D3.6 ORION

Novel co-creation initiatives to open up research in life sciences and biomedicine

MELTIC Project Specification

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 741527 and runs from May 2017 to April 2021.

Contents

ACRONYMS

ICT:	Information and Communication Technologies
EU:	European Union
WHO:	World Health Organization
Wi-Fi:	Wireless Fidelity
GPS:	Global Positioning System
ISCIII:	Instituto de Salud Carlos III (Madrid, Spain)
LPdCM:	La Palma del Condado Municipality (Huelva, Spain)
MM:	Mirabello Municipality (Italy)
HoD:	Hospital of Deta (Romania)
CRdM;	Community of Reguengos de Monsaraz (Portugal)

This document outlines the project plan for the "Ideas MELting pot for TIC and Health science for Citizens in small communities (MELTIC)" project, funded by the ORION Open Science project call for novel co-creation initiatives to open up research in life sciences and biomedicine.

Project Lead

Victoria Ramos, Instituto de Salud Carlos III, Tenure Scientist OPI at Telemedicine and Digital Health Research Unit, Madrid (Spain). Victoria Ramos will be main author of project outcomes.

Partners

- Andres Dochao, Head of Friendly City Programme of La Palma del Condado Municipality (Huelva, Spain)
- Roberto D´Amico, Advisor in Friendly Cities Programme in Mirabello Municipality (Italy)
- Dr. Bungău Codruța, Manager of Hospital of Deta (Romania)
- Anabella Caeiro, Head of Friendly City Programme of Reguengos de Monsaraz (Portugal)

Summary

MELTIC Project (Ideas MELting pot for TIC and Health science for Citizens in small communities) is a proposal for co-creation of research in the disciplines of Health and Information and Communications Technologies to improve the quality of life of European citizens in small communities. MELTIC connects with diverse European Policy challenges such as depopulation, health, active aging, education, youth and climate change and seeks to identify current and future needs of citizens. The objective is to generate, through co-creation methodologies, suitable ideas for research in ICT in Health and Biomedicine, in topics such as self-learning, false information discrimination and ludopathy prevention in order to innovate about the use of existing public spaces and/or build new ones. The project will focus on developing a transnational co-creation workshop, during which over 30 participants from small communities with local health-related profiles (patients, parents, doctors, nurses, associations and politicians) in Portugal, Spain, Italy and Romania will generate a *Vade mecum* of 100 ideas for research in ICT in Health and Biomedicine and a model for cooperation in small communities in rural areas. Both outputs will be delivered on line and available for small communities to use.

1. Project Aim and Objectives

Please outline your aims (what do you want to achieve overall?) and objectives (what steps need to be taken to achieve these aims?)

The aim of the project is to make research activities in ICT in Health and Biomedicine more open, transparent, and accessible in order to increase its research and societal impact and contribute thereby to improve the quality of life of European citizens in small communities.

To this aim, one of the objectives of the project is to support innovative and exciting initiatives to bring together different stakeholder groups to co-create research in ICT in Health and Biomedicine.

The objective is to co-produce suitable ideas for research in topics such as self-learning, false information discrimination and addiction prevention (ludopathy to games and gambling). The leading issue is how to use smart technologies to transform public spaces in small communities into people-friendly humane environments, rather than just more high-tech places. The structure of MELTIC project is designed around the importance of inclusive and multidisciplinary co-production and introduces the importance of comprehensive and trans-disciplinary development. A technical proposal about a model for cooperation in small communities in rural areas for citizens will be presented. This will help us to better understand (potential) interactions, at the centre of this discussion.

2. Project Outline

Please outline the tasks that will take place during the year the project will be running. What methods and techniques will you use, especially co-creative methods? Which partners will be responsible for each task?

Please include information on stakeholder engagement (how will you recruit researchers and citizens?) and a communications plan.

Please include the generation of a data management plan at the beginning of the project.

The use of smart technologies in public spaces is increasingly creating new forms of social interactions and practices, which in return creates new socio-spatial relations and promotes interactions and communication between isolated and disperse communities.

This argues for the need to re-think social practices and the use of public spaces, which in turn might also have an impact on the development of ICTs and their devices. The intertwining of real and virtual worlds also opens up new ways of advancing knowledge, gathering and interpreting the data, and disseminating the acquired knowledge.

2.1 Project Work Packages

The project will run for a year and will be organised as follow:

WP1 - Project Management and Data Management Plan (Lead: ISCIII, M1-M12).

Task 1.1: Data Management Plan (M3)

A model of good practice for international transdisciplinary collaboration between the social and other sciences will be followed (Horizon 2020 Programme guidelines). The considerations on Data Protection will also be taken into account: the integrity of the information must be sought to avoid breaches of the confidentiality of health data. The guarantees for maintenance of the personal dignity and privacy: avoid any data leakage, and that all access minimizes the impact of a transmission of information to an unlawful third party. Good research data management to support the FAIR principles (Findable, Accessible, Interoperable, and Reusable) will also be applied when relevant (implementing research projects). Sections 4.1 and 4.2 of Horizon 2020 Programme guidelines will be considerate.

Deliverable 1.1: Data management plan (M3).

Task 1.2: Project Specification (D1.2, ORION D3.6 - February 2020)

Task 1.3: Halfway Report (D1.3, M6)

Task 1.4: Final Report (D1.4, M12)

WP2 – Analysis of ICTs state of the art (Lead: HoD; M1-M3).

Task 2: Literature review (M1-M3).

We are experiencing a digital era of real-time transmission of data and immense computing power. It is astounding how developments in electronics, information and telecommunications permeate our daily lives, and almost every day something new is aggregated. To set a comprehensive baseline for our project, we will develop a review of the state of art of the use of technologies in projects, activities and initiatives:

a) That include aspects of interaction among users, ICT and social behaviour,
b) For spatial analyses, planning methodologies and public involvement
c) On urban games

Deliverable D2: Literature review (M3).

WP3 - Stakeholder analysis and context description to feed into the co-creation process (Lead: MM; M1-M4).

Task 3.1: Identify the stakeholders within the wide group of members formed by government entities, funders, educators, charities, civil societies, patient groups and citizens (M1).

We will make a short list of potential participants with the adequate combination of representation of end and intermediate users of healthcare resources, services, technologies and research and proactive profiles. This short list of stakeholder candidates will be evaluated by MELTIC partners with support of experts in co-creation. The number of stakeholders to participate in the co-creation event will be a maximum of 5 people from each of the four EU participant countries (Spain, Portugal, Italy and Romania).

Task 3.2: Identify shared general topics of interest for above identified stakeholders (M1-M2).

Task 3.3: Exploratory study about interactivity as well as the spatial and social aspects of ICT in small and isolated communities (M1-M4).

The study will also look at their impacts, opportunities and risks that have not yet been systematically compared, discussed and evaluated. The consequences of this relationship are not yet fully investigated; long-term experiences and analyses do not yet exist, meaning that an ultimate evaluation of the consequences of ICT in small communities is still awaited. This fact, accompanied by rapid development and increasing application possibilities, challenges ICT experts, urban designers and social agents.

Deliverable D3: Analysis of stakeholders and context for the co-creation process (M4).

WP4 - **Technological proposal for implementation** (**Lead: ISCIII; M1-M12**).

Task 4: We will develop a technological proposal to support and encourage socio-spatial interaction of citizens in small communities (M1-M12).

The technological proposal will be developed out of one of these two options:

ON-LINE WEB PLATFORM: The platform implements and deploys a set of functionalities that provide comprehensive support to the needs of institutions, functional units and coordinating centres:

1. Management of Good Practice guides (BBPP): library of guides based on Horizon 2020 Programme guidelines
2. Organization management: organization hierarchy according to a tree structure
3. User management: module for assigning users to organizations and roles
4. Assignment of guides: support for the process of assigning specific guides and guide views to specific institutions and functional units based on their profile.
5. Measurements: completion (editing-correction) and follow up of guides / guide views
6. Exploitation: module for the generation of enriched internal reports at various levels: territorial, administrative, institutional, and functional unit
7. Export-Import: possibility of exporting raw guide data.

APP. An app allows for the use of interactive virtual environments that enable self-management education, follow-up of the process and results of the sessions, personalized parameterization based on the degree of compliance with the objectives and provide greater objective and subjective security to users. Guide with a training program that can be composed of videos and documents adaptable to the specific needs profile of each user that you can consult at any time.

1. Technologically, it works on Android smartphone and can be designed specifically for other Tablet systems. The app may be developed on the Apache Cordova multiplatform framework
2. For contextual-environmental information, the app accesses free remote services of meteorological information, geolocation, etc., supported by “smartphone” resources such as GPS. The "feedback" aspects can be addressed through audio messages combined with complementary visual information. It allows interacting asynchronously via “web-service” through the Internet with the web platform that allows the monitoring of activities, improving the frequency and objectivity of the evaluation of program compliance, adaptation and user progress.

The development of a technological proposal for citizens in small communities will be based on existing knowledge and experience about the interactions of ICT, public spaces and health in different ways:

1) The use of ICT devices in public spaces (phoning, texting, wi-fi, gaming),

2) The ICT as information transport media (internet, newsletter),

3) ICT as a tool for social and health reporting and planning (e-planning) - this includes the possibilities the ICT offer for connecting people on small communities (enhancing participation).

4) Interfaces of specific networks

5) Availability functions and services

Another key aspect to develop a technological proposal is ICT features of: allowing on-demand access to content anytime and from nearly anywhere; engaging individual and groups of users to interact and congregate online and share information. The impacts of ICT available in public spaces is already challenging tech designers and landscape architects to meet the needs of people living in an increasingly connected world.

Deliverable D4: Technological proposal to support and encourage socio-spatial interaction of citizens in small communities (either a website or an application) (M12).

WP5 - Co-Creation experience in ICT in Health and Biomedicine Research (Lead: LPdCM / CRdM; M1-M12)

Task 5.1: A preparatory meeting will be held with the different partners in Madrid to prepare for the co-creation workshop (M1-M3).

Workshop for MELTIC partners to define concepts and select topics and methodology for the co-creation workshop.

Task 5.2: Co-creation workshop about ICT in Health and Biomedicine Research (M4-M6).

A transnational workshop in ICT in Health and Biomedicine research will be held in June 2020 in La Palma del Condado (Spain), with support of a co-creation facilitator (experts in Design Thinking) and participants from Portugal, Spain, Italy and Romania, with local health-related profiles (patients, parents, doctors, nurses, associations and politicians). Will use co-creation methodologies to generate suitable ideas for ICT in Health and Biomedicine research in topics such as self-learning, false information discrimination and addiction prevention (ludopathy to games and gambling).

Task 5.3: Partners workshop and analysis of results of the co-creation workshop (M7-M9). The results of the co-creation workshop will be analysed by all partners during this workshop and following months in order to elaborate final conclusions for ICT in Health and Biomedicine research.

Task 5.4: Elaboration of conclusions for ICT in Health and Biomedicine research (M10-M12).

Deliverable D5.1: A post-event report about the transational co-creation workshop, including a list of topics covered and a list of ideas generated during that meeting. This report will serve as a base for the partners' workshop (T5.3) and will collect the conclusions from T5.3 deliberations. Therefore, it will be a live document. This report will be uploaded in the online public repository of the ISCIII.(https://repisalud.isciii.es/) (M12).

Deliverable D5.2: The ideas generated during the co-creation workshop will be collected in a *Vade mecum* of 100 ideas for ICT in Health and Biomedicine research (M12).

WP6 – Outreach and dissemination (Lead: ISCIII / other partners; M1-M12).

Task 6.1: Dissemination plan (M1-M12).

With the support of all MELTIC partners, the WP leader will develop and implement a communication and dissemination plan where expected results, objectives, target audiences, dissemination actions, methods and tools, timeline and outcome indicators will be clearly outlined. All partners will be actively involved in disseminating project activities and results to the target audiences. This plan will be reviewed towards the end of the project and any update will be included in the final report (D1.4).

Deliverable D6: Dissemination plan (M6).

Task 6.2: MELTIC partners' websites and social media channels (M1-M12).

All partners will play an active role in this task to communicate the project work widely. Social media channels, like Twitter, LinkedIn, Facebook and YouTube, will be utilised to foster networking and promote the activities of the project. ISCIII will be responsible for ensuring relevant postings from all partners. A blog post will be written and used for project promotion purposes either in partners' websites or in ORION communications channels.

2.2 Methods (co-creation methods)

MELTIC will bring together different stakeholders to share their interests and values and generate new ideas, concepts, products or projects. In co-creative projects, all groups are involved and have influence throughout the project lifecycle: from planning, to implementation, to dissemination. There are wide varieties of stakeholders who are interested and can be involved in research activities. These include government, educators, charities, civil societies, patient groups and the public.

In relationship with ORION co-creation process, MELTIC seeks to (1) obtain contributions by users, (2) produce a reference document with all these contributions, and (3) incorporate few selected contributions into products, processes, or services such as an online website or an application.

During MELTIC co-creation workshop, we will use "Manual Thinking", a tool for the management of creative teamwork, created by Swiss designer Luki Huber (https://manualthinking.com/). Its format of maps and labels allow teams to affront any topic, obtaining immediate results with a visual and valuable appearance. This participative approach fosters team commitment and alignment. Furthermore, thanks to its work templates, the tool simplifies the implementation of any method for creativity, strategy and organization.

The co-creation workshop will be guided by experts of Manual Thinking and will have the following stages:

1) A process to explore topics join together

2) A join phase of ideation
3) A phase of organisation of inputs
4) And visualization of the final ideas

.

2.3 Stakeholder engagement and communication plan

In the case of MELTIC project, one of the objectives is to engage a selected small proactive group of stakeholders. The stakeholders will be selected throughout the analysis of context in WP3. We will identify topics and players of interest within the wide group of members formed by government entities, funders, regulators, educators, charities, civil societies, patient groups and citizens. We will make a short list of potential participants to the co-creation workshop with the adequate combination of representation of end and intermediate users of healthcare resources, services, technologies and research and proactive profiles. The shortlisted stakeholders' candidates will be evaluated by MELTIC partners with support of experts in co-creation. The number of stakeholders to participate in the co-creation event will be a maximum of 5 people from each of the four EU participant countries (Spain, Portugal, Italy and Romania). This group will disseminate the project results to a wider range of around 100 stakeholders in each of the four EU participant countries.

Final plans for further use and dissemination of the MELTIC results will be defined (D6.1) and in the final report (D1.4). The dissemination plan will be based in following channels:

1 Dissemination throughout partners' websites and its social media networks (Facebook, Twitter, LinkedIn and YouTube)
2 MELTIC project website and partaking academy members' web spaces as Research Gate and Academia (https://www.researchgate.net/ and https://www.academia.edu/).
3 WHO website for experiences in its Network of Friendly Cities (https://extranet.who.int/agefriendlyworld/network/)

4 Scientific articles, which will be shared with ORION partners (https://www.orion-openscience.eu/) as well as other and other academic environments (conferences).

Relevant outcomes will be presented in scientific and trade forums. All partners will be called to participate in international conferences, workshops and exhibitions, to promote the project and make it visible to potential beneficiaries.

3. Timeline

Please provide a table outlining approximate timelines for each of the tasks.

				Mz	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb
		Lead partner/s	**Duration**	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Work Package	**Title**														
WP1	**Project Management and Data Management Plan**	**ISCIII**	**12 M**												
T1.1	Data Management Plan					D1.1									
T1.1	Project Specification			D1.2											
T1.2	Halfway Report								D1.3						
T1.3	Final Report														D1.4.
WP2	**Analysis of ICTs state of the art**	**HoD**	**3M**												
T2	Literature review					D2									
WP3	**Stakeholder analysis and context description for co-creation process**	**MM**	**4M**				D3								
T3.1	Identify the stakeholders														
T3.2	Identify shared general topics														
T3.3	Analysis of the situation and context description														
WP4	**Technological proposal for implementation**	**ISCIII**	**12 M**												
T4	Technological poposal														D4
WP5	**Co-Creation experience in ICT in Health and Biomedicine Rresearch**	**IPdCM/CRdM**	**12M**												
T5.1	Workshop in definition of concepts, topics to be treated and cocreation methodology		**3M**												
T5.2	Cocreation workshop about ICT in Health and Biomedicie Research		**3M**												
T5.3	Analysis of results of Cocreation Workshop		**3M**												D5.1
T5.4	Ellaboration of conclusions for ICT in Health and Biomedicine Research		**3M**												D5.2
WP6	**Outreach and dissemination**	**ISCIII/Partners**	**12 M**												
T6.1	Dissemination plan								D6.1						
T6.2	MELTIC partners' websites and social media channels														D6.2

ISCIII: Instituto de Salud Carlos III (Spain)	
IPdCM: La Palma del Condado Municipality (Spain)	
MM: Mirabello Municipality (Italy)	
HoD: Hospital of Deta (Romania),	
CRdM: Community of Reguengos de Monsaraz (Portugal).	

D	Deliverable
	Full dedication
	Reduced dedication

Deliverable list:

D1.1 Data management Plan
D1.2 Final Deliverable. Report
D1.3 Halfway Report
D1.4 Final Report
D2 Literature review
D3 Analysis of stakeholders and context
D4 Technological proposal
D5.1 Post event report
D 5.2 *Vade mecum*
D6 Dissemination Plan

4. Project Outputs, desired outcome and potential impact

Please outline what are the expected outcomes from this project – this is largely covered in the "compliance with conditions" section of your proposal, but should be summarised here.

The MELTIC project outputs will be:

1. A model for cooperation in the form of a technological proposal to support and encourage socio-spatial interaction of citizens in small communities
2. A vade mecum of 100 ideas about ICT in Health and Biomedicine research

The desired outcome for the MELTIC project would be for any of the ideas in the vade mecum to be implemented in a research project about ICT in Health and biomedicine in topics such as self-learning, false information discrimination and ludopathy prevention to innovate about the use of existing public spaces and/or to build new ones. The potential impact of such an outcome would be an innovative proposal for the (re)use of existing public spaces and/or build new ones.

5. Budget

ESTIMATED BUDGET OF THE ACTION

ISCIII+Partners (*): Part of budget to partners is just devoted to cover travel and accommodation expenses of its participants and will be managed directly by ISCIII. This part of budget for partners´ expenses will not be transferred from ISCIII to them.

ISCIIII	**Cost (€)**	**Justification**
Travel	13.287,50	Travels + Hosting for participants in meetings, WP3 & WP5
Other Goods and services		
-Consumables	600	Consumables WP1 to 7.
-Research	1.200	Subscriptions of scientific journals and purchase of scientific articles. WP2: Review of State of the art.
-Communication	3.200	Publications in Open Access and conferences fees for dissemination of results. WP6: Dissemination and communication.
-Co-creation Facilitator	12.400	Development exercise through the Design Thinking methodology. With the collaboration of Manual Thinking, experts in DT methodology. WP5/T5.2.
-Discover Game	600	Landing co-creation discover game (gymkhana for meeting citizens with science health and ICT). WP5/T5.2.
-Catering	2.500	Coffee breaks and lunch for assistants in meetings WP5.
TOTAL Other Goods and Services	20.500	
TOTAL	33.787,50	