



Ideas MELting pot for TIC and Health science for Citizens in small communities (MELTIC)

D1.3. Halfway Report (M8)

October, 2020



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement (GA) No 741527 and runs from May 2017 to October 2021.

Table of contents:

1. Version control	3
2. Summary	4
2.1. General Objective of MELTIC	4
2.2. Specific Objectives	4
3. Objectives of the document	6
4. Modifications of the methodology and work plan on those projected and their justification	7
4.1. Extension of the project duration	7
4.2. New budget distribution.	7
4.3. Stakeholders Modifications	9
4.4. Co-creations workshops moved to semi-virtual form	11
4.5. Delay and extension of the Technological platform	11
5. Specific objectives achieved	13
5.1. Realization of the MELTIC web platform	13
5.2. Deliverables	13
6. Another considerations about WP5	15
7. Conclusions	16



1. Version control

Work package no.:	WP1	Work package title:	Project Management and Data Management Plan
Deliverable no.:	D3	Deliverable title:	D1.3 Halfway Report
Version no.:	V1	Date:	October 31st, 2020
File name:	MELTIC Halway Report.pdf		
Required changes?	Yes / No	Changes required:	
Date of acceptance by ORION:			



2. Summary

2.1. General Objective of MELTIC

The aim of the project is to produce useful information in Health and ICT research and methods to reinforce Open Science and its principles, in special with ethics, governance, open access, public engagement and education to improve the quality of life of European citizens in small communities. The aim is to support initiatives that bring together these different stakeholder groups in innovative and exciting ways, with the goal of making research activities in the ICT and Health sciences and biomedicine more open, transparent, accessible, relevant and impactful for research and society.

The objective is to generate, through co-creation methodologies, suitable ideas for research in ICT and health, and in topics such as self-learning, false information discrimination and addiction prevention (ludopathy to games and gambling). The leading issue is how to use ICTs to transform our small communities into more human environments, rather than just more high-tech places, and to understand that “smartness” should be people-friendly. The structure of the project introduces the importance of comprehensive and trans-disciplinary development. A theoretical approach and framework will be proposed. These will help us to better understand (potential) interactions, and both are at the centre of this discussion.

2.2. Specific Objectives

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 a wide variety of stakeholders who are interested and can be involved in research activities. These include: government, educators, charities, civil societies, patient groups and the general public.

- In the case of the MELTIC project, the objective is to engage a selected short proactive group of stakeholders. It will be done throughout the analysis of context to be done in WP2. We will identify topics and players of interest within the wide group.
- We will define 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. The stakeholders group to participate in the co-creation event will be a maximum of 5 people from the four EU participant countries (Spain, Portugal, Italy and Romania). This group will deliver the project results to a wider range of around 100 stakeholders in each of the four EU participant countries.
- The communication plan will be based in the following channels: dissemination throughout partners website and its social networks (Facebook, twitter, linkedin and youtube), delivery of project results in project website and academy web spaces as Research gate and Academia



- In relation with the co-creation process, it will be based on a way to (1) obtaining contributions by customers, (2) selecting the best of these contributions, and (3) incorporating these selected contributions into products, processes, or services.
- Technological proposal for implementation is based on existing knowledge and experience about the interactions of ICT, public spaces and health in three different ways:
 - o The use of ICT devices in public spaces (phoning, texting, wi-fi, gaming),
 - o The ICT as information transport media (internet, newsletter),
- ICT as a tool for social and health reporting and planning (e-planning) - this includes the possibilities the ICT offers for connecting people in small communities (enhancing participation).

Outreach and dissemination will produce a model for cooperation among rural and friendly cities actors and researchers, and a vademecum of 100 ideas for TIC & Health science.





3. Objectives of the document

This document presents a report in which the state of development of the MELTIC project is shown. The objectives in the proposal and the status of these initially planned objectives are presented, as well as the modifications of the methodology and the work plan on the projected ones and their justification.



4. Modifications of the methodology and work plan on those projected and their justification

The main modification of the work plan has been due to the pandemic declared in March in Europe that has conditioned the jobs and lives of all. As may be imagined, MELTIC has also been affected. The WP2 and WP3 work packages could be developed in time and are available on the project's web platform.

4.1. Extension of the project duration

The financing project, ORION, accepted the request for a three-month extension, leaving the schedule as follows:

Work Package	Title	Duration	Mz	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mz	Ap	My
			M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15
WP1	Project Management and Data Management Plan	15 M															
WP2	Analysis of ICTs state of the art	3M				D2											
WP3	Stakeholder analysis and context description for co-creation process	4M				D3											
WP4	Technological proposal for implementation	15 M															
T4	Technological proposal (DXP)												D4				D.4
WP5	Co-Creation experience in ICT in Health and Biomedicine Research	12M															
T5.1	Workshop in definition of concepts, topics to be treated and cocreation	3M															
T5.2	Cocreation workshop about ICT in Health and Biomedicine Research	3M															
T5.3	Analysis of results of Cocreation Workshop	3M												D5.1			
T5.4	Elaboration of conclusions for ICT in Health and Biomedicine Research	3M												D5.2			
WP6	Outreach and dissemination	12 M															
T6.1	Dissemination plan							D6.1									D6.1
T6.2	MELTIC partners' websites and social media channels												D6.2				D6.2

4.2. New budget distribution.

Another important modification has been in relation to the distribution of budget and expenditure items.

The main difference is in the distribution of the budget dedicated to travel. Due to travel limitations due to the pandemic, most of that budget has been allocated to other tasks.

- Dissemination tasks will be carried out in the form of audiovisual material that was not planned.



- The technological proposal will be expanded and a Digital eXperience Technological (DXT) will be prepared.

This modification approved by funders is shown in the following Table 2.

ISCI III	Cost (€)	Justification
Travel	2,500	Travel for PI
Other Goods and services		
-Consumables	300	Consumables WP1 to 7.
-Communication	3,387.50	Publication in Open Access. WP6: Dissemination and communication.
	2,000	Revision and translation for position paper and articles.
-Co-creation Facilitator	14,995	Development exercise through the Design Thinking methodology. With the collaboration of Manual Thinking, experts in DT methodology. WP5/T5.2.
-Catering	2,200	Coffee breaks and lunch for assistants in different dissemination actions.
-Dissemination	3,480	Video about the MELTIC Project.
	4,500	Editing and printing Vademecum.
	2,892.50	Demonstrator (of the technological proposal).
TOTAL Other Goods and Services	31,287.50	
TOTAL	33,787.50	



4.3. Stakeholders Modifications

In June 2020, MELTIC developed and set up an online discussion group with the aim of identifying a first set of lessons that need to be taken into account when considering dialogue with stakeholders. We can observe that most of the Stakeholders are in some way involved in the area of interest, ICT in Health and Biomedicine. In addition, they have different levels of participation in communities and technologies.

Some interests have lost relevance (addiction prevention as ludopathy to games and gambling), others have been increased (technological platforms) and new ones have also emerged as a consequence of the pandemic state (digital divide). Great interest expressed has been the intensive use and dependence on technological solutions in this pandemic situation, but it is anticipated that some ways of working, for example non-face-to-face work, will remain with us even after the pandemic.

However, the results of the WP3 about stakeholders, some of them that were interested, have varied over time due to the pandemic, some have abandoned the project, and new ones have been incorporated. The final balance is good, or even better than initially expected and Table 1 are presented.

Table 1. Stakeholders

Country	Stakeholder (profile)	Topic of interest	Name & surname	Occupation	Position	Organization
Spain	Parents and patients	Down syndrome patients	Daniel Morell	Project manager and technical assistant	Parents	Individual case study
Spain	health and sports		Rafael González Ruiz		President	Almonte Municipality
Spain	Social intervention		Rocío Moreno Domínguez	Trainer of volunteers	President	La Palma del Condado Municipality
Spain	Psychologist, patient coach	Autism TDH	Margarita Moreno	Technical assistant to patients	Expert / Psychology	Therapeutic Association
Spain	Support Organization for the elderly	Technologies for the elderly	Andrés Dochao	Public Servant	Project Manager	Association of La Palma del Condado Friendly City
Romania	Patients with chronic diseases	IT Technologies & compulsive gambling in rural areas & compulsive gambling prevention & Diabetics	Gheorghe Duță	Retired engineer	Employee	LAG Timis Torontal Barzava Association
Romania	Parents, health workers, professors	Sex education among teenagers	Oana Gârba	Non-governmental association	Employee	LAG Timis Torontal Barzava Association
Romania	Improving life of chronic patients using digital healthcare (for	Digital transformation in healthcare (Telemedicine)	Larissa Duță	Pharmacist	Medical device specialist	Pharma industry



Country	Stakeholder (profile)	Topic of interest	Name & surname	Occupation	Position	Organization
	example, supervision of chronic patients through mobile app, Smart watches)					
Romania	Patients	Rural Access to the Healthcare system	Oana Lazar	Chemical Engineer	Manager Medical Devices	Pharma industry
Romania	Parents, health workers, professors	Knowledge, attitude and perception of sex education among teenagers	Tania Gabor	Student	Medical Student (last year)	Victor Babes University of Medicine and Pharmacy Timisoara
Portugal	Political decision maker	Rural Access to Healthcare; Community health; Occupational health	Élia Quintas	Responsible for the health sector	Deputy Mayor	Municipality of Reguengos de Monsaraz
Portugal	Community	Local development	Esmeralda Lucena	Food engineer	Secretary on the City Council	Municipality of Reguengos de Monsaraz
Portugal	Humanitarian Organization	Community Health System	Nuno Rosmaninho	Psychologist, Director	Regional Delegate of the Portuguese Red Cross	Red Cross
Portugal	Family Doctor in the REMO – Family Health Unit	Community health	Carla Martins	Intern of General and Family Medicine	Intern doctor	REMO - Family Health Unit
Portugal	Educational Community (Whole school)	Health Education	Elsa Reis	Teacher	Health Educational Coordinator	School of Reguengos de Monsaraz
Italy	Municipality of Mirabello	TELE-MEDICINE in rural Areas	Angelo Miniello	Public Body	Mayor	Municipality of Mirabello
Italy	Molise regional Assembly	TELE-MEDICINE in rural Areas	Roberto D'Amico	Public Body	Consultant	Molise Regional Assembly
Spain	students	Professor	Coral Hernández	University	Professor	Universidad Complutense (Madrid)
Spain	students	Professor	José Antonio	University	Professor	Universidad Complutense (Madrid)
Spain	Technology for wellbeing	Engineer	Joaquín Pitu	Technology	Engineer	NGO La Piluka
Spain	users	Engineer	Pablo Marina	Technology	Research	Instituto de Salud Carlos III
Spain	Patients/citizens	Nurse	Esmeralda Santacruz Salas	University	Professor	Universidad Castilla la Mancha
Spain	Patients/citizens	Healthcare	Elvira Casado	Research	Research	Instituto de Salud Carlos III
	Patients/Users	ICT for healthcare	M ^a José de Tena	Research	Research	Instituto de Salud Carlos III



4.4. Co-creations workshops moved to semi-virtual form

The WP5 that was the core of this project has been greatly modified. The planned initial implementation of three face-to-face workshops has had to be moved to a semi-virtual form, partially carried out by videoconference. The adaptation to the change in format has resulted in a delay in obtaining the final result of this WP.



4.5. Delay and extension of the Technological platform

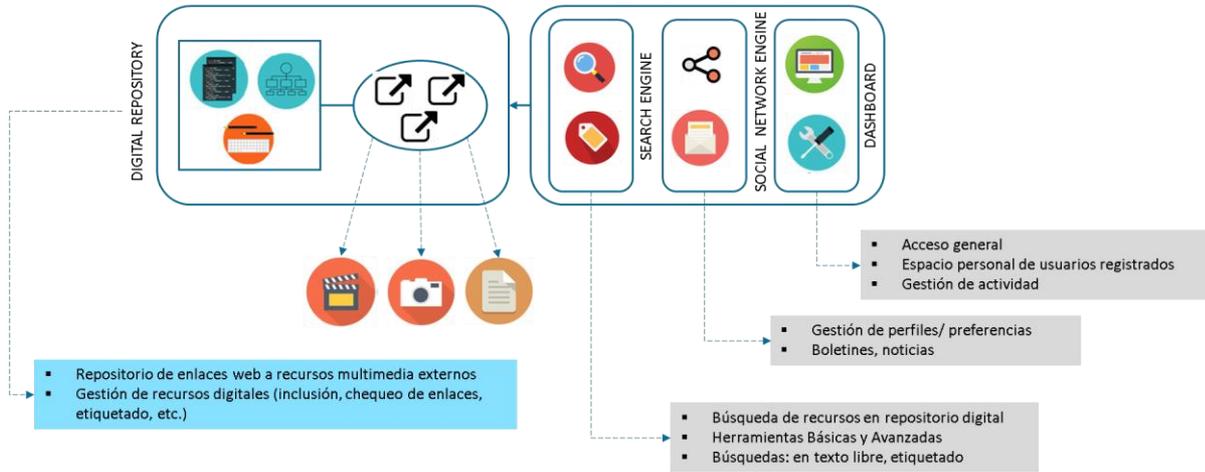
The delayed co-creation workshop and results also represent a delay in the technological WP4 proposal.

The foreseen study in MELTIC linked with practitioners contributions will also allow to identify potential impacts of new ideas for research as well as to know opportunities and risks that have not yet been systematically compared, discussed and evaluated. The consequences of this relationship are not yet fully investigated. Due the fast development in technologies and their application, there is a permanent need to monitor and support the work of ICT researchers, urban designers and social agents.

This technological proposal will be a Digital Experience Platform (DXP - Digital eXperience Platform) that provides content management capabilities and easy integration with devices and various sources through "headless" technologies. We will develop a technological proposal to support and encourage sociospatial interaction of citizens in small communities.



MELTIC PLATFORM



5. Specific objectives achieved

5.1. Realization of the MELTIC web platform

<https://www.isciii.es/QuienesSomos/CentrosPropios/UITES/Paginas/ProyectosdeInvestigacion.aspx>

Content:

1. Home
2. Consortium
3. Working Packages
4. Output
5. Newsletters and Events
6. Contact us



5.2. Deliverables

- D2 Literature review

A **review of the state of art** technologies used in projects, activities and initiatives was developed focusing on:



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement (GA) No 741527 and runs from May 2017 to October 2021.

- a) Aspects of interaction among users, ICT and social behavior
- b) Spatial analyses, planning methodologies and public involvement
- c) On-line gaming

This research identified relevant studies which exemplify the penetration of ICT in social and healthcare environments in real workflows. After reviewing the different studies, it could be stated that ICT in social and healthcare settings will play a key role in fostering ubiquitous and proactive health and healthcare services in the future.

- D3 Analysis of stakeholders and context

This research identifies stakeholders interested in how the innovative use of smart technologies can transform public spaces in small communities into people-friendly humane environments, promoting interactions and communication between isolated and disperse communities. They coincide in that ICT in social and healthcare settings will play a key role in fostering ubiquitous and proactive health oversight and health care services in the future.

MELTIC project is bringing together stakeholders from Italy, Spain, Portugal and Romania to share their interests and values, generating new ideas, concepts, products or projects.

Usually, in co-creative projects, all groups are involved and indeed continue to have an influence throughout the project's lifespan: in planning, implementation and dissemination. There exists a wide variety of stakeholders who are interested in research activities, and this will lead to relevant contributions in the procedures and scope of the scientific research. This will also provide the opportunity to incorporate contributions in the design of products, processes, or services such as online websites or applications.



6. Another considerations about WP5

Originally conceived as a face to face encounter, the Meltic Workshop brings various European municipalities together to look for health and wellbeing related solutions for small and isolated communities.

Due to the Covid-19 situation, the workshop has shifted to a virtual environment. In order to maintain a hands-on approach, the Manual Thinking tools have been used, based on a format of maps and labels on which the participants have been invited to visualize their thoughts and ideas.

A customized work-process has been designed and prepared on the tools, which will be sent out to each region. The work procedure will be supported and guided through online video meetings. The results will be presented in a dossier.

Although we would have loved to meet everybody, the workshop offers a great chance to work together long distance, saving many flights and consequent amounts of CO2 emissions.

After an instructive virtual workshop, the local municipalities will start to work with the prepared materials that will be sent to each region. In these workshops, each municipality is looking for health related problem areas, opportunities and solutions for their region. Their findings will be organized by means of maps.



7. Conclusions

This document presents a report in which the state of development of the MELTIC project is shown. The objectives in the proposal and the status of these initially planned objectives are presented, as well as the modifications of the methodology and the work plan on the projected ones and their justification.

WP2 and WP3 have been little affected by the pandemic in which we find ourselves. However, subsequent work has been influenced. The extension for 3 months in which the project is going to be developed will be an important help in achieving the objectives presented. Modifications to the initially defined program are not expected to excessively affect the development of the project, and the results we hope will be of great interest for the study of the usefulness of Information and Communication Technologies in improving health and well-being in small communities.

The redistribution of the budget will mean an improvement in the results, allowing to deepen the WP4, which was not originally planned.

The experience gained by conducting the WP5 workshops in a semi-remote-web way will allow to gain experience on remote teamwork, which means optimization of travel and time consumption.

