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Deliverable D7.5

Report on eHealth at Home Installations

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 DEC: Websites, patents filing, press & media actions, videos, etc.
 OTHER: Software, technical diagram, etc.

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Executive Summary

This deliverable concerns installation activities for the eHealth Use Cases of the Municipality of Pilea-Hortiatis (GR) Pilot Site. The installations consisted of three respective phases.

The Pre-installation phase included mainly the citizens recruiting activities and the selection and testing of equipment. MPH has identified elder and middle-aged citizens (use case end users) and recruited them with the help of health professionals. GDPR rules and restrictions were fully met during the recruitment period.

The installation phase included the actual hardware and software deployment. A number of medical devices and building sensors were deployed by the technical personnel. VICINITY components and Value-Added Services were also deployed on secure servers.

Finally, the post-installation phase, which will continue until the end of the project, requires continuous support and maintenance of hardware and software equipment; while the satisfaction of the end-users is crucial for their continued support of the project, thus much effort is being spent towards this end.

Overall, the installation at the MPH Pilot Site has been considered successful while the users become familiar with the use of eHealth technologies, which respects their data protection needs.

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List of Definitions & Abbreviations

Abbreviation	Definition
EC	European Commission
EU	European Union
Ft.	featuring
GDPR	General Data Protection Regulation
P2P	Peer to Peer
VAS	Value-Added Service
WP	Work Package

1. Introduction

The aim of this report - “D7.5 - Report on eHealth at Home Installations” - is to present the work that has been undertaken for Pilea-Hortiatis pilot site installations.

While different milestones were set during the installation process, the overall project milestone for the installations, Month 39 (March 2019) needs to be met.

The goals of this task were to: identify the citizens and homes that will participate in the use cases, install physical IoT devices (hardware) and deploy VICINITY components and Value-Added Services (VASs).

The work was divided in three phases, each with different focus and workload, which is thoroughly described in this document.

1.1. Context within VICINITY

The hardware and software installation phases of this Task are described based on the agreed, common methodology and plans specified in Task 7.1. Pilea-Hortiatis, as all pilot sites, have to install and deliver their solution as described and test them in real environment which includes stakeholders as operators and users.

Four pilot sites are connected to the VICINITY platform in order to demonstrate benefits in terms of new functionalities and interoperability of different IoT infrastructures. The presence of real-life stakeholders greatly enhances the chances of further exploitation both locally and through worldwide dissemination of results. The deliverable D7.5 describes the results obtained within Task 7.5 and presents one or the four reports regarding the four pilot site areas installations, which are described in the context of Work Package 7.

Delivered results of previous tasks, are required for the realization of this deliverable. The required input for this work concerns Value-Added Services implementation (D5.2), VICINITY use cases testing and integration (D6.1, D6.2, D6.3) and installation planning (D7.1). Furthermore, the work of this deliverable enables the Pilot Site realization and evaluation, which is the work in progress of Task 8.5. The relations of this deliverable that were mentioned above are presented in Figure 1-1.

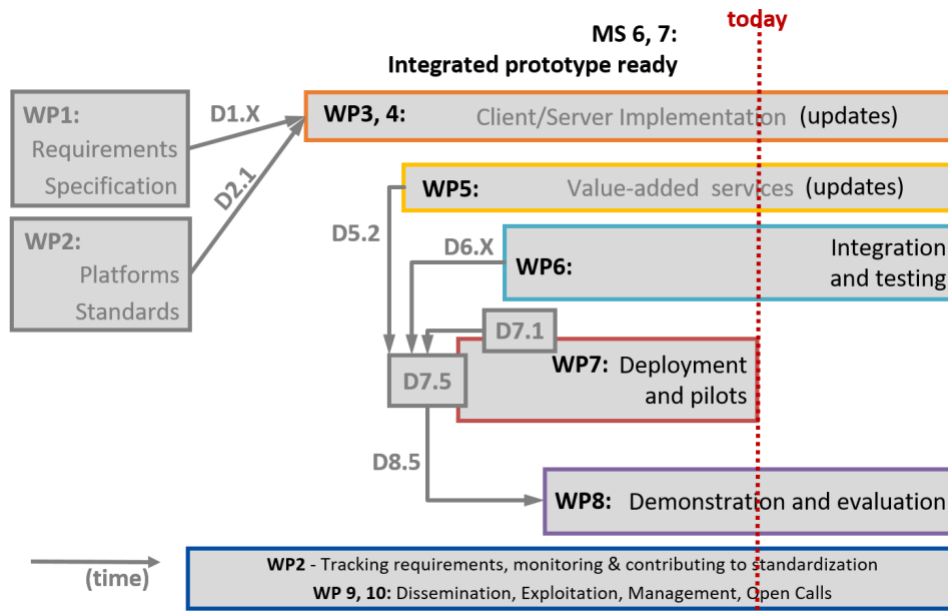


Figure 1-1 Relation of D7.5 with other WPs

1.2. Objectives in Work Package 7 and Task 7.5

The objective of Work Package 7 is to plan, install and report the actions that were taken to have the Pilot Site IoT infrastructure up and running within VICINITY platform. The plan and methodology that is used, was described in detail in Deliverable D7.1.

Work Package/Task	Description and Objectives
WP7	<ul style="list-style-type: none"> - WP7 describes the detailed planning and work for all the pilot installations. After extensive testing in WP6 (Integration & Lab testing) the IoT devices and services are brought on a larger scale at the real-world demonstration pilot sites, for evaluation (WP8) and demonstration of the VICINITY framework. - The purpose of this WP is to perform the actual installation and integration of the identified IoT devices per Use Case to the VICINITY platform and to deploy the Value-Added Services, implemented in WP5. Moreover, the goal is to establish the pilot test and evaluation infrastructures required for an effective evaluation in WP8.
T 7.5	<p>Task 7.5 refers to the actions that have been undertaken in order to deploy the Pilea-Hortiatis (GR) Pilot Site use cases' hardware equipment, VASs and VICINITY Components. Pilea-Hortiatis (GR) Pilot Site use cases include physical deployment in a number of elderly citizens' houses and municipal sport centres, delivery of equipment to middle-aged citizens, training of citizens and health professionals for devices and apps usage and many other activities in this context which are described in the following sections.</p>

Table 1: WP and Task Objectives

1.3. Structure of the Deliverable

This deliverable is structured as follows. **Chapter 2** presents the Methodology based on which the installation work was conducted. **Chapter 3** gives a brief description of the Pilot Site, while **Chapters 4, 5 and 6** present the work that has been conducted in each of the three installation phases that were described in Chapter 2. The deliverable concludes in **Chapter 7**.

2. Methodology

The pilot area installations are divided in three phases, as it was defined in D7.1 [3]: Pre-installation, Installation and Post-installation.

Phase 1: Pre-installation

The Pre-installation phase was designed to let the partners responsible select, purchase and test the devices to be installed. Each Pilot Site has a hardware catalogue where the purpose and technical details of the devices were given and a software catalogue detailing the VICINITY components and VASs that would be deployed.

Phase 2: Installation

The Installation phase refers to the actual activity of installation of all the devices according to the hardware catalogue and the deployment of software components according to the software catalogue.

Phase 3: Post-installation

The final phase was designed in order to support current installations and make replacements or upgrades if needed. This activity will be continuous until the end of the project and is supported by T5.3 activities in terms of software installations.

3. Description of Pilea-Hortiatis Pilot Site (GR)

The Pilea-Hortiatis Pilot Site demonstrates two large-scale eHealth use cases. A large number of different IoT infrastructures had to be deployed in order to show the potential of VICINITY in smart city applications.

Use Case 3.1 (Assisted Living for elderly people) is presented in summary in Figure 3-1. A total of 34 elderly citizens’ homes are currently participating in the use case and are supervised by the municipal doctor. Two more health professionals are expected to participate in the use case starting in April 2019 until the end of the project, December 2019.

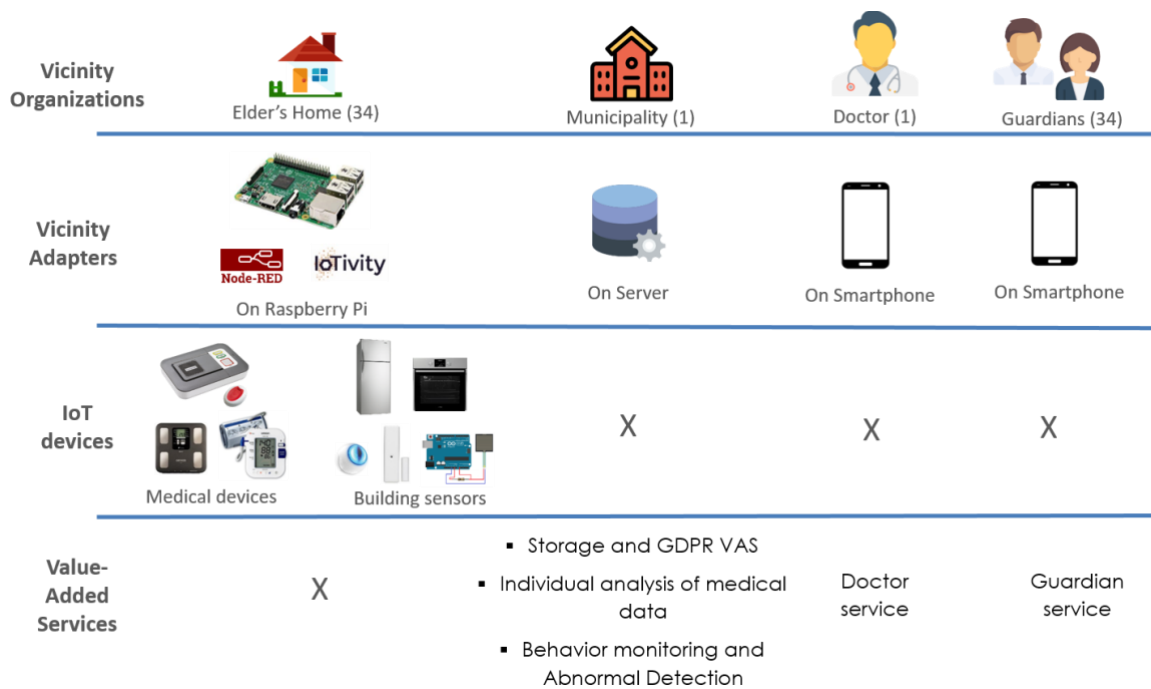


Figure 3-1 Use case 3.1

Use Case 3.2: (Health Improvement for middle-aged citizens) is presented in summary in Figure 3-2. A total of 50 middle-aged citizens are participating in the use case 3.2, which are supervised and examined bi-weekly by the municipal dietician.

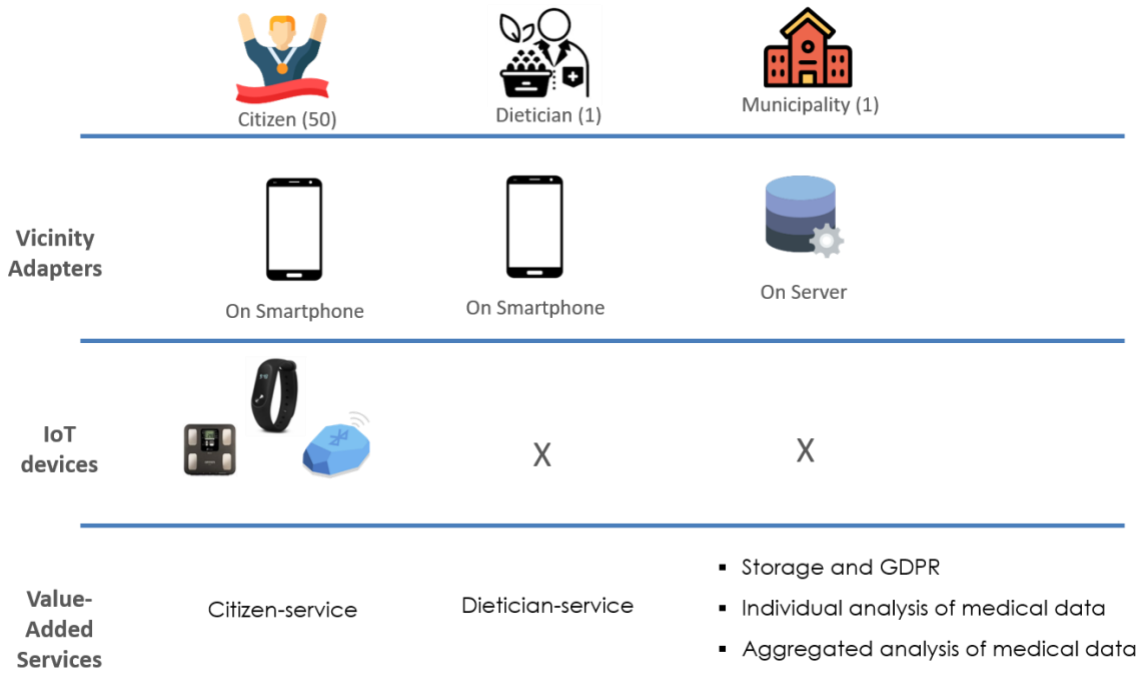


Figure 3-2: Use case 3.2

4. Pre-Installation Phase

A part of the pre-installation phase was realized in T7.1 activities, but the period also included T7.5 activities, until early in November 2018, in order to fully prepare for the large-scale pilot installations. The elderly and the middle-aged citizens recruitment procedure was a major task of this phase.

The health professionals of MPH have informed the participating citizens in person, regarding the two eHealth VICINITY use cases, examined them and got their medical history in order to introduce them to the program. They have also informed them about the installation of devices in their homes and the impact that this would have in their everyday life. Several dissemination activities and particularly visits to the Municipal Houses for the Elderly (KAPH) took place in order to inform the possible end-users and their relatives of the new services provided. A journalist was hired by the MPH for that purpose who helped in the promotion of the program.

During the pre-installation phase:

- homes with existing equipment from previous health programs that could be integrated in VICINITY were identified by MPH,
- new equipment that would need to be purchased was identified in cooperation with MPH health professionals and technical team of CERTH and GNOMON,
- new equipment was purchased by MPH and GNOMON,
- new homes that would participate in the assisted living use case were identified by MPH health professionals,
- Urban Marathon use case participants were identified by MPH health professionals.

At the same time, prior to deployment, several tests of the hardware and software were performed by CERTH and GNOMON:

- the equipment was tested in office or lab before installation,
- the VICINITY Core Components were tested in office or lab,
- the VICINITY adapters were tested in office or lab,
- the VICINITY VASs were tested in office or lab.

Regarding the deployment of VICINITY Core Components and VASs:

- a certificate from the Hellenic Data Protection Authority (DPA) was acquired in order to conform to the Greek regulations regarding data protection, This was in relation to the MPH server which would host the VICINITY Components and VASs.

During this period several meetings between MPH, CERTH and GNOMON were held in order to:

- continuously, report the status of the elder and middle-aged citizens' recruitment procedure,
- discuss the functionality and usability of hardware and software equipment with health professionals,
- organize the planning of installations.

5. Installation Phase

Installation phase included several activities:

- Visits to the recruited elder citizens homes by the technical personnel responsible for the installations together with the health professionals. We have deployed VICINITY infrastructure in two types of houses as defined in D5.1 and D7.1. House Type 1 includes medical devices, while House Type 2 mainly includes building sensors and smart appliances. Figure 5-1 presents a House Type 1 installation of a panic button to an elderly citizen’s home.
 - 24 House Type 1 homes were equipped with medical devices
 - 9 House Type 2 homes were equipped with building sensors
 - 1 House Type 2 home was equipped with building sensors and Gorenje smart appliances
- Visits to 10 sport centres for the deployment of Beacon sensors and the promotion of the programme. These included, placement of posters and face-to-face meetings with the citizens who regularly exercise at the municipal facilities. These visits have helped in the recruitment procedure, conducted by the dietician and other pilot representatives (Figure 5-2, Figure 5-3).
- Delivery of activity trackers and user’s training on their usage by the MPH dietician and the technical team.
- Training of health professionals on the usage of the health mobile apps.
- Deployment of VASs and VICINITY Components on the MPH Server.
- A lawyer was hired by the MPH for preparing the consent and delivery forms (Annex I) to be signed by all participants and all the steps of the procedure to be in compliance with GDPR rules.
- Test measurements were taken in all cases of equipment delivery to verify that everything works as expected.

The procedure included communication between the technical personnel, the health care professional and the elderly or middle-aged citizens, in order to arrange specific dates for the visits regarding actual installation. During the visits the technical personnel installed and tested the respective hardware and demonstrated its usage to both citizens and health professionals. Prior to this, a meeting between the health professional and the citizen was held, in order to inform the citizen about the health program and the impact it would have to his/her life.

The installations of this phase enable the Pilot Site realization required for the most effective evaluation in WP8.



Figure 5-1 House Type 1 installation of panic button and elder training

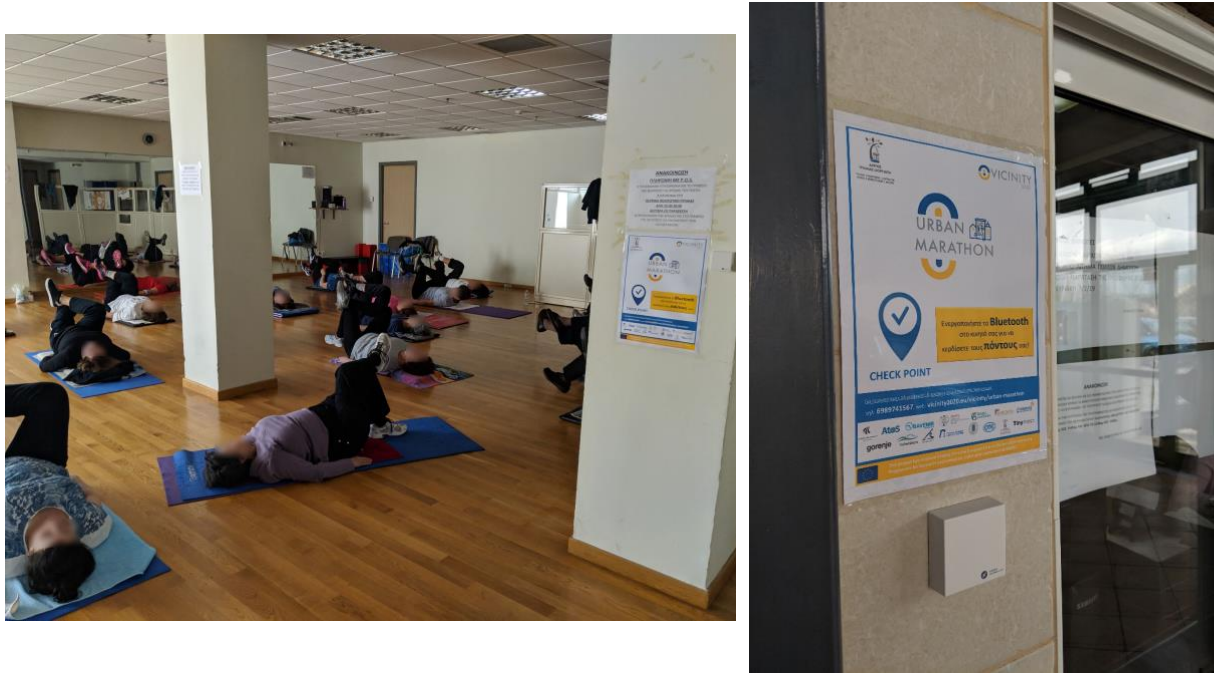


Figure 5-2 Municipal Sport Centres installations

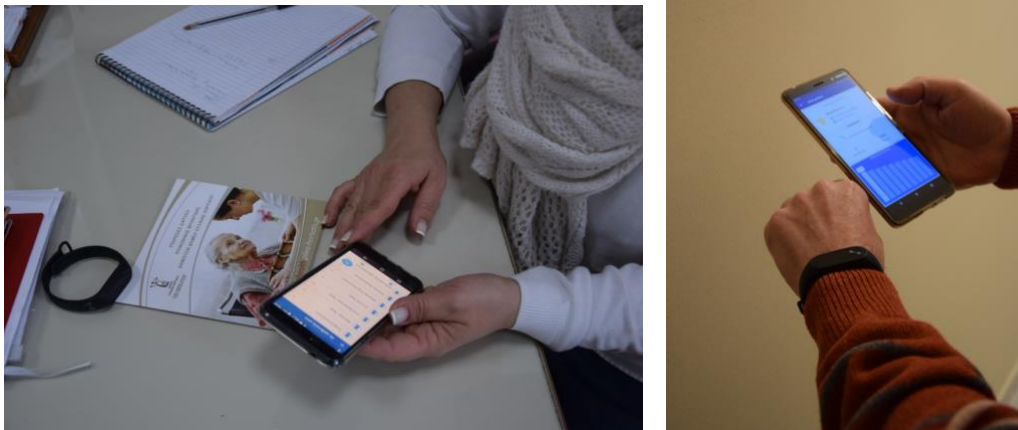


Figure 5-3 Dietician and users training on application

Deviations

- Most of the house type 2 elderly participants have rejected the offer of the installation of the bed sensor. Some have suggested that they sometimes sleep on the couch and sometimes on bed, while others considered it too private.
- During this phase we have unfortunately lost one of our elderly participants. This is a sad event that we unfortunately have to face in AAL use cases, and reduces the number of the deployed houses.

5.1. Hardware Installation

The installed hardware according to the catalogue presented in D7.1 is shown below in Table 2.

Device type and vendor	Functionality	Number of installed units	Use Case	Location
Blood Pressure monitor 708-BT Omron	Measures blood pressure	12	3.1, 3.2	Elders' houses type 1,2 ¹
Weight monitoring device BF206-BT Omron	Measures Weight in Kg	10	3.1, 3.2	Elders' houses type 1,2 and middle-aged citizens' houses
Panic button Model # Company	Triggered if button is pressed	12	3.1	Elders' houses type 1,2
Motion sensors FGMS-001 Fibaro	Triggered when a motion is detected in the room	40	3.1	Elders' houses type 2
Interlink Electronics 1.5" Square 20N FSR	Triggered when a person lies on the bed	1	3.1	Elders' houses type 2
Arduino MKR Wifi 1010	Read the pressure mat measurement	1	3.1	Elders' houses type 2
Door Sensors FGDW-002 Fibaro	Triggered when a door is opened or closed	10	3.1	Elders' houses type 2
Raspberry Pi 3 Model B+ Raspberry Pi Foundation	Gateway for devices and sensors	10	3.1	Elders' houses type 1,2
Raspberry Pi Model B Raspberry Pi Foundation	Gateway for devices and sensors	24	3.1	Elders' houses type 1,2
Raspberry Pi Z-wave shield ZMEERAZ2 RaZberry	Shield for communication with Z-wave devices	10	3.1	Elders' houses type 2
Routers D-Link DWR-921 Wireless N 4G LTE Router	Wireless Internet connection	24	3.1	Elders' houses type 1,2

¹ House types 1,2 as they were defined in D5.1.

OTE				
Gorenje refrigerator Model # Gorenje	Refrigeration	1	3.1	Elders' houses type 2
Gorenje oven Model # Gorenje	Cooking	1	3.1	Elders' houses type 2
Wearable fitness trackers Mi Band 2 Xiaomi	Measures human activity by measuring steps, heart rate etc.	50	3.2	To be worn by middle-aged citizens of MPH
Beacons Model # Sensoro	Transmits a BT signal with certain power which alternates when other BT devices are close.	10	3.2	Sport facilities of MPH

Table 2 Hardware Catalogue

5.2. Value added services Deployment

Ref.	Value-Added Service Name	Version	Deployment
VAS 3.1.1, 3.2.1	Privacy-preserving Data Gathering and Storage ft. GDPR data auditing	0.0.1	Deployed on MPH server, where relevant MySQL is deployed as well
VAS 3.1.2	Analysis and clustering of elderly's people medical data to detect unusual behavioural events	0.0.1	Deployed on MPH server, where relevant MySQL is deployed as well
VAS 3.1.3	Triggering abnormal detection in homes	0.0.1	Deployed on CERTH server, where relevant MySQL is deployed as well

VAS 3.2.2	Individual Statistical Analysis of data from wearables, medical devices, beacons	0.0.1	Deployed on CERTH server, where relevant MySql is deployed as well
VAS 3.2.3	Aggregated Statistical Analysis of data from wearables, medical devices, beacons	0.0.1	Deployed on CERTH server, where relevant MySql is deployed as well

Table 3 Deployed Value-Added Services

5.3. VICINITY Software Components Deployment

VICINITY Component Name	Version	Deployment
VICINITY Gateway API	0.6.3.1	Deployed on MPH server
VICINITY multi-Agent	0.6.3.1	Deployed on MPH server
VICINITY Adapter (NodeRed)	0.0.1	On raspberry pi
VICINITY Adapter (IoTivity)	0.0.1	On raspberry pi

Table 4 Deployed VICINITY Software Components

6. Post-Installation Phase

Some of the post-installation phase actions include:

- Continuous remote monitoring of hardware in order to identify “dead” devices
- Visits if needed in cases of battery replacements, broken equipment replacement if available, removal of equipment, change location of equipment etc.
- Software component upgrades (both VASs and VICINITY)
- Monitoring of elderly and middle-aged citizens by health professionals and evaluation of the solutions in use.
- A crucial point for the success of the pilot is to keep the elderly committed to the project. It needs a constant care by the health professionals; their regular visits and calls to maintain their interest. It is not uncommon for the elderly to change their mind and ask for the removal of the devices. Maintaining their satisfaction is a key component for the success of the project.
- Maintaining the commitment of the end users is also important for the middle aged in Use Case 3.2. MPH is devoting many efforts on that.

Lessons Learnt from installation phase

Prior to the deployment of software and hardware equipment, the pre-installation, installation and post-installation responsibilities had to be determined. Planning of the work was indeed a helpful activity in terms of both equipment and human resources regarding the installation and post-installation phases. Installation required visiting different houses and buildings, with different needs, space arrangements, existing equipment etc. Some of these different cases were not foreseen from the beginning of the installation phase and they had to be gradually adapted in the preparation process required prior to each installation.

7. Conclusions

Installation activities have been a really interesting part of the project, since they move a lab installation to a larger scale environment, with different requirements and parameters giving rise to many different installation variations. These have become lessons learnt for following installations.

Good collaboration with stakeholders has helped the installation activities for planning and actual deployment. The involved citizens, have gladly accepted the deployment visits, the installed equipment and have received training where needed.

Special focus was given to the protection of the citizens' data, respecting the GDPR regulations. DPIA of the Municipality of Pilea – Chortiatis in the frame of the Project "VICINITY" (8.1) was prepared by the municipality, while Consent and Equipment Delivery forms (8.2, 8.3) were prepared by the municipality and signed by the citizens who participate in VICINITY project, in order to assure that they are aware of the data they are sharing, to whom and for which purpose, in compliance to GDPR.

Our next steps are to maintain the installations in a good condition and do appropriate actions of replacement if needed in order to fulfil evaluation period of the pilot site. Significant effort will be devoted also to maintain the interest of the recruited end users.

8. References

- [1] <http://www.vicinity-h2020.eu>
- [2] ICT 30 – 2015: Internet of Things and Platforms for Connected Smart Objects - <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/914-ict-30-2015.html>
- [3] D7.1 Pilot area installation methodology and planning, [link](#)

Annex I

8.1. DPIA of the Municipality of Pilea – Chortiatis in the frame of the Project “VICINITY”

8.1.1. Introduction

This document is a Data Protection Impact Assessment (DPIA) evaluating the handling of the personal data of the beneficiaries that are being processed in the frame of the project “VICINITY” by the Municipality of Pilea - Chortiatis. The DPIA is an analysis of the expected processing activities and covers details of the processing activity itself and an assessment of the risks associated with the processing activities including any measures that have been taken or need to further be taken in order to mitigate those risks. It also contains the decision on whether to initiate a prior consultation with the relevant DPA.

This DPIA is being performed due to the requirement that per Article 35 of the GDPR, which provides that when processing is likely to result in a high risk to the rights and freedoms of natural persons, the controller shall carry out an assessment of the impact of the processing.

Assessments have value to individuals, the project itself as well as to society. This DPIA assesses the risks to personal privacy of the assessment process and identifies the measures, safeguards and mechanisms in place to mitigate those risks, and identifies whether the necessity of processing personal data balances out the privacy rights of collecting and processing the data.

8.1.2. Project details

The table below sets out key information about the project:

Key information		
(a)	Data Controller	The Municipality of Pilea Chortiatis <i>(as being the one who determines the purposes and means of the processing of personal data following the provisions of the Project VICINITY)</i>
(b)	Data Processors	1) GNOMON S.A. 2) CENTER FOR RESEARCH AND TECHNOLOGY HELLAS (CERTH). <i>(as being the ones that process personal data on behalf of the controller)</i>
(c)	Description of project	The project is split in two major Use Cases, the so called “eHealth and Assisted Living for elderly people at home” and the “Health improvement for the middle-aged persons”. The first focuses on elderly citizens. An IoT based system consisting of various sensors (i.e. motion sensors, door sensor, panic button, pressure mat) and IoT devices (i.e. weight scale monitor, blood pressure monitor, panic button) is installed in beneficiaries’ houses. Not all houses will have all the sensors installed. The collected data are then forwarded to software services (developed by GNOMON and CERTH) via the VICINITY network to analyze the behavior of the beneficiary inside the home environment and trace divergences from their normal behavior in order to assist health

		<p>professionals in the evaluation of their health status and suggest measures for its amelioration.</p> <p>As for the second use case, it mainly focuses on the middle-aged population of the Municipality. Its main goal is to promote a healthier lifestyle for the citizens to adopt, under the motivational concept of a municipal-scale competition (“urban marathon”), that will prevent future health issues and reduce relevant costs. Data are collected by activity trackers that will be shared among the participants and be synchronized with a mobile application. Further IoT devices that will provide relevant data are the beacons, installed at the municipality’s athletic facilities, and blood pressure and weight scale monitors, placed at the health professionals (i.e. dieticians) office. The collected data are then forwarded to software services (developed by GNOMON and CERTH) via the VICINITY network to improve the citizen’s achievements during the competition.</p>
(d)	Purpose of project	<p>Regarding the first use case, the project aims to prolong and support the independent living of older adults in their living environments and respond to real needs of caregivers using the IoT technologies.</p> <p>As for the second use case, the project’s goal is to help middle-aged citizens adopt healthy habits and thus preventing future health issues, resulting less visits to health care providers or dieticians and less primary institutional costs for health services.</p>
(e)	Data subjects (called “Beneficiaries” within this document)	<p>65+ (for the first Use Case) 40+ (for the second Use Case)</p>
(f)	Types of personal data	<ul style="list-style-type: none"> - Simple Data (name, surname, address) - Device Data (Information related to their movement habits inside the house, including entering and exiting, as well as pressing the panic button. Environmental information such as temperature and luminance of the house, IP Data. Information related to entering the athletic facilities) - Data from the evaluation of the project questionnaires - Health Data (blood pressure, weight, activity tracker data)
(g)	Special categories of data	Health Data
(h)	Recipients of personal data: who will be able to see and have access to assessment results	<p>The following roles will have access to the data:</p> <ul style="list-style-type: none"> • Simple personal data: Administrative staff/Health Professionals • Health data/Evaluation Data/Device Data: Health professionals <p>The data from the devices is being processed by the processors of the project.</p>

8.1.3. Step 1: Identify the need for a DPIA

Explain broadly what project aims to achieve and what type of processing it involves. You may find it helpful to refer or link to other documents, such as a project proposal. Summarize why you identified the need for a DPIA.

The project aims to prolong and support the independent living of older adults in their living environments and respond to real needs of caregivers using the IoT technologies.

In order to achieve this, it is necessary to process the following 4 data categories:

- 1) Simple personal data, such as name, surname, address of the beneficiaries, collected and stored for the identification of the beneficiaries. Simple personal data are being processed with the informed consent of the beneficiaries on the legal basis of article 6 par. 1 a of the GDPR.
- 2) Data that derive from the devices, i.e. motion sensors, door sensor and panic buttons, are collected, stored and combined by the processors, in a pseudo-anonymized form, thus making it impossible to identify the natural persons. Device data are being processed with the informed consent of the beneficiaries on the legal basis of article 6 par. 1 a of the GDPR.
- 3) Evaluation Data: Data from clinical, quality of life and usage satisfaction of questionnaires, that the beneficiaries answer to the health care professionals and are processed on the legal basis of article 6 par. 1 a of the GDPR.
- 4) Health data are collected, stored and evaluated by health professionals bound by professional secrecy (doctor, nurse and nutritionist). Health data are processed on the legal basis of article 9 par. 2 a and h of the GDPR. Health Data is being stored at the healthcare professionals filing system and the data center of the Municipality of Pilea Chortiatu and do not derive from the devices. Only healthcare professionals have access in the written and electronic form, that are bound by professional secrecy.

8.1.4. Step 2: Describe the processing

Describe the nature of the processing: how will you collect, use, store and delete data? What is the source of the data? Will you be sharing data with anyone? You might find it useful to refer to a flow diagram or other way of describing data flows. What types of processing identified as likely high risk are involved?

Simple personal data of the beneficiaries are being processed by the administrative staff and the health professionals who collect and store the data in order to identify and provide the services to the beneficiaries. Simple and health data are kept in written form in locked lockers accessible only by healthcare professionals. They are also kept electronically in the data center of the Municipality of Pilea Chortiati, also accessible only by the healthcare professionals, who are bound by professional secrecy.

Regarding the data that derive from devices of the use case “eHealth and Assisted Living for elderly people at home” the flow is as follows: GNOMON S.A. and CERTH are responsible for installing the devices and the IoT platform in the beneficiary’s home. Under the concept of VICINITY, each home is considered as a VICINITY node. Specifically, an aggregation device is installed that is responsible for the collection and forwarding - via the VICINITY network - of all device data to a cloud infrastructure where they are stored. The cloud infrastructure belongs to the Data Controller (The Municipality of Pilea Chortiatis). The aggregation device also transmits its IP address that can be used for remote technical support and is accessible only by the Data Controller. Apart from the storage, the collected data are also forwarded to the so called Value-Added Services*, developed by GNOMON S.A. and CERTH, which are responsible for analyzing them and, so, detecting abnormalities and triggering relevant notifications to relatives, keeping track of audit logs and producing individual statistics.

As for the data coming from the use case “Health improvement for the middle-aged persons” the flow is as follows: middle-aged citizens visit the collaborating dietician who is responsible to deliver them an activity tracker and guide them through the registration steps for the municipal-scale competition “urban marathon”. Registration is done via an Android mobile application installed on the user’s device and by providing weight and height measurements. As each mobile is considered a VICINITY node, the latter measurements will be forwarded via the VICINITY network to assign an initial category to the participant and generate a 2-week plan that the user has to follow to improve his/her competition ranking. As a result, each participant has to follow a 2-week visit plan to the dietician as well, in order to be a valid competitor. Ranking improvements could occur by gaining points thanks to improved weight measurements and regular visits to the municipality’s athletic facilities. All measurements, coming from the activity tracker, beacon and dietician’s weight scale monitor, are forwarded via the VICINITY network to relevant Value-Added Services*, developed by GNOMON S.A. and CERTH, which are responsible for analyzing them.

An Android mobile application, extended for the VICINITY case, will be used by relatives and the collaborating – identified and authorized by the Municipality – health care personnel to monitor the received data in both use cases. All users and relatives, as well, can keep control of who accessed his/her data thanks to the relevant auditing mechanism offered by one of the Value-Added Services mentioned above. The same mobile application will be used by the participants of the “urban marathon”.

In addition, for the needs of the middle-aged scenario, a web application is developed and offers options to view the anonymized statistical analysis of the municipality citizens data and keep track of their health condition. This web application can also be used to provide a visual proof of how

the use case facilitates health improvement of middle-aged citizens and, so, achieves its goal. The access to this platform is strictly restricted to administrative staff.

In case the panic button is clicked by the beneficiary an SMS is sent to a relative of the beneficiary.

After the evaluation of the device data, in case it is necessary, an email is sent to the doctor (plus a notification to his mobile application) and/or the relative of the beneficiary.

In case there is a malfunctioning related to the smart home installation or a need for software update, the Data Controller informs GNOMON S.A. or CERTH, who are responsible for providing technical support. There are two different technical support scenarios:

- 1) GNOMON S.A. or CERTH visits the beneficiary's home along with the corresponding health professional
- 2) The Data Controller uses the IP address of the beneficiary to access remotely the installed IoT platform, while GNOMON S.A. or CERTH have an advisory role in the whole procedure and are not aware of the beneficiary's IP address.

In case a beneficiary decides to drop out from the project, all related data are immediately deleted from the infrastructure database by the Data Controller.

In relation to the Evaluation data that are gathered during the baseline, intermediate and final evaluation period, that questionnaires are distributed by the health care personnel (doctor, nurse, psychologist, dietician) who are responsible for the recruitment of the users. The data gathered are then anonymized by the health care personnel and uploaded.

***Value-Added Services** a Value-Added Service could be defined as a piece of software that implements an algorithm (from a simple calculation/data processing to some advanced techniques such as clustering/big data analytics, storage and auditing, etc). A Value-Added Service is based on the available IoT data from other IoT infrastructures and is fully integrated with the VICINITY infrastructure.

Describe the scope of the processing: what is the nature of the data, and does it include special category or criminal offence data? How much data will you be collecting and using? How often? How long will you keep it? How many individuals are affected? What geographical area does it cover?

The data concern people living in the area of the Municipality of Pilea – Chortiatis that are of age 65+. Specifically, 150 beneficiaries will participate in the project.

The following table represents the frequency of data collection for each type of data:

Data category	Type of data	Frequency of data collection
Simple personal data	Personal information, such as name, surname, address	Once, during the installation of the IoT platform
Health data	Medical History	During the provision of health services by the health care professionals (doctor, nurse and psychologist) bound by professional secrecy
Evaluation data	Data from clinical, quality of life and usage questionnaires e.g EQ-5D-3L, FES-1, UCLA, IADL, ADL, UEQ etc	Depending on the questionnaire are gathered on three different evaluation periods: <ul style="list-style-type: none"> - Baseline evaluation - Intermediate evaluation - Final evaluation
Device data	Motion sensor data	Whenever motion is detected
	Temperature data	Whenever there is a temperature change greater than a pre-defined threshold i.e. 1 °C
	Luminance data	Whenever there is a luminance change greater than a pre-defined threshold i.e. 50 lux
	Door sensor data	Whenever door opening/closing is detected
	Panic button	Whenever the panic button is pressed by the beneficiary

Simple, device data and evaluation data are going to be kept only for the need of the project and according to the provisions of the project.

Health data are going to be kept for at least ten years after the last visit of the beneficiaries as the greek law (law 3418/2005) provides for the medical files.

Describe the context of the processing: what is the nature of your relationship with the individuals? How much control will they have? Would they expect you to use their data in this way? Do they include children or other vulnerable groups? Are there prior concerns over this type of processing or security flaws? Is it novel in any way? What is the current state of technology in this area? Are there any current issues of public concern that you should factor in? Are you signed up to any approved code of conduct or certification scheme (once any have been approved)?

Children do not participate at the project.

By participating at the project they are provided complete, concrete and simple information about the project, the identity and the contact details of the controller, the contact details of the data protection officer, the purposes of the processing for which the personal data are intended as well as the legal basis for the processing, the recipients or categories of recipients of the personal data including the processors, their rights according to the GDPR and the right to lodge a complaint with a supervisory authority, according to article 13 of the GDPR.

The beneficiaries have given their explicit consent to the purposes of the processing, i.e. the placement of the devices, the processing in an pseudo-anonymized form of the device data for the provision of the medical services, as well as for research, for the storage of their medical file.

Regarding the processing of the collected data there are no prior concerns related to security flaws. Pseudo-anonymization is a well-known technique for protecting personal data and compliant with GDPR.

Describe the purposes of the processing: what do you want to achieve? What is the intended effect on individuals? What are the benefits of the processing – for you, and more broadly?

The purpose of the aforementioned processing is to support the autonomous living of the elderly people in their living environments, as well as to use the results of this project in order to achieve the implementation of smart living solutions based on IoT and to promote quality of life of older people in Europe in general.

8.1.5. Step 3: Consultation process

Consider how to consult with relevant stakeholders: describe when and how you will seek individuals' views – or justify why it's not appropriate to do so. Who else do you need to involve within your organisation? Do you need to ask your processors to assist? Do you plan to consult information security experts, or any other experts?

Consultation with all relevant stakeholders (controller, processors, health care professionals) has already taken place.

8.1.6. Step 4: Assess necessity and proportionality

Describe compliance and proportionality measures, in particular: what is your lawful basis for processing? Does the processing actually achieve your purpose? Is there another way to achieve the same outcome? How will you prevent function creep? How will you ensure data quality and data minimisation? What information will you give individuals? How will you help to support their rights? What measures do you take to ensure processors comply? How do you safeguard any international transfers?

The legal basis of processing the simple personal data, evaluation data and device data is article 6 par. 1 a of the GDPR and the processing of the health data is article 9 par. 2 a and h of the GDPR.

The processing have been checked on the grounds of proportionality and data minimization, so no unnecessary data is being collected.

8.1.7. Step 5: Identify and assess risks

Describe source of risk and nature of potential impact on individuals. Include associated compliance and corporate risks as necessary.	Likelihood of harm	Severity of harm	Overall risk
<p>Collection of health data. The health data are collected by healthcare professionals bound by professional secrecy and are safely locked. Access is only granted to healthcare professionals.</p>	<p>Remote</p>	<p>Significant</p>	<p>Low</p>
<p>The device data are processed pseudo - anonymized by processors using high technology techniques of pseudo - anonymization. Only health care professionals have access to them.</p>	<p>Remote</p>	<p>Minimal</p>	<p>Low</p>

8.1.8. Step 6: Identify measures to reduce risk

Identify additional measures you could take to reduce or eliminate risks identified as medium or high risk in step 5				
Risk	Options to reduce or eliminate risk	Effect on risk	Residual risk	Measure approved
		Eliminated reduced accepted	Low medium high	Yes/no

8.1.9. Step 7: Sign off and record outcomes

Item	Name/date	Notes
Measures approved by:		Integrate actions back into project plan, with date and responsibility for completion
Residual risks approved by:		If accepting any residual high risk, consult the ICO before going ahead
DPO advice provided:	Stavroula Chatzidimitriou, 1/10/2018	DPO should advise on compliance, step 6 measures and whether processing can proceed
<p>Summary of DPO advice:</p> <p>The processing of the data is based on the valid legal basis described above. All the principles of processing are fulfilled and all the necessary technical and organization measures have been taken. The processing can keep on going without harm on the individuals.</p>		
DPO advice accepted or overruled by:		If overruled, you must explain your reasons
Comments:		
Consultation responses reviewed by:		If your decision departs from individuals' views, you must explain your reasons
Comments:		
This DPIA will kept under review by:		The DPO should also review ongoing compliance with DPIA

8.2. Consent Forms (in Greek)

Use Case 3.1: An example of a consent form for an Elderly person is given below.

This of necessity in Greek. The Introductory two paragraphs may be translated as follows:

The Municipality of Pilea-Hortiatis implements the European research program "VICINITY", aiming at promoting autonomous living and healthy aging of older people.

Within the framework of the above program, the Municipality of Pylaia-Hortiatis places new technology devices in the home of the benefiting citizens, who will collect data from motion, input-output sensors, "intelligent" pressure mat, "smart refrigerator", "smart oven" and panic button.

ΕΝΗΜΕΡΩΣΗ – ΣΥΓΚΑΤΑΘΕΣΗ

Ο Δήμος Πυλαίας-Χορτιάτη υλοποιεί το ευρωπαϊκό ερευνητικό πρόγραμμα «VICINITY», με στόχο την προώθηση της αυτόνομης διαβίωσης και της υγιούς γήρανσης ατόμων μεγαλύτερης ηλικίας.

Στο πλαίσιο του παραπάνω προγράμματος, ο Δήμος Πυλαίας-Χορτιάτη τοποθετεί συσκευές νέας τεχνολογίας στο σπίτι των συμμετεχόντων ωφελούμενων πολιτών, οι οποίες θα συλλέγουν δεδομένα από αισθητήρες κίνησης, εισόδου-εξόδου, «έξυπνο» πατάκι επαφής, «έξυπνο ψυγείο», «έξυπνο φούρνο» και κουμπί πανικού.

Τα δεδομένα αυτά, τυγχάνουν επεξεργασίας κατόπιν ανωνυμοποίησης με ειδικό λογισμικό και τα αποτελέσματά τους αξιολογούνται από επαγγελματίες υγείας και κοινωνικής φροντίδας του Δήμου Πυλαίας-Χορτιάτη, με σκοπό τη σύσταση περαιτέρω υποδείξεων για τη βελτίωση της υγείας των ωφελούμενων, την παροχή υπηρεσιών κοινωνικής φροντίδας, πρόνοιας καθώς και γενικότερων υπηρεσιών υγείας.

Οι συσκευές καταγράφουν τις συνήθειες του ωφελούμενου ως συνηθισμένη συμπεριφορά. Μόλις εντοπιστούν αποκλίσεις από τη συνηθισμένη συμπεριφορά, αποστέλλεται ειδοποίηση μέσω της εφαρμογής του VICINITY στα εξουσιοδοτημένα τρίτα/συγγενικά πρόσωπα του ωφελούμενου που ο ίδιος έχει ορίσει.

Στην περίπτωση της εκ μέρους του ωφελούμενου ενεργοποίησης του κουμπιού πανικού, ενημερώνεται η ΜΚΟ Γραμμή Ζωής, η οποία τον καλεί προκειμένου να του παράσχει υπηρεσίες ψυχοκοινωνικής υποστήριξης.

Κατόπιν των ανωτέρω, σας ενημερώνουμε για τα παρακάτω:

➤ Προσωπικά σας δεδομένα που επεξεργαζόμαστε:

Για την εκδήλωση ενδιαφέροντος και την συμμετοχή σας στο πρόγραμμα, ο Δήμος Πυλαίας Χορτιάτη συλλέγει απλά προσωπικά σας δεδομένα, όπως το ονοματεπώνυμό σας, το όνομα του πατέρα και της μητέρας σας, την ημερομηνία γέννησής σας, το ΑΜΚΑ σας και την διεύθυνση και το τηλέφωνο επικοινωνίας σας.

Ο ιατρός, η ψυχολόγος και η νοσοκόμα του προγράμματος επεξεργάζονται τα δεδομένα σας που προκύπτουν από τις συσκευές, καθώς και το απαραίτητο ιστορικό σας με σκοπό την παροχή υπηρεσιών υγείας και ψυχοκοινωνικής υποστήριξης.

Επίσης, συλλέγεται η πληροφορία της εκ μέρους σας χρήσης του κουμπιού πανικού.

➤ Σκοπός συλλογής των προσωπικών σας δεδομένων:

Ο Δήμος Πυλαίας – Χορτιάτη επεξεργάζεται τα παραπάνω απλά σας προσωπικά δεδομένα για την εκδήλωση ενδιαφέροντος και την συμμετοχή σας στο πρόγραμμα.

Ο ιατρός, η ψυχολόγος και η νοσοκόμα επεξεργάζονται τα παραπάνω προσωπικά σας δεδομένα προκειμένου να σας παρέχουν υπηρεσίες υγείας και ψυχοκοινωνικής υποστήριξης.

Η πληροφορία της εκ μέρους σας χρήσης του κουμπιού πανικού συλλέγεται προκειμένου να λάβει το σχετικό σήμα η ΜΚΟ Γραμμή Ζωής και να σας καλέσει προκειμένου να σας παρασχεθούν εκ μέρους του προσωπικού της υπηρεσίες ψυχοκοινωνικής υποστήριξης. Οι πληροφορίες που οι ίδιοι γνωστοποιείται στο προσωπικό της ΜΚΟ Γραμμή Ζωής δεν κοινοποιούνται στον Δήμο Πυλαίας-Χορτιάτη.

Τα δεδομένα σας κατόπιν ανωνυμοποίησης τυγχάνουν επεξεργασίας για ερευνητικούς και στατιστικούς σκοπούς.

➤ **Αποδέκτες των προσωπικών σας δεδομένων:**

Τα προσωπικά σας δεδομένα συλλέγονται από τον Δήμο Πυλαίας-Χορτιάτη και τυγχάνουν επεξεργασίας από τον ιατρό, την ψυχολόγο και την νοσοκόμα άπαντες δεσμευόμενοι από το επαγγελματικό τους απόρρητο.

Η ΜΚΟ Γραμμή Ζωής, ούσα η ίδια υπεύθυνος επεξεργασίας, ενημερώνεται για την εκ μέρους σας χρήση του κουμπιού πανικού και σας καλεί τηλεφωνικώς προκειμένου να σας παράσχει το προσωπικό της υπηρεσίες ψυχοκοινωνικής υποστήριξης σύμφωνα με τις πληροφορίες που ο/η ίδιος/α χορηγείτε. Ο Δήμος Πυλαίας-Χορτιάτη αναλαμβάνει την ενημέρωση της ΜΚΟ Γραμμή Ζωής για την χρήση του κουμπιού πανικού και η ΜΚΟ Γραμμή Ζωής αναλαμβάνει την υποχρέωση για την τηλεφωνική σας κλήση και την παροχή των ψυχοκοινωνικών υπηρεσιών. Τους όρους επεξεργασίας των δεδομένων σας από την ΜΚΟ Γραμμή Ζωής τους καθορίζει η ίδια.

Στο πλαίσιο τεχνικής υποστήριξης και τοποθέτησης των συσκευών και των λογισμικών ο Δήμος Πυλαίας-Χορτιάτη συνεργάζεται με την ΓΝΩΜΩΝ ΠΛΗΡΟΦΟΡΙΚΗΣ Α.Ε. (εταιρία που παρέχει υπηρεσίες σχεδιασμού και ανάπτυξης καινοτόμων και αξιόπιστων συστημάτων λογισμικού) και το Εθνικό Κέντρο Έρευνας και Τεχνολογικής Ανάπτυξης (Ε.Κ.Ε.Τ.Α.) -www.certh.gr- (Νομικό Πρόσωπο Ιδιωτικού Δικαίου (ΝΠΙΔ) μη κερδοσκοπικού χαρακτήρα που εποπτεύεται από τη Γενική Γραμματεία Έρευνας και Τεχνολογίας (ΓΓΕΤ) του Υπουργείου Παιδείας), καθόσον πρόκειται για φορείς, οι οποίοι, επίσης, συμμετέχουν, στο ευρωπαϊκό πρόγραμμα «VICINITY».

Ο Δήμος υποχρεούται σύμφωνα με τον νόμο να κοινοποιεί στοιχεία σε δημόσιες αρχές και υπηρεσίες ή νομικά πρόσωπα δημοσίου δικαίου, φορολογικές υπηρεσίες, δικαστικές αρχές ή / και άλλες εποπτικές ή ελεγκτικές αρχές, στο πλαίσιο της δικαιοδοτικής τους αρμοδιότητας ή/και σε τρίτους που έχουν έννομο συμφέρον, για την θεμελίωση, άσκηση ή υποστήριξη νομικών αξιώσεων.

➤ **Νομική βάση επεξεργασίας:**

Οι νομικές βάσεις για τις παραπάνω επεξεργασίες των προσωπικών σας δεδομένων είναι η συναίνεσή σας για την χορήγηση των απλών προσωπικών σας δεδομένων για την συμμετοχή σας στο πρόγραμμα (άρθρο 6 παρ. 1 περ. α του Γενικού Κανονισμού για την Προστασία των Δεδομένων Προσωπικού Χαρακτήρα, εφεξής ΓΚΠΔ), η λήψη υπηρεσιών υγείας από επαγγελματίες του χώρου της υγείας δεσμευόμενοι από το επαγγελματικό τους απόρρητο (άρθρο 9 παρ. 2 περ. η' του ΓΚΠΔ), η εξυπηρέτηση επιστημονικής έρευνας και στατιστικών σκοπών κατόπιν ανωνυμοποίησης (άρθρο 9 παρ. 2 περ. ι' του ΓΚΠΔ), καθώς και η κοινοποίηση στοιχείων σε Αρχές στο πλαίσιο της δικαιοδοτικής του αρμοδιότητας ή/και σε τρίτους που έχουν έννομο συμφέρον για την υποστήριξη νομικών αξιώσεων, όπως ορίζεται από τον νόμο (άρθρο 9 παρ. 2 στ' του ΓΚΠΔ).

➤ **Χρόνος διατήρησης των προσωπικών σας δεδομένων:**

Τα δεδομένα σας διατηρούνται για όσο χρόνο απαιτηθεί για τις ανάγκες συμμετοχής σας στο πρόγραμμα και σύμφωνα με την κείμενη νομοθεσία για το χρόνο διατήρησης των εγγράφων από τους ΟΤΑ, καθώς και τον Κώδικα Ιατρικής Δεοντολογίας αναφορικά με την παροχή υπηρεσιών εκ μέρους του ιατρού.

➤ **Τα δικαιώματά σας:**

- η συμμετοχή σας στο πρόγραμμα είναι εθελοντική και μπορείτε ανά πάσα στιγμή να αποχωρήσετε από το πρόγραμμα χωρίς αρνητικές συνέπειες,
- έχετε το δικαίωμα πρόσβασης στα δεδομένα σας,
- έχετε το δικαίωμα να ζητήσετε τη διόρθωση ή τη συμπλήρωση των δεδομένων σας, εάν αυτά είναι ανακριβή ή ελλιπή,
- έχετε το δικαίωμα να ζητήσετε τη διαγραφή δεδομένων σας, εκτός εάν ορίζει αντίθετα η κείμενη νομοθεσία,
- έχετε το δικαίωμα να ζητήσετε τον περιορισμό ή/και την αντίταξή σας στην επεξεργασία των δεδομένων σας,

Τα ανωτέρω δικαιώματά σας ασκούνται με την υποβολή αιτήματος στον Υπεύθυνο Προστασίας Δεδομένων του Δήμου μας, για την ικανοποίηση του οποίου σας χορηγούμε την αντίστοιχη απάντηση, στα εξής στοιχεία:

Δήμος Πυλαίας-Χορτιάτη

Απόστολου Σαμανίδη 21

Πανόραμα

TK 55236

T. 231330100

E-mail: dpo@pilea-hortiatis.gr

- έχετε το δικαίωμα να υποβάλλετε καταγγελία στην Αρχή Προστασίας Δεδομένων Προσωπικού Χαρακτήρα, εάν θεωρείτε ότι η επεξεργασία των Δεδομένων σας γίνεται με τρόπο αντίθετο στη νομοθεσία.

ΔΗΛΩΣΗ ΣΥΓΚΑΤΑΘΕΣΗΣ

Κατόπιν των ανωτέρω και αφότου ενημερώθηκα, πλήρως, για το περιεχόμενο και τους σκοπούς του Προγράμματος «VICINITY», με την παρούσα δηλώνω ότι:

- ✓ συγκατατίθεμαι στη συλλογή και επεξεργασία των παραπάνω αναλυτικά αναφερομένων προσωπικών μου δεδομένων από τον Δήμο Πυλαίας - Χορτιάτη, με σκοπό την συμμετοχή μου στο πρόγραμμα και την παροχή υπηρεσιών υγείας και ψυχοκοινωνικής υποστήριξης.
- ✓ Αντιλαμβάνομαι ότι οι συσκευές του προγράμματος «VICINITY» είναι απλές και η χρήση τους δεν υπερβαίνει τους κινδύνους της καθημερινής ζωής. Συμφωνώ οι συντελεστές του προγράμματος και το προσωπικό αυτών να τοποθετήσουν τις παραπάνω συσκευές στο σπίτι μου, και συμφωνώ ότι φροντίζουν, ώστε οι συμμετέχοντες να κατανοήσουν την χρήση των συσκευών και δεν ευθύνονται για οποιαδήποτε ζημία προκύψει από ή με αφορμή τη χρήση τους.
- ✓ Συγκατατίθεμαι στην ειδοποίηση του/της στην περίπτωση που ανιχνευθεί ασυνήθιστη συμπεριφορά μου.

- ✓ Αντιλαμβάνομαι ότι οι υπηρεσίες που θα μου παρέχονται στο πλαίσιο του προγράμματος αυτού δεν έχουν το χαρακτήρα άμεσης δράσης, με την έννοια ότι δεν υποκαθιστούν το ΕΚΑΒ και δε μου εξασφαλίζουν την άμεση επέμβαση σε επείγοντα ιατρικά περιστατικά, ούτε υποκαθιστούν τους θεράποντες ιατρούς τους οποίους οφείλω να επισκέπτομαι. Συνακόλουθα, ο Δήμος Πυλαίας-Χορτιάτη, οι εκτελούντες την επεξεργασία και το απασχολούμενο στο πρόγραμμα προσωπικό δε φέρουν καμία ευθύνη άμεσης και έκτακτης παροχής ιατρικής συνδρομής ή/και ειδοποίησης των συγγενών μου ή του ΕΚΑΒ για την περίπτωση που εμφανίσω έκτακτο περιστατικό στην υγεία μου

Πανόραμα, ___ / ___ / 20___

Ο/η ωφελούμενος/η

Use Case 3.2: Consent Form of Middle-Aged

ΕΝΗΜΕΡΩΣΗ – ΣΥΓΚΑΤΑΘΕΣΗ

Ο Δήμος Πυλαίας-Χορτιάτη υλοποιεί το ευρωπαϊκό ερευνητικό πρόγραμμα «VICINITY», με στόχο την προληπτική ιατρική και την ευαισθητοποίηση φυσικής άσκησης για άτομα μέσης ηλικίας με σκοπό την υγιή γήρανση.

Στο πλαίσιο του παραπάνω προγράμματος, ο Δήμος Πυλαίας-Χορτιάτη παρέχει στους ωφελούμενους φορητή συσκευή καταγραφής άσκησης που φοριέται στο χέρι (fitness tracker).

Επίσης, θα εγκατασταθούν «Έξυπνοι» φάροι αναγνώρισης των φορητών συσκευών (beacons) σε δημοτικά σημεία άθλησης (π.χ. Ολυμπιακό Αθλητικό Κέντρο Πανοράματος, Δημοτικό Κολυμβητήριο, Δημοτικά Γυμναστήρια), ώστε να γίνεται αντιληπτή η παρουσία των ωφελούμενων στους χώρους αυτούς στο πλαίσιο του προγράμματος.

Οι ωφελούμενοι θα εγκαθιστούν μια εφαρμογή κινητού τηλεφώνου (mobile app) παρακολούθησης των μετρήσεων των παραπάνω συσκευών, τα αποτελέσματα των οποίων θα αξιολογούνται από τον ιατρό και την διαιτολόγο του προγράμματος. Εκτιμώντας τα αποτελέσματα αυτά θα παρέχουν στους ωφελούμενους υποδείξεις για την διατροφή, την άσκηση και την γενικότερη βελτίωση της υγείας τους.

Κατόπιν των ανωτέρω, σας ενημερώνουμε για τα παρακάτω:

➤ **Προσωπικά σας δεδομένα που επεξεργαζόμαστε:**

Για την εκδήλωση ενδιαφέροντος και την συμμετοχή σας στο πρόγραμμα, ο Δήμος Πυλαίας Χορτιάτη συλλέγει το ονοματεπώνυμό σας, το όνομα του πατέρα και της μητέρας σας, την ημερομηνία γέννησής σας, το ΑΜΚΑ σας και την διεύθυνση και το τηλέφωνο επικοινωνίας σας.

Ο ιατρός και η διαιτολόγος του προγράμματος επεξεργάζονται τα δεδομένα σας που προκύπτουν από τις συσκευές, και ειδικότερα: από την φορητή συσκευή καταγραφής άσκησης που φοριέται στο χέρι (fitness

trackers), την φυσική δραστηριότητά σας, τον αριθμό των βημάτων σας, τις μετρήσεις βάρους των ωφελουμένων, τις μετρήσεις της πίεσης των ωφελουμένων, από την παρουσία σας σε δημοτικό σημείο άθλησης και τέλος την εφαρμογή κινητού τηλεφώνου.

Περαιτέρω, η διαιτολόγος καταγράφει τα εξής στοιχεία σας: ηλικία, ύψος, βάρος, δείκτη μάζας σώματος, ποσοστό λίπους, σύνηθες βάρος, επιθυμητό βάρος, περιφέρεια μέσης, περιφέρεια ισχίων, τυχόν παθήσεις, όπως διαβήτης, υπέρταση, λήψη συμπληρωμάτων διατροφής, διατροφικές συνήθειες, χρήση αλκοόλ, φυσική δραστηριότητα (είδος, τύπος, ένταση, διάρκεια).

Και ο ιατρός λαμβάνει το απαραίτητο κατά την κρίση του ιατρικό ιστορικό.

➤ **Σκοπός συλλογής των προσωπικών σας δεδομένων:**

Ο ιατρός σας παρέχει υπηρεσίες υγείας και η διαιτολόγος σας χορηγεί εξατομικευμένο διαιτολόγιο και παρακολούθηση της απώλειας βάρους, παροχή υποδείξεων διατροφής και άσκησης.

Τα δεδομένα σας κατόπιν ανωνυμοποίησης τυγχάνουν επεξεργασίας για ερευνητικούς και στατιστικούς σκοπούς.

➤ **Αποδέκτες των προσωπικών σας δεδομένων:**

Τα προσωπικά σας δεδομένα συλλέγονται στον Δήμο Πυλαίας-Χορτιάτη και τυγχάνουν επεξεργασίας από τον ιατρό και την διαιτολόγο, δεσμευόμενος από το ιατρικό απόρρητο, ο ιατρός και σχετική ρήτρα εχεμύθειας, η διαιτολόγος.

Στο πλαίσιο τεχνικής υποστήριξης των συσκευών και των λογισμικών ο Δήμος Πυλαίας-Χορτιάτη συνεργάζεται με την ΓΝΩΜΩΝ ΠΛΗΡΟΦΟΡΙΚΗΣ Α.Ε. (εταιρία που παρέχει υπηρεσίες σχεδιασμού και ανάπτυξης καινοτόμων και αξιόπιστων συστημάτων λογισμικού) και το Εθνικό Κέντρο Έρευνας και Τεχνολογικής Ανάπτυξης (Ε.Κ.Ε.Τ.Α.) -www.certh.gr- (Νομικό Πρόσωπο Ιδιωτικού Δικαίου (ΝΠΙΔ) μη κερδοσκοπικού χαρακτήρα, που εποπτεύεται από τη Γενική Γραμματεία Έρευνας και Τεχνολογίας (ΓΓΕΤ) του Υπουργείου Παιδείας, καθόσον πρόκειται για φορείς, οι οποίοι, επίσης, συμμετέχουν, στο ευρωπαϊκό πρόγραμμα «VICINITY».

Ο Δήμος υποχρεούται σύμφωνα με τον νόμο να κοινοποιεί στοιχεία σε δημόσιες αρχές και υπηρεσίες ή νομικά πρόσωπα δημοσίου δικαίου, φορολογικές υπηρεσίες, δικαστικές αρχές ή / και άλλες εποπτικές ή ελεγκτικές αρχές, στο πλαίσιο της δικαιοδοτικής τους αρμοδιότητας ή/και σε τρίτους που έχουν έννομο συμφέρον, για την θεμελίωση, άσκηση ή υποστήριξη νομικών αξιώσεων.

➤ **Νομική βάση επεξεργασίας:**

Οι νομικές βάσεις για τις παραπάνω επεξεργασίες των προσωπικών σας δεδομένων είναι η συναίνεσή σας για την χορήγηση των στοιχείων αυτών (άρθρο 6 παρ. 1 περ. α και άρθρο 9 παρ. 2 περ. α' του Γενικού Κανονισμού για την Προστασία των Δεδομένων Προσωπικού Χαρακτήρα, εφεξής ΓΚΠΔ), η λήψη υπηρεσιών υγείας από επαγγελματία του χώρου της υγείας δεσμευόμενο από το ιατρικό απόρρητο (άρθρο 9 παρ. 2 περ. η' του ΓΚΠΔ), η εξυπηρέτηση επιστημονικής έρευνας και στατιστικών σκοπών κατόπιν ανωνυμοποίησης (άρθρο 9 παρ. 2 περ. ι' του ΓΚΠΔ), καθώς και η κοινοποίηση στοιχείων σε Αρχές στο πλαίσιο της δικαιοδοτικής του αρμοδιότητας ή/και σε τρίτους που έχουν έννομο συμφέρον για την υποστήριξη νομικών αξιώσεων, όπως ορίζεται από τον νόμο (άρθρο 9 παρ. 2 στ' του ΓΚΠΔ).

➤ **Χρόνος διατήρησης των προσωπικών σας δεδομένων:**

Τα δεδομένα σας διατηρούνται για όσο χρόνο απαιτηθεί για τις ανάγκες συμμετοχής σας στο πρόγραμμα και σύμφωνα με την κείμενη νομοθεσία για το χρόνο διατήρησης των εγγράφων από τους ΟΤΑ, καθώς και τον Κώδικα Ιατρικής Δεοντολογίας αναφορικά με την παροχή υπηρεσιών εκ μέρους του ιατρού.

➤ **Τα δικαιώματά σας:**

- η συμμετοχή σας στο πρόγραμμα είναι εθελοντική και μπορείτε ανά πάσα στιγμή να αποχωρήσετε από το πρόγραμμα χωρίς αρνητικές συνέπειες,
- έχετε το δικαίωμα πρόσβασης στα δεδομένα σας,
- έχετε το δικαίωμα να ζητήσετε τη διόρθωση ή τη συμπλήρωση των δεδομένων σας, εάν αυτά είναι ανακριβή ή ελλιπή,
- έχετε το δικαίωμα να ζητήσετε τη διαγραφή δεδομένων σας, εκτός εάν ορίζει αντίθετα η κείμενη νομοθεσία,
- έχετε το δικαίωμα να ζητήσετε τον περιορισμό ή/και την αντίταξή σας στην επεξεργασία των δεδομένων σας,

Τα ανωτέρω δικαιώματά σας ασκούνται με την υποβολή αιτήματος στον Υπεύθυνο Προστασίας Δεδομένων του Δήμου μας, για την ικανοποίηση του οποίου σας χορηγούμε την αντίστοιχη απάντηση, στα εξής στοιχεία:

Δήμος Πυλαίας - Χορτιάτη
Απόστολου Σαμανίδη 21
Πανόραμα
TK 55236
T. 231330100
E-mail: dpo@pilea-hortiatis.gr

- έχετε το δικαίωμα να υποβάλλετε καταγγελία στην Αρχή Προστασίας Δεδομένων Προσωπικού Χαρακτήρα, εάν θεωρείτε ότι η επεξεργασία των Δεδομένων σας γίνεται με τρόπο αντίθετο στη νομοθεσία.

ΔΗΛΩΣΗ ΣΥΓΚΑΤΑΘΕΣΗΣ

Κατόπιν των ανωτέρω και αφότου ενημερώθηκα, πλήρως, για το περιεχόμενο και τους σκοπούς του Προγράμματος «VICINITY», με την παρούσα δηλώνω ότι:

συγκατατίθεμαι στη συλλογή και επεξεργασία των παραπάνω αναλυτικά αναφερομένων προσωπικών μου δεδομένων από τον Δήμο Πυλαίας - Χορτιάτη, με σκοπό την παροχή υπηρεσιών υγείας, καθώς και την παροχή υποδείξεων διατροφής και άσκησης.

αντιλαμβάνομαι ότι οι συσκευές του προγράμματος «VICINITY» είναι απλές και η χρήση τους δεν υπερβαίνει τους κινδύνους της καθημερινής ζωής. Συμφωνώ ότι οι συντελεστές του προγράμματος και το προσωπικό αυτών φροντίζουν, ώστε οι συμμετέχοντες να κατανοήσουν την χρήση των συσκευών και δεν ευθύνονται για οποιαδήποτε ζημία προκύψει από ή με αφορμή τη χρήση τους.

μετά τη λήξη του προγράμματος ή σε περίπτωση αποχώρησής μου από το πρόγραμμα υποχρεούμαι να παραδώσω τη φορητή συσκευή καταγραφής άσκησης (fitness tracker) με όλα τα παρελκόμενά της (φορτιστή, καλώδια κλπ.) στο κουτί της σε καλή κατάσταση στο Δήμο Πυλαίας-Χορτιάτη.

Πανόραμα, ___ / ___ / 20___

Ο/η ωφελούμενος/η

8.3. Delivery of devices agreements (in Greek)

Use Case 3.1: Delivery of devices agreements

ΑΠΟΔΕΙΚΤΙΚΟ ΠΑΡΑΔΟΣΗΣ

ID: _____

Ο/Η _____ δηλώνω υπεύθυνα ότι παρέλαβα σήμερα, ___/___/20___, από τον _____, υπάλληλο του δήμου Πυλαίας – Χορτιάτη τις παρακάτω συσκευές:

Αισθητήρας Ανίχνευσης Πτώσης **Tunstall iVi**

S/N: _____

Η συσκευασία περιλαμβάνει:

- α. . κουμπί πανικού/λουράκι λαιμού με ενσωματωμένο αισθητήρα ανίχνευσης πτώσης
- β. φυλλάδιο οδηγιών
- γ. κλιπ καρφίτσα
- δ. κλιπ ζώνης

Συσκευή Ελέγχου Αισθητήρων Ανίχνευσης Πτώσης **Tunstall LifeLine Vi**

S/N: _____

Η συσκευασία περιλαμβάνει:

- α. συσκευή τηλεϊδιοποίησης
- β. κουμπί πανικού
- γ. λουράκι χειρός
- δ. λουράκι λαιμού
- ε. φορτιστή τροφοδοσίας
- στ. καλώδιο τηλεφώνου
- ζ. προσαρμογέα
- ι. εγχειρίδιο

Αισθητήρας Μέτρησης Πίεσης **Omron Bluetooth Blood Pressure Monitor 708-BT**

S/N: _____

Η συσκευασία περιλαμβάνει:

- α. οθόνη μέτρησης πίεσης
- β. περιχειρίδα βραχίονα
- γ. μπαταρίες
- δ. θήκη εξοπλισμού
- ε. εγχειρίδιο

Συσκευή Ελέγχου Αισθητήρων Μέτρησης Πίεσης **Homecare Connectivity Gateway**

S/N: _____

Η συσκευασία περιλαμβάνει:

- α. συσκευή Homecare
- β. bluetooth dongle (τοποθετημένο στη συσκευή Homecare)

- γ. κάρτα μνήμης (τοποθετημένη στη συσκευή Homecare)
- δ. συσκευή τροφοδοσίας
- ε. καλώδιο τηλεφώνου
- στ. modem
- ζ. εγχειρίδιο

Αισθητήρας Μέτρησης Βάρους Omron BF-206BT Weight Scale

S/N: _____

Η συσκευασία περιλαμβάνει:

- α. αισθητήρα μέτρησης βάρους (ζυγαριά)
- β. μπαταρίες
- γ. εγχειρίδιο

Συσκευή Ελέγχου Αισθητήρων Μέτρησης Βάρους Homecare Connectivity Gateway

S/N: _____

Η συσκευασία περιλαμβάνει:

- α. συσκευή Homecare
- β. bluetooth dongle (τοποθετημένο στη συσκευή Homecare)
- γ. κάρτα μνήμης (τοποθετημένη στη συσκευή Homecare)
- δ. συσκευή τροφοδοσίας
- ε. καλώδιο τηλεφώνου
- στ. modem
- ζ. εγχειρίδιο

Συσκευή Router D-Link 4G LTE N300 by OTE

S/N: _____

Η συσκευασία περιλαμβάνει:

- α. συσκευή Router
- β. συσκευή τροφοδοσίας
- γ. καλώδιο δικτύου
- δ. καλώδιο τηλεφώνου

Ελλείψεις: _____

Υπάλληλος Δήμου
[Όνομα/Υπογραφή]

Ο/Η Δηλών/ούσα
[Όνομα/Υπογραφή]

Use Case 3.2: Delivery of devices agreements

ΑΠΟΔΕΙΚΤΙΚΟ ΠΑΡΑΔΟΣΗΣ

ID: _____

Ο/Η _____ δηλώνω υπεύθυνα ότι παρέλαβα σήμερα, ___/___/20___, από τον _____, υπάλληλο του δήμου Πυλαίας-Χορτιάτη τις παρακάτω συσκευές:

Συσκευή καταγραφής άσκησης (fitness tracker) **Mi Band 2**



S/N: _____

Η συσκευασία περιλαμβάνει:

- α. συσκευή καταγραφής άσκησης
- β. καλώδιο φόρτισης
- γ. Εγχειρίδιο

Ελλείψεις: _____

Υπάλληλος Δήμου

[Όνομα/Υπογραφή]

Ο/Η Δηλών/ούσα

[Όνομα/Υπογραφή]

8.4. Photos from installations

8.4.1. Use case 3.1

Photos from House Type 1,2 hardware installations.





8.4.2. Use case 3.2

Installations in sport centres:



The dietician:

