

***AQUA-LITY: Application of innovative techniques for improving drinking water quality in urban areas***

**Municipality of Oraikastro,  
Oraikastro, Thessaloniki, Greece**

**MINUTES OF 3<sup>rd</sup> PROJECT MEETING  
Friday, 24 September 2021**

On Friday, 24/09/2021 at 13:00 p.m., the 3<sup>rd</sup> Project Meeting of AQUA-LITY Project was held online through the Internet Platform Microsoft Teams. The representatives of PB2 (Municipality of Dimitrovgrad) as well as the representatives of the LB (Municipality of Oraikastro) participated in the meeting.

In accordance with the agenda, everyone had logged in to the Platform until 13:15 when LB's consultant took the floor and welcomed everyone. The consultant also thanked everyone for the participation and read the agenda.

<b>MEETING AGENDA</b>	
<b>13:00 - 13:15</b>	<b>Log in to the Platform</b>
<b>13:15 - 13:30</b>	<b>Opening &amp; Welcome speech</b> <i>Euroaction SA – LB's consultant</i>
<b>13:30 - 13:45</b>	<b>General Overview of the project 'AQUA-LITY'</b> <i>Euroaction SA – LB's consultant</i>
<b>13:45 - 14:15</b>	<b>Presentation of LB's implementation progress</b> <i>Anastasios Tselikoglou - Representative of Municipality of Oraikastro (LB)</i>
<b>14:15 - 14:45</b>	<b>Presentation of PB2's implementation progress</b> <i>Hristo Dimitrov - Technical Consultant of PB2 (PB2)</i>
<b>14:45 – 15:00</b>	<b>Discussion about the problems encountered and Future Plans</b> <i>All partners</i>

## **1. Project Overview**

The consultant, after the welcome speech and the presentation of the agenda, presented the General Project Overview, Project Objectives and Goals, Project Results and Outputs as well as a general structure of the project, per Work Package and Action (*Presentation LB\_1*).

## **2. Presentation of AQUA-LITY Beneficiaries' Action Plan**

Then the floor was given to Mr. Tselikoglou, on behalf of the LB, who presented the Action Plan of the Lead Beneficiary in the framework of the project "AQUALITY".

The presentation of the LB's Action Plan (*Presentation LB\_2*) included the following topics:

1. LB's tasks
2. LB's progress
3. LB's next steps

Then, Mr. Tselikoglou opened the discussion to all PBs for raising certain issues and concerns regarding the project implementation within the next months. The main topics were the organization of the Final Closing Conference and the modification request about the extension of the project duration for 2 months, namely until 31-12-2021.

The next presentation was the one of the Bulgarian Beneficiary (PB2), and concerned PB2's Action Plan.

### **Attached Files:**

1. Invitation
2. Agenda
3. Presentations

## ***Invitation***

*Municipality of Oraiokastrou, as Lead Partner of project with title: «Application of innovative techniques for improving drinking water quality in urban areas» and with acronym «AQUA-LITY »,  
Kindly invites you to participate in the 3<sup>rd</sup> Project Meeting that will take place on **Friday, 24<sup>th</sup> of September 2021**, at  
**13:00 pm***

*Online access through Microsoft Teams Platforms*

***AQUA-LITY: Application of innovative techniques for improving drinking water quality in urban areas***

### **3<sup>rd</sup> Project Meeting**

**Date:** Friday, 24/09/2021, 13:00 p.m.

**Venue:** Premises of Municipality of Oraioikastro  
(Komninon 76, Thessaloniki Oraioikastro, P.C. 57013)

The event will be conducted online through Microsoft Teams Platform

Link: [https://teams.microsoft.com/l/meetup-join/19:meeting\\_ZWQ4NDk3ZWVtZWVki00OGZhLTgxNWYtYjY4MzBkYWYzNTQx@thread.v2/0?context=%7b%22Tid%22:%227309b7c2-63ea-40eb-92b0-946ae2a9b4%22,%22Oid%22:%221aa1861a-0d7d-4f68-aa84-6c010a3b2dec%22%7d](https://teams.microsoft.com/l/meetup-join/19:meeting_ZWQ4NDk3ZWVtZWVki00OGZhLTgxNWYtYjY4MzBkYWYzNTQx@thread.v2/0?context=%7b%22Tid%22:%227309b7c2-63ea-40eb-92b0-946ae2a9b4%22,%22Oid%22:%221aa1861a-0d7d-4f68-aa84-6c010a3b2dec%22%7d)

#### **MEETING AGENDA**

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<b>14:15 - 14:45</b>	<b>Presentation of PB2's implementation progress</b> <i>Hristo Dimitrov - Technical Consultant of PB2 (PB2)</i>
<b>14:45 – 15:00</b>	<b>Discussion about the problems encountered and Future Plans</b> <i>All partners</i>



**Interreg**  
**Greece-Bulgaria**  
**Aqua-lity**



European Regional Development Fund



**LB – MUNICIPALITY  
OF ORAIOKASTRO**

**AQUA-LITY**

**Application of innovative techniques for improving  
drinking water quality in urban areas**

**PROJECT PRESENTATION**

**3<sup>rd</sup> Project Meeting**

Online

24/09/2021



## PROJECT CONTEXT

- ❖ 2nd Call for Proposals
- ❖ Priority Axis 2: A sustainable and Climate adaptable Cross-Border area
- ❖ Thematic Objective: 06 - Preserving and protecting the environment and promoting resource efficiency
- ❖ Investment priority: 6f - Promoting innovative technologies to improve environmental protection and resource efficiency in the waste sector, water sector, soil protection or to reduce air pollution.
- ❖ Specific objective: 6 - To enhance water management
- ❖ Project Duration: 10/11/2017 – 31/10/2021 (48 months)

*The Project Aqua-lity is co-funded by the European Regional Development Fund and national funds of Greece and Bulgaria within the framework of the Interreg V-A "Greece-Bulgaria 2014-2020" Cooperation Programme*

## PROJECT PARTNERSHIP

### PARTNERSHIP

- ❖ Lead Beneficiary: Municipality of Oraikastro
- ❖ Project Beneficiary 2: Municipality of Dimitrovgrad
- - ❖ Reasons for selection of partners:
  - ❖ *Common features concerning quality of drinking water*
  - ❖ *Common problems to be tackled*
  - ❖ *Similar institutional profile and administrative capacity*
  - ❖ *Previous experience in projects*
  - ❖ *Potential for exchange of experience and know-how in valorization of improving drinking water*

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# THE PROBLEM AT THE CROSS BORDER AREA

- ❖ Although the CB area is rich in water resources, monitoring and managing the quality of drinking water is being implemented at a local level, in an old fashioned and inefficient way
- ❖ The quality of drinking water in some areas is low or even inappropriate for human consumption while pollution incidents are addressed with delay, leading to potential health hazards and increased costs.
- ❖ The project focuses on two parts of the eligible area, Oraiokastro where the concentration of hydrogen sulfide, iron (Fe) and manganese (Mn) in the water network of Anthoupoli, exceeds the limits set by EU and Greek law,
- ❖ Dimitrovgrad where unusual levels of manganese (Mn) and its oxides are observed in several settlements in the area.
- ❖ The use of new technologies in water management processes is limited in Bulgaria and thus Bulgarian bodies can benefit from the cooperation with Greek authorities which have previous experience in the field, as in the case of the Municipality of Oraiokastro

## PROJECT OBJECTIVES

The main objectives of the project are:

- ❖ to enhance drinking water quality and reduce health hazards
- ❖ to improve drinking water quality and monitoring procedures by adapting innovative methods and techniques while creating the necessary conditions for development of interregional policies on the subject.
- ❖ To contribute significantly to the priorities set by the Programme since it will “promote innovative technologies to improve environmental protection and resource efficiency in the waste sector, water sector, soil protection etc”.

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# PROJECT OUTPUTS

- The main outputs of the project are divided into 4 thematic categories (WP), each of which has a distinctive objective.
- In WP<sub>1</sub>, PBs will produce regular progress reports (on a semiannual base) according to the Project Implementation Guide as well as three project meetings. These outputs will ensure the efficient management of the project and its implementation according to activities' time-schedule.
- In WP<sub>2</sub>, outputs aim at the dissemination of project results and raising awareness in local communities and include: a strategic communication plan, a website (developed according to WCAG 2.0 for people with disabilities), publicity material (4000 leaflets, 3000 brochures, 8 banners, 150 posters and 500 folders), 10 press releases in local media and an International closing conference in Thessaloniki.

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# PROJECT OUTPUTS

- WP3 is focused on the development of drinking water monitoring and improvement systems and includes the supply of a water processing and sanitation system (with all relevant works that need to be implemented in order to be fully functional), the elaboration of two studies on spots of environmental pressure, the supply and establishment of equipment for the pilot action, and the pilot actions for the two beneficiaries.
- The outputs of WP4 have a threefold aim: i) the evaluation of pilot actions through sampling tests which will result in 2 evaluation reports, ii) the dissemination of know how through the elaboration of an environmental guide with examples of best practices and seminars for the end users of the early warning system (40 participants) and iii) the development of an integrated water monitoring tool in the CB area, which will work as a decision support system.

# PROJECT RESULTS

- The quality of drinking water in Oraiokastro will be improved dramatically and it will be appropriate for human consumption.
- it will contribute to improved health status and living standards in the area (Scientific studies have proven that there is a positive interrelationship between health status and economic development).
- the early warning system will assist PB2 in complying with Water Framework Directive 2000/60 (by addressing pollution from urban waste water and from agriculture) and protect citizens from being exposed to health hazards related to the consumption of polluted water.



# PROJECT RESULTS

- PB2 will achieve reduction of operational and managerial costs of drinking water management due to early identification and/or prevention of potential accidents. Additionally, the reduction of water related hygienic problems will lead to further economic benefits due to improved health conditions and thus decrease of public spending for health care provisions.
- As far as beneficiaries and water management bodies are concerned, the project provides them with the opportunity to gain significant knowhow in applying innovative technologies for monitoring and improving drinking water quality.
- The development of tools to support and facilitate water monitoring could be the first step towards a joint policy for addressing common challenges.
- publicity actions will reinforce public awareness on issues of water conservation, the importance of water sanitation and the contribution of EU funds in regional development.

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# PROJECT ACTIONS

- MUNICIPALITY OF ORAIOKASTRO
- Del. 1.1.2 - Project Management & Coordination & FLC
- Del 1.1.3 - Project Meetings (2 project meetings in Oraiookastro)
- Del 2.1.1 - Communication Plan
- Del 2.1.2 - Project Website
- Del 2.1.3 - International Closing Conference
- Del 2.1.4 - Publicity Material (4 banners, 1.000 project brochures, 2.000 project leaflets, 50 posters)
- Del 2.1.5 - Press Releases (Five press releases in local mass media)
- Del 3.1.1 - Drinking Water improvement system

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# PROJECT ACTIONS

- MUNICIPALITY OF ORAIOKASTRO
- Del. 4.1.1 - Study on environmental pressure spots
- Del. 4.1.2 - Pilot operation of the system (Pilot operation of the water processing and sanitation system for a period of two months. The pilot operation includes taking samples, laboratory analysis and findings report )
- Del 4.1.3 - Project Evaluation
- Del 4.1.4 - Cross border water quality monitoring system (Development of a cross border platform for water management bodies in the CB area for assisting them in decision making regarding water quality policies and methods)

# PROJECT ACTIONS

- MUNICIPALITY OF DIMITROVGRAD
- Del. 1.2.2 - Project Management & Coordination
- Del 2.1.3 -Project Meetings (1 project meeting in Dimitrovgrad)
- Del 2.2.1 - Communication plan (Contribution of input to PB1 in the elaboration of the communication plan )
- Del 2.2.2 – Participation in Conference in Oraikastro
- Del 2.2.3 - Publicity Material (4 banners, 100 posters, 500 folders, 2.000 Project Brochure, 2000 Threefold leaflets)
- Del 2.2.4 - Press releases (5 press releases in local press)
- Del 2.2.5 - Input for website, translation in Bulgarian

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# PROJECT ACTIONS

- MUNICIPALITY OF DIMITROVGRAD
- Del. 3.2.1 - Preparatory study on environmental pressure spots (External technical expertise for the elaboration of study on the identification of environmental pressure spots in Dimitrovgrad, compliance of water sources with EU regulation and georefering of the points)
- Del 3.2.2 - Equipment and process analysis study (Study on the development of an early warning system with the use of telemetric stations for real time monitoring)
- Del 3.2.3 - Supply of equipment (Supply and installation of five telemetric stations for monitoring of water quality and quantity)
- Del 3.2.4 - Pilot operation
- Del 4.2.1 - Evaluation study (External technical expertise for the elaboration of an evaluation study for the ecotoxicological and financial assessment of the pilot action )
- Del 4.2.2 - Good practice Guide for optimum water quality management (External technical expertise for the elaboration of a water quality environmental guide which will be used as educational material for the seminars)
- Del 4.2.3 - Training seminar (Organisation of a training seminar for local authorities personnel and consultants in Dimitrovgrad (40 participants: 20 from Greece and 20 from Bulgaria) )

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# WORK PACKAGES

WP	TITLE OF WP	START	END	COST
WP 1	Project Management & Coordination	10/11/2017	31/10/2021	35.270,00 €
WP 2	Communication & Dissemination	10/11/2017	31/10/2021	29.210,00 €
WP 3	Drinking Water monitoring and improvement systems	02/01/2018	31/10/2021	546.000,00 €
WP 4	Evaluation and dissemination of knowhow	01/11/2018	31/10/2021	68.000,00 €
TOTAL		10/11/2017	31/10/2021	678.480,00 €

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# Thank you for attention!!!

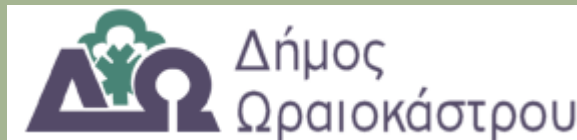
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**Interreg**  
**Greece-Bulgaria**



**Aqua-lity**

European Regional Development Fund



**LB – MUNICIPALITY  
OF ORAIOKASTRO**

# AQUA-LITY

Application of innovative techniques for improving drinking  
water quality in urban areas

## IMPLEMENTATION PROGRESS

**3<sup>rd</sup> Project Meeting**

Online

24/09/2021

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## LB's tasks

### WP<sub>1</sub> – Management & Coordination – 20.000,00 €

- Cooperating with the partnership for the smooth coordination of all the actions of the project “Aqua-lity”
- Timely submission of the Progress Reports to the Joint Secretariat (JS) of the Programme Interreg Greece – Bulgaria 2014 – 2020
- The preparation of the requests for modification and the communication with JS
- Preparation of the requests for verification of expenditures
- Its participation in all project meetings
- Organization of two project meetings in Oraiokastros, Thessaloniki (kick off & Closing meeting)

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## LB's Tasks

### WP2 – Communication & Dissemination – 19.000,00 €

LB is responsible for the:

- Elaboration of communication plan
- Development of project website
- The organization of the closing conference in Thessaloniki
- The production of communication materials (4 banners, 2000 Threefold leaflets with information of the project, 50 posters, 1000 Project Brochure).
- Publicity of Five (5) press releases in local mass media

## LB's Tasks

### WP<sub>3</sub> – Drinking Water monitoring and improvement systems – 350.000,00 €

LB is responsible for:

- the supply of the equipment of the drinking water improvement system (water process and sanitation system that consists of water pipeline, two tanks, two pumps, oxidation system, blower, two filters, control and motion table, container, security equipment etc)

## LB's Tasks

### WP<sub>4</sub> – Evaluation and dissemination of knowhow – 47.000,00 €

LB will be responsible for:

- The elaboration of study on environmental pressure spots
- The pilot operation of the system for a period of two months. The pilot operation includes taking samples, laboratory analysis and findings report

## LB's Tasks

### WP4 – Evaluation and dissemination of knowhow

LB is responsible for:

- The project Evaluation. In particular, elaboration of an assessment on whether the project has met expected results. The evaluation will incorporate both technical/scientific assessment as well as assessment of the project impact to local community
- The development of the Cross border water quality monitoring system (cross border platform for water management bodies in the CB area for assisting them in decision making regarding water quality policies and methods).

## LB – Progress

### What LB has done so far:

- Submission of 6 Progress Reports on MIS
- Contracting of all required deliverables
- 3 concluded Verifications and preparation of 4<sup>th</sup> (total amount verified: 222.843,98 €)
- 4 Modifications submitted and approved



## LB – Progress

What LB has done so far:

**WP1:**

1. Del. 1.1.3 – Project Meetings (2/2)

**WP2:**

1. Del. 2.1.1 - Communication Plan
2. Del. 2.1.2 - Project Website
3. Del 2.1.4 - Publicity Material
4. Del 2.1.5 - Press Releases (3/5)

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## LB – Progress

### What LB has done so far:

#### WP<sub>3</sub>:

1. Del 3.1.1 - Drinking Water improvement system

#### WP<sub>4</sub>:

1. Del 4.1.1 - Study on environmental pressure spots
2. Del 4.1.2 - Pilot operation of the system (ongoing)



## LB's Next Steps

LB will proceed to the next steps:

1. Del. 2.1.3 - International Closing Conference
2. Del 2.1.5 - Press Releases (2/5)
3. Del 4.1.3 - Project Evaluation
4. Del 4.1.4 - Cross border water quality monitoring system



# Thank you for attention!!!

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# AQUA-LITY

Application of innovative techniques for improving  
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## 3<sup>rd</sup> Project Meeting

Date: 24/09/2021

Place: Premises of  
Municipality of  
Oraikastro,  
Thessaloniki

PB2's

# WP1 Project Management & Coordination

## WP1 – Management & Coordination

PB2 is responsible for:

- Cooperating within the partnership for the smooth coordination of all the actions of the project “Aqua-lity”
- Timely submission of information to LB related to the Progress Reports
- Preparation of requests for verification of expenditures
- Participation in all project meetings
- Organisation of a project meeting in Dimitrovgrad



**PPB2 – MUNICIPALITY  
OF DIMITROVGRAD**

PB<sub>2</sub>'s

WP<sub>2</sub>

## Communication & Dissemination

### WP<sub>2</sub> – Communication & Dissemination

PB<sub>2</sub> is responsible for the:

- Contribution of input to LB in the elaboration of the communication plan and input for the project website
- The production of communication materials (4 banners, 2000 threefold leaflets with information of the project, 100 posters, 2000 project brochures, 500 folders).
- Publication of five press releases in local mass media



**PPB<sub>2</sub> – MUNICIPALITY  
OF DIMITROVGRAD**

PB2's

WP3 Drinking  
Water monitoring  
and improvement  
systems

WP4 Evaluation  
and dissemination  
of knowhow

### **WP3 – Drinking Water monitoring and improvement systems**

PB2 is responsible for:

- the supply and installation of five telemetric stations for monitoring of water quality and quantity as well as development of the software controlling the smart monitoring system
- the elaboration of the protocol of ideal use of the telemetry based system for water quality inspection

### **WP4 – Evaluation and dissemination of knowhow**

PB2 is responsible for:

- the elaboration of an evaluation study for the eco-toxicological and financial assessment of the pilot action
- the elaboration of a water quality environmental guide which will be used as educational material for the seminar below
- the organisation of a training seminar for local authorities personnel and consultants in Dimitrovgrad



**PPB2 – MUNICIPALITY  
OF DIMITROVGRAD**

# MUNICIPALITY OF DIMITROVGRAD (PB<sub>2</sub>)

## Progress of project actions as per contracts

Contract Nr	TITLE OF CONTRACT AS PER STTP'S LIST OF TENDERS	START	END	COST
1	Project Management & Coordination	01/04/2018	30/09/2020	6.500,00 €
2	Project Information and Publicity	01/09/2018	30/06/2019	9.501,59 €
3	Services	18/12/2018	18/09/2019	71,499.33 €
4	Supply of Equipment	17/06/2019	17/08/2019	135,893.64 €
5	Organisation of Project Meeting & Training Seminar	01/10/2019	31/10/2019	6.000,00 €
6	Office Supply	15/09/2018	15/03/2019	152,54 €
TOTAL*	* - without staff costs & travel	10/11/2017	31/12/2019	229,547.10 €



**PPB<sub>2</sub> – MUNICIPALITY  
OF DIMITROVGRAD**

# PB2's Payments & Verified expenditure

## PAYMENT OF EXPENDITURE

- Expenditure paid out until 31.08.2021:  
**240 799.84 EUR**
- Approved budget according to the AF:  
**242 480.00 EUR**
- Estimated absorption of project's budget:  
**99.3%**

## VERIFICATION OF EXPENDITURE

- Verified expenditure until 31.08.2021 :  
**235 276.66 EUR** (5% fin. corr. on Contract 3)



**PPB2 – MUNICIPALITY  
OF DIMITROVGRAD**



Thank you for the  
attention!



**PPB<sub>2</sub> – MUNICIPALITY  
OF DIMITROVGRAD**

***AQUA-LITY: Application of innovative techniques for improving drinking water quality in urban areas***

**Δήμος Ωραιοκάστρου,  
Ωραιόκαστρο, Θεσσαλονίκη**

**ΠΡΑΚΤΙΚΑ ΣΥΝΑΝΤΗΣΗΣ  
Παρασκευή, 24 Σεπτεμβρίου 2021**

Την Παρασκευή 24/09/2021 στις 13:00, η πραγματοποιήθηκε η τρίτη (3<sup>η</sup>) συνάντηση του έργου AQUA-LITY, διαδικτυακά μέσω της πλατφόρμας Microsoft Teams λόγω της πανδημίας του Covid-19 και στην οποία συμμετείχαν εκπρόσωποι των δύο (2) Εταίρων του Έργου, δηλαδή του Δήμου Ωραιοκάστρου (LB) και του Δήμου Dimitrovgrad (PB2).

Ακολουθώντας το Πρόγραμμα, όλοι οι συμμετέχοντες συνδέθηκαν μέχρι τις 13:15, όταν ο Σύμβουλος του Δήμου Ωραιοκάστρου πήρε τον λόγο και αφού καλωσόρισε και ευχαρίστησε όλους για την συμμετοχή τους, διάβασε το Πρόγραμμα.

<b>ΠΡΟΓΡΑΜΜΑ</b>	
<b>13:00 - 13:15</b>	<b>Σύνδεση στην Πλατφόρμα</b>
<b>13:15 - 13:30</b>	<b>Εναρκτήρια ομιλία</b> <i>Euroaction AE – Τεχνικός Σύμβουλος του LB</i>
<b>13:30 - 13:45</b>	<b>Γενική παρουσίαση του 'AQUA-LITY'</b> <i>Euroaction AE – Τεχνικός Σύμβουλος του LB</i>
<b>13:45 - 14:15</b>	<b>Παρουσίαση της προόδου του LB</b> <i>Αναστάσιος Τσελίκογλου – Εκπρόσωπος του LB</i>
<b>14:15 - 14:45</b>	<b>Παρουσίαση της προόδου του PB2</b> <i>Hristo Dimitrov – Εκπρόσωπος του PB2</i>
<b>14:45 – 15:00</b>	<b>Συζήτηση για τα προβλήματα που προέκυψαν και προγραμματισμός</b> <i>Όλοι οι Εταίροι</i>

Στη συνέχεια ο Σύμβουλος έκανε μία σύντομη παρουσίαση του έργου, τους στόχους και τα αναμενόμενα αποτελέσματα ανά Πακέτο Εργασίας.

Στη συνέχεια, ο λόγος δόθηκε στον κ. Τσελίκογλου, τον υπεύθυνο του έργου από την μεριά του Επικεφαλής Εταίρου, ο οποίος παρουσίασε το πλάνο υλοποίησης του Δήμου Ωραιοκάστρου.

Συγκεκριμένα, η παρουσίαση περιελάμβανε τις εξής θεματικές:

1. Τις υποχρεώσεις του LB
2. Την πρόοδο της υλοποίησης του LB
3. Τις επόμενες κινήσεις του LB

Η επόμενη παρουσίαση έγινε από εκπρόσωπο του Βούλγαρου εταίρου (PB2) και αφορούσε στο Σχέδιο Δράσης του PB2 στο πλαίσιο του έργου «AQUA-LITY».

Αμέσως μετά ο κ. Τσελίκογλου ξεκίνησε μία συζήτηση μεταξύ όλων των συμμετεχόντων σχετικά με τις δράσεις που μένουν να υλοποιηθούν μέχρι την λήξη του έργου και τον προγραμματισμό τους. Συγκεκριμένα, συζητήθηκαν η οργάνωση του Διεθνούς Συνεδρίου Κλεισίματος και η ανάγκη αιτήματος τροποποίησης του έργου έτσι ώστε η χρονική διάρκεια υλοποίησης να παραταθεί κατά 2 μήνες, ήτοι μέχρι την 31-12-2021.

**Συνημμένα:**

1. Πρόσκληση
2. Ατζέντα
3. Παρουσιάσεις

## Πρόσκληση

*Ο Δήμος Ωραιοκάστρου ως Επικεφαλής Εταίρος του έργου με τίτλο: «Application of innovative techniques for improving drinking water quality in urban areas» και με ακρωνύμιο «AQUA-LITY» ,*

*Με χαρά σας προσκαλεί στην 3<sup>η</sup> Συνάντηση Έργου η οποία θα πραγματοποιηθεί την Παρασκευή, 24 Σεπτεμβρίου 2021, στη 13:00 μ.μ.*

*Η 3η Συνάντηση Έργου θα πραγματοποιηθεί διαδικτυακά μέσω της πλατφόρμας Microsoft Teams.*

***AQUA-LITY: Application of innovative techniques for improving drinking water quality in urban areas***

### **3<sup>η</sup> Συνάντηση Έργου**

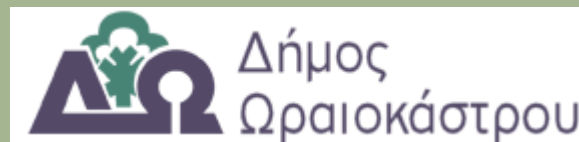
**Ημερομηνία:** Παρασκευή, 24/09/2021, 13:00 μ.μ.

**Αίθουσα:** Δημαρχείο Ωραιοκάστρου  
(Κομνηνών 76, Θεσσαλονίκη Ωραιόκαστρο, Τ.Κ. 57013)

Η 3<sup>η</sup> Συνάντηση Έργου θα πραγματοποιηθεί διαδικτυακά μέσω της πλατφόρμας Microsoft Teams Platform

Link: [https://teams.microsoft.com/l/meetup-join/19:meeting\\_ZWQ4NDk3ZWVtZWVhZi00OGZhLTgxNWYtYjY4MzBkYWYzNTQx@thread.v2/0?context=%7b%22Tid%22:%227309b7c2-63ea-40eb-92b0-946ae2a9b4%22,%22Oid%22:%221aa1861a-0d7d-4f68-aa84-6c010a3b2dec%22%7d](https://teams.microsoft.com/l/meetup-join/19:meeting_ZWQ4NDk3ZWVtZWVhZi00OGZhLTgxNWYtYjY4MzBkYWYzNTQx@thread.v2/0?context=%7b%22Tid%22:%227309b7c2-63ea-40eb-92b0-946ae2a9b4%22,%22Oid%22:%221aa1861a-0d7d-4f68-aa84-6c010a3b2dec%22%7d)

<b>ΠΡΟΓΡΑΜΜΑ</b>	
<b>13:00 - 13:15</b>	<b>Σύνδεση στην Πλατφόρμα</b>
<b>13:15 - 13:30</b>	<b>Εναρκτήρια ομιλία</b> <i>Euroaction AE – Τεχνικός Σύμβουλος του LB</i>
<b>13:30 - 13:45</b>	<b>Γενική παρουσίαση του ‘AQUA-LITY’</b> <i>Euroaction AE – Τεχνικός Σύμβουλος του LB</i>
<b>13:45 - 14:15</b>	<b>Παρουσίαση της προόδου του LB</b> <i>Αναστάσιος Τσελίκογλου – Εκπρόσωπος του LB</i>
<b>14:15 - 14:45</b>	<b>Παρουσίαση της προόδου του PB2</b> <i>Hristo Dimitrov – Εκπρόσωπος του PB2</i>
<b>14:45 – 15:00</b>	<b>Συζήτηση για τα προβλήματα που προέκυψαν και προγραμματισμός</b> <i>Όλοι οι Εταίροι</i>



**LB – MUNICIPALITY  
OF ORAIOKASTRO**

# AQUA-LITY

Application of innovative techniques for improving  
drinking water quality in urban areas

## PROJECT PRESENTATION

**3<sup>rd</sup> Project Meeting**

Online

24/09/2021



## PROJECT CONTEXT

- ❖ 2nd Call for Proposals
- ❖ Priority Axis 2: A sustainable and Climate adaptable Cross-Border area
- ❖ Thematic Objective: 06 - Preserving and protecting the environment and promoting resource efficiency
- ❖ Investment priority: 6f - Promoting innovative technologies to improve environmental protection and resource efficiency in the waste sector, water sector, soil protection or to reduce air pollution.
- ❖ Specific objective: 6 - To enhance water management
- ❖ Project Duration: 10/11/2017 – 31/10/2021 (48 months)

*The Project Aqua-lity is co-funded by the European Regional Development Fund and national funds of Greece and Bulgaria within the framework of the Interreg V-A "Greece-Bulgaria 2014-2020" Cooperation Programme*

## PROJECT PARTNERSHIP

### PARTNERSHIP

- ❖ Lead Beneficiary: Municipality of Oraikastro
- ❖ Project Beneficiary 2: Municipality of Dimitrovgrad
- - ❖ Reasons for selection of partners:
  - ❖ *Common features concerning quality of drinking water*
  - ❖ *Common problems to be tackled*
  - ❖ *Similar institutional profile and administrative capacity*
  - ❖ *Previous experience in projects*
  - ❖ *Potential for exchange of experience and know-how in valorization of improving drinking water*

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# THE PROBLEM AT THE CROSS BORDER AREA

- ❖ Although the CB area is rich in water resources, monitoring and managing the quality of drinking water is being implemented at a local level, in an old fashioned and inefficient way
- ❖ The quality of drinking water in some areas is low or even inappropriate for human consumption while pollution incidents are addressed with delay, leading to potential health hazards and increased costs.
- ❖ The project focuses on two parts of the eligible area, Oraiokastro where the concentration of hydrogen sulfide, iron (Fe) and manganese (Mn) in the water network of Anthoupoli, exceeds the limits set by EU and Greek law,
- ❖ Dimitrovgrad where unusual levels of manganese (Mn) and its oxides are observed in several settlements in the area.
- ❖ The use of new technologies in water management processes is limited in Bulgaria and thus Bulgarian bodies can benefit from the cooperation with Greek authorities which have previous experience in the field, as in the case of the Municipality of Oraiokastro

## PROJECT OBJECTIVES

The main objectives of the project are:

- ❖ to enhance drinking water quality and reduce health hazards
- ❖ to improve drinking water quality and monitoring procedures by adapting innovative methods and techniques while creating the necessary conditions for development of interregional policies on the subject.
- ❖ To contribute significantly to the priorities set by the Programme since it will “promote innovative technologies to improve environmental protection and resource efficiency in the waste sector, water sector, soil protection etc”.

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# PROJECT OUTPUTS

- The main outputs of the project are divided into 4 thematic categories (WP), each of which has a distinctive objective.
- In WP<sub>1</sub>, PBs will produce regular progress reports (on a semiannual base) according to the Project Implementation Guide as well as three project meetings. These outputs will ensure the efficient management of the project and its implementation according to activities' time-schedule.
- In WP<sub>2</sub>, outputs aim at the dissemination of project results and raising awareness in local communities and include: a strategic communication plan, a website (developed according to WCAG 2.0 for people with disabilities), publicity material (4000 leaflets, 3000 brochures, 8 banners, 150 posters and 500 folders), 10 press releases in local media and an International closing conference in Thessaloniki.

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# PROJECT OUTPUTS

- WP3 is focused on the development of drinking water monitoring and improvement systems and includes the supply of a water processing and sanitation system (with all relevant works that need to be implemented in order to be fully functional), the elaboration of two studies on spots of environmental pressure, the supply and establishment of equipment for the pilot action, and the pilot actions for the two beneficiaries.
- The outputs of WP4 have a threefold aim: i) the evaluation of pilot actions through sampling tests which will result in 2 evaluation reports, ii) the dissemination of know how through the elaboration of an environmental guide with examples of best practices and seminars for the end users of the early warning system (40 participants) and iii) the development of an integrated water monitoring tool in the CB area, which will work as a decision support system.

# PROJECT RESULTS

- The quality of drinking water in Oraikastro will be improved dramatically and it will be appropriate for human consumption.
- it will contribute to improved health status and living standards in the area (Scientific studies have proven that there is a positive interrelationship between health status and economic development).
- the early warning system will assist PB2 in complying with Water Framework Directive 2000/60 (by addressing pollution from urban waste water and from agriculture) and protect citizens from being exposed to health hazards related to the consumption of polluted water.

# PROJECT RESULTS

- PB2 will achieve reduction of operational and managerial costs of drinking water management due to early identification and/or prevention of potential accidents. Additionally, the reduction of water related hygienic problems will lead to further economic benefits due to improved health conditions and thus decrease of public spending for health care provisions.
- As far as beneficiaries and water management bodies are concerned, the project provides them with the opportunity to gain significant knowhow in applying innovative technologies for monitoring and improving drinking water quality.
- The development of tools to support and facilitate water monitoring could be the first step towards a joint policy for addressing common challenges.
- publicity actions will reinforce public awareness on issues of water conservation, the importance of water sanitation and the contribution of EU funds in regional development.

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# PROJECT ACTIONS

- MUNICIPALITY OF ORAIOKASTRO
- Del. 1.1.2 - Project Management & Coordination & FLC
- Del 1.1.3 - Project Meetings (2 project meetings in Oraiookastro)
- Del 2.1.1 - Communication Plan
- Del 2.1.2 - Project Website
- Del 2.1.3 - International Closing Conference
- Del 2.1.4 - Publicity Material (4 banners, 1.000 project brochures, 2.000 project leaflets, 50 posters)
- Del 2.1.5 - Press Releases (Five press releases in local mass media)
- Del 3.1.1 - Drinking Water improvement system

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# PROJECT ACTIONS

- MUNICIPALITY OF ORAIOKASTRO
- Del. 4.1.1 - Study on environmental pressure spots
- Del. 4.1.2 - Pilot operation of the system (Pilot operation of the water processing and sanitation system for a period of two months. The pilot operation includes taking samples, laboratory analysis and findings report )
- Del 4.1.3 - Project Evaluation
- Del 4.1.4 - Cross border water quality monitoring system (Development of a cross border platform for water management bodies in the CB area for assisting them in decision making regarding water quality policies and methods)

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# PROJECT ACTIONS

- MUNICIPALITY OF DIMITROVGRAD
- Del. 1.2.2 - Project Management & Coordination
- Del 2.1.3 -Project Meetings (1 project meeting in Dimitrovgrad)
- Del 2.2.1 - Communication plan (Contribution of input to PB1 in the elaboration of the communication plan )
- Del 2.2.2 – Participation in Conference in Oraiokastaro
- Del 2.2.3 - Publicity Material (4 banners, 100 posters, 500 folders, 2.000 Project Brochure, 2000 Threefold leaflets)
- Del 2.2.4 - Press releases (5 press releases in local press)
- Del 2.2.5 - Input for website, translation in Bulgarian

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# PROJECT ACTIONS

- MUNICIPALITY OF DIMITROVGRAD
- Del. 3.2.1 - Preparatory study on environmental pressure spots (External technical expertise for the elaboration of study on the identification of environmental pressure spots in Dimitrovgrad, compliance of water sources with EU regulation and georefering of the points)
- Del 3.2.2 - Equipment and process analysis study (Study on the development of an early warning system with the use of telemetric stations for real time monitoring)
- Del 3.2.3 - Supply of equipment (Supply and installation of five telemetric stations for monitoring of water quality and quantity)
- Del 3.2.4 - Pilot operation
- Del 4.2.1 - Evaluation study (External technical expertise for the elaboration of an evaluation study for the ecotoxicological and financial assessment of the pilot action )
- Del 4.2.2 - Good practice Guide for optimum water quality management (External technical expertise for the elaboration of a water quality environmental guide which will be used as educational material for the seminars)
- Del 4.2.3 - Training seminar (Organisation of a training seminar for local authorities personnel and consultants in Dimitrovgrad (40 participants: 20 from Greece and 20 from Bulgaria) )

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# WORK PACKAGES

WP	TITLE OF WP	START	END	COST
WP 1	Project Management & Coordination	10/11/2017	31/10/2021	35.270,00 €
WP 2	Communication & Dissemination	10/11/2017	31/10/2021	29.210,00 €
WP 3	Drinking Water monitoring and improvement systems	02/01/2018	31/10/2021	546.000,00 €
WP 4	Evaluation and dissemination of knowhow	01/11/2018	31/10/2021	68.000,00 €
TOTAL		10/11/2017	31/10/2021	678.480,00 €

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# Thank you for attention!!!

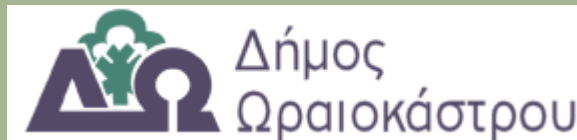
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**Interreg**  
**Greece-Bulgaria**



**Aqua-lity**

European Regional Development Fund



**LB – MUNICIPALITY  
OF ORAIOKASTRO**

**AQUA-LITY**

Application of innovative techniques for improving drinking  
water quality in urban areas

**IMPLEMENTATION PROGRESS**

**3<sup>rd</sup> Project Meeting**

Online

24/09/2021

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## LB's tasks

### WP<sub>1</sub> – Management & Coordination – 20.000,00 €

- Cooperating with the partnership for the smooth coordination of all the actions of the project “Aqua-lity”
- Timely submission of the Progress Reports to the Joint Secretariat (JS) of the Programme Interreg Greece – Bulgaria 2014 – 2020
- The preparation of the requests for modification and the communication with JS
- Preparation of the requests for verification of expenditures
- Its participation in all project meetings
- Organization of two project meetings in Oraiokastros, Thessaloniki (kick off & Closing meeting)

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## LB's Tasks

### WP2 – Communication & Dissemination – 19.000,00 €

LB is responsible for the:

- Elaboration of communication plan
- Development of project website
- The organization of the closing conference in Thessaloniki
- The production of communication materials (4 banners, 2000 Threefold leaflets with information of the project, 50 posters, 1000 Project Brochure).
- Publicity of Five (5) press releases in local mass media

## LB's Tasks

### WP<sub>3</sub> – Drinking Water monitoring and improvement systems – 350.000,00 €

LB is responsible for:

- the supply of the equipment of the drinking water improvement system (water process and sanitation system that consists of water pipeline, two tanks, two pumps, oxidation system, blower, two filters, control and motion table, container, security equipment etc)



## LB's Tasks

### WP<sub>4</sub> – Evaluation and dissemination of knowhow – 47.000,00 €

LB will be responsible for:

- The elaboration of study on environmental pressure spots
- The pilot operation of the system for a period of two months. The pilot operation includes taking samples, laboratory analysis and findings report

## LB's Tasks

### WP4 – Evaluation and dissemination of knowhow

LB is responsible for:

- The project Evaluation. In particular, elaboration of an assessment on whether the project has met expected results. The evaluation will incorporate both technical/scientific assessment as well as assessment of the project impact to local community
- The development of the Cross border water quality monitoring system (cross border platform for water management bodies in the CB area for assisting them in decision making regarding water quality policies and methods).

## LB – Progress

### What LB has done so far:

- Submission of 6 Progress Reports on MIS
- Contracting of all required deliverables
- 3 concluded Verifications and preparation of 4<sup>th</sup> (total amount verified: 222.843,98 €)
- 4 Modifications submitted and approved



## LB – Progress

What LB has done so far:

**WP1:**

1. Del. 1.1.3 – Project Meetings (2/2)

**WP2:**

1. Del. 2.1.1 - Communication Plan
2. Del. 2.1.2 - Project Website
3. Del 2.1.4 - Publicity Material
4. Del 2.1.5 - Press Releases (3/5)

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## LB – Progress

### What LB has done so far:

#### WP<sub>3</sub>:

1. Del 3.1.1 - Drinking Water improvement system

#### WP<sub>4</sub>:

1. Del 4.1.1 - Study on environmental pressure spots
2. Del 4.1.2 - Pilot operation of the system (ongoing)

## LB's Next Steps

LB will proceed to the next steps:

1. Del. 2.1.3 - International Closing Conference
2. Del 2.1.5 - Press Releases (2/5)
3. Del 4.1.3 - Project Evaluation
4. Del 4.1.4 - Cross border water quality monitoring system



# Thank you for attention!!!

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# AQUA-LITY

Application of innovative techniques for improving  
drinking water quality in urban areas

## 3<sup>rd</sup> Project Meeting

Date: 24/09/2021

Place: Premises of  
Municipality of  
Oraikastro,  
Thessaloniki



PB2's

# WP1 Project Management & Coordination

## WP1 – Management & Coordination

PB2 is responsible for:

- Cooperating within the partnership for the smooth coordination of all the actions of the project “Aqua-lity”
- Timely submission of information to LB related to the Progress Reports
- Preparation of requests for verification of expenditures
- Participation in all project meetings
- Organisation of a project meeting in Dimitrovgrad



**PPB2 – MUNICIPALITY  
OF DIMITROVGRAD**

PB<sub>2</sub>'s

WP<sub>2</sub>

## Communication & Dissemination

### WP<sub>2</sub> – Communication & Dissemination

PB<sub>2</sub> is responsible for the:

- Contribution of input to LB in the elaboration of the communication plan and input for the project website
- The production of communication materials (4 banners, 2000 threefold leaflets with information of the project, 100 posters, 2000 project brochures, 500 folders).
- Publication of five press releases in local mass media



**PPB<sub>2</sub> – MUNICIPALITY  
OF DIMITROVGRAD**

PB2's

WP3 Drinking  
Water monitoring  
and improvement  
systems

WP4 Evaluation  
and dissemination  
of knowhow

### **WP3 – Drinking Water monitoring and improvement systems**

PB2 is responsible for:

- the supply and installation of five telemetric stations for monitoring of water quality and quantity as well as development of the software controlling the smart monitoring system
- the elaboration of the protocol of ideal use of the telemetry based system for water quality inspection

### **WP4 – Evaluation and dissemination of knowhow**

PB2 is responsible for:

- the elaboration of an evaluation study for the eco-toxicological and financial assessment of the pilot action
- the elaboration of a water quality environmental guide which will be used as educational material for the seminar below
- the organisation of a training seminar for local authorities personnel and consultants in Dimitrovgrad



**PPB2 – MUNICIPALITY  
OF DIMITROVGRAD**

# MUNICIPALITY OF DIMITROVGRAD (PB<sub>2</sub>)

## Progress of project actions as per contracts

Contract Nr	TITLE OF CONTRACT AS PER STTP'S LIST OF TENDERS	START	END	COST
1	Project Management & Coordination	01/04/2018	30/09/2020	6.500,00 €
2	Project Information and Publicity	01/09/2018	30/06/2019	9.501,59 €
3	Services	18/12/2018	18/09/2019	71,499.33 €
4	Supply of Equipment	17/06/2019	17/08/2019	135,893.64 €
5	Organisation of Project Meeting & Training Seminar	01/10/2019	31/10/2019	6.000,00 €
6	Office Supply	15/09/2018	15/03/2019	152,54 €
TOTAL*	* - without staff costs & travel	10/11/2017	31/12/2019	229,547.10 €



**PPB<sub>2</sub> – MUNICIPALITY  
OF DIMITROVGRAD**

# PB2's Payments & Verified expenditure

## PAYMENT OF EXPENDITURE

- Expenditure paid out until 31.08.2021:  
**240 799.84 EUR**
- Approved budget according to the AF:  
**242 480.00 EUR**
- Estimated absorption of project's budget:  
**99.3%**

## VERIFICATION OF EXPENDITURE

- Verified expenditure until 31.08.2021 :  
**235 276.66 EUR** (5% fin. corr. on Contract 3)



**PPB2 – MUNICIPALITY  
OF DIMITROVGRAD**

Thank you for the  
attention!



**PPB<sub>2</sub> – MUNICIPALITY  
OF DIMITROVGRAD**