

COMPETE 2020

Programa Operacional Competitividade e Internacionalização

Entidade: Universidade de Aveiro

Designação: Para um Observatório de Design em Portugal: Modelos, Instrumentos, Representação e Estratégias

Objetivo: Reforçar a investigação, o desenvolvimento tecnológico e a inovação

Cofinanciado por:



UNIÃO EUROPEIA
Fundo Europeu
de Desenvolvimento Regional

DOMÍNIOS PRIORITÁRIOS

Identifique o/os Domínio/os Prioritário/os em que a candidatura se enquadra ou está relacionada

Domínios prioritários de especialização inteligente (ENEI)

Nº	Domínio Prioritário	Principal Área de Atuação
1	Indústrias Culturais e Criativas	Arquitetura e design
2	Indústrias Culturais e Criativas	TIC aplicadas às Indústrias Criativas (conteúdos digitais, software educacional, jogos,...)
3	Tecnologias de Informação e Comunicação	TIC para Acesso aberto ao conhecimento

Fundamentação (Português) - Nº 1

Ao propor desenvolver um conhecimento aprofundado do ecossistema do design em Portugal pretende-se abordá-lo nos três níveis que o constituem (inscrevem-se algumas das questões para as quais não existe um conhecimento sistematizado): (1) OFERTA: que design se faz em Portugal, quem faz design em Portugal, como aceder ao design português; que volume de negócios; (2) PROCURA: quem compra design em Portugal, quem incorpora design; o que é que procura; que relação custo/benefício existe; que obstáculos existem ao incremento da procura ou da integração; (3) CULTURA [do design]: quem ensina design, quantos estudam, se formam, taxas de emprego; que investigação se faz; quem faz; que impacto tem na indústria e na sociedade; quem representa a actividade de design, quem lhe dá visibilidade; quem o critica; que políticas públicas promovem o seu desenvolvimento enquanto factor de inovação; que entidades têm impacto neste ecossistema. A recolha, análise, interpretação e representação destes dados (big data) e informação sobre o design em Portugal, assim como a sua comparação com as práticas internacionais, serão, desde logo, relevantes para a melhoria da educação e, por consequência, nas práticas profissionais da área no nosso país. Por outro lado, ao propor uma observação participativa e distribuída pelo território português geram-se, simultaneamente, oportunidades para uma investigação e prática em design mais próximas do tecido socioeconómico.

Fundamentação (Português) - Nº 2

Um dos objectivos fundamentais do projecto consiste na investigação específica em design de informação, nomeadamente na visualização dinâmica e interativa das interpretações decorrentes dos dados recolhidos e analisados no processo de observação do ecossistema do Design Português. Este projecto é, em si mesmo, um projecto de informação e comunicação e os artefactos digitais (infografias, website) que dele irão resultar serão a tradução do potencial do Design enquanto atividade de mediação cultural da tecnologia.

Fundamentação (Português) - Nº 3

A natureza abrangente, inclusiva e participativa deste projeto está espelhada, quer na diversidade das instituições e membros na sua origem e coordenação, quer pela procura do envolvimento de todas as escolas nacionais ligadas ao ensino superior na área do design. Esta abordagem será reforçada pelo recurso intensivo à construção de narrativas e representações dinâmicas e interactivas baseadas nos meios tecnológicos atualmente disponíveis, permitindo potenciar um espaço de debate crítico socialmente partilhado. Sendo um projecto permeável pela sua prática à experimentação de novos métodos de extracção de dados, tratamento quantitativo e de representação, constituir-se-á igualmente com um repositório aberto à pesquisa sobre todos os resultados gerados.

Domínios prioritários de especialização inteligente (EREI) - Norte

Nº	Domínio Prioritário	Principal Área de Atuação (preencher se aplicável)

Fundamentação (Português) - N°**Domínios prioritários de especialização inteligente (EREI) - Centro**

N°	Domínio Prioritário	Principal Área de Atuação

Fundamentação (Português) - N°**Domínios prioritários de especialização inteligente (EREI) - Lisboa**

N°	Domínio de Especialização	Domínio Prioritário	Principal Área de Atuação
1	Meios Criativos e Indústrias Culturais	Valorização económica da produção cultural	Estabelecimento de plataformas colaborativas, construindo plataformas mistas que integrem instituições públicas e privadas
2	Meios Criativos e Indústrias Culturais	Formação	Aposta na qualificação do setor cultural e criativo, e intercâmbio entre o sistema de formação e o de produção direta
3	Meios Criativos e Indústrias Culturais	Formação	Capacitação dos agentes e espírito de orientação clara para o mercado

Fundamentação (Português) - N° 1

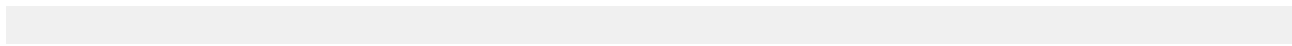
O objectivo principal de um Observatório do Design Português será o de recolher dados, sistematizar informação e desenvolver investigação estratégica sobre o ecossistema do design que torne possíveis e sustente decisões relevantes sobre iniciativas empresariais, institucionais ou de política pública que se relacionem com o design português. Neste sentido a visibilidade acrescida da dimensão da oferta dentro deste ecossistema abre oportunidades directas à valorização económica da actividade profissional do design e das empresas que a ele recorrem. Por outro lado, a estratégia participativa e distribuída que se propõe para o Observatório fará com que cada núcleo da REDE (a constituir, inicialmente, por escolas públicas e privadas) se possa transformar numa plataforma colaborativa de vários agentes socioeconómicos locais em torno da promoção ou da integração do Design.

Fundamentação (Português) - N° 2

No contexto actual de globalização e inerente necessidade de mecanismos ágeis e flexíveis de pensamento e acção, adaptáveis a circunstâncias cada vez mais imprevisíveis, a formação no âmbito das Indústrias Criativas será um activo a valorizar como resposta a uma volatilidade real. A prática do projecto (que por definição etimológica aponta para o futuro) permitirá adquirir essa plasticidade e resiliência, garantindo não apenas a sobrevivência quando sob condições extremas, mas a reinvenção dos mercados através de mecanismos individuais (e por isso únicos) de produção. Identificar na REDE as melhores práticas, documentá-las e extrapolá-las será assim um contributo de inegável importância.

Fundamentação (Português) - N° 3

Um dos pontos centrais na discussão proposta pelo projecto é a relação do design e do seu ensino com o contexto, e particularmente com o mercado. Sendo um projecto participado por escolas das mais diversas zonas do território nacional, e através da estratégia de adequação da discussão às particularidades locais, dirige-se não apenas ao mercado, mas também aos mercados: dos consumidores, das empresas e suas necessidades locais. O projecto procura, independentemente dos resultados e sugestões metodológicos a testar, a melhoria da orientação do ensino e da investigação em design para a realidade nacional e para as realidades específicas de cada região.



Domínios prioritários de especialização inteligente (EREI) - Alentejo

Nº	Domínio Prioritário	Principal Área de Atuação (preencher se aplicável)

Fundamentação (Português) - Nº

Domínios prioritários de especialização inteligente (EREI) - Algarve

Nº	Domínio Prioritário	Principal Área de Atuação

Fundamentação (Português) - Nº

Sumário (Português)

Esta candidatura pretende viabilizar, ao nível dos recursos materiais e humanos, o desenvolvimento de um Observatório do Design Português e investigar novas formas de questionar, interpretar, visualizar e interagir com essa informação.

Mas esta iniciativa só terá sentido se se tornar uma agente de transformação das realidades locais e nacionais que constituem o ecossistema do Design Português, o que implica uma abordagem participativa no desenho dos argumentos, narrativas e representações que possam informar a decisão.

Relevância

A relevância deste projecto assenta nos seguintes pressupostos: (a) com o desaparecimento do Centro Português de Design, em Maio de 2013, não existe nenhum instrumento de política pública que sirva de interface entre o ecossistema do design nacional e os tecidos económico, social e institucional portugueses, que permita reconhecer e dar visibilidade às suas manifestações de excelência tornando-o sucessivamente mais operativo enquanto factor de inovação e desenvolvimento; (b) existem 34 escolas do ensino superior (universitárias e politécnicas, públicas e privadas) que oferecem formação superior e investigam em Design (cobrindo praticamente todo o território nacional) e que, pela natureza da sua missão, se relacionam com a comunidade onde se inserem; (c) os membros da equipa associada a este projecto lançaram a iniciativa REDE - Reunião das Escolas de Design - que pretende juntar todas estas instituições para debater os desafios do ensino e da investigação nesta disciplina e cujo primeiro encontro está agendado para o início do próximo ano lectivo (Set/Out de 2017).

Objectivos

A equipa associada a este projecto agrega membros de diferentes Escolas com experiência e interesses científicos em diversas áreas (museologia, design gráfico e industrial, teoria do design, interação, design de informação) garantindo as valências essenciais à sua concretização que implica: (a) definir um modelo para o ecossistema atual do design português; (b) construir e calibrar os instrumentos para uma observação efectiva desse modelo e da sua evolução ao longo do tempo; (c) definir as estratégias e a estrutura organizacional que viabilizem, de forma sustentada, um Observatório do Design Português com base na REDE de instituições do ensino superior que desenvolvem formação e investigação nesta área do conhecimento; (d) proceder à recolha de dados, à sua análise, interpretação (do ponto de vista do design) e representação, desenvolvendo uma plataforma digital participativa adequada a estes desígnios; (e) investigar aprofundadamente em design de informação, propondo a identificação de indicadores e novos mecanismos de representação; (f) divulgar, disseminar e debater o conhecimento construído, nacional e internacionalmente, através de publicações, exposições e outros eventos; (g) propor orientações para políticas públicas para a promoção do design português.

Sumário (Inglês)

This application is aimed at acquiring the human and material resources necessary to develop an observatory of Portuguese Design and research for new ways of questioning, interpreting, visualizing and interacting with the harvested information.

But this initiative will only be meaningful if it becomes an agent of transformation of local and national realities that constitute the ecosystem of Portuguese Design, which implies a participatory approach in the design of the arguments, narratives and representations that can inform decisions.

Relevance

The relevance of this project is based on the following assumptions: (a) with the disappearance of the Portuguese Design Center in May 2013, there is no public policy instrument that serves as an interface between the national design ecosystem and the Portuguese economic, social and institutional fabrics, which would allow the recognition and visibility to its manifestations of excellence, making it progressively more operative as a factor of innovation and development; (b) there are 34 higher education schools (university and polytechnic, public and private) that offer Design education and develop research (covering practically all national territory) and that, by the nature of their mission, relate to the communities which they are part of; (c) team members associated with this project have launched the REDE - Design Schools Meeting - which aims to bring together all these schools to discuss the challenges of teaching and research in this discipline and whose first meeting is scheduled for the beginning of the next Academic year (Sep / Oct 2017).

What we hope to achieve

The team involved in this project includes members from different schools of design with experience and interests in various scientific fields (museography, graphical and industrial design, design theory, interaction and information design), thereby ensuring the necessary skills for this project to succeed. This will imply: (a) define a model for the current Portuguese Design ecosystem; (b) build and calibrate the instruments (open toolkit) for an effective observation of this model and its evolution over time; (c) define the strategies and organizational structure to make possible, in a sustained manner, an Observatory of Portuguese Design based on the REDE, the network of institutions of higher education who develop training and research in this knowledge area; (d) collecting data, its analysis, its interpretation (from a design perspective) and representation, and develop a digital participatory platform that is suitable for these purposes; (e) specific research in information design, proposing the identification of new indicators and mechanisms of representation; (f) promote, disseminate and discuss the knowledge built, both nationally and internationally, through publications, exhibitions and other events; (g) suggest guidelines for public policies on the promotion of Portuguese design.

Sumário para publicação (Português)

Esta candidatura pretende viabilizar, ao nível dos recursos materiais e humanos, o desenvolvimento de um Observatório do Design Português e investigar novas formas de questionar, interpretar, visualizar e interagir com essa informação.

Mas esta iniciativa só terá sentido se se tornar uma agente de transformação das realidades locais e nacionais que constituem o ecossistema do Design Português, o que implica uma abordagem participativa no desenho dos argumentos, narrativas e representações que possam informar a decisão.

Relevância

A relevância deste projecto assenta nos seguintes pressupostos: (a) com o desaparecimento do Centro Português de Design, em Maio de 2013, não existe nenhum instrumento de política pública que sirva de interface entre o ecossistema do design nacional e os tecidos económico, social e institucional portugueses, que permita reconhecer e dar visibilidade às suas manifestações de excelência tornando-o sucessivamente mais operativo enquanto factor de inovação e desenvolvimento; (b) existem 34 escolas do ensino superior (universitárias e politécnicas, públicas e privadas) que oferecem formação superior e investigam em Design (cobrindo praticamente todo o território nacional) e que, pela natureza da sua missão, se relacionam com a comunidade onde se inserem; (c) os membros da equipa associada a este projecto lançaram a iniciativa REDE - Reunião das Escolas de Design - que pretende juntar todas estas instituições para debater os desafios do ensino e da investigação nesta disciplina e cujo primeiro encontro está agendado para o início do próximo ano lectivo (Set/Out de 2017).

Objectivos

A equipa associada a este projecto agrega membros de diferentes Escolas com experiência e interesses científicos em diversas áreas (museologia, design gráfico e industrial, teoria do design, interação, design de informação) garantindo as valências essenciais à sua concretização que implica: (a) definir um modelo para o ecossistema atual do design português; (b) construir e calibrar os instrumentos para uma observação efectiva desse modelo e da sua evolução ao longo do tempo; (c) definir as estratégias e a estrutura organizacional que viabilizem, de forma sustentada, um Observatório do Design Português com base na REDE de instituições do ensino superior que desenvolvem formação e investigação nesta área do conhecimento; (d) proceder à recolha de dados, à sua análise, interpretação (do ponto de vista do design) e representação, desenvolvendo uma plataforma digital participativa adequada a estes desígnios; (e) investigar aprofundadamente em design de informação, propondo a identificação de indicadores e novos mecanismos de representação; (f) divulgar, disseminar e debater o conhecimento construído, nacional e internacionalmente, através de publicações, exposições e outros eventos; (g) propor orientações para políticas públicas para a promoção do design português.

Sumário para publicação (Inglês)

This application is aimed at acquiring the human and material resources necessary to develop an observatory of Portuguese Design and research for new ways of questioning, interpreting, visualizing and interacting with the harvested information.

But this initiative will only be meaningful if it becomes an agent of transformation of local and national realities that constitute the ecosystem of Portuguese Design, which implies a participatory approach in the design of the arguments, narratives and representations that can inform decisions.

Relevance

The relevance of this project is based on the following assumptions: (a) with the disappearance of the Portuguese Design Center in May 2013, there is no public policy instrument that serves as an interface between the national design ecosystem and the Portuguese economic, social and institutional fabrics, which would allow the recognition and visibility to its manifestations of excellence, making it progressively more operative as a factor of innovation and development; (b) there are 34 higher education schools (university and polytechnic, public and private) that offer Design education and develop research (covering practically all national territory) and that, by the nature of their mission, relate to the communities which they are part of; (c) team members associated with this project have launched the REDE - Design Schools Meeting - which aims to bring together all these schools to discuss the challenges of teaching and research in this discipline and whose first meeting is scheduled for the beginning of the next Academic year (Sep / Oct 2017).

What we hope to achieve

The team involved in this project includes members from different schools of design with experience and interests in various scientific fields (museography, graphical and industrial design, design theory, interaction and information design), thereby ensuring the necessary skills for this project to succeed. This will imply: (a) define a model for the current Portuguese Design ecosystem; (b) build and calibrate the instruments (open toolkit) for an effective observation of this model and its evolution over time; (c) define the strategies and organizational structure to make possible, in a sustained manner, an Observatory of Portuguese Design based on the REDE, the network of institutions of higher education who develop training and research in this knowledge area; (d) collecting data, its analysis, its interpretation (from a design perspective) and representation, and develop a digital participatory platform that is suitable for these purposes; (e) specific research in information design, proposing the identification of new indicators and mechanisms of representation; (f) promote, disseminate and discuss the knowledge built, both nationally and internationally, through publications, exhibitions and other events; (g) suggest guidelines for public policies on the promotion of Portuguese design.

Descrição Técnica / Revisão da Literatura

While preparing the REDE (reunion of portuguese design schools, acronym that, in portuguese, means simultaneously ?net? and ?network?) still in informal talks between friends from different design schools about the need to debate how is Design being dealt in Portugal ? the balance between education and profession, the relation with social and economic fabric and the importance of having a structured thought based on credible and updated data ? we knew that we would have to find the means and the people to make this knowledge available.

It is however an old project /desire this one of observing Portuguese design.

In the few initiatives developed in Portugal to create an entity that could be used as a promoter of design value and innovation, based on credible observation, the team that has now been assembled was in some way present. Some researches, some of them from ten years ago, already addressed the theme of a Portuguese Design Observatory ([LimaP2006] ? master dissertation defended in the University of Aveiro). In 2009, Vasco Branco, (project?s PI) presented at e-design congress, Lisbon, the foundations of what could an observatory be, based on two already proposed systems ? Sistema Design Italia [BertolaMaffei2008], whose report was designed by Donato Ricci (our team member); and the Barcelona System [CalveraAet2008]. These two examples were then quite impressive by the quality of processes, results and people involved. Due to the lack of resources, BEDA (European Bureau of Design Associations) became a supporter of this and asked CPD to develop a Higher Education in Design Observatory in Portugal for a later widening to become an European Observatory. The extinction of CPD overthrew this possibility. Other similar initiatives were already identified, namely the Finnish ? The New Centre of Innovation in Design (Designium); the French ? Design Fr@ance; the UK systems, promoted by the Design Council; and the BEDA report [etBEDA2006].

Since then, everything changed with the 2008 crash. New projects were launched. Again the Design Council, released in 2015 the report ?The Design Economy: The value of design to the UK [DC2015], and John Maeda, publishing his annual Design in Tech Reports (2015,2016, 2017) [MaedaJ2017], among others.

Policy Making

When analyzing the European report Design Policy Monitor 2015 [WhicherAI2015] published by the Sharing Experience Europe platform (SEE), several facts can be observed: (1) recognition, by the EU, of design as a factor of innovation, leading to the definition of a European action plan for its promotion, which is currently translated into public policy in 15 EU countries. Portugal is not included in this list. By the way, Portugal is only referred to as having 3 schools among the top 50 of European design education; (2) the existence in the EU of a platform that is responsible for defining public policies, able to be designed for a specific country or region: ?Design-driven innovation ecosystems or ?Design Innovation Ecosystems? is a policy construct developed, tested and validated by the SEE Platform to develop design-driven innovation policy. By transferring establish theory on innovation ecosystems to design, design stakeholders can map their Design Innovation Ecosystems to tackle the gaps and capitalise on the strengths.? (p. 8); and (3) The importance of monitoring the various national ecosystems as a means of assessing the impact of these initiatives and reflecting on future trends.

This report thus reinforces the importance of this project, not only as a tool for monitoring the Portuguese reality, but also as a vehicle for reflecting on the promotion of public policies directly related to the case of the Portuguese design ecosystem. This reflection should not, however, be solely driven by economic vectors, but also attend to the necessary debate about the ontological contours of the design discipline [BrancoV2014].

Representation, interpretation, Controversy

It is already a common understanding that information is perhaps the most important asset of today?s world ? ? Better Data, Better Government? states KPMG [KPMG2016]. But this notion goes well beyond the business context, and we could also say: Better Data, Better Governance. Having good information is key to taking part of our world, and above all, taking our lives into our hands. All of the disciplines and matters ? ?Statistics, visual analytics, data representation, development and environmental agencies, information design, visualisation, psychology, social sciences? [DD4D2009] concur for this objective of designing understanding, and thus, render possible conscient decision-making processes.

Martha Nussbaum [NussbaumM2010], reflecting on the role that Humanities have in the preservation of our democracies, asserts that we must train people to interpret the world and not read it as is it was an instruction book ? ?a catalogue of facts, without the ability to assess them, or to understand how a narrative is assembled from evidence, is

almost as bad as ignorance?. As designers, we also have the ability to use the visual narratives as meaningful images that convey messages that not always can be one directional or consensual. The controversies, the interpretational differences tell us a lot about how people perceive their surroundings and information design can play an important role on this endeavour. As Donato Ricci states, "visual models and diagrammatic devices are assumed as useful tools to describe the different position assumed by the actors of controversy?" [RicciD2010]. By not limiting itself to existing languages, design can shape the way we read the world, creating new designs that anticipate the certainty that there will always be other worlds. "New worlds are only new representations of what we call world. And those new representations depend on new means of representation: new mathematical formulas, new symbols, new words, new designs?" [CostaProv2014].

Descrição Técnica / Objetivos / Plano de Investigação e Métodos

With the disappearance of the Portuguese Design Center in May 2013 - the public policy instrument that served as an interface between the national design ecosystem and the Portuguese economic, social and institutional fabrics - which would allow the recognition and visibility to its manifestations of excellence, ceased to exist in Portugal.

This project aims to contribute to change this reality providing strategies for increasing the awareness about Design and promoting creativity based on this discipline as a key factor for innovation in Portugal.

To achieve these objectives the research will have, on one hand, to develop a new kind of organization that can be independent of political circumstances, sustainable, open to participation, distributed along the country and linked to local stakeholders (namely, design professionals, companies that produce design, companies that hire design, other companies, local governance, design education, among others). On the other hand, the research team will need to conceive, develop and test new strategies (a mix between new media and conventional supports) towards a better understanding and visibility of the ecosystem of Portuguese Design enabling public enrollment.

This Project requires four levels of research and action:

Organization / logistics - to research and define strategies for the development of a network of autonomous local nuclei ("distributed observatories"), with their own specific objectives, but all aligned for a national contribution. The main idea is to define an organizational structure to make possible, in a sustained manner, an Observatory of Portuguese Design based on the REDE, the network of institutions of higher education who develop training and research in this knowledge area;

Methodological / instrumental - the definition of a model for the current Portuguese Design ecosystem will drive the research and development of open toolkits (web based) for an effective observation of this model and its evolution over time. The toolkits will allow the various nuclei to operate according to a global philosophy, and simultaneously develop their own tools to observe, analyze, interpret and represent the local expressions of the Portuguese Design Ecosystem. But it will also be mandatory that we develop methodologies and tools for comparison with international (namely european) realities.

Operative - participated accomplishment of complete action research cycles (to observe, analyze, interpret and represent) conducting to process assessment and new versions for the toolkits - dynamic vision of the ecosystem (a functioning observatory). This will imply collecting data, its analysis, its interpretation (from a design perspective) and representation, and develop a digital participatory platform that is suitable for these purposes. But it will also be important to improve specific research in information design, proposing the identification of new indicators and new mechanisms of grasping and representing information;

Dissemination / communication / policies - to promote, disseminate and discuss the built knowledge, both nationally and internationally, through publications, exhibitions and other events. Making this effort a spring into a positive transformation of the Portuguese Design reality, increasing its impact on design and research communities, on the integration of design in companies and on suggesting guidelines for public policies for the promotion of Portuguese design.

For this reason the research work plan has been built around two core activities: the development of open toolkits for the observation, analysis and interpretation of the ecosystem of portuguese design based on the review of the state of the art, methodological innovation and reflection (Task 2); and the design, experimental development, implementation and formative evaluation of the information representations and of the web based system that reflects our vision of an operative observatory of design (Task 4). These core activities are supported and informed by ongoing field observations (Task 3 and Task 5). During the whole project, the management of all the activities are assured by the framework defined (Task 1) and, at the same time, the outcomes of the work produced will be regularly divulged (Task 6).

The overall project will be coordinated and managed by the principal investigator and by the co-principal investigator, as described in Task 1, to guarantee the coherence and effectiveness of research activities, collaboration among the team and integration of their complementary competences, the observation of deadlines and of research objectives. The two consultants will help, first, in the debate of the strategic and scientific decisions and, secondly, in the evaluation of the project results.

As may be seen by the extensive curriculum, Professor Boaventura Sousa Santos, director of the Center for Social Studies at the University of Coimbra, is a highly regarded specialist, with renowned experience in the field of observation of social phenomena, (he is presently the scientific coordinator of the Permanent Observatory for Portuguese Justice). His advice on defining the methodologies and tools for observation and even the definition of the model of the Portuguese design ecosystem will be an essential contribution to the whole project, namely to the tasks 2 and 3.

On the other hand, Professor Jamie Allen comes from the practice-based research, focusing his interests on how creative uses of technology can help us to know who we are as individuals, cultures and societies. As a designer, artist, researcher and teacher, he has been involved with emerging technologies, a background that will help us also to see how a contemporary observatory shall make use of the technological apparatus now available. Which data should we grasp? Which methods can we apply as complement to those used by EU, governments or other official entities? How can we reach different levels of literacy and audiences? What else can we see with tools we normally don't use to observe? ? these are some of the questions Jamie Allen will help us to address, namely in the tasks 2 and 4.

The quality and effectiveness of the work within the project will be based on a process: (1) where the scientific analysis is oriented towards informing the observation process and design information innovation; (2) where the research is given direction through the needs of better understanding the ecosystem of Portuguese Design; (3) which supports participation within a collaborative distributed approach, based on the several nuclei that will be responsible for local observations.

In order to facilitate this approach, the project has created a close coupling between conceptual work and action-research experience. The overall process has the following characteristics: (1) Conceptual and hands-on, that is, the conceptual work is informed by observations, experimental implementations of the representations and web-based models; (2) Parallelism, enabling a process where insights from different fields of observation, experience and analysis can be combined, especially during the action-research process; (3) Experimentation with prototypes to evaluate and improve new forms of dynamic and interactive visualizations; (4) A process that fosters the iterative development of analytical understanding and methodology innovation.

Descrição da Estrutura de Gestão

The project organizational structure is based on the Principal Investigator (PI), the Co-Principal Investigator (Co-PI), the Task Managers (TM) and the Project Management Board (PMB).?

- The Principal Investigator (PI) is responsible for administrative, scientific, technical and financial management of the project, besides chairing the PMB. The Co-PI will collaborate with the PI in these activities and the PI may delegate these responsibilities on the Co-PI. Furthermore, the PI is the single point of contact between the FCT and the project team.

- The Task Managers will run the day-to-day work within the different tasks and together with the PI/Co-PI, will be responsible for the coordination and monitoring of the progress of their task to ensure that its results are on schedule and can be integrated in the following steps. The task managers represent all participant institutions in the project, both directly (Department of Communication and Art, University of Aveiro - T1,T4; Faculty of Fine Arts, University of Lisbon - T2; Faculty of Fine Arts, University of Porto - T6; Design School, Polytechnic Institute of Cávado and Ave - Task 3) as indirectly, through the inclusion of one of his researchers (Department of Communication and Arts, University of Beira Interior - T5);

?- The Project Management Board is constituted by the Task Managers, the Co-Principal Investigator and the Principal Investigator.?The PMB is the main decision making body of the project and will act as executive steering & control body to consider strategic, administrative and management issues. The general responsibilities of the PMB are:?

(1) Ensuring the achievement of the project's main objectives;?

(2) Deciding on budget reallocation;

(3) Adapting to contingencies (e.g. for individual work plans and control of individual tasks);

(4) Making decisions about reviews and amendments of scope, quality of the content, members, partners and events.

?Internal communication will have to be integrated with research practices and should support field work and information/representation research projects development, becoming a research tool itself.?

Task 1 puts into operation this organizational solution for this challenge, providing some conceptual infrastructure and common vocabulary. The core team will converge on an initial vision by sharing a body of knowledge, a work method and a work platform. The research team will therefore adopt and champion within the project the tools and

communication patterns that mimic closely those widespread in the creative communities ? this eliminates or reduces the culture gap between the project and with potential stakeholders.

CARACTERIZAÇÃO DO PROJETO**Descrição das Atividades do Projeto e Resultados Esperados**

Nº da Ativ.	Designação da Atividade	Classificação	Data de Início	Data de Fim	Nº Meses
1	Project Management and Methodological Framework		2018-01-01	2020-12-31	36,00
2	Methodologies and instruments for Design observation		2018-04-01	2018-12-31	9,00
3	First observation: tuning of methodologies and instrument calibration		2018-10-01	2019-03-31	6,00
4	Representing the observations: information design research for knowledge		2018-10-01	2020-09-30	24,00
5	Second observation: for a Portuguese Design Observatory		2019-06-01	2020-05-31	12,00
6	Communicating, disseminating and discussing the project and results		2019-01-01	2020-12-31	24,00

Atividade: 1 - Project Management and Methodological Framework**Descrição da Atividade**

At the beginning of the project the activities will be centered on the consolidation of a common language and methodological framework between all participants. Appropriate procedures and tools will act as a background for project development assuring that the goals of the project and the outcomes will be achieved according to the deadlines and contractual commitments. The PhD researcher recruitment will also be focus of this task during the first weeks, not only preparing and announcing it but also and evaluating the applications and selecting the best candidate, according to the defined profile.

Management and coordination activities include networking among team members, PhD researcher recruitment, leadership of team meetings, monitoring day-to-day activity, the completion of scientific and financial reports and technical management of the individual tasks. In these task will also participate the two project consultants, Boaventura Sousa Santos and Jamie Allen, that will help us in the assessment stages of the project.

The budgetary execution will aim to enable the timely allocation of the financial resources according to the project needs and the contractual constraints. Reporting will be done according to the contractual rules by the financial services of the institutions that participate in this project.

In this task will also be developed the organization of the future observatory, finding in each school of higher education in design (through REDE - Portuguese design schools network) the partners interested in this dialogue with the territories to understand its relation with design. This logistical dimension will be fundamental to ensure both proximity to local realities and the national whole.

This task will be one of the responsibilities of the PI, that may delegate it on the co-PI, and will have the participation of all the task managers (monthly meetings). Furthermore, the PI will be in charge of external representation of the project and of bridging communication between the team and the FCT.

Expected results:

Definition of a common methodological framework | report;

Network of partners for the observatory;
 Guidelines for future development;
 Project reports requested by the FCT (final and two progress reports).

Recursos humanos do beneficiário

Nome/Perfil	Instituições Envolvidas			Conteúdo Funcional da Participação	Nº Pessoas-Mês					
	Cód.	NIF	Designação		2017	2018	2019	2020	2021	Total
1 - Vasco Afonso da Silva Branco	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador Responsável		2,50	1,10	1,70		5,30
2 - Rui Carlos Ferreira Cavadas da Costa	1	501461108	UNIVERSIDADE DE AVEIRO	Co-investigador Responsável		1,30	0,55	0,70		2,55
3 - Raul Jose Ribeiro de Matos Cunca	3	504035541	FACULDADE DE BELAS ARTES	Investigador		1,15	0,55	1,15		2,85
4 - Afonso Nuno Ramalho de Pinho Borges	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		1,30	0,55	0,70		2,55
5 - Ana Catarina Vieira Rodrigues da Silva	4	503494933	INSTITUTO POLITÉCNICO DO CÁVADO E DO AVE	Investigador		1,30	0,55	0,70		2,55
8 - Investigador Doutoramento a contratar	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		1,30	1,10	2,30		4,70

Milestones (máx. 6)

Data	Designação dos milestones	Descrição
2018-06-30	Methods	Definition of a common methodological framework report.
2019-06-30	Network	Network of partners for the observatory
2020-10-31	Guidelines	Guidelines for future development.
2020-12-31	Final and Progress Reports	Two progress reports to be delivered in the end of the first two years, and the Final Report, at the very end of the project

Atividade: 2 - Methodologies and instruments for Design observation

Descrição da Atividade

In this task will be defined what should be observed, why and how.

This task is divided into two complementary stages. In the first stage of research it will be developed a model for the ecosystem of design in Portugal that includes all the typologies of stakeholders involved. This model will be organized under three main axes: design offer, demand and its culture. Gathering available data and information (scattered) about those elements from national sources will enable exploring a dynamic view of this model as the relations between the elements in the system will be the drivers for the questions we should ask and others that we will find. This model must be validated with experts (delphi method).

If in the first stage, we aim to find and justify what shall be observed, in the second stage, we design the methods:

- (1) that define how to observe and how to analyse the results;
- (2) that enable the development of tools for comparison with international realities;
- (3) that prepare contexts for data representation.

After knowing the methods and variables to measure, the different sources and instruments available ? inquiring the web, scientific literature, surveys, interviews, and others ? will be chosen and redesigned according to the different observable phenomena.

This open toolkit (methods and tools) will allow the various members of the REDE network (Portuguese design schools) to operate, in a participatory process, based on the evolving model of the ecosystem of design and the global philosophy of the project, and, simultaneously, develop their own tools to observe, analyse, interpret and represent the local expression of the Portuguese Design System.

Still In this task, we foresee a second iteration with all the material produced under the debates of one of the design schools reunions (REDE 2.0) and with the first observations of task 3. In this task, we will have the presence of our consultants. From there different points of perspective (social sciences and media/arts) we will want to discuss within a large scope of matters able to be addressed and portrayed.

Expected results:

Model for the ecosystem of design in Portugal

Open toolkit for the participatory observation process

Recursos humanos do beneficiário

Nome/Perfil	Instituições Envolvidas			Conteúdo Funcional da Participação	Nº Pessoas-Mês					
	Cód.	NIF	Designação		2017	2018	2019	2020	2021	Total
1 - Vasco Afonso da Silva Branco	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador Responsável		1,05				1,05
2 - Rui Carlos Ferreira Cavadas da Costa	1	501461108	UNIVERSIDADE DE AVEIRO	Co-investigador Responsável		1,55				1,55

Recursos humanos do beneficiário

Nome/Perfil	Instituições Envolvidas			Conteúdo Funcional da Participação	Nº Pessoas-Mês					
	Cód.	NIF	Designação		2017	2018	2019	2020	2021	Total
3 - Raul Jose Ribeiro de Matos Cunca	3	504035541	FACULDADE DE BELAS ARTES	Investigador		1,60				1,60
4 - Afonso Nuno Ramalho de Pinho Borges	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		1,55				1,55
5 - Ana Catarina Vieira Rodrigues da Silva	4	503494933	INSTITUTO POLITÉCNICO DO CÁVADO E DO AVE	Investigador		1,55				1,55
6 - António Modesto da Conceição Nunes	2	501413197	UNIVERSIDADE DO PORTO	Investigador		1,30				1,30
7 - Donato Ricci	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		0,50				0,50
8 - Investigador Doutorado a contratar	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		4,90				4,90
9 - Francisco Maria Mendes de Seica da Providência Santarém	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		0,50				0,50

Milestones (máx. 6)

Data	Designação dos milestones	Descrição
2018-09-30	Model	Model for the ecosystem of design in Portugal
2018-12-31	Open toolkit	Open toolkit for the participatory observation process

Atividade: 3 - First observation: tuning of methodologies and instrument calibration

Descrição da Atividade

In this task, the tools proposed in T2 shall be implemented to assess the capacity to observe the different realities identified as relevant. The overlapping of the two tasks over time will generate a one-to-one contamination allowing successively more robust results during the first observation and simultaneously the continuous tuning of the tools in development. This task will begin with the preparation and holding of the REDE 2.0 - the second meeting of the Portuguese Design Schools ? which program shall include the debate on the process of observation being developed by this project and the planning of how each school can participate on its achievement.

The toolkit, duly updated in accordance with the results of this meeting, will be shared with the Schools so that they can proceed to its testing within a previously defined sample, that includes paradigmatic cases for observation, which may present themselves as quality probes of the designed tools. This sample should include some of these contexts:

- (1) higher education
- (2) design profession
- (3) companies that produce design
- (4) companies that hire design
- (5) local and national public policies

This first observation is not intended to be exhaustive on each typology of the different stakeholders of the design ecosystem in Portugal, either at local or at national level. The main goal is to address every one of these typologies, through credible representatives, in order to verify the quality of the research methods and instruments by reading the interpretations that they enable. This will also be the time period in which each School may extend the toolkit in order to adjust it to its own territory and specific realities.

Expected results:

Validation and adequation of the Open toolkit for the participatory observation process

First observations of the ecosystem of design in Portugal, feeding the design information task.

Recursos humanos do beneficiário

Nome/Perfil	Instituições Envolvidas			Conteúdo Funcional da Participação	Nº Pessoas-Mês					
	Cód.	NIF	Designação		2017	2018	2019	2020	2021	Total
1 - Vasco Afonso da Silva Branco	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador Responsável		0,15	0,15			0,30
2 - Rui Carlos Ferreira Cavadas da Costa	1	501461108	UNIVERSIDADE DE AVEIRO	Co-investigador Responsável		0,15	0,15			0,30
6 - António Modesto da Conceição Nunes	2	501413197	UNIVERSIDADE DO PORTO	Investigador		0,15	0,15			0,30
4 - Afonso Nuno Ramalho de Pinho Borges	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		0,30	0,30			0,60

Recursos humanos do beneficiário

Nome/Perfil	Instituições Envolvidas			Conteúdo Funcional da Participação	Nº Pessoas-Mês					
	Cód.	NIF	Designação		2017	2018	2019	2020	2021	Total
5 - Ana Catarina Vieira Rodrigues da Silva	4	503494933	INSTITUTO POLITÉCNICO DO CÁVADO E DO AVE	Investigador		0,45	0,75			1,20
8 - Investigador Doutoramento a contratar	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		1,20	1,20			2,40

Milestones (máx. 6)

Data	Designação dos milestones	Descrição
2018-11-30	Open Toolkit Validation	Validation and adequation of the Open toolkit for the participatory observation process
2019-03-31	First observations	First observations of the ecosystem of design in Portugal, feeding the design information task.

Atividade: 4 - Representing the observations: information design research for knowledge

Descrição da Atividade

Some of the indicators that define an important part of how governments decide their policies, are generated without considering context and special factors that could be important for specific areas of intervention. The visual representation of these datasets allows us to balance the algorithmic extraction of data and its contextualized filtering, adding to the quantitative dimension the qualitative density of information.

This balance is fundamental for this information to be perceived, interpreted and acquired by multiple levels of receivers, thus generating knowledge. "But a catalogue of facts, without the ability to assess them, or to understand how a narrative is assembled from evidence, is almost as bad as ignorance" claims Martha Nussbaum (2010) about the erosion to which the Humanities have been subjected in Education. In order to have our societies built on individuals that can critically reflect, in order to have the innovative societies we seek, we have to promote portraits with different filters and metaphors that as designers we are educated to project. We can thus research not only the contents, but also the containers of this information, as models of data representation, simultaneously carrying out a research into the territory under observation - Portuguese Design - and researching information design by the studying the most adequate narratives and its representations.

This task consists on representing the information obtained and produced throughout the project. This will imply a significant effort to obtain data that will enable us to observe the ecosystem of Portuguese design from multiple points of view, thus creating meaningful, expressive images encouraging divergent thinking and reasoned critical thinking about and through design. We will have here the contribution of our consultant Jamie Allen.

This task shall address research about:

- 1- new forms of representing data already produced, (e.g. the datasets of official entities like INE, Pordata or Eurostat);
- 2- harvesting data about variables already included on European observations (enabling comparisons with other realities, requiring analyses that emphasize other relevant dimensions);
- 3- new kinds of questions and variables, normally absent from the mainstream of sociological observation, that can reveal other perspectives on this reality.

Research into the interactive possibilities of represented information, namely the "dynamic gestalt", will be conducted in order to allow new exploring experiences:

- by the interactive variation of the values in some parameters (a diachronic variation is a typical case, eg: GapMinder/Hans Rosling);
- by changing the points of view on the data sample (the variation of the degree of detail or the parameters chosen);
- by changing the typologies of representation or their contextual dimension.

Expected results:

- Consolidated version of Website;
- First report about portuguese design.

Recursos humanos do beneficiário

Nome/Perfil	Instituições Envolvidas			Conteúdo Funcional da Participação	Nº Pessoas-Mês					
	Cód.	NIF	Designação		2017	2018	2019	2020	2021	Total
1 - Vasco Afonso da Silva Branco	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador Responsável		0,15	1,20	0,95		2,30
2 - Rui Carlos Ferreira Cavadas da Costa	1	501461108	UNIVERSIDADE DE AVEIRO	Co-investigador Responsável		0,30	2,30	1,65		4,25
7 - Donato Ricci	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		0,30	1,10	0,80		2,20
4 - Afonso Nuno Ramalho de Pinho Borges	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		0,15	0,45	0,45		1,05
5 - Ana Catarina Vieira Rodrigues da Silva	4	503494933	INSTITUTO POLITÉCNICO DO CÁVADO E DO AVE	Investigador		0,00	0,50	0,55		1,05
6 - António Modesto da Conceição Nunes	2	501413197	UNIVERSIDADE DO PORTO	Investigador		0,15	0,55	0,40		1,10
8 - Investigador Doutoramento a contratar	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		0,60	3,15	2,00		5,75
9 - Francisco Maria Mendes de Seíça da Providência Santarém	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador		0,30	1,10	0,80		2,20

Milestones (máx. 6)

Data	Designação dos milestones	Descrição
2019-12-31	Consolidated Website	Consolidated version of Website for the observations on portuguese design, archive of published papers, information about partners, events and all relevant information about the project.
2020-09-30	First Report on Portuguese Design	First Report on Portuguese Design, with all information, procedures and representations developed.

Atividade: 5 - Second observation: for a Portuguese Design Observatory

Descrição da Atividade

This task applies a full observation process, with tuned variables, methods and instruments, seeking the widest local and national coverage possible, and will be carried out on the full extent of the Portuguese design ecosystem.

For this purpose, a network of observatory nuclei ? based on the REDE ? must be constituted, proactive agents linked to the local community, capable of processing, analysing and performing a contextualized interpretation on the territory, hence being able to inscribe other locally significant variables.

The information will be passed on to the project?s coordination, which will promote its analysis, interpretation, joint representation and, where appropriate, proceed to its comparison with the international panorama.

The results of this second observation shall also have some degree of impact on the definition of guidelines for continuous updating of the model, methods and instruments designed for the purpose of its future use by the participatory Portuguese Design Observatory.

Expected results:

Complete observation of the ecosystem of design in Portugal, feeding the design information task.

Recursos humanos do beneficiário

Nome/Perfil	Instituições Envolvidas			Conteúdo Funcional da Participação	Nº Pessoas-Mês					
	Cód.	NIF	Designação		2017	2018	2019	2020	2021	Total
1 - Vasco Afonso da Silva Branco	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador Responsável			0,30	0,25		0,55
2 - Rui Carlos Ferreira Cavadas da Costa	1	501461108	UNIVERSIDADE DE AVEIRO	Co-investigador Responsável			0,30	0,25		0,55
3 - Raul Jose Ribeiro de Matos Cunha	3	504035541	FACULDADE DE BELAS ARTES	Investigador			0,60	0,50		1,10
6 - António Modesto da Conceição Nunes	2	501413197	UNIVERSIDADE DO PORTO	Investigador			0,20	0,25		0,45
4 - Afonso Nuno Ramalho de Pinho Borges	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador			0,90	0,75		1,65
5 - Ana Catarina Vieira Rodrigues da Silva	4	503494933	INSTITUTO POLITÉCNICO DO CÁVADO E DO AVE	Investigador			0,60	0,50		1,10
8 - Investigador Doutoramento a contratar	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador			2,40	2,00		4,40

Milestones (máx. 6)

Data	Designação dos milestones	Descrição
2020-05-31	Ecosystem of design in Portugal	Complete observation of the ecosystem of design in Portugal, feeding the design information task.

Milestones (máx. 6)

Data	Designação dos milestones	Descrição

Atividade: 6 - Communicating, disseminating and discussing the project and results

Descrição da Atividade

The data and information produced along this project will only be meaningful if they become agents of transformation of local and national realities framed within the ecosystem of Portuguese Design at different levels, of which the following stand out:

- ? the promotion of public policies for the development of design;
- ? the vertical integration of design in companies and institutions;
- ? the national and international visibility of Portuguese design;
- ? enhancing the quality of design teaching and research,
- ? increasing the impact of research on Portuguese economic, industrial, institutional and social fabrics.

Thus, this task will include: (1) publishing (national and international scope, within the project, including a book; and local, depending on the schools and other entities that decide to join this initiative); (2) workshops (reflecting on the observatory ? methods, toolkit, results) and three scientific events, one of which international; (3) organization of exhibitions that include debates (this initiative will be tested in one of the project institutions and then "exportable" for all institutions that wish to host it; (4) submission of papers to international conferences; (5) maintaining the website and social web platforms associated with the project.

Expected results:

Book, academic papers, workshops, scientific events, exhibition, dissemination in social web platforms.

Recursos humanos do beneficiário

Nome/Perfil	Instituições Envolvidas			Conteúdo Funcional da Participação	Nº Pessoas-Mês					
	Cód.	NIF	Designação		2017	2018	2019	2020	2021	Total
1 - Vasco Afonso da Silva Branco	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador Responsável			1,10	0,95		2,05
2 - Rui Carlos Ferreira Cavadas da Costa	1	501461108	UNIVERSIDADE DE AVEIRO	Co-investigador Responsável			0,00	0,70		0,70
3 - Raul Jose Ribeiro de Matos Cunca	3	504035541	FACULDADE DE BELAS ARTES	Investigador			1,30	1,10		2,40
6 - António Modesto da Conceição Nunes	2	501413197	UNIVERSIDADE DO PORTO	Investigador			1,30	1,40		2,70
4 - Afonso Nuno Ramalho de Pinho Borges	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador			1,10	1,40		2,50
5 - Ana Catarina Vieira Rodrigues da Silva	4	503494933	INSTITUTO POLITÉCNICO DO CÁVADO E DO AVE	Investigador			0,90	1,55		2,45
8 - Investigador Doutoramento a contratar	1	501461108	UNIVERSIDADE DE AVEIRO	Investigador			3,15	4,70		7,85

Milestones (máx. 6)

Data	Designação dos milestones	Descrição
2020-11-30	Book and Exhibition	All the documents supporting this task will be produced along the project. As major outcomes, we expect to produce the exhibition and publish the Book in the final months of this three-years period.

CARACTERIZAÇÃO DO PROJETO**Referências Bibliográficas**

a) Incluir publicações citadas na descrição técnica e científica da proposta. Esta lista não está limitada a publicações dos membros da equipa

Nº	Referência	Ano	URL
1	[NussbaumM2010]	2010	http://press.princeton.edu/titles/9112.html
2	[BertolaMaffei2008]	2008	https://www.scribd.com/document/60954237/Design-Research-Maps-Prospettive-Della-Ricerca-Universitaria-in-Design-in-Italia
3	[RicciD2010]	2010	http://www.drs2010.umontreal.ca/data/PDF/100.pdf
4	[DD4D2009]	2009	http://www.dd4d.net/
5	[CostaProv2014]	2014	https://www.academia.edu/9613295/Information_Design_and_Neg-Entropy_A_desirable_uncertainty
6	[LimaP2006]	2006	http://ria.ua.pt/handle/10773/1144
7	[etBEDA2006]	2006	http://www.beda.org/resources/beda-publications.html
8	[CalveraAet2008]	2008	https://www.dropbox.com/s/u4aro0jh44o0alt/calvera-monguet-the-barcelona-design-system-2008.pdf?dl=0
9	[DC2015]	2015	http://www.designcouncil.org.uk/resources/report/design-economy-report
10	[MaedaJ2017]	2017	https://designintechreport.wordpress.com/2017/
11	[WhicherAI2015]	2015	http://www.academia.edu/18847897/Design_Policy_Monitor_2015
12	[BrancoV2014]	2014	http://www.proceedings.blucher.com.br/article-details/design-and-research-in-design-some-reflections-13916
13	[KPMG2016]	2016	https://assets.kpmg.com/content/dam/kpmg/pdf/2016/06/co-gv-6-better-data,-better-government.pdf
14	[DD4D2009]	2009	http://www.dd4d.net/

1 - Publicação

Nussbaum, Martha C. (2010) Not for Profit: Why Democracy Needs the Humanities. Princeton, N.J.: Princeton University Press

2 - Publicação

Bertola P. & Maffei S. (2008) DRM Design Research Maps Prospettive della ricerca universitaria in design in Italia | Visions of academic design research in Italy 2003-2007. Milano: Edizione POLI.design

3 - Publicação

Ricci, Donato. 2010. Seeing what they are saying: diagrams for social complexity and controversies.

4 - Publicação

DD4D(2009). DATA DESIGNED FOR DECISIONS: Enhancing social, economic and environmental progress. A joint IIID and OECD conference. Paris, 18-20 June 2009.

5 - Publicação

Costa, R., Providência, F. (2014) Information Design and (Neg-)Entropy: A Desirable Uncertainty?. Cumulus Conference Aveiro: What's On: Cultural Diversity, Social Engagement, Shifting Education. Universidade de Aveiro

6 - Publicação

Lima, P. G. V. C. R. (2006). Contributos para uma observação efectiva do design em Portugal (Master's thesis, Universidade de Aveiro).

7 - Publicação

Design Austria & BEDA (2006). European Design Report: The European Design Industry in Facts and Figures

8 - Publicação

CALVERA, Anna; MONGUET, Josep, (2008), The Barcelona Design System: Understanding the Past from the Present and Gathering Opinions Concerning the Future. Outcomes from a Research to Inspire a Catalan Regional Policy for Design, ICDHS, Osaka.

9 - Publicação

Design Council (2015). The Design Economy: The value of design to the UK

10 - Publicação

Maeda, J. (2015, 2016, 2017). Design in Tech Report 2017.

Whicher, A., Swiatek, P., Cawood, G. (2015). Design Policy Monitor 2015: Reviewing Innovation and Design Policies across Europe. See Platform, European Commission

b) Publicações anteriores - Incluir as cinco publicações mais representativas do trabalho da equipa no âmbito desta proposta (máx. 5)

Nº	Referência	Ano	URL
1	[BrancoV2014]	2014	http://www.proceedings.blucher.com.br/article-details/design-and-research-in-design-some-reflections-13916
2	[etBrancoV2011]	2011	https://www.researchgate.net/publication/254463904_How_to_measure_design_contribution_to_the_competitiveness_of_companies_models_for_analysis_tool
3	[CostaR2014]	2014	http://hdl.handle.net/10773/13271
4	[CUNCAed2015]	2015	https://www.abebooks.co.uk/9789898771278/Documentar-Comentar-Design-Documenting-Commenting-9898771275/plp
5	[RicciD2010]	2010	https://www.researchgate.net/profile/Donato_Ricci2/publication/229150844_Seeing_what_they_are_saying_Diagrams_for_socio-technical_controversies/links/0912f5007036b5899a000000.pdf

1 - Publicação

Branco, V. (2014). Design and research in design: some reflections. Blucher Design Proceedings, 1(5), 687-693.

2 - Publicação

Gomes, A., & Branco, V. (2011, June). How to measure design contribution to the competitiveness of companies: models for analysis tool. In Proceedings of the 2011 Conference on Designing Pleasurable Products and Interfaces (p. 56). ACM.

3 - Publicação

Costa, R. (2014) O Desenho da Comunicação como Conhecimento. Universidade de Aveiro (PhD Thesis: Designing Communication as Knowledge)

4 - Publicação

Cunca, R., & Almeida, V. (Coords.). (2015). Documentar Comentar o Design ? Documenting Commenting Design. Lisbon, PT: CIEBA.

5 - Publicação

Ricci, D. (2010). Seeing what they are saying: Diagrams for socio-technical controversies. Proceedings of DRS 2010.

O projeto dá resposta a desafios sociais? Quais?

Nº	Desafio Social	Principal Linha de Atuação
1	6. Europa num Mundo em Mudança ? Sociedades Inclusivas, Inovadoras e Ponderadas / Europe in a changing world - Inclusive, innovative and reflective societies	6.3. Sociedades reflexivas ? património cultural e identidade europeia (estudo, designadamente com recurso a novas tecnologias, da herança cultural, memória, identidade, integração e interação e translação cultural, investigação sobre a história, literatura, arte, filosofia e religiões dos países e regiões Europeus e como estes informam a diversidade Europeia contemporânea; investigação sobre o papel da Europa no mundo e sobre os laços e influência mútua entre diferentes partes do globo, bem como uma perspetiva externa sobre as culturas Europeias)
2	6. Europa num Mundo em Mudança ? Sociedades Inclusivas, Inovadoras e Ponderadas / Europe in a changing world - Inclusive, innovative and reflective societies	6.2. Sociedades inovadoras (envolvimento dos cidadãos, organizações da sociedade civil, empresas e utilizadores da investigação e desenvolvimento e na promoção de políticas coordenadas de investigação e desenvolvimento no contexto da globalização e da necessidade de promover os mais altos padrões éticos; novas formas de inovação, com ênfase especial na inovação social e na criatividade e compreensão do modo como todas as formas de inovação são desenvolvidas, têm sucesso ou falham; fazer uso do potencial inovador, criativo e produtivo de todas as gerações; promover a cooperação coerente e eficaz com países terceiros)

Justificação - Nº 1

The last decades witnessed a growing importance of design and namely information design, due to the amount of data produced. The flood of available data gave design, namely to this field of design for understanding, an increased visibility and responsibility to find new ways of making sense through information, helping decisions processes. From design to computer sciences, there are several disciplines that converge in this endeavour, even if under different tools and models. This convergence enables a comparison between models of representation, which tend to be more respected if neutral and rational like. However, are not metaphor, paradox and poetics also tools able to provide structure to a set of complex data? We argue that it is possible to represent with accuracy without blindly accept generic and algorithmic systems, and that the doubts that can emerge from such representations may sometimes contribute to non-communication but also elicit curiosity, enabling understanding thus promoting knowledge, namely if the subjects addressed are as intangible as a feeling, a culture, a language, a religion, a life, etc.

Justificação - Nº 2

When describing design, some authors (e.g. Gui Bonsiepe in 1999) propose an ontological scheme where interface emerges as the key concept. According to these concept, design does not operate within a specific paradigm as science or technology, but within several. Interface would thus be the intellectual mechanism that enables the link between the necessary skills that can render design possible, that being the normal context of the designer ? the cultural mediation. We think therefore that this designerly way of thinking, working and relate, can be a valuable key to businesses (inventing new audiences and artifacts) but also to democracies (improving citizenship through significant information). The large net (in Portuguese, REDE is simultaneously net and network) we are throwing over the portuguese design ecosystem will provide us the data and information necessary to work on these visual, dynamic and interactive representations that can make the ?newness? possible.