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COMPETITIVE PROJECTS

Institute for Innovation and Knowledge Management (IIK)

ATTRACT2

Breakthrough Innovation Programme for a Pan-European Detection and Imaging Eco-System - Phase-2

PRINCIPAL INVESTIGATOR:

Jonathan Wareham

PERIOD:

February 2021 – January 2025

FUNDING BODY:

European Commission

REFERENCE:

GA 101004462

COORDINATING INSTITUTION:

CERN

RESEARCH TEAM:

Angelo Romasanta, Gozal Ahmadova, Laia Pujol, Lotta Hassi, Sonia Navarro, Karen Yalta, Laura Castellucci, Victoria Cochrane

SUMMARY:

The ATTRACT Phase-2 project aims to consolidate a European innovation ecosystem focused on breakthrough Detection & Imaging technologies. This ecosystem is backboned by three types of actors: National and European RIs, Industrial organizations and their associated communities. Although these actors understand and practice innovation under different rationales, the goal of ATTRACT Phase-2 merges their common aim for overcoming the innovation "Valley-of-Death".

Departing from the success of the ongoing project ATTRACT Phase-1, this project will focus and fund the proven and most promising breakthrough technology concepts from the previous phase showing a strong potential for scientific, industrial and societal applications. ATTRACT Phase-2 is conceived as an instrument to further support their development and substantially raise their Technology Readiness Level towards the market.

ATTRACT Phase-2 is also scaling up the opportunities for young entrepreneurs with respect to the previous phase. Following from ATTRACT Phase-1, this project will provide up to 400 young innovators the opportunity, methodologies and mentoring for developing novel concepts and prototypes of technological solutions addressing Societal Challenges inspired and in collaboration by the detection and imaging technologies developed within the funded projects.

Additionally, ATTRACT Phase-2 will deliver a first of a kind Socio Economic Study of an innovation ecosystem in the making, realised by top experts and addressing different points of view and practices. ATTRACT Phase-2 will also undertake serious efforts for exploring the possibility of blending public and private financing in an open dialogue with their respective stakeholders in order to provide future models to streamline innovation funding.

More info: https://attract-eu.com/; https://cordis.europa.eu/project/id/101004462

Innovación sistémica de servicio: reconfiguración de procesos productivos y proposiciones de valor en ecosistemas de negocio complejos

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PRINCIPAL INVESTIGATOR:

Carlos Carrasco Farré

PERIOD:

October 2020 – September 2024

FUNDING BODY:

MICINN-MCIU

REFERENCE:

PRE2019-091668

SUMMARY:

3-year Doctoral Scholarship "Formación Personal Investigador-FPI" awarded to Carlos Carrasco to carry out PhD research within the framework of the research project SERSTEMICS (PGC2018-101022-A-100)

CS3MESH4EOSC

Interactive and agile/responsive sharing mesh of storage, data and applications for EOSC

PRINCIPAL INVESTIGATOR:

Jonathan Wareham

PERIOD:

January 2020 – December 2022

FUNDING BODY:

European Union - H2020 Programme

REFERENCE:

GA 863353

COORDINATING INSTITUTION:

CERN

RESEARCH TEAM:

Angelo Romasanta, Gozal Ahmadova

SUMMARY:

Cloud storage services for synchronisation and sharing are an indispensable element of the daily workflow routine, allowing research groups, scientists and engineers to share, transfer and synchronise data in simple but powerful ways. The services are operated and funded by major e-infrastructure providers such as the National Research and Education Networks and major research institutions. However, these services remain largely disconnected from each other. The EU-funded CS3MESH4EOSC project will integrate the existing application ecosystem by promoting vendor-neutral application programming interfaces and protocols. State-of-the-art connected open-source infrastructure will provide researchers with a broader access to services and boost collaborative research.

Esade's role in the project focusses on analysing the evolution of user communities and architecture of the CS3 consortium to identify key challenges and opportunities related to the end-user adoption, as well as the assessment of business impact. Recent cases from Open Source demonstrate how- and why-profit-seeking entities make private contributions to public goods. However, the unique context of a federated scientific computing cloud could potentially exacerbate conflicts of interest, particularly economic outcomes. The team will identify and diagnose the financial impacts as well as offer normative guidelines towards their effective management.

More info: https://cs3mesh4eosc.eu/; https://cordis.europa.eu/project/id/863353

SERSISTEMICS

Service systemic innovation: Reconfiguring production processes and value propositions in complex business ecosystems

PRINCIPAL INVESTIGATOR:

Ivanka Visnjic

PERIOD:

January 2019 – September 2022

FUNDING BODY:

MICINN-MCIU

REFERENCE:

PGC2018-101022-A-100

RESEARCH TEAM:

Jonathan Wareham, Alex Makarevich, Francesc Pardo

SUMMARY:

Product-service innovation (PSI) is considered a systemic innovation that affects the business ecosystem as a whole, being one of its determinants the need that companies, mainly manufacturers, had to escape from the traditional competitive strategies based on price. PSI is closely related to the emergence of new digital business models that have allowed companies to incorporate final consumers demand for developing their portfolio of products and services. Therefore, PSI is closely associated to vertical integration strategies characteristic of systemic innovations.

Traditional innovation models are highly linked to the development of products. The stages of launching a product begin on product research, design and development, followed by production and use stages. Service innovation processes are diametrically opposed. Service innovation begins with the design stage preceded by a production and joint use stage, and continues with a stage in which the services are produced and delivered simultaneously. The need to adapt their process for developing product and service innovations simultaneously leads organizations to consider what is the best way to develop PSI, both from the analysis of the organization of production, as to the decision of developing them internally, through alliances, or by incorporating from external suppliers.

PSI, by the inherent characteristics of services and the crucial role played by the customer, has become a strategic option for companies to achieve a dominance position within the business ecosystem, not only in Business-to-Business relationships (B2B), but also with the last link of the value system, that is with final customers. Therefore, this project analyzes the relevance of systemic service innovations, its impact on the configuration of companies' production processes organization, the role played by new product-service business models and new value propositions for obtaining competitive advantage, and the achievement of dominance position and greater income generation in the business ecosystems where firms operate.

ATTRACT

Breakthrough innovation programme for a pan-Euroepan Detection and Imaging ecosystem

PRINCIPAL INVESTIGATOR:

Jonathan Wareham

PERIOD:

August 2018 – November 2020

FUNDING BODY:

European Union - H2020 Programme

REFERENCE:

GA 777222

COORDINATING INSTITUTION:

CERN

RESEARCH TEAM:

Laia Pujol, Anna Alsina, Lotta Hassi, Jordi Vinaixa, Luisa Alemany, Angelo Romasanta

SUMMARY:

Turning scientific breakthrough technologies in the field of imaging, detection and computation into products and services is the goal of the EU-funded ATTRACT initiative. The ATTRACT Phase-1 project proposes a new collaboration paradigm aligned with the 'Open Science, Open Innovation and Open to the World' philosophy. Its objective is the identification and initial development of breakthrough detection and imaging technology concepts for expanding fundamental research frontiers and suitable for future industrial upscaling for novel applications and business. It promotes the involvement of national and pan-European Research Infrastructures and their associated research communities, industrial organizations (especially SMEs) and innovation and business specialists. It proposes a co-innovation approach in which scientific and industrial communities jointly pursue and generate breakthrough concepts in close and equal partnership.

The project implementation starts with the launch of an Open Call by the project consortium for €17 million of financial support to Third-Parties. 170 breakthrough technology concepts will receive €100,000 of seed funding each ("lump sum") to develop the concepts further during one year. The funded projects will then present their results in a Final Assessment Conference. The ATTRACT consortium members provide business assessments to the funded project teams to enhance awareness of future commercial applications. Furthermore, two pilots based on design thinking methodologies will be run for/with interdisciplinary master level students, aimed at discovering and generating social value applications inspired by the technologies of the funded projects.

More info: https://phase1.attract-eu.com/; https://cordis.europa.eu/project/id/777222

Study on open science: monitoring trends and drivers

PRINCIPAL INVESTIGATOR:

Laia Pujol

PERIOD:

December 2017 – December 2019

FUNDING BODY:

European Union - Tender

REFERENCE:

LC-00672185

COORDINATING INSTITUTION:

Lisbon Council

RESEARCH TEAM:

Jonathan Wareham

SUMMARY:

The Lisbon Council together with Esade and the Centre for Science and Technology Studies (CWTS) at Leiden University, tracked trends for open access, collaboration and transparent research methods throughout the European Union. The project culminated in 20 case studies, an online dashboard, and Study on Open Science: Monitoring Trends and Drivers, the final report. Elsevier provided additional market data as a subcontractor.

Visit the Open Science Monitor website

Download Study on Open Science: Monitoring Trends and Drivers

Mobility to Georgetown University

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PRINCIPAL INVESTIGATOR:

Laia Pujol

PERIOD:

September 2017 – November 2017

FUNDING BODY:

ACM

REFERENCE:

ACM2016_Movilidad_10

SUMMARY:

3-month mobility scholarship awarded to Laia Pujol.

Institute for Innovation and Knowledge Management (IIK)

Agència de Gestió d'Ajuts Universitaris i de Recerca
AGAUR

PRINCIPAL INVESTIGATOR:

Jonathan Wareham

PERIOD:

January 2017 – September 2021

FUNDING BODY:

AGAUR

REFERENCE:

2017 SGR 1453

RESEARCH TEAM:

Alfons Sauquet Rovira, Eduard Bonet Guinó, Henry Chesbrough, Esteve Almirall Mezquita, Maria Elena Bou Alameda, Ivanka Visnjic, Kyriaki Papageorgiou, Laia Pujol Priego, Alexey Makarevich, Xavier Ferras

SUMMARY:

The aim of these grants from the Catalan Government is to promote the activities of research groups that allow to strengthen the scientific, economic and social impact of research, as well as promote its international projection.

INSPIRE

INtegrated Support of oPen Innovation pRofessionalization initiative

PRINCIPAL INVESTIGATOR:

Wim Vanhaverbeke

PERIOD:

April 2016 – July 2019

FUNDING BODY:

EU H2020

REFERENCE:

691140

RESEARCH TEAM:

Victoria Cochrane

SUMMARY:

INSPIRE aimed to thoroughly investigate how OI is managed and organised in SMEs in order to leverage and expand the existing scattered initiatives and professionalize their services. The project worked to understand in depth good practices of OI in SMEs across Europe, including the barriers they experience, the critical success factors and the open innovation 'pathways' they follow. Good practices were identified in all varieties of SMEs in terms of economic context, innovation trajectory (e.g. both high-tech and low-tech SMEs) and stage of lifetime. The understanding of good practices allowed the consortium to design, develop and validate an Integrated Toolbox for OI in SMEs to enable their professional management in various kinds of open innovation initiatives (e.g. facilitated by large corporations, private-public partnerships). The Toolbox includes good practices, indicators and management modules to support the internal innovation activities of an SME and their interaction with OI partners.

More info: https://cordis.europa.eu/project/id/691440

Marie Curie IEF- INNOACT- Innovation in Action

PRINCIPAL INVESTIGATOR:

Kyriaki Papageorgiou

PERIOD:

March 2014 – December 2016

FUNDING BODY:

EU FP7

REFERENCE:

624717

SUMMARY:

INNO-ACT brings sociocultural anthropology and innovation studies together to tackle the following interrelated questions: (i) How did innovation arise to its current prominence, particularly in the European Union? (ii) What are the different meanings, discourses, and values used by different actors when referencing innovation? and (iii) Under which circumstances does innovation emerge and make a positive difference to society as a whole? My project engages systematic information search and retrieval, and employs ethnographic research methods to conduct fieldwork among innovators and innovation professionals in different settings. By interweaving the largely neglected anthropological literature and novel approaches for studying the contemporary, INNO-ACT expects to advance the current scholarship of innovation. Based on the epistemological and empirical material generated by the study, INNO-ACT aims to generate concrete recommendations in order to assist the design of future actions.

More info: https://cordis.europa.eu/project/id/624717

ECIM

Europe Cloud marketplace for Intelligent Mobility

PRINCIPAL INVESTIGATOR:

Esteve Almirall

PERIOD:

January 2014 – June 2016

FUNDING BODY:

EU CIP

REFERENCE:

621058

SUMMARY:

The aim of ECIM was to develop a state-of-the-art solution that combines the strong cloud capabilities of an existing CIP cloud-based platform, EPIC, with new functionalities that facilitate the easy migration of existing city services and innovative creation of new ones. Pilots in Barcelona, Paris, and Brussels, and a proof of concept in the Birmingham region validated the ECIM solution by 1) submitting existing services to the platform 2) engaging citizens and SMEs to co-create new services and 3) demonstrating cross border interoperability by implementing these new services in their own areas.

More info: https://cordis.europa.eu/project/id/621058

SSL-ERATE

Accelerate Solid State Lightning Innovation for Europe

PRINCIPAL INVESTIGATOR:

Wim Vanhaverbeke

PERIOD:

November 2013 – October 2016

FUNDING BODY:

EU FP7

REFERENCE:

619249

RESEARCH TEAM:

Luca Del Viva

SUMMARY:

The aim of SSL-erate was to accelerate the uptake of high-quality SSL technology in Europe by means of open innovation with and by bringing validated information to all relevant stakeholders. A coordinated European effort is required to address the European societal challenges (in particular health & quality of life in an ageing society, energy consumption and resource efficiency), to resolve the specific challenges of the Lighting industry as noted in the results of the Green Paper "Lighting the Future" consultation (notably: poor SSL quality, lack of information and awareness among citizens) and to enable lighting solutions with a societal and environmental sustainability perspective, leading to a future in which Europe evolves to the global leadership in SSL systems and solutions. The lighting industry is highly fragmented. As a consequence of this the innovation speed and success rate have been too low and the benefits that we all expect from better lighting solutions, do not sufficiently materialize. To overcome this fragmentation, a collaborative way-of-working, using open-innovation and smart specialization principles, will be taken as the guiding approach.

More info: https://cordis.europa.eu/project/id/619249

Study on Social Innovation Digital Agenda

PRINCIPAL INVESTIGATOR:

Esteve Almirall

PERIOD:

May 2013 – November 2014

FUNDING BODY:

Tender DG CoNECT

REFERENCE:

30-CE-0531673/00-86

SUMMARY:

This study was led by Nesta (UK) who led a large research project into Digital Social Innovation (DSI). The project sought to define and understand the potential of DSI, to map the digital social innovators, their projects and networks, and to develop recommendations for how policymakers, from the EU to city level, can make the most of DSI. The report can be found in the following link.

More info: https://media.nesta.org.uk/documents/dsireport.pdf

SUNSHINE

Smart UrbaN Servlces for Higher eNergy Efficiency

PRINCIPAL INVESTIGATOR:

Esteve Almirall

PERIOD:

February 2013 – January 2016

FUNDING BODY:

EU CIP

REFERENCE:

619249

SUMMARY:

SUNSHINE – "Smart UrbaN Servlces for Higher eNergy Efficiency" delivered innovative digital services, interoperable with existing geographic web-service infrastructures, supporting improved energy efficiency at the urban and building level. Specifically, the project produced a smart service platform accessible from both a web-based client and from an App for smartphones and tablets. The SUNSHINE technology will be eventually piloted in the context of 8 sites across 4 countries

More info: https://cordis.europa.eu/project/id/325161

APPS4EU

Apps for Europe - Turning Data into Business

PRINCIPAL INVESTIGATOR:

Esteve Almirall

PERIOD:

January 2013 – June 2015

FUNDING BODY:

EU CIP

SUMMARY:

Apps for Europe - turning Data into Business created a thematic network to organise competitions for using open data, stimulate the winners to start business ventures, and maximise the socio-economic impact and overall benefits of open data. It contributed to the open data policy of the Commission and stimulated the reuse of public sector information from governmental, scientific and cultural sources. The project developed a new, transferable and tested programme, in order to increase the business knowledge and potential for success of participants in open data competitions: the Business Lounge.

More info: https://cordis.europa.eu/project/id/325090

COLLAGE

Creativity in Learning through Social Computing and Game mechanics in the Enterprise

PRINCIPAL INVESTIGATOR:

Esteve Almirall

PERIOD:

October 2012 – September 2015

FUNDING BODY:

EU FP7

REFERENCE:

318536

RESEARCH GROUP:

Núria Agell, Victoria Cochrane

SUMMARY:

The goal of the COLLAGE project was to design, develop and validate an innovative Social Creativity Service-Set to support the synergistic interlinking of learning processes, resources and systems with social computing services for inspiring learners, social affinity spaces for leveraging expression and exploration, and social game mechanics for supporting social evaluation and appreciation of creative behaviour. Creative thinking and activities are motivated by rewards, credits, and acknowledgements by others (e.g. peers). Service: Influencing Behaviours). Through games, we can support evaluation of innovative ideas and appreciation of participation in creative activities without hindering social interaction and exposure to challenging situations and experimentation. The COLLAGE service set employed advanced game mechanics for leveraging social evaluation and appreciation of creative behaviour in the learning process. The gaming infrastructure provided challenging situations to learners, empowering them to develop innovative approaches on specific learning topics with added value in their environment.

More info: https://cordis.europa.eu/project/id/318536

CitySDK

Smart City Service development kit and its applications pilots

PRINCIPAL INVESTIGATOR:

Esteve Almirall

PERIOD:

January 2012 – June 2014

FUNDING BODY:

EU CIP

SUMMARY:

The project objective was to produce three large-scale pan-European smart city service pilots in the eight partner cities. The pilots are in the domains of smart mobility, smart participation and smart tourism. A combination of city organisations' leadership, collaboration between the cities, and a large amount of partners' relevant existing services, interfaces, software, practices and standards in these domains are the key enabler for this broad approach.

More info: https://cordis.europa.eu/project/id/297220

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