



Co-Funded by the Horizon 2020 programme of the European Union  
Grant Agreement: 875358



Deliverable D7.2

<FAITH website construction and maintenance>

<b>Work package:</b>	WP7 – Dissemination, Communication & Policy Engagement
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<b>Status:</b>	QA-d version
<b>Date:</b>	22/06/2020
<b>Version:</b>	0.2
<b>Classification:</b>	Public

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Authorised date: 30/06/2020

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**FAITH Project Profile****Contract No H2020-ICT- 875358**

<b>Acronym</b>	<b>FAITH</b>
<b>Title</b>	<b>a Federated Artificial Intelligence solution for moniToring mental Health status after cancer treatment</b>
<b>URL</b>	<b><a href="https://h2020-faith.eu/">https://h2020-faith.eu/</a></b>
<b>Twitter</b>	<b><a href="https://twitter.com/H2020_Faith">https://twitter.com/H2020_Faith</a></b>
<b>LinkedIn</b>	<b><a href="https://www.linkedin.com/company/faith-project">linkedin.com/company/faith-project</a></b>
<b>Facebook</b>	<b><a href="https://fb.me/H2020.FAITH">https://fb.me/H2020.FAITH</a></b>
<b>Start Date</b>	<b>01/01/2020</b>
<b>Duration</b>	<b>36 months</b>

**FAITH Partners****List of participants**

Participant No	Participant organisation name	Short Name	Country
1 (Coordinator)	WATERFORD INSTITUTE OF TECHNOLOGY.	WIT	Ireland
2	UPMC Whitfield, Euro Care Healthcare Limited.	UPMC	Ireland
3	Universidad Politécnica de Madrid.	UPM	Spain
4	Servicio Madrileño de Salud.	SERMAS	Spain
5	UNINOVA, Instituto de Desenvolvimento de Novas Tecnologias.	UNINOVA	Portugal
6	Fundação D. Anna de Sommer Champalimaud e Dr. Carlos Montez Champalimaud.	CF	Portugal
7	Deep Blue.	DBL	Italy
8	Suite5 Data Intelligence Solutions Limited.	SUITE5	Cyprus
9	TFC Research and Innovation Limited.	TFC	Ireland

*SC1-DTH-01-2019: Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment*

*H2020-SC1-DTH-2019*

FAITH is co-funded by the European Commission - Agreement Number 875358 (H2020 Programme)

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### Document Control

This deliverable is the responsibility of the Work Package Leader. It is subject to internal review and formal authorisation procedures in line with ISO 9001 international quality management system procedures.

Version	Date	Author(s)	Change Details
0.1	22/06/20	Vera Ferraiuolo (DBL)	Created table of content; sections filled.
0.2	22/06/20	Tom Flynn (TFC)	Review and QA'd version.
1.0	30/06/2020	Gary McManus (WIT)	Final release for submission to European Commission portal.

## Executive Summary

### ***Objectives:***

This website describes the FAITH website, designed and maintain within WP7 in order to foster the project's communication and dissemination activities.

### ***Results:***

The primary result of this deliverable is the presentation of the FAITH website, designed and developed as the main mean of dissemination. The public website is meant to facilitate communication and interaction with specialists, potential users, policy and decision makers, as well as the general public.

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## 1 INTRODUCTION

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This document presents the FAITH website content architecture (3) and details its development (3.1) and technical implementation processes (3.2). The deliverable also highlights the responsibilities of the different partners regarding the contribution to the website maintenance (3.3).

The Appendix (A.1) illustrates, with a series of screenshot, the main pages of the FAITH website.

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## 2 ABBREVIATIONS AND ACRONYMS

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Abbreviation	Description
CMS	Content Management System.
ICT	Information and Communications Technology.
M	Month.
WP	Work Package.

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### 3 FAITH website

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The FAITH website<sup>1</sup> has an essential role in the project dissemination. Providing a public online showcase of the project, it is the principal mean of communication of its objectives, activities and results. The public website facilitates communication and interaction with specialists and potential users, as well as the general public. It also offers the possibility of downloading documents and providing news about FAITH and its related topics by being updated regularly with public information about FAITH progress, the status of the activities and any other relevant communication.

DBL is responsible for the graphical layout, the information architecture, the implementation, and the maintenance of the website. The website will be maintained until at least two years after the end of the FAITH project.

The website architecture and content have been discussed internally with the partners to select the most appropriate ones for the website. Both the architecture and content will be updated regularly throughout the duration of FAITH.

The website has been designed with clear sections and texts, and a simple layout. Particular attention has been given to its usability, in order to facilitate the users in the information search and the contents' comprehension.

The website content is organized in the following pages:

- **Home page**, presenting general information about the project, its objectives, and the latest news published by FAITH; it also offers the opportunity of subscribing to the project newsletter;
- **About**, illustrating more technical aspects of the project, as its vision and methodology, the challenges it tackles, the validation process it employs, the expected results and related timeline;
- **Pilots**, detailing the involvement of the three trial pilots sites and their specific activities;
- **Partners**, containing a brief description of the Consortium and its members (complete with their role in the project, and linking to each member's website) and presenting the role of the Advisory Board within FAITH;
- **Resources**, reserved to communication and dissemination products related to the project (from graphic materials to the press coverage, and so on);
- **News**, hosting the monthly blog post produced by the FAITH consortium members and any other relevant news about the project.

Finally, direct links to the project social media accounts are provided in each page, both in the header (which also links the contact page) and footer bars.

#### 3.1 Website Development

Two releases of the website were delivered: an initial version, delivered at M3, and the final one, due at M6.

The preliminary website, released on the 30<sup>th</sup> of March, informed visitors that the website was under construction and presented a few key information about the project, including a brief description of FAITH, the Consortium composition, and the contact information of the Project Coordinator as well as the Dissemination Manager.

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<sup>1</sup> <https://www.h2020-faith.eu/>

## Website under construction!



The main aim of FAITH is to apply the latest **Artificial Intelligence (AI)** and **Big Data** analytics techniques to better model and predict disease/treatment trajectories of cancer patients, with the goal of improving their quality of life and aftercare.

To protect privacy but still gain useful insights, FAITH will apply the concept of **federated machine learning**, which makes it possible to build machine learning systems without direct access to personal data. Devices private to the patient will run their own personalised AI models, via the project's '**AI Angel**' application, while a global AI model aggregates the individual model learnings (rather than the traditional approach of a central repository of holding all private patient data). FAITH's 'AI Angel' will remotely analyse depression markers, predicting negative trends in patients' disease trajectory.

FAITH involves cancer hospitals and specialists to provide relevant applicable cancer care related use cases that can effectively leverage a big data framework. FAITH will have **trial sites** in Madrid, Waterford, and Lisbon, with real end users to assess and validate the adoption and usage of the FAITH technologies and platform.

### Consortium

WIT | UPMC | UPM | SERMAS | UNINOVA | Fundação Champalimaud | DEEP BLUE | SUITE5 | TFC Engage

### Project coordinator

Gary McManus (WIT): [gmcmanus@tssg.org](mailto:gmcmanus@tssg.org)

### Dissemination manager

Vera Ferraiuolo (Deep Blue): [vera.ferraiuolo@dblue.it](mailto:vera.ferraiuolo@dblue.it)

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 875358.



Figure 1: Preliminary website release

After releasing the initial website, DBL started designing the final one.

DBL proposed a first information architecture, graphical style and layout, and contents draft, which the partners then reviewed and discussed. Following the first technical implementation, contents management, graphical layout and

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technical implementation proceeded in parallel, continuously testing and refining the solutions proposed through an iterative process that was repeated until the whole Consortium agreed upon the final website.

The final layout includes the structure, as well as the graphical elements of the website: font type and size, colours, interaction models and wireframes of the web pages, and images (see Appendix A.1).

### **3.2 Technical Implementation**

The FAITH website is designed on a Content Management System technical platform, specifically the Wordpress CMS, which represents an easy to manage platform, allowing the integration of different functionalities and tools, and granting easy future modifications and add-ons to both the structure and characteristics of the website.

Specific attention is given to the ICT security for the website. Regular checks and repeated updates of technical software and associated plugins should limit likelihood of malicious and unwanted access.

### **3.3 Responsibilities and Contributions**

DBL is responsible of designing, realizing, maintaining and updating the website. The contents are managed directly by DBL; however, these activities will be carried out in close cooperation with the whole consortium.

#### **3.3.1 Maintenance**

DBL will maintain the website to ensure its adherence to project status. In particular, some information (such as news and dissemination materials) is updated continually.

#### **3.3.2 Partners contribution**

All partners are asked to provide feedback, information, documents, news, or any other material they consider useful to disseminate the FAITH progress and results.

In addition, each partner will contribute to partner focused rotation blog post system, which are run monthly to communicate and detail further key aspects of FAITH.

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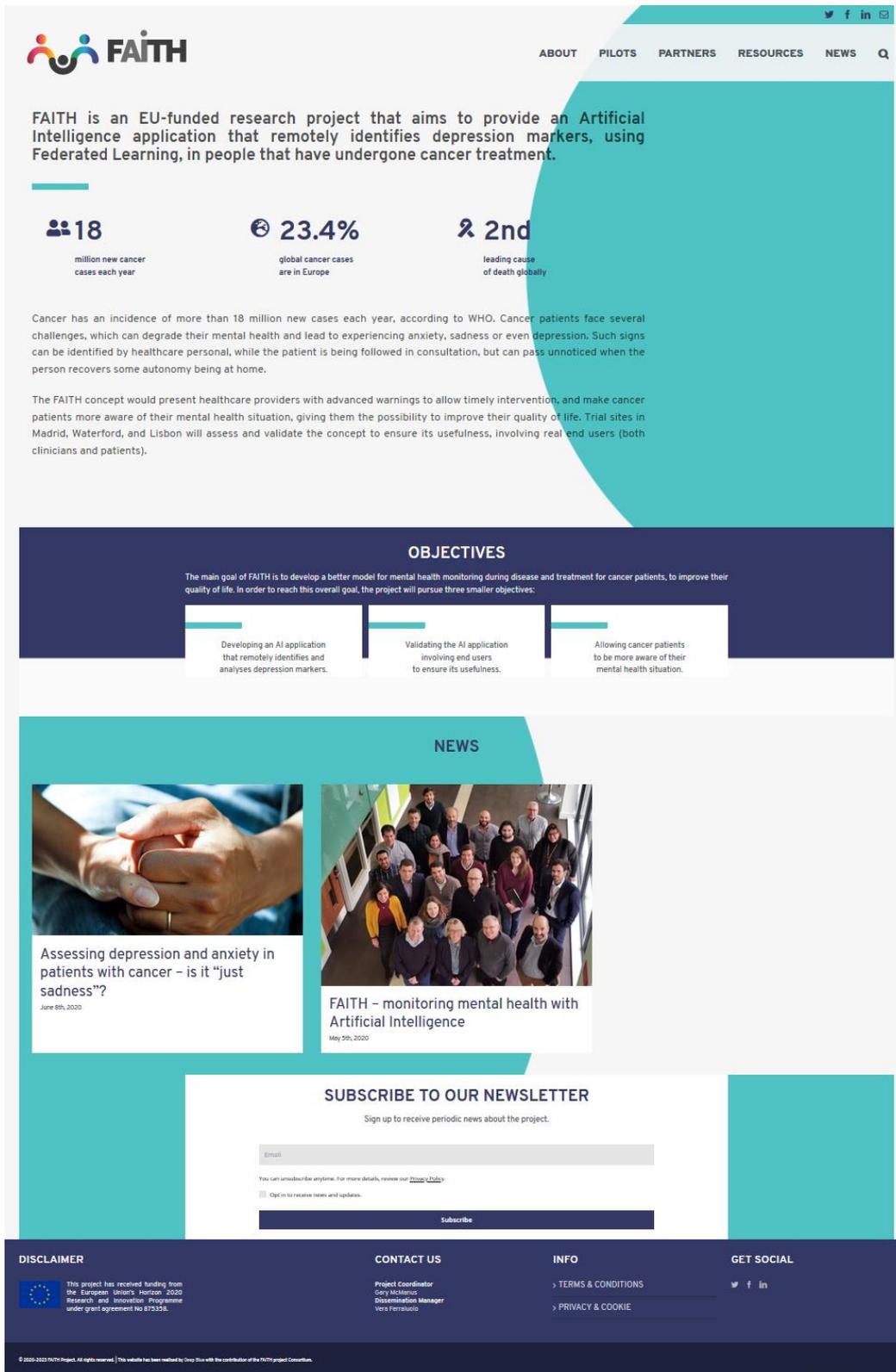
## 4 CONCLUSIONS

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This deliverable presented the FAITH website, designed and developed as the main mean of dissemination.

# APPENDIX

## A.1. Screenshots of the FAITH website





- ABOUT
- PILOTS
- PARTNERS
- RESOURCES
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## VISION & METHODOLOGY

### Supporting the quality of life of patients undergoing cancer treatment.

FAITH aims to provide an Artificial Intelligence application that identifies and analyses depression markers in people that have undergone cancer treatment, with the goal of making them more aware of their mental health situation, and giving them the possibility to improve their quality of life. In order to do so, FAITH will collect and monitor a range of health indicators. These will allow FAITH to analyse and infer information about the mental status and quality of life of a person in a non-intrusive way.

## CHALLENGES

-  Using the right data  
FAITH's 'AI Angel' analyses depression markers to predict negative trends in patients' mental health.
-  Tackling privacy issues  
The selected markers refer to several lifestyle categories, including activity, outlook, sleep, and appetite.
-  Supporting clinicians
-  AI transparency
-  Engaging users

## VALIDATION

FAITH will have trial sites in three hospitals through the European Union (in Spain, Ireland and Portugal). They will carry out trial pilots involving real end users (both clinicians and patients) to assess and validate the adoption of the FAITH concept. After an initial requirements gathering, the concept will be prototyped for a real-life situation trial to use at the hospital pilot sites. The trials, specifically related to each use case, will allow FAITH to be validated by doctors and patients according to their specific needs. This input will feed back further round of requirements gathering and concept refinement. All pilots will be subject to the highest ethical standards to assure the privacy and protection of data.

[FIND OUT MORE ABOUT THE VALIDATION PROCESS](#)

## EXPECTED RESULTS

FAITH will provide an Artificial Intelligence application that remotely identifies and analyses depression markers to predict negative trends in people that have undergone cancer treatment. This concept would present healthcare providers with advanced warnings to allow timely intervention, and allow cancer patients to be more aware of their mental health situation and improve their quality of life.

## TIMELINE



### DISCLAIMER



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**FAITH will have trial sites in three hospitals:**

- Champalimaud in Lisbon, Portugal
- HUGGM in Madrid, Spain
- UPMC in Waterford, Ireland

This hospital will carry out pilot pilots involving real end users (both clinicians and patients) to assess and validate the adoption of the FAITH concept.

After an initial requirements gathering, the concept will be prototyped for a real-life situation trial to use at the hospital pilot sites. The trials, specifically related to each use case, will allow FAITH to be validated by doctors and patients according to their specific needs.

Results and findings from pilots' evaluation will be used as feedback and input for a further round of requirements gathering and concept refinement.

All pilots will be subject to the highest ethical standards to ensure the privacy and protection of data.

### IMPLEMENTATION PHASES

**1 Preparation**

Initial assessment of user needs and requirements from end users (hospitals, doctors and patients), relevant stakeholders and policy makers.

Preparation, development and approval of the clinical trial protocol.

**2 Prototyping**

Drafting the architecture specifications, data reference models and real-life site cases scenarios. Building the platform and feeding data to the framework. Developing user acceptance criteria and users' feedback questionnaires. Developing validation criteria from the doctors' perspective.

**3 Trials**

Iterative trials in a real-life situation at the hospital pilot sites. Doctors and patients validate the FAITH framework with regards to their specific needs. Then, feedback from these trials feeds back into a second, and third, round of requirements gathering.

**4 Delivery**

Final testing and validation to assess the healthcare, societal and business impact of the deployed FAITH Framework.

Expectation of market deployment activities.

### PILOTS TRIAL SITES

#### Champalimaud Clinical Centre | Lisbon, Portugal

Since 2010, the Champalimaud Centre for the Unknown (CCU) has been a state-of-the-art centre for research, diagnosis and treatment of cancer in Portugal. It houses the Champalimaud Clinical Centre (CCC), whose multidisciplinary teams focus their activity on the patient, offering care of excellence based on the most advanced technological means. Since its creation, the CCC has been involved in more 60 clinical studies, with a focus on clinical research and practice in cancer, systems pathology and neuropsychiatry.

**Users**

As a clinical partner, the Champalimaud Clinical Centre will involve 100 ambulatory, community dwelling, lung cancer patients (of any type) with indication for oncological treatment over five years. All patients will receive psychological and cognitive assessments through psychosocial questionnaires, neuropsychological testing, and other constructs. The CCC will monitor them for 12 months after their first appointment.

#### Hospital U. Gregorio Marañón | Madrid, Spain

The Hospital General Universitario Gregorio Marañón (HUGGM) is part of the Servicio Madrileño de Salud, which manages and provides health services in the Public National Health Care system in the Region of Madrid. HUGGM comprises more than 20 buildings and employs over 1500 professionals. The HUGGM provides direct healthcare to 450,000 citizens, and is the referral center for high-tech care at a national level. Its Medical Oncology Service, composed by a multidisciplinary team of professionals, delivers comprehensive and individualized care to patients with different oncological pathologies, providing access to the most effective oncological treatments available on the market, as well as novel drugs in the process of development through participation in clinical trials.

**Users**

The pilot study will comprise 100 patients that are survival of breast cancer. They will be monitored to evaluate their quality of life and highlight possible aftercare needs, in order to provide better, personalized interventions.

The information obtained will allow doctors and healthcare professionals to detect different disorders that would help to design protocols and standards of care for an early intervention, improving patient's quality of life.

#### UPMC | Waterford, Ireland

A \$21 billion healthcare provider and insurer, Pittsburgh, Pennsylvania-based UPMC is inserting new models of patient-centred, cost-effective, accountable care. Working in close collaboration with the University of Pittsburgh Schools of the Health Sciences, UPMC shares its clinical, managerial and technological skills worldwide.

Providing high-quality healthcare in South East Ireland since 2006, UPMC's operations in Ireland now include UPMC Whitefield Hospital in Waterford, UPMC Kildare Hospital in Clane, the UPMC Cancer Outreach Centre, UPMC Hillman Cancer Centre radiotherapy locations at UPMC Whitefield and in Co. A, and the UPMC Concussion Network. UPMC is the Official Healthcare Partner of the GAA and GFL.

**Users**

UPMC will be the main Irish pilot trial site, focusing on breast cancer patients as the selected use case and target group for FAITH. UPMC recognizes that caring for the wellbeing and mental health of patients on treatment - and of those who have completed treatment - is just important as providing advanced, high-quality clinical care. Combined with offering the most advanced oncology care to patients close to home, UPMC's team of oncologists intends to offer the FAITH tool to patients to identify patients who would benefit from follow-up care with their oncologist, GP or referral to their local Cancer Support Centre.

**DISCLAIMER**

The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement 101019720.

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### CONSORTIUM

Our consortium comprises Cancer Hospitals (Champalimaud, HGUGM and UPMC), technology and data experts (WIT, UNINOVA and Universidad Politécnica de Madrid), and SMEs (Deep Blue, Suite5 Data Intelligence Solutions and TFC Research and Innovation Limited).

FAITH brings together partners from five European countries (Ireland, Portugal, Spain, Italy and Cyprus) into a strong multi-disciplinary team. Brought together, our expertise will allow us to realize our vision of supporting patients with depression undergoing cancer treatment.

**Waterford Institute of Technology**

WIT is one of the largest Institutes of Technology's in Ireland. It hosts the Telecommunications Software & Systems Group (TSSG), an internationally recognized centre of excellence for ICT research and innovation. WIT is the principal coordinator of the project. It will lead all management and technical oversight of the project's delivery.

**UPM - LifeSTech**

UPM is the largest Spanish technological university. It comprises the Life Supporting Technologies (LifeSTech) research group, devoted to designing, developing and evaluating ICT based services and applications oriented to e-Health. UPM will oversee the design and implementation of the system architecture, and lead the pilot trials activities.

**Servicio Madrileño de Salud**

SERMAS comprises a network of 36 hospitals in the Region of Madrid, including the Hospital General Universitario Gregorio Marañón (SERMAS-HGUGM), whose Medical Oncology Service provides individualized oncological care. As end user, HGUGM will test the FAITH concept, support the requirements gathering, and provide insights for functional requirements and technical specifications.

**UPMC**

UPMC is a private hospital committed to the provision of high quality, patient centred care. It includes the UPMC Hillman Cancer Centre, which has treated more than 17,000 patients. UPMC Whitefield will actively support the testing of the project, participating in the initial requirements gathering and in the later trials phase.

**UNINOVA Institute**

UNINOVA is a research institute working closely to industry to ensure proper technology transfer to business. UNINOVA comprises various centres of excellence, including the Centre of Technology and Systems (CTS). UNINOVA-CTS will be responsible for integrating the hospital data into FAITH, and ensuring data interoperability and privacy.

**Fundação Champalimaud**

Pursuing excellence in biomedical science, it comprises the Champalimaud Clinical Centre (CCC), dedicated to research, diagnosis and treatment of disease, including cancer. The CCC offers patient care based on the most advanced technologies. It will be involved in the validation trials of FAITH, including the collection of users' needs.

**Deep Blue**

An Italian research and consultancy SME specialized in human factors and user-centred design, safety, validation and dissemination, operating in complex critical domains, like Healthcare and Industry 4.0. Deep Blue will contribute to the collection of requirements and users' needs, and also lead the dissemination of the project.

**Suite5**

Suite5 provides research-inspired innovation for its clients. Delivering data-driven intelligence solutions, it helps organizations improve their competitiveness and efficiency. Suite5 will support the research and development of the FAITH concept, and investigate the best exploitation paths to ensure it reaches the market.

**TFC**

TFC is an SME company with decades of experience in standardization, dissemination and go-to-market strategies. TFC helps to bridge the gaps between scientific research results with industry take up opportunities. TFC will lead the standardization and quality management, and also support dissemination, communication, and exploitation.

### ADVISORY BOARD

FAITH will avail of the support provided by an External Advisory Board (EAB) to help with the project direction, its research and to ensure that the project outcomes are really useful and effective.

The EAB acts as an independent body, consisting of a group of key stakeholders who have expertise in the field FAITH explores. The External Advisory Board will help with innovation, technological and market acceptance, and take-up opportunities of FAITH, as well as fostering a balanced innovation management process to maximise on scientific excellence, community engagement and exploitation. Specifically, its members will:

- promote and raise awareness of FAITH both within and beyond their organisation and projects;
- offer guidance and feedback on the approach FAITH is taking;
- provide FAITH with information and guidance concerning synergies with the relevant activities of their ongoing work in the healthcare areas.

Overall, the involvement of the EAB through a series of workshops, demonstrations and pilots ensures that the project delivers real valued results and gains exposure for a wider market take-up.

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This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No. 101019714.

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## Assessing depression and anxiety in patients with cancer – is it “just sadness”?

Diagnosis of cancer can severely impact emotional health. Both patients and their families commonly feel psychological changes that include distress, [...]

June 8th, 2020 | Categories: News | Tags: Cancer, Depression, Emotional health, Mental health

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## FAITH – monitoring mental health with Artificial Intelligence

Clinicians and technology experts gathered in Waterford in February to launch the FAITH project. FAITH is an EU-funded research project [...]

May 5th, 2020 | Categories: News

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