

# Multiplier Events E4 Report of ORKON

## Erasmus+ Project

Implementation of ECVET for Qualification  
Design in Drinking Water Treatment Plants  
and Sanitation for Pure Drinkable Water

“PURE-H<sub>2</sub>O”



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# *MULTIPLIER EVENT E4*

## *PARTICIPANTS OF THE COURSE:*

ORKON performed Multiplier Event E4 by 25 participants ;

This event took place in Ankara by ORKON on 20-21 May 2015 by 25 participants. It is foreseen to accompany and took place after the Transnational Meeting in Ankara. So, 2 days dissemination meeting is organised for the introduction of the project and its products. It is organized with the main aim to allow discussions, consultations and information exchange about project development with the participants who are working in the water sector. Good exchange of expertises and ideas took place at the event and it has been a good dissemination of the project. Participants were civil, mechanical, environmental, geological engineers, civil technicians, survey and mapping technicians, people from administrative, tendering and management departments.

## *NAME & PROFESSIONS LIST*

Altan Dizdar	Engineer
Ertuğrul Dizdar	Engineer
Yaşar Yıldırım	Technician
Seçil Kocaer	Administration
Ayşe Betül Demir	Engineer
Filiz Sarıaltun	Technician
Ömer Tekpınar	Engineer
Behzat Göllü	Engineer

Serkan Dizdar	Technician
Can Karaşahin	Engineer
Enes Çetin	Technician
Feray Yoloğlu	Engineer
Mehtap Ataşoğlu	Engineer
Sibel Doğanakaya	Engineer
Yasin Özyılmaz	Engineer
Barış Özcan	Engineer
Nazmi Okur	Technician
Hacer Akarsu	Engineer
Hüseyin Atak	Technician
Hüseyin Ersoy	Technician
Mayis Kurt	Engineer
Emre Kaan Koca	Technician
Mustafa Kandemir	Technician
Burak Koçak	Engineer
Filiz Güldürü	Technician

### ***METHODOLOGY OF THE MULTIPLIER EVENT:***

PURE-H2O Project introduction, application form, draft of the summary of the book, leaflets are distributed to participants of the course on the 18<sup>th</sup> of May 2015 and required from them to study on the project then the participants are gathered at the conference room on the 20<sup>th</sup> and 21<sup>st</sup> of May 2015 and on the first day 20<sup>th</sup> of May 2015 at the workshop, following issues have been discussed:

- ❑ Introduction of European Union projects are discussed, programs, projects and examples from the previous years are given, advantages and uses of these projects are explained in detail,



- ☐ Meaning of Erasmus+ programme and projects are discussed,
- ☐ Introduction of the subject of PURE-H2O PROJECT is explained, aims, objectives are described,
- ☐ RESULTS are explained, sections from the application form are introduced in brief and training modules are described,
- ☐ The definition of e-learning is given and an example of training is given from the selected modules from the web-sites of the previous projects,
- ☐ The questions are answered.

On the second day, 21<sup>st</sup> of May 2015 at the session, following issues have been discussed:

- ☐ Definitions of EQF and ECVET are discussed,
- ☐ Usage of the competences, integration with the other countries, ease of mobility are explained,
- ☐ Evaluation questionnaire is distributed,
- ☐ It is required from the participants to rank the questionnaire according to the knowledge they got from the workshop and teaching sessions performed in these 2 days.

Participants were glad to have this information about the project and they were also very much interested with the European Union Projects and they were eager to involve in these projects.

A part of the participants were willing to participate to the future training courses of the project in order to learn all the modules given by the project.

The workshop and the testing are ended with good wishes for the future and hoping to discuss other projects in the future.

From the participants, it is required to read the given documents,

The sheets for the below questionnaire are distributed to the partners and it is required from the participants to fill in the below questionnaire for the project and give us back the results until the end of the day.

## ***RESULTS OF THE COURSE:***

There were 25 participants for the course and we had their evaluation reports and we had totally 25 answers for the evaluation questionnaires, in some of the questions we had answers less than 25.

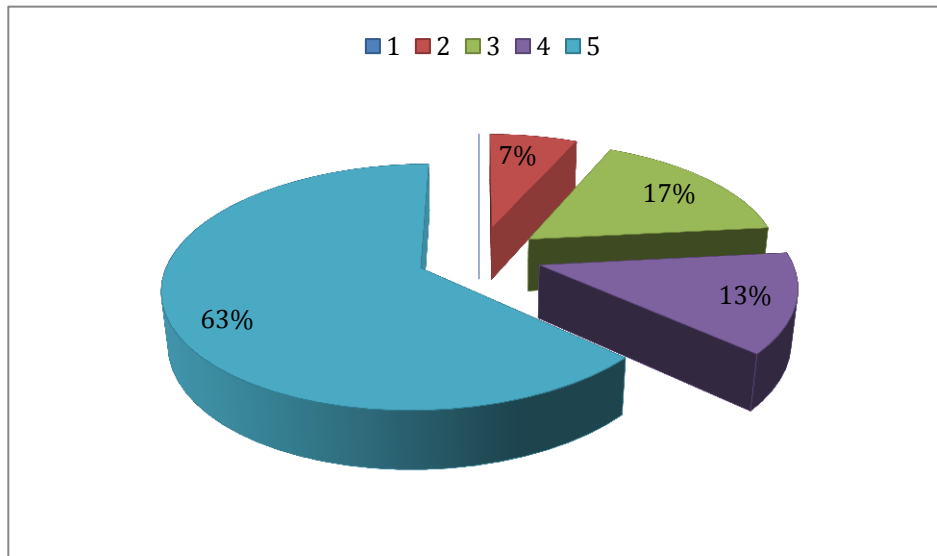
We delivered the evaluation questionnaire to the participants and we got the following results from the participants :

## PURE-H2O MULTIPLIER EVENT QUESTIONNAIRE

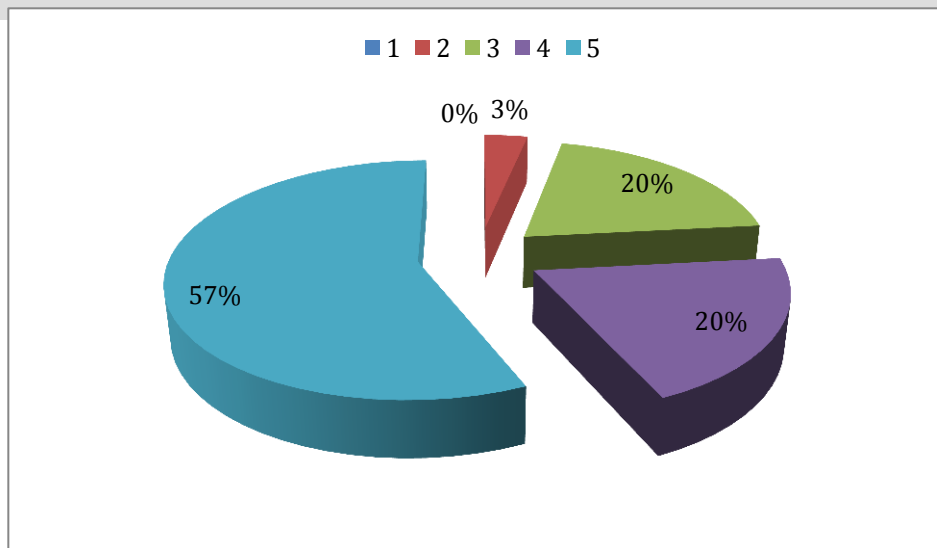
### Evaluation scale:

1 – not at all satisfied/fully disagree; 2 – unsatisfied/disagree; 3 – partly satisfied/partly disagree; 4 – satisfied/agree; 5 – fully satisfied/fully agree

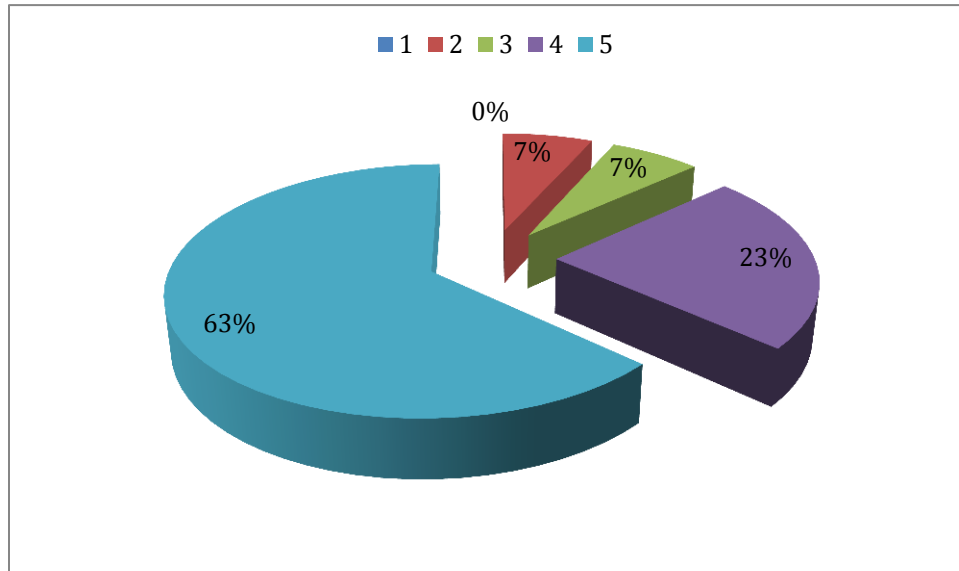
#### 1. Organisation of the event



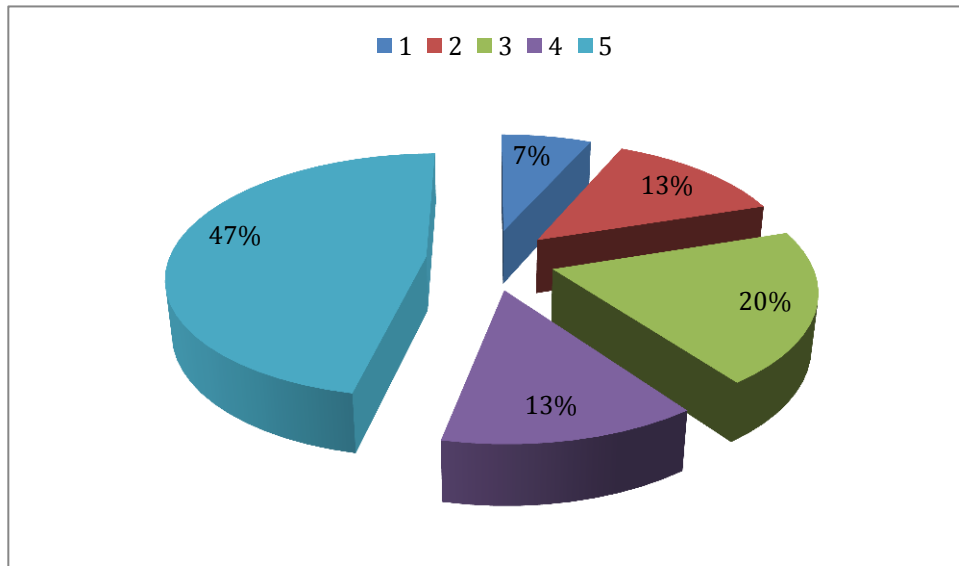
#### 2. Venue



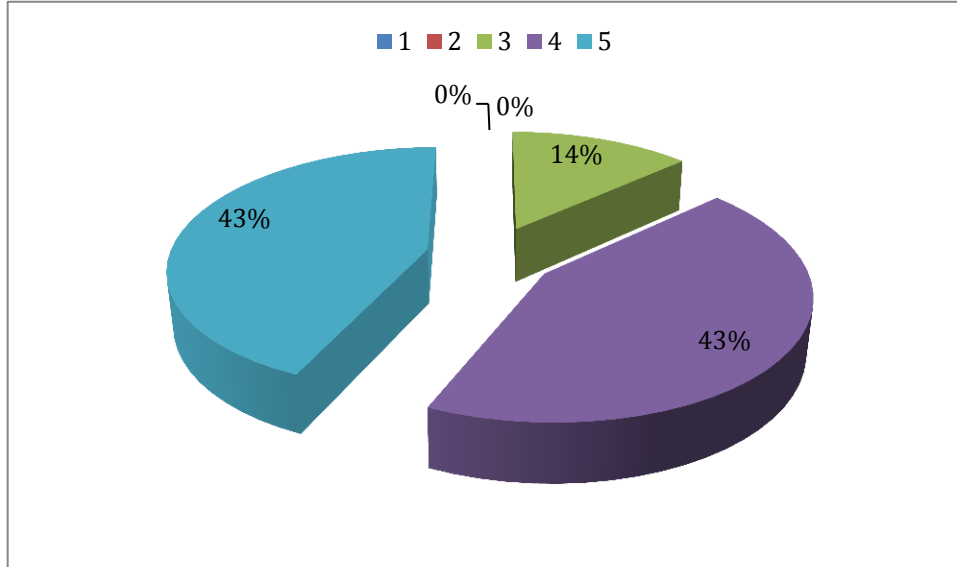
### 3. Quality of the material provided



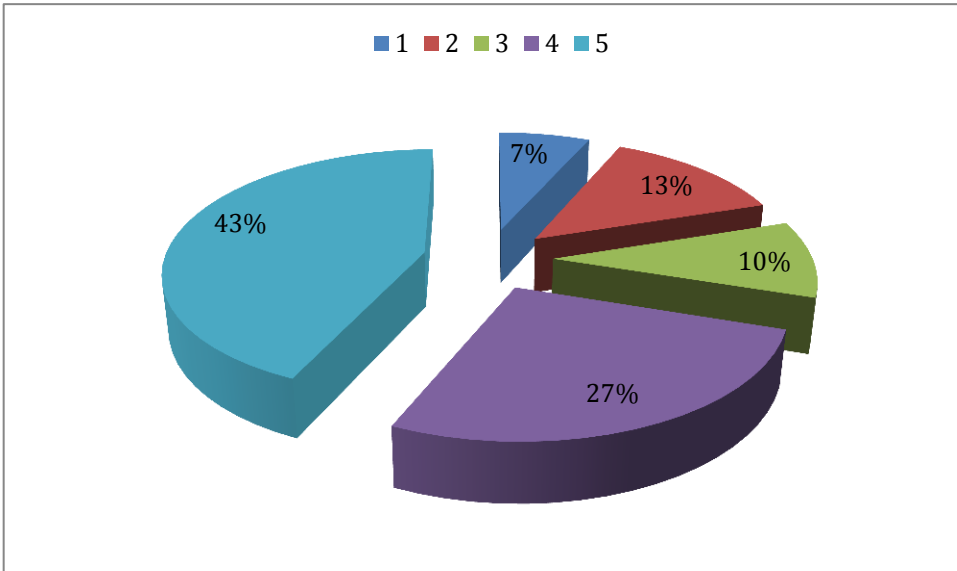
### 4. Usefulness of the materials to you



## 5. Quality of presentations

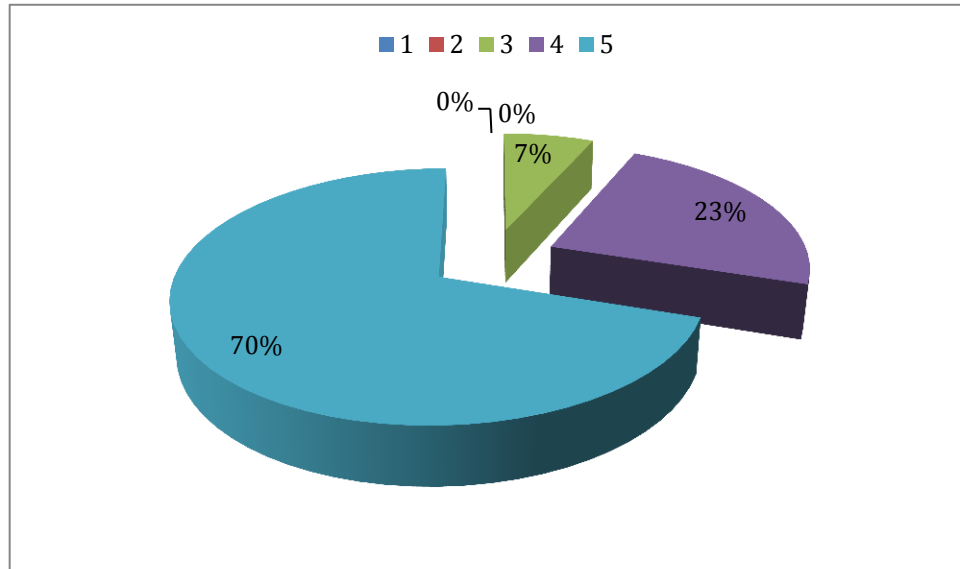


## 6. Usefulness of presentations to you

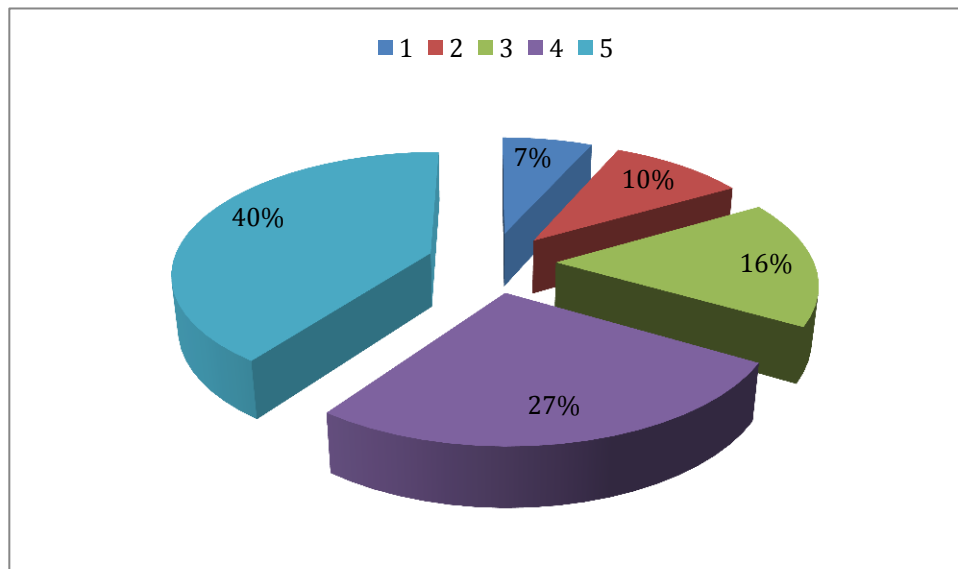




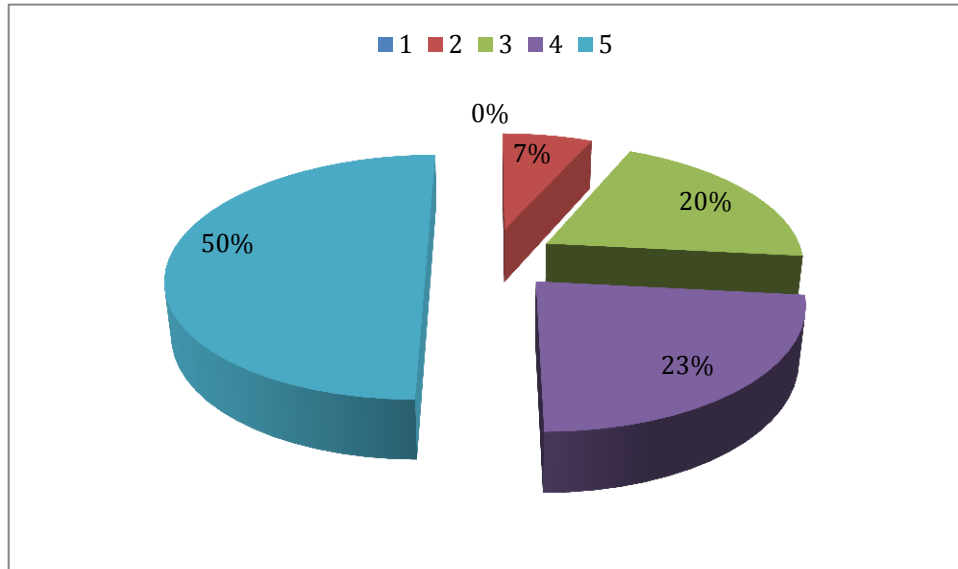
## 7. Opportunity to ask questions



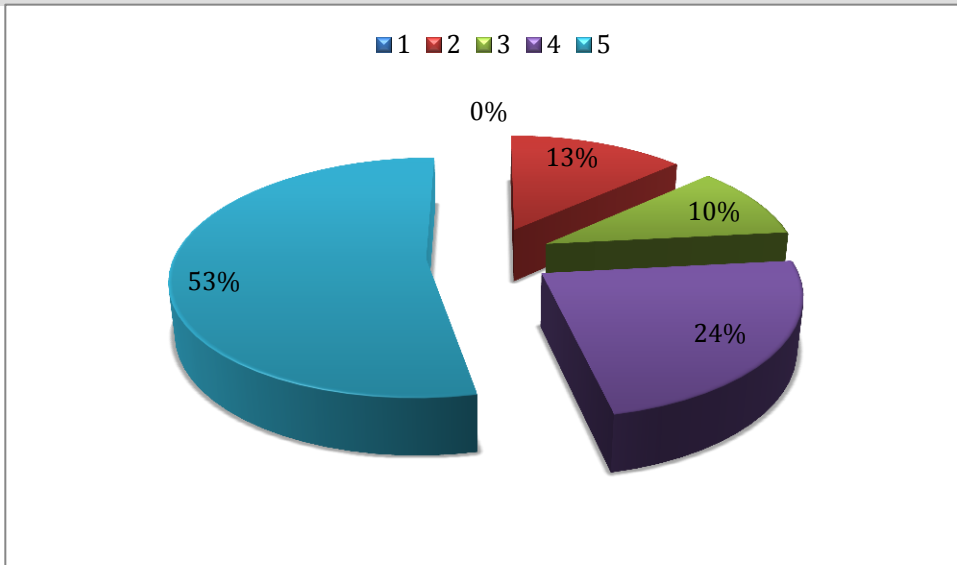
## 8. Clarity of answers



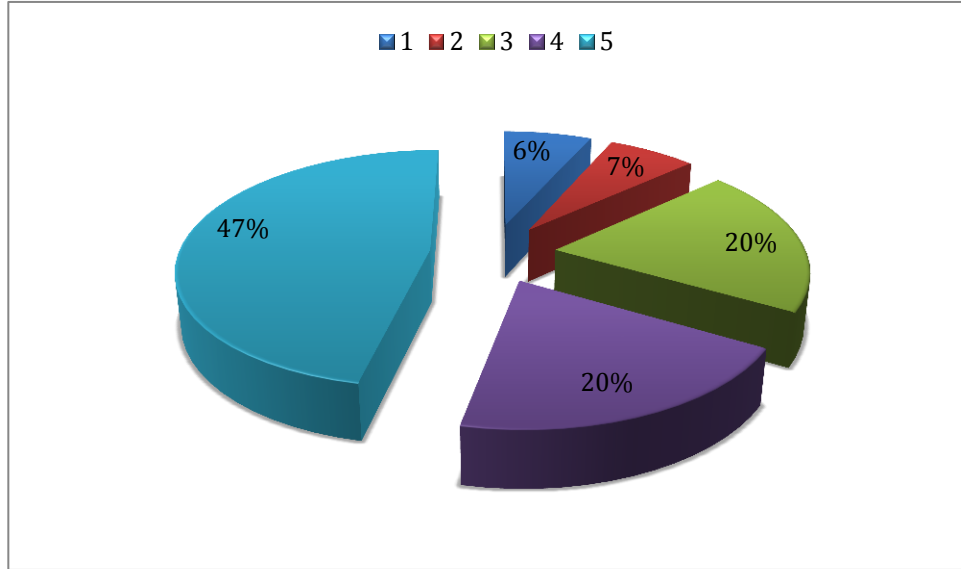
## 9. Quality of the discussion



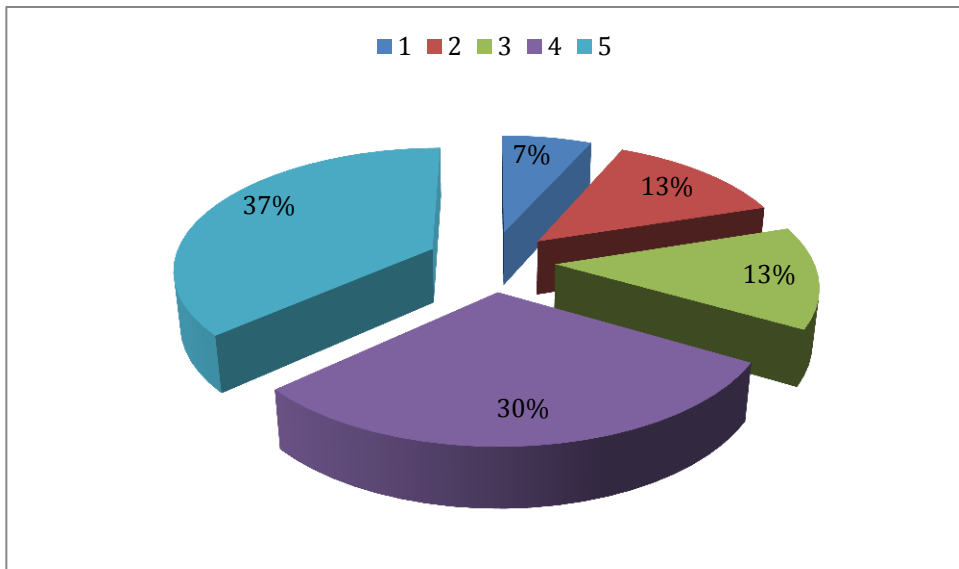
## 10. Opportunity to interact and exchange information with other participants



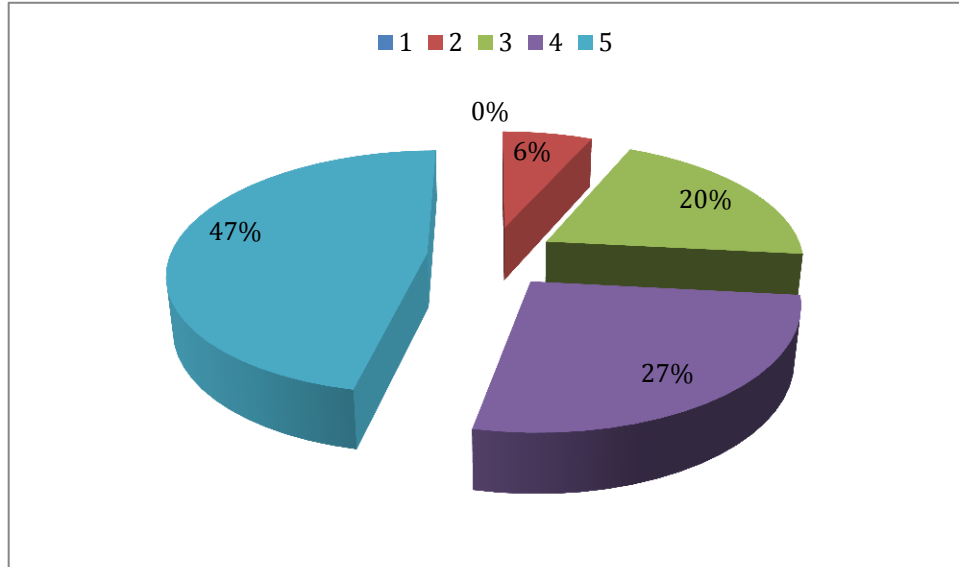
11. PURE-H2O Project contains all the important competence areas related with pure-h2o



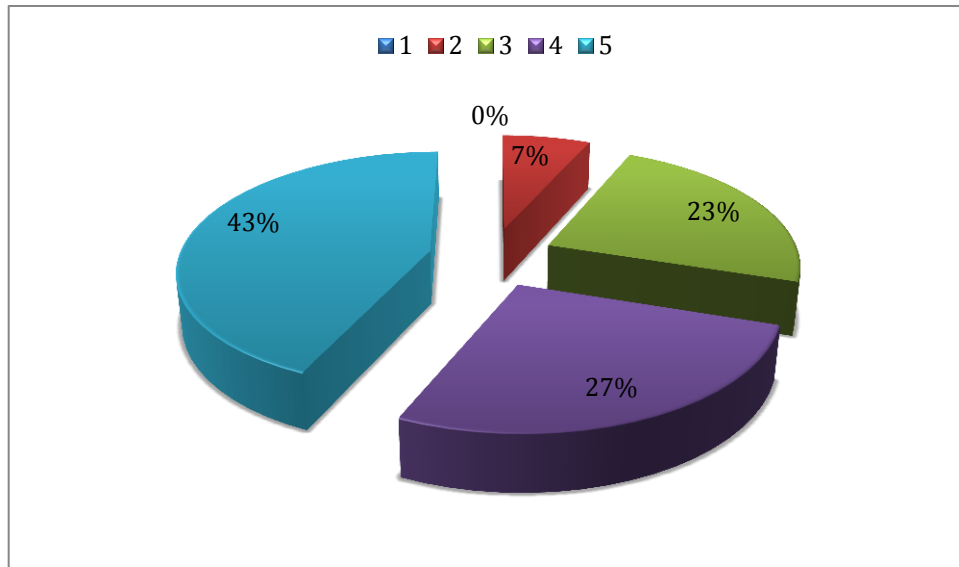
12. The competence areas are clearly described



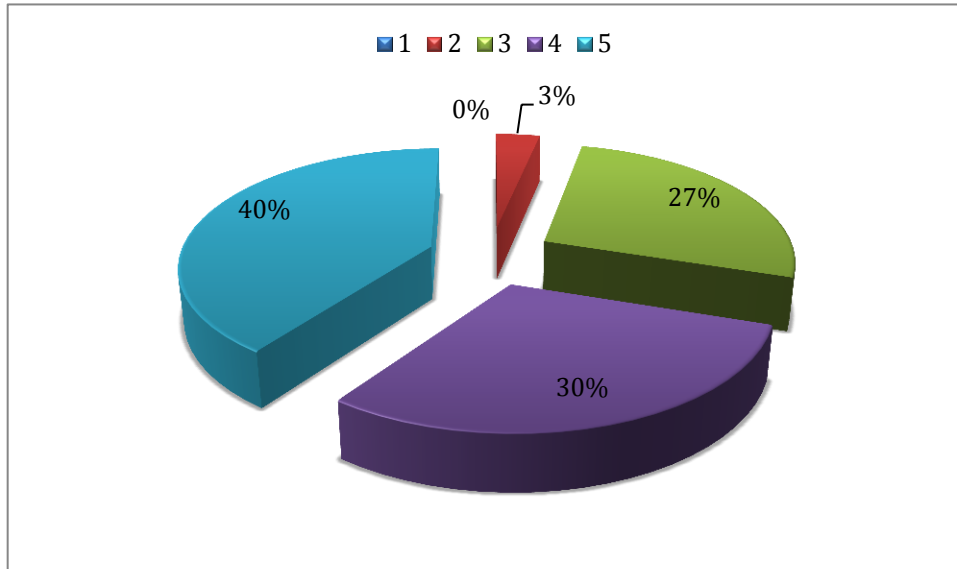
13. The steps of competence development are clearly described



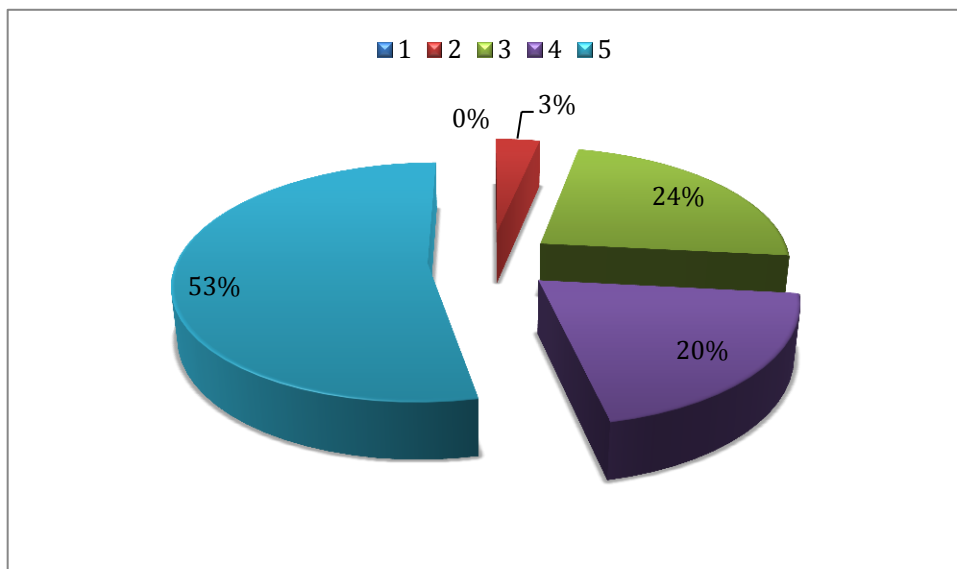
14. Competence areas are chosen suitable to PURE-H2O subject



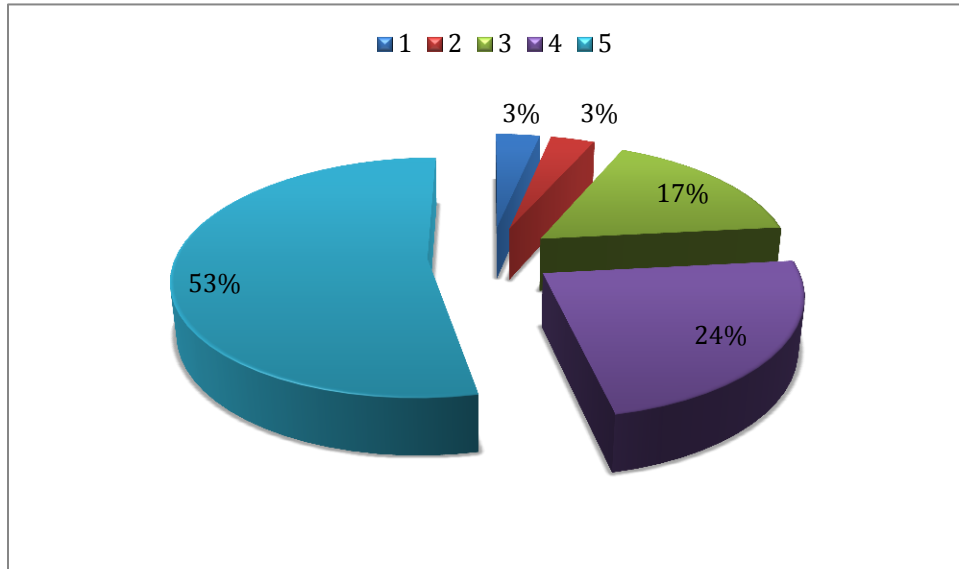
### 15. PURE-H2O Project shows necessary steps of competence development



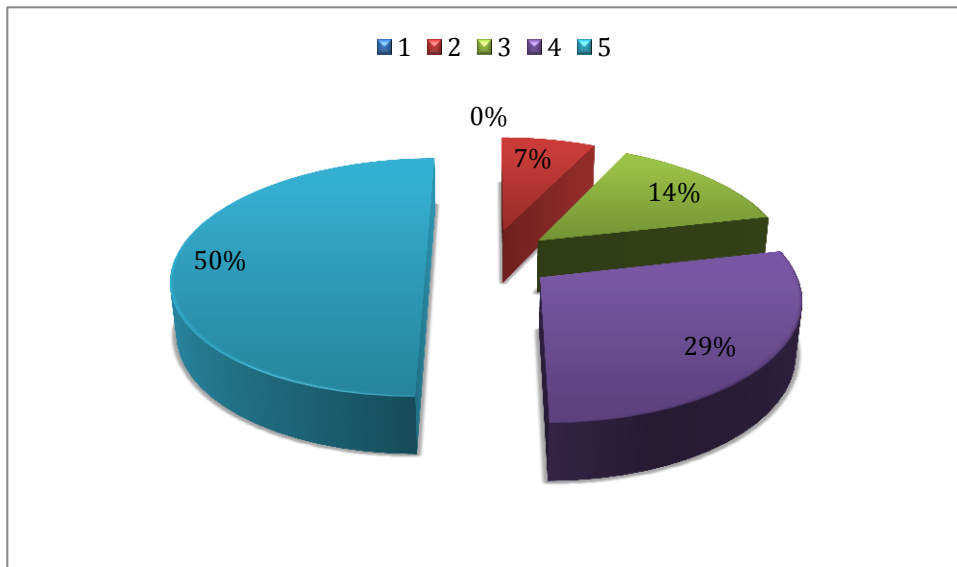
### 16. Overall, PURE-H2O project provides a satisfactory description of competences in water sector in my country



### 17. The Competences are not too complicated to understand

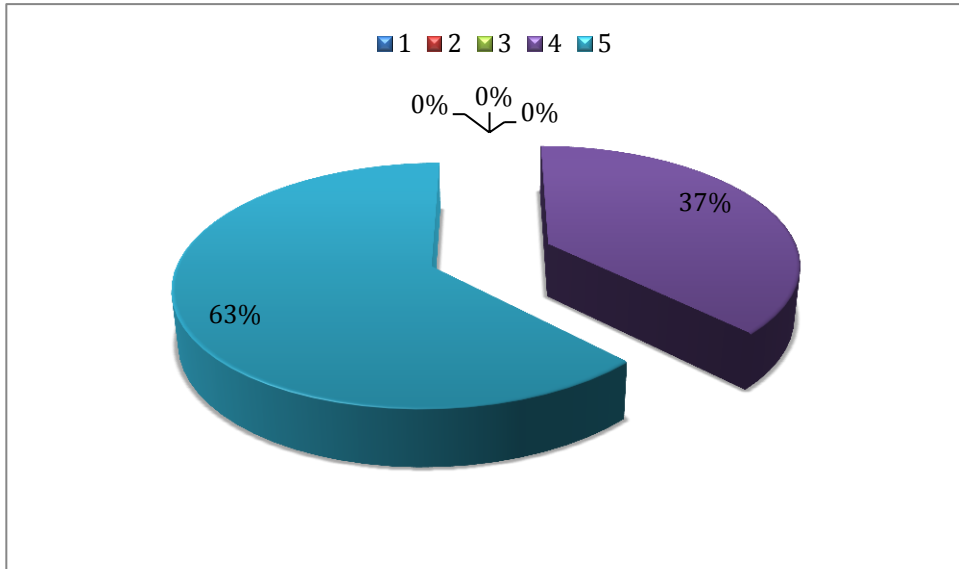


### 18. PURE-H2O Project is understandable and useful to my profession

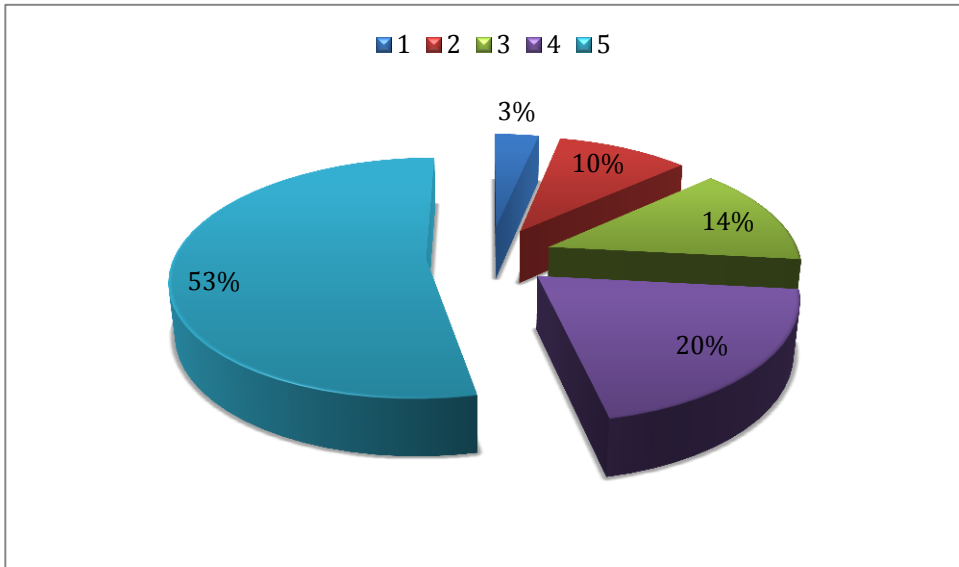




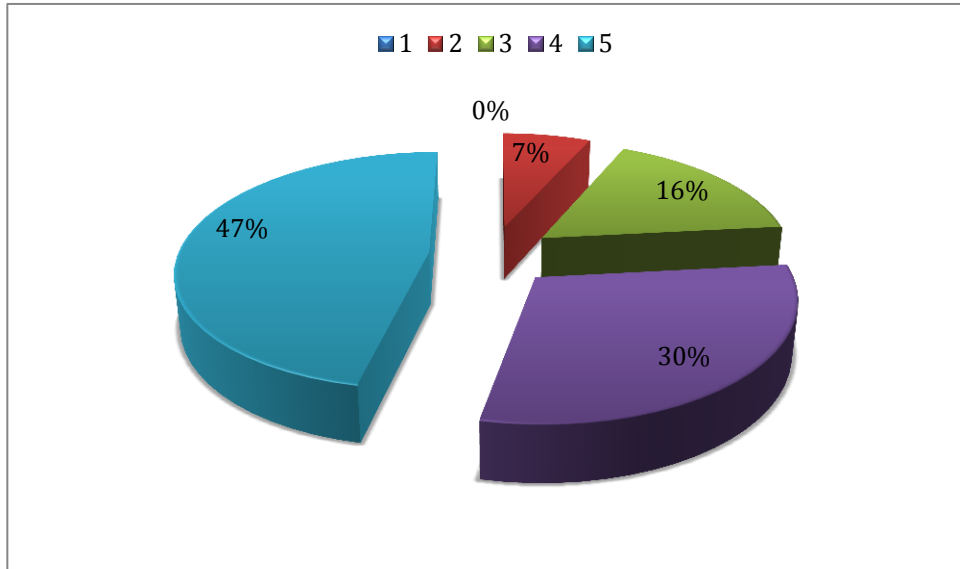
19. PURE-H2O Project helps me define which competences we already offer to our trainees and which ones we may decide to offer in the future.



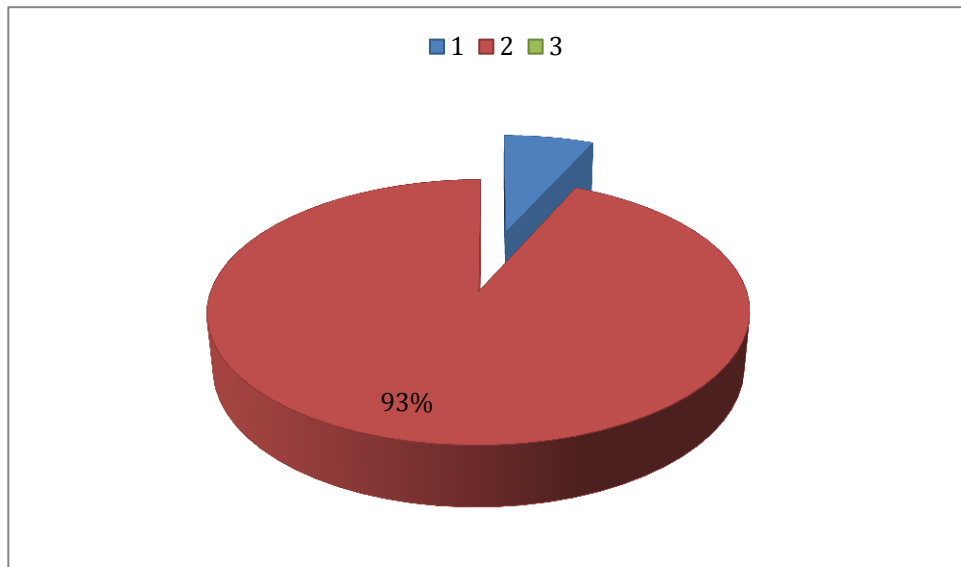
20. PURE-H2O Project is useful for personnel selection by my company



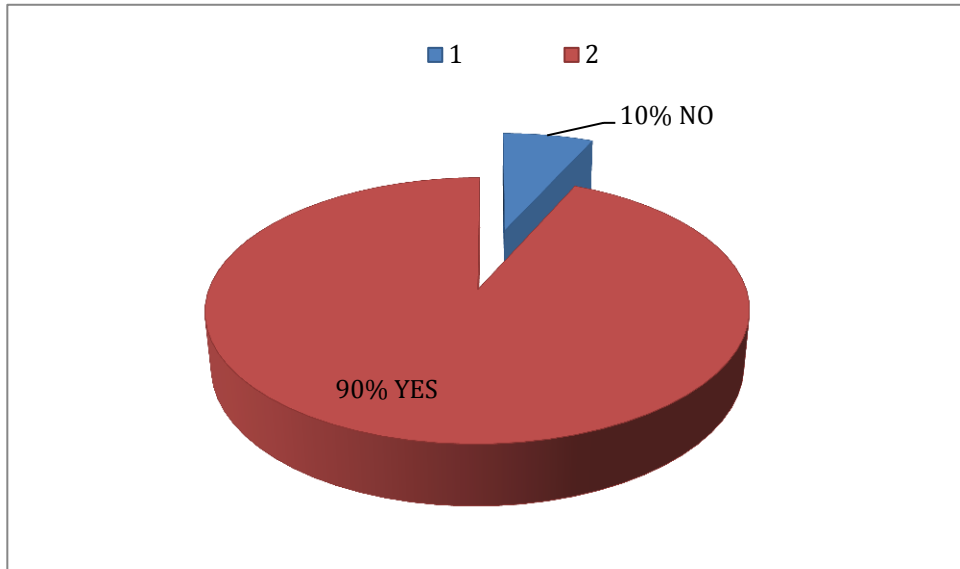
21. PURE-H2O Project is important and useful for my career development



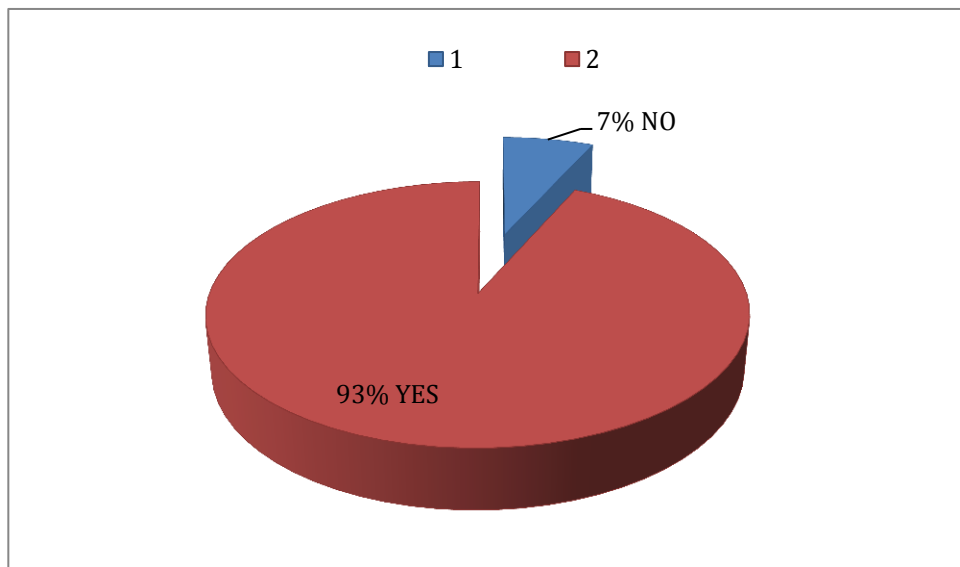
22. How do you estimate the training possibilities in the field of PURE-H2O project?



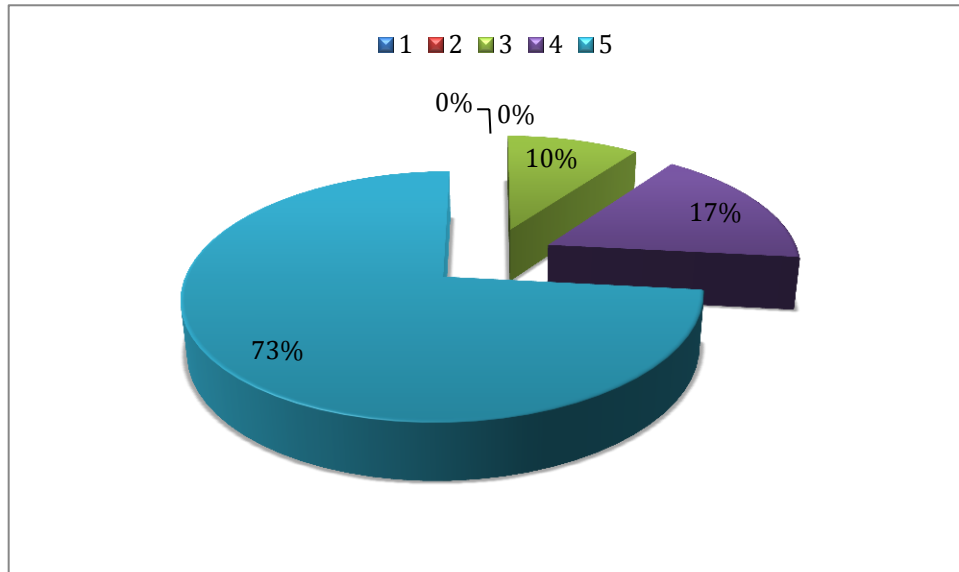
23. Are you satisfied with the provided Project documents (on-line and/or off-line)?



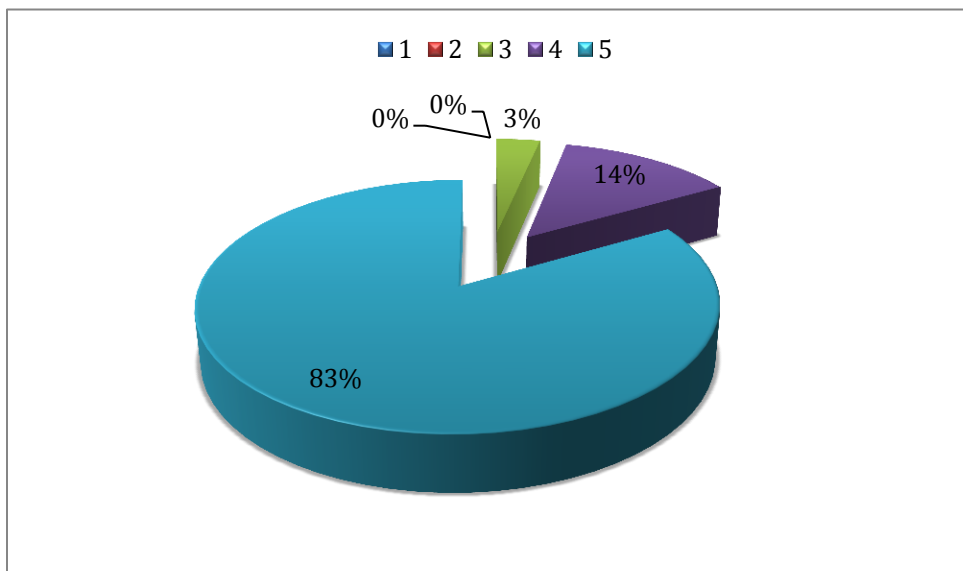
24. Do you think the PURE-H2O competence model could contribute to your job performance making it easier and more productive?



25. I will suggest PURE-H2O Project and its products to my colleagues to read and study on them !



26. On a scale of 1 (lowest) to 5 (highest), what is your overall rating of today's event?



### 27. What did you like the most about today's event?

Discussion of European Projects were interesting,

Pure-H<sub>2</sub>O subject is always important for me, it was attractive, because we will drink clean water.

Because of the language English, I like these events, it improves my English.

Suitable for my profession, I am working in drinking water treatment plants, I would like to learn more about the project.

Good course, well prepared project.

It is good to involve in these projects.

The project and the subject is very interesting,

It is good to learn something new, competences are new to me.

### 28. What did you like the least about today's event?

I would require to have more time for this project, it is short and limited.

The course period should be longer.

The time given to the questions was not enough.

We should work longer and learn more about the project.

### 29. Your opinion matters to us. Please add any additional comments in the space provided below or on a separate piece of paper.

- ☐ I liked the project a lot, well-designed and successful subject,
- ☐ I did not understand the course, it was irrelevant with my area, it is out of my knowledge,
- ☐ A good work
- ☐ Very well prepared and a very useful course, I'm sure many people will use these courses and products of the project,

- ☐ I was very pleased with the course and the project, and the project is understandable and useful.
- ☐ Thanks for giving this course to me, it was a pleasure for me to attend this course.
- ☐ I would like to take part in European projects.
- ☐ It is a very useful course.
- ☐ I like the contents of the course, a good work has been done.
- ☐ Confusing course and also difficult. Not for me.
- ☐ It is a successful project, I would like to congratulate PURE-H2O partners.
- ☐ Maybe it could be better, it is a little bit confusing,
- ☐ Questions are not defined good, should be better.
- ☐ It is not good to study on ourselves, I would prefer to be trained by a teacher from the start to the end of the course, for example for 5 days' full time course or something like that.
- ☐ According to me, there are lacking parts in the project, they must be completed in the future,
- ☐ Good & professional work, congratulations.
- ☐ The project is planned good, presentations are logical and teachful.
- ☐ The competences are a new to us but it seems it would be very useful for the staff who is willing to work outside Turkey.
- ☐ EQF, profiles, competences, successful definitions by European Commission, having a standard on these will be perfect for the workers.
- ☐ Not relevant to me, it is not in my profession.



## *PURE-H2O MULTIPLIER EVENT CONTENT :*

ALL COMPLETED AND ON-GOING EUROPEAN PROJECTS INCLUDING PURE-H2O PROJECT ARE INTRODUCED SHORTLY BELOW:

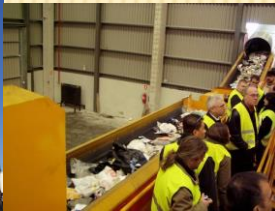
### EUROPEAN UNION PROJECTS PURE-H2O

- ☐ Erasmus + Project
- ☐ Subject: **"Implementation of ECVET for Qualification Design in Drinking Water Treatment Plants and Sanitation for Pure Drinkable Water"**
- ☐ Partnership: Turkey, Bulgaria, Germany
- ☐ [www.pure-h2o.org](http://www.pure-h2o.org)



### ECO-MATRIX

- LLP-LdV Transfer of Innovation Project
- Subject: **"Vocational Qualification Transfer System in Ecology"**
- Partnership: Turkey, Bulgaria, Austria, Greece





## EC-AQUA

- LLP-LdV Transfer of Innovation Project
- Subject: “Implementation of ECVET for qualification design in sanitation and water loss management
- Transfer of PROWAT Project coordinated by ERBIL
- [www.pro-wat.com](http://www.pro-wat.com)
- Partnership: Bulgaria, Turkey, France



## SHANIME

- LLP-LdV Transfer of Innovation Project
- Subject: “Preventing Accidents in Construction – Health and Safety Multimedia Animated Learning”
- Partnership: Turkey, Poland, United Kingdom, Portugal





## EARTHQUAKE

- LLP-LdV Transfer of Innovation Project
- Subject: “VET in Rapid Earthquake Damage Assessments of Buildings to Avoid the Demolishing”
- Partnership: Turkey, Italy, Austria, Greece



## CARE-WASTE

- LLP-LdV Transfer of Innovation Project
- Subject: “Competence based e-learning in general and health care waste management for new skills development
- Transfer of WASTE-TRAIN Project coordinated by ERBIL
- [www.waste-train.com](http://www.waste-train.com)
- Partnership: Greece, Bulgaria, Turkey, Norway





- **The aim of Erasmus+ programme is to promote:**

- The innovation,
- European dimension,
- Transferability,
- Quality with analysing and solving problems for the vocational training systems.
- The adaptation of professional innovations in life-long learning training.



## Advantages of a EUROPEAN UNION Project

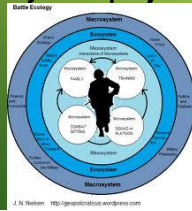
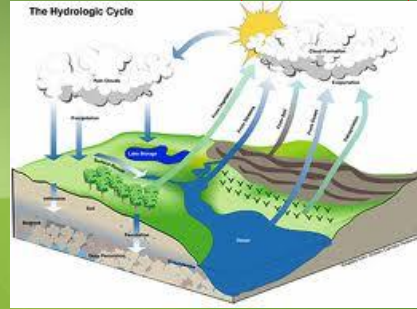
- You are working with different countries and cultures..
- This means that you and your organisation are aware about different cultures and also the European countries are getting knowledge about our culture..
- English language is becoming a more common language in your organisation.



- You are getting more practical with technical engineering glossary and design criterias in a project.

## Advantages of a EUROPEAN UNION Project

- You see the existing systems and management in other European countries and in this way you have the chance to make a comparison of yourself with them..
- You become more aware of what is right and what is wrong...
- You, your partners, your country, your partners' countries, your project are getting very well-known in Europe and suddenly you might be called from a European organisation to introduce your project in their country..



- You are used to be innovative in all your other works and this brings development & technique to your works..

## INTRODUCTION OF PURE-H<sub>2</sub>O PROJECT

### PROJECT PURE-H<sub>2</sub>O

Implementation of ECVET for Qualification Design in Drinking Water Treatment Plants and Sanitation for Pure Drinkable Water



## PURE-H<sub>2</sub>O ERASMUS+ KA2 STRATEGIC PARTNERSHIPS PROJECT

- ☐ Name: "Implementation of ECVET for Qualification Design in Drinking Water Treatment Plants and Sanitation for Pure Drinkable Water"
- ☐ Partnership: Turkey, Bulgaria, Germany
- ☐ [www.pure-h2o.org](http://www.pure-h2o.org)

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PURE-H <sub>2</sub> O		
Project Partners and Contacts		
P#	Partners	Contact Persons
P1	Orkon International Engineering Training Consulting Co. Inc.	Eng.Altan Dizdar
P2	Nigde University	Prof.Fehiman Çiner
P3	Gazi University	Prof.Seniha Alev Söylemez
P4	Planart	Ass.Prof.Gamze Yücel İşildar
P5	R & D Center "Biointech"	Prof.Anna Kujumdzieva
P6	Open University of Netherlands	Dr. Christian M. Stracke

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## Project Activities : Intellectual Outputs

IO#	Output Title	Leading Organization
#1	Survey and analysis report on Drinking Water Supply Sector VET Requirements	ORKON
#2	PureH2O e-learning portal	BIOINTECH
#3	Learning outcomes based blended learning curriculum	BIOINTECH
#4	PureH2O Skills Passport	GAZI UNIVERSITY
#5	Analysis report of testing & evaluation	OPEN UNIVERSITY OF NETHERLANDS
#6	Analysis report on dissemination and use	ORKON
#7	Booklet "Pure H2O project: challenges & limitations"	PLANART



## PURE-H2O

PURE-H2O was developed to provide a tool that will promote:

- transparent environmental planning & education
  - in the development of sustainable & sound practices
  - in the area of potable water & related treatment plants






## PURE-H2O

This project will contribute to:





- the recognition & transparency of qualifications at the EU level
- provide an innovative model for competencies for the potable water sector

**ORKON**

## PURE-H2O

Thereby, the VET institutions will have the means necessary to:

- enhance the skill set as required in the various disciplines
- workplaces to workers within the potable water supply field

**ORKON**



Erasmus+



ORKON



## PURE-H2O

***The main target groups are teachers, trainers, learning facilitators, guidance professionals, school/institution managers and political decision makers.***



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## INTRODUCTION OF PURE-H2O INTELLECTUAL OUTPUTS

### PROJECT PURE-H2O

Implementation of ECVET for Qualification Design in Drinking Water Treatment Plants and Sanitation for Pure Drinkable Water



ORKON



Planart

Bio



Open  
University  
of Turkey



Erasmus+



ORKON



## PURE-H2O OUTCOMES

### INTELLECTUAL OUTPUT 1

**Survey and Analysis Report On:  
Drinking Water Supply Sector VET Requirements  
COORDINATOR : ORKON**

☐ This document will include the description of drinking water supply sector VET requirements and the inquired information collected through questionnaires and group work with representative from the key project target groups and stakeholders.

☐ The expected milestone of the deliverable will be the identification and analysis of the specific VET requirements in the project area.



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## PURE-H2O OUTCOMES

### INTELLECTUAL OUTPUT 1

**Survey and Analysis Report On:  
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## PURE-H2O OUTCOMES

### Survey and Analysis Report On: Drinking Water Supply Sector VET Requirements

It will be used to:

- ☐ further develop the other PureH2O Intellectual outputs;
- ☐ improve the development, exchange and maintenance of foreseen VET certificate;
- ☐ enhance the accessibility and transparency of acquired e-competences by harmonizing the Europass, ESCO and other European instruments (EQF, ECVET).



## PURE-H2O OUTCOMES

An introduction of learning outcomes approach based on EQF principles and ECVET application will be made.

Concerning the every day operation of project activities, the tasks time table: what has to be done during the project, when and by whom will be spread among the partners and their relevant budget issues will be discussed.

The organization of project products/outcomes elaboration will be discussed.



## PURE-H2O OUTCOMES

National Reports will be prepared for Bulgaria (BIOINTECH), Germany (OUON) & Turkey (PLANART),

### TOC of the National Reports can be designed as:

Introduction of water systems,  
Background and needs analysis,  
Ways of purification of water in the country,  
Water treatment plants,  
EU and National Legislations,  
Professions and technicians working in the sector,  
Specification of target groups; end and potential users of the project ,n  
partner countries,  
VET Requirements in the sector,  
Analysis of Learning Outcomes,  
EQF Levels.



## PURE-H2O OUTCOMES

### INTELLECTUAL OUTPUT 2

PURE-H2O e-Learning Portal

COORDINATOR : BIOINTECH







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ORKON



## PURE-H2O OUTCOMES

### PURE-H2O e-Learning Portal

- ☐ This result includes design, set up and functioning of PureH2O e-based system for project implementation.
- ☐ The e-portal will operate as flexible e-medium providing competence based carrier development.
- ☐ It will also act as knowledge data base, providing relevant information in the project subject area, as well as experience exchange platform within and outside the project consortium.
- ☐ The PureH2Oe-portal will also operate as a powerful dissemination and exploitation tool.



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BIOINTECH



## PURE-H2O OUTCOMES

### PURE-H2O e-Learning Portal

- ☐ PureH2O qualifications e-platform providing a frame for establishment of an algorithm for competence development in Drinking water supply sector;
- ☐ Set up of descriptive table for certification units comprising the following parts: knowledge, skills, wider competence.
- ☐ The new type of b-learning structure will be based on ECVET crediting plan as well as arranged in learning pathways corresponding to different qualification levels (5, 6, 7) of EQF system.



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BIOINTECH





## PURE-H2O OUTCOMES

### INTELLECTUAL OUTPUT 3

Learning Outcomes-Based Blended Learning Curriculum

COORDINATOR : BIOINTECH



## PURE-H2O OUTCOMES

### INTELLECTUAL OUTPUT 3

Learning Outcomes-Based Blended Learning Curriculum

COORDINATOR : BIOINTECH

- ☐ The result comprises creation of blended learning program in water supply sector, comprising 12 courses concerning characteristic, operation, management and economics of Drinking Water Treatment Plants.
- ☐ The project blend foresees development of on/of line training friendly opportunities designed for target groups in all partners' languages.
- ☐ The training model will be elaborated on the basis of the specific requirements of targeted qualifications of professionals working in the water supply sector needed upgrading/ updating of their knowledge and skills.



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## PURE-H2O OUTCOMES

### INTELLECTUAL OUTPUT 3

Learning Outcomes-Based Blended Learning Curriculum

COORDINATOR : BIOINTECH

- ☐ The built comprehensive learning outcome based units are designed to give detailed view of knowledge, skills and wider competence required for the target groups. A certification process based on ECVET allocation will be set up.
- ☐ The knowledge will be available as Learning Pathways (LPs) and Short Intensive Courses (SICs) designed to match EQF levels 5, 6 and 7, and weighed through ECVET.
- ☐ The qualification description will be made in accordance to ISCO/ESCO system.



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**BIOINTEC**



## PURE-H2O OUTCOMES

### INTELLECTUAL OUTPUT 4

PURE-H2O Skills Passport

COORDINATOR GAZI UNIVERSITY



**GAZI UNIVERSITY**



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ORKON



## PURE-H2O OUTCOMES

### PURE-H2O Skills Passport

This result represents a general frame for gathering of documents certifying completed training and acquired competence/qualification in water supply sector. It will facilitate the mobility process and comprises the following:

- ☐ Currently existing Europass documents (e.g. CV, Certificate supplements, Diploma supplements, Europass mobility certificate, EU language certificate);
- ☐ Work experiences or traineeships certificates;
- ☐ Non-formal education and training certificates (such as in-company training);



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**GAZI UNIVERSITY**



## PURE-H2O OUTCOMES

### PURE-H2O Skills Passport

- ☐ Informal learning certificates (e.g. from job experiences, leisure activities or volunteer work);
- ☐ All other relevant internationally recognized certificates.

The system frame will be set up following the established common for the project criteria and procedures, and standard quality indicators.



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## PURE-H2O OUTCOMES

### INTELLECTUAL OUTPUT 4

#### Analysis Report of Testing & Evaluation

COORDINATOR : OPEN UNIVERSITY OF NETHERLANDS



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## PURE-H2O OUTCOMES

### Analysis Report of Testing & Evaluation

The evaluation of project results/outcomes will be conducted through testing/evaluation and tuning process. Evaluation & testing reports will be delivered which will include:

- ☐ a set of documents regarding the evaluation/certification procedure
- ☐ information regarding the format and specific content for each event and summary for the type and specificity of target groups and stakeholders involved;



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## PURE-H2O OUTCOMES

### Analysis Report of Testing & Evaluation

- ☐ measures foreseen for the final tuning of the planned outcomes.
- ☐ Evaluation Reports of meetings and activities-intellectual outputs,
- ☐ Testing reports of the multiplier events and intellectual outputs.



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## PURE-H2O OUTCOMES

### INTELLECTUAL OUTPUT 6

### Analysis Report on Dissemination and Use

COORDINATOR : ORKON + GAZI UNIVERSITY

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## PURE-H2O OUTCOMES

### Analysis Report on Dissemination and Use

- ☐ This output describes the project's dissemination objectives and measures achieving throughout the course of the project.
- ☐ It defines and prioritize the key objectives of the project's dissemination;
- ☐ Identifies main stakeholder types/categories and why to reach them; elaborates means for reaching out to stakeholders,
- ☐ defines time-lines for the planned dissemination activities and stakeholder contact and, finally, identifies and prioritizes dissemination tools.



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## PURE-H2O OUTCOMES

### Analysis Report on Dissemination and Use

- ☐ An overview of the dissemination process will be made,
- ☐ Conclusions will be drawn how to identify and reach stakeholders, including end users and the public,
- ☐ Raise their awareness regarding the findings of the consortium and to encourage them to support and adoption of the consortium's recommendations regarding the access to the obtained research data.
- ☐ Promotional materials will be produced, 2 leaflets, 2 posters, Newsletter, etc.



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## PURE-H2O OUTCOMES

### INTELLECTUAL OUTPUT 7

#### Booklet “PURE-H2O Project: Challenges & Limitations”

COORDINATOR : PLANART



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## PURE-H2O OUTCOMES

#### Booklet “PURE-H2O Project: Challenges & Limitations”

The aim of this output is to evaluate the achievements compared to the project objectives and seek for successes and lessons learned of the PureH2O project.

The below objectives will be pursued in order to achieve this goal:

- ☐ Assess the structure and level of VET education in the Drinking water supply sector;
- ☐ Conduct document analysis on project activities and its quarterly reports and policy and legal documents related with strengthening the VET in the area;



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## PURE-H2O OUTCOMES

### Booklet “PURE-H2O Project: Challenges & Limitations”

- ☐ Define the level of participation of the different project target audience; stakeholders; policy makers and public;
- ☐ State the relations between project outputs, outcomes and effectiveness;
- ☐ Develop recommendations for further actions based on evaluation results and conclusions.



*SOME PHOTOS BELONGING TO THE PARTICIPANTS OF  
THE MULTIPLIER EVENT:*



