Title

### **Joint PhD Supervision across the RUN-EU Alliance – Case Study 2**

João L. Vilaça graduated in Industrial Electronics and Computers at University of Minho, Portugal in 2004. In 2008, he obtained the PhD degree in Industrial Electronics from the University of Minho, Guimarães, Portugal. From 2009, he has been at the Technology Department of the School of Technology, Polytechnic Institute of Cávado and Ave - IPCA, Portugal, where he is Associate Professor. From 2009 to 2018, he was also researcher at the ICVS/3B's Laboratory, university of Minho, Portugal. In February 2018, he joined the 2Ai as researcher, where he is currently its Director. Since 2021 he is pro-president for R&D at IPCA. João direct his daily efforts towards challenge driven research, aiming to solve practical problems faced by clinicians and surgeons in their daily practice. His research work focuses on augmenting the information at the disposal of the physician and potentiating its precision. To this end, he aims to integrate multi-modality image sources combined with machine learning methodologies and personalized models to improve clinicians' scope of the patient's anatomy, as well as providing accurate diagnosis and navigation tools. His work is focused in the areas of medical imaging processing, image tracking, deep learning, artificial intelligence and collaborative robots, with over 125 indexed papers and 10 patents in the field. He found and co-chair the IEEE conference on Series Games and Applications for Health. More than 100 students have obtained the degree under his supervision, including PhD, master and undergraduate degrees. He has been awarded competitive funding of over €4 million as PI. In projects that he was or is involved has always favoured the development of prototypes that result in 10 patents, one spin-off company - iSurgical3D, and 2 knowledge transfer to international medical companies.

## Abstract

The Applied Artificial Intelligence Laboratory - 2Ai/IPCA pursues applied research advances on artificial intelligence (AI), namely in intelligent systems, human-AI collaboration, and robotics for health. The scientific vision for this research work focusses on augmenting the knowledge, information, and interaction at the disposal of agents, robots and physicians aiming to improve medical diagnoses, improve telemedicine, assist in repetitive medical tasks and enhance smart surgical rooms with robots, natural user interfaces and augmented reality. This cross-cutting themes and multi-disciplinary interface fosters the generation of value through the development of innovative products and smart services, resulting from internationally highly competitive research with strong focus on knowledge transfer. In this presentation an overview of the 2Ai R&D unit PhD projects with companies will be provided, and an insight into the new join PhD projects with TUS.

## Name

**Dr. Norbert Kovacs, Head of  
the Smart Project Consulting  
Ltd, Hungary**



## Presentation Title

**How Engagement with RUN-  
EU can support Business  
Development**

Norbert Kovacs Ph.D., economist, associate professor at Széchenyi István University and CFO of SPCI Ltd (spin-off company), Hungary, Győr

17 years experience in teaching, training, coaching, and in statistical modeling,

8 years of company management experience;

Author of 105 articles and 5 books.

## Abstract

Product development is successful if it is possible to build a profitable business on it. We review the milestones and resource requirements of the process to clarify how effective international cooperation supports the success of the process.

## Name

**Frank Doyle, Programme Director, Master's of Engineering in Digitalisation of Manufacturing, TUS, Ireland**



## Presentation Title

**RUN-EU Transfer Pathways to PhD – pre-consultation process with SZE doctoral programme**

Lecturer with TUS Midwest, Senior Researcher at the IDEAM Research Institute in TUS and Co-Ordinator of the Masters in Digitalisation of Manufacturing Programme.

Lectures in the Electrical Department and Supervises Industry based Researchers at Masters level.

Works in collaboration with Industry in the plastics, medical device and precision engineering sectors in the development of sustainable energy solutions through digitalisation of equipment and processes for manufacturing.

Research work has focused on energy efficiency in manufacturing with the goal of effecting behavioural change for production optimisation and carbon reduction.

Areas of Interest: Energy Efficiency Monitoring and Control, Applied Research with Industry, Digitalisation of Manufacturing.

## Abstract

My current Academic and Research experience and why this programme is a suitable opportunity

Examining the journey through the SZE doctoral programme pre-consultation process.

Preparation for the comprehensive exam, making the connection between theoretical background topics from business administration and the practice based research to be carried out.

The proposed body of work to be undertaken and plans for fulfilling the doctoral programme requirements.

## Name

**Ms. Tania Marsh, Research Integration Project Manager,  
TUS, Ireland**



## Presentation Title

**The Application and Accessibility of Open Science to Business and**

Tania Marsh is the Research Integration Project Manager, leading the integration of a Research Information Management System (RIMS) for TUS. Tania has over twenty years' experience in a range of library roles, including the role of Scholarly Communications Librarian. She has lead library engagement with research and researchers, developed training, research guides and provided individual, research group and faculty supports in academic publishing, open access, bibliometrics, alternative metrics, research impact and scholarly identity. Tania is an Open Science Ambassador for the RUN-EU+ Project, a member of the Library Association of Ireland Open Scholarship Group and an Altmetrics Ambassador

## Abstract

Open Access (OA) refers to the removal of major obstacles (e.g. Article paywalls) to accessing, sharing and re-using the outputs of scholarly research. The rationale is that the research process is facilitated by ensuring rapid and widespread access to research findings. OA is more equitable compared to traditional scholarly publishing, as it allows anyone with an internet connection to access, read and build upon the most up-to-date scientific literature. It has become widely accepted in the scientific community that OA promotes knowledge and enables innovation.

Research funding comes from multiple sources, including national funding agencies and industries, as well as private funders. Much primary research takes place outside of academia, inside R&D departments; if R&D in the private sector can access more research findings, this will ultimately benefit the public interest as well. Appropriate licensing and accessibility can influence re-use through commercialisation, and can empower citizens and industry to recognize great economic benefits.



## Name

**Dr. Virve Kallioniemi-Chambers, Education Development Specialist, HAMK, Finland**



## Presentation Title

### **RUN-EU PLUS Researcher Career Development Programme**

Dr Virve Kallioniemi-Chambers works as the Education Development Specialist in the global education team at the School of Teacher Education in Häme University of Applied Sciences in Finland. She has worked for over 20 years in various teaching, research and development tasks in the field of Higher Education. In her doctoral thesis she studied the project-based pedagogical collaboration between the traditional university, the university of applied sciences and other kinds of organisations. She has written in collaboration with other researchers' articles and reports on doctoral education and the collaboration between the academia and non-academic context. She has supervised several BA theses in education, taught Marie Curie ITN doctoral students and acted also as the supervisor for one Marie Curie ITN doctoral candidate. She has been the Project Manager in several EU funded (e.g. Horizon 2020 programmes) research projects. Both the global and European perspective on the development of university education and research practices has been at the heart of her work.

## Abstract

It is acknowledged that researchers require continuous training in multiple facets of research activity including disciplinary knowledge and concepts, research methods, research ethics, Intellectual Property Rights issues, data analysis methods, digital tools, Open Science, etc. There is also evidence that the research process is becoming less linear, more collaborative and more multidisciplinary with a larger diversity of outputs ( see EU report Towards a Reform of the Research Assessment, 2021 ). In this presentation you will hear about the Researcher Career Development Programme that is available to all RUN-EU researchers and is designed to allow participation at any stage during career development. The Programme pays attention on the researchers' career paths also outside academia, on research collaboration and on the research skills required in different research environments. The training supports researcher to plan own career path in a more systematic way whether the career orientation is focusing more on academic or non-academic environment. On an individual level, the training programme acts as one step in a researcher's own educational and learning journey. In this presentation there will be given also some examples of the implemented RUN-EU PLUS workshops and the feedback gathered from them.

## Name

**Dr. Markus Preißinger, Head  
of Research, FHV, Austria**



## Presentation Title

**Open Forum Discussion –  
How do academia and busi-  
ness/societal organisations**

Markus is head of research at FHV – Vorarlberg University of Applied Sciences. He is also head of the research center energy at FHV and leader of the Josef Ressel Centre for Intelligent Thermal Energy System. His background is a classical engineering study course (diploma) with a PhD in thermal energy systems . Markus holds the illwerke vkw Endowed Professorship for Energy Efficiency.

## Abstract

The short impulse should give an answer on the question, how academia and business/societal organisations find each other and create meaningful engagement opportunities. The presenter will present two challenges from his research career to open the discussion to anyone

## Name

**Dr. João Vilaça, Head of Research, IPCA, Portugal**



## Presentation Title

### **Introduction to the RUN-EU PLUS Cloud of Knowledge Portal**

João L. Vilaça graduated in Industrial Electronics and Computers at University of Minho, Portugal in 2004. In 2008, he obtained the PhD degree in Industrial Electronics from the University of Minho, Guimarães, Portugal. From 2009, he has been at the Technology Department of the School of Technology, Polytechnic Institute of Cávado and Ave - IPCA, Portugal, where he is Associate Professor. From 2009 to 2018, he was also researcher at the ICVS/3B's Laboratory, university of Minho, Portugal. In February 2018, he joined the 2Ai as researcher, where he is currently its Director. Since 2021 he is pro-president for R&D at IPCA. João direct his daily efforts towards challenge driven research, aiming to solve practical problems faced by clinicians and surgeons in their daily practice. His research work focuses on augmenting the information at the disposal of the physician and potentiating its precision. To this end, he aims to integrate multi-modality image sources combined with machine learning methodologies and personalized models to improve clinicians' scope of the patient's anatomy, as well as providing accurate diagnosis and navigation tools. His work is focused in the areas of medical imaging processing, image tracking, deep learning, artificial intelligence and collaborative robots, with over 125 indexed papers and 10 patents in the field. He found and co-chair the IEEE conference on Series Games and Applications for Health. More than 100 students have obtained the degree under his supervision, including PhD, master and undergraduate degrees. He has been awarded competitive funding of over €4 million as PI. In projects that he was or is involved has always favoured the development of prototypes that result in 10 patents, one spin-off company - iSurgical3D, and 2 knowledge transfer to international medical companies.

## Abstract

A digital knowledge hub portal equipping researchers with a combination of pedagogy and research skills will be set-up. This portal will gather contributions from all the partners of the consortium. The archive portal will include different resources (texts, policy documents, informative and training materials, videos, etc) focusing on a variety of topics, namely: resilience and independent working, communication skills, networking and influencing skills, prizes and recognitions, education, areas of interest, expertise project management, personal development, strategic career planning, time management, writing and publishing skills.



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# ICARUS 2

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