



“Improvement of Production and Management Processes in  
Dairy-Cheese Sector and Dairy waste Management.”  
“Why-Whey”

# “Why - Whey Project Plan” (Q1)

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## **Preface**

This project plan presents under managerial perspective the way that “ **Why Whey**” project is going to be implemented in the period of next 24 months (01.09.2014 –31.08.2016). It starts with a brief description of the project and of the partnership. Then it turns to concrete work plan and timetable, finalising with a checkpoint for each of the project outputs. The purpose of this document is to give to the project partners a quick and accessible reference to assure that **Why Whey** project is implemented in an efficient and agreed manner. Aydın Damızlık Koyun Keçi Yetiştiricileri Birliği (**ADKKYB**) as coordinator together with the partners will establish a review process within the advisory working group, with the occasion of each project meeting. The review of the implementation strategy will reflect changes in procedures, as well as rules and regulations from partner institutions that have implications to the implementation of **Why Whey**” project.

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## **Introduction**

### **General Background**

Improvement of Production and Management Processes in Dairy-Cheese Sector and Dairy waste Management” “Why - Whey” 2014-1-TR01-KA202-012957 is coordinated by Aydın Damızlık Koyun Keçi Yetiştiricileri Birliği from AYDIN. It is financed under ERASMUS+ program, Key Action 2: Cooperation for innovation and the exchange of good practices Strategic Partnerships for vocational education and training. The contract awarding 224159 Euro over the span of 24 months (01.09.2014–31.08.2016) was signed between the coordinators ADKKYB and the Turkish National Agency – Türkiye Ulusal Ajansı. In its turn, AKKDYB as applicant & coordinator of the project developed contracts with all partners of the project:

Çanakkale Onsekiz Mart University-Turkey

Stowarzyszenie Rozwoju Inicjatyw Regionalnych "Lacjum"- Poland

Balıkesir Üniversitesi- Turkey

Tudás Alapítvány- Hungary

Eurocultura- ITALY

Confederazione italiana agricoltori dell'Umbria-ITALY

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These contracts are available throughout the entire lifetime of the project and draw up clear attributions and responsibilities to both parties.

## **Project Summary**

The dominant environmental problem caused by dairy processing is the discharge of large quantities of liqued effluent. In rural areas dairy processing effluent may also irrigated to land. If not managed correctly, dissolved salts contained in the effluent can also leach into underlying groundwater and effect it's quality. Cheese factories generate waste waters of which cheese whey (CW) is the most important waste stream produced with a high organic content (up to 70 g COD/L) which is highly biodegradable, and low alkalinity (50 meq/L). Since cheese whey is a protein-and lactose-rich by-product of cheese production, its cost-effective utilization or disposal has become increasingly important. If discarded untreated into the waterways, cheese whey can cause serious environmental problems due to its high biological oxygen demand and chemical oxygen demand. Whey is the liquid remaining after the production of cheese or the removal fat and casein (80% of the proteins) from milk. Farm milk production increased by 18% between 2001 and 2013, to a total of 156 million tonnes in the EU last year. Dairies collected 142,1 million tonnes, 98% of which was cows' milk. In volume, whey is the most important product. It was mainly used for producing cheese (67 million tonnes of raw milk used), butter and other yellow products (42 million tonnes) and drinking

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milk (31 million tonnes). A total of  $40 \times 10^6$  tons/year of whey is produced in the EU; the annual surplus of whey is  $13 \times 10^6$  tons, containing about 619,250 tons of lactose. According to the data of 2013 the milk production of 13, 5 million tons per year (TUIK, 2013) and that approximately 20% of processed cheese, given that 2,7 million tons of milk cheese used for the production is understood.i.e., a large portion of whey are released into the environment.In this regard,our country, including small businesses various forms of whey is of great importance in the economic evaluation.

Nowadays this surplus is not utilized for further production of lactose; consequently, whey disposal represents a serious problem from both an economical and an environmental point of view. In this context, whey is a strong pollutant when discharged into streams, its high organic matter content leading to a biochemical oxygen demand (BOD5) ranging from 30 to 40 g of oxygen per litre. As a result, the pollution load from a cheese factory processing 100000lt of milk per day would be equivalent to the pollution of a city of 60 000 inhabitants (Petillot, 1976).Given the large quantity of whey produced worldwide each year, the risks of pollution are therefore extremely high. On the contrary, recovery of whey components and/or use of whey as fermentation medium may be advantageous not only for the environment but also for a sustainable economy but compared with established west European markets, demand for whey products in the east European and accession countries remains under developed. PL, CZ, SK, HU, EE, LT, BG, RO, and HR produce less whey compared

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with western EU countries. A higher production of whey and its conversion into functional foods can be a great added value for those countries.

The main objectives of whey project is to: create awareness about the possibilities offered by the reuse of whey in Turkey and East EU. Develop a vocational training pathway consisting in adapting, testing, disseminating an education/training/decision process integrated system of transferable teaching materials for new skills/jobs on dairy-food and feed sector for target groups such as agricultural, food and environmental engineers, veterinarians, medical technicians, businessmen and entrepreneurs in related sectors and processing of whey to obtain products of high added value which are sweet whey (SW), demineralised whey (DW), whey protein concentrates (WPC) whey protein isolates (WPI) The challenge is therefore to invest in education and training for human resources aiming at increasing the entrepreneurship, competitive and innovative culture of the new generations and in the stakeholders in related sectors. The project that is going to be transferred **NATURALITER** was a successful Leonardo da Vinci TOI project that developed different levels of education and training tools:

- 1st level for a basic self-evaluation on dairy sector;
- 2nd level for a training from a library of case studies;
- 3rd level for whey manufacturers with skills on dairy sectors planning and managing. The

selected cheese, whey and value added such as WS, DW, WPC WPI products. The WHEY

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project aims at updating, adapting, transferring those teaching materials with specific focus on new established stakeholders, entrepreneurs, also bridging experiences and best practices between the EU and TR with its specificity. WHEY project aims at promoting excellence of high value-added products and application areas in dairy sector’s VET in connection with European/International research, education and training networks.

## **Innovative ways of Project**

**NATURALITER** was a successful Leonardo da Vinci TOI project based on different levels of education and training tools with skills on farm planning and managing. The selected farms were used as case studies for multifunctional activities as agro-tourism, organic products, traditional food products, gardening, nursery and landscaping, renewable energy sources. The computerized corporate platform enables farmers and advisors to settle a business plan, to update, change and improve specific farms. In Italy this approach has been developed with further applications for:

- a) Business management,
- b) Environmental management and conditionality
- c) Quality management
- d) Safety at work

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- e) E.commerce
- f) Work intermediation
- g) Human resource management
- h) Accountancy and business plan
- i) Fiscal support

The **WHY WHEY** project aims at updating, adapting, transferring those teaching materials with specific focus on new established young-innovative entrepreneurs in dairy-food-feed sector and, also bridging experiences and best practices between the Italy- East European countries and Turkey, with its specificities. Although this product is scientifically well defined, but at the field level is poorly understood especially in eastern Europe, and Turkey. In this context Naturaliter project' different levels of education and training tools will have an innovative approach by considering the sectoral dimension of the product and educated target groups. In this way, the most recent scientific findings for whey in health, food and feed industry will reach target groups with a innovative approaches and the entrepreneurs will have motivations to create added value in the whey and and will help to protect the environment. For example, bye means of the **NATURALITER** project's education and training tools entrepreneurs can use of whey in feeds for ruminants constitutes one of the newest and most rapidly exploitable means that may be adopted in the future. It is inexpensive, easy to put into practice, and offers a good method of utilizing nonprotein nitrogen sources suitable for livestock-ruminants. The project also support implementation of **EQF** in training for agricultural sector through implementation of up-to-date **EQM** in the adapted training modules.

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## **Target Groups of Project**

- Entrepreneurs towards the so called "green job-friendly to nature" and reconvert in such a way elderly employees and workers,
- Dairy-waste management sector: - Companies, - Universities, - Public Authorities, - Stakeholders
- Public and private employees responsible for waste management procedures (TR),
- Agricultural, food and environmental engineers, veterinarians, medical technicians and businessmen
- Involved parties (e.g. dairy-cheese sector employees, public environmental protection employees, NGO professionals, farmers) for the rational and sustainable waste management (IT)

Higher education students and public officers in charge of water basin and civil protection (TR),

Farmers and local authorities responsible for sustainable rural development (HU, PL).

Through the planned activities will generate the following results:

### **a) Management achievements:**

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-Management methodology, with protocol and guidelines for internal and external reporting, implementation calendar, financial management.

-Effective communication network inside (intranet) and outside (website-  
www.wheyeurope.eu) the project partnership.

**b) Action Plan Achievements:**

List of competencies and learning outcomes, connected to basic topic areas that will finally formulate individual modules and a full curriculum for Why Whey Project products.

- Workshop with experts in dairy and animal- food science to analyze the first version of the curriculum - organised by each partner.

Validation workshop with experts in dairy and food to validate the final version of e-learning platform and handbook organised by each partner

- European WHY WHEY portal course and handbook- Concise and usable WHY WHEY production handbook with methodologies to implement innovative workshops with mind-mapping and creativity tools, a methodology to teach and learn on line and involve the learners successfully through moderating techniques, monitoring and constancy strategies, example how to implement, adapt and localize the courses for different target groups. The products will be translate in each partner country language.

**c) Dissemination achievements:**

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- National dissemination and multiplier event organised by each partner in each partner country intensively.
- Final dissemination international conference organised in Turkey with the participation of project partners and stakeholders from each partner.

## **Expected Results**

**NATURALITER** project has realized effective VET tools in order to support and promote the “WHEY” project and its implementation. Starting from this point **WHEY project aims at:**

Enlarging the dissemination effects of NATURALITER outcomes to other four European countries (TR, PL, HU, )

Adapting the teaching materials to a wider range of users, Piloting and adopting a European transferable Agro (dairy)- management VET system, Analysing the suitability of this VET system for agriculture sector, cooperation activities, "green work" employment connected to environmental management in dairy sector. Demonstration of two courses to the partners, Developing a higher level of the results of the previous projects, focusing on VET on product processing, environmental protection, waste management and the creating added value Adaptation of the teaching materials, depending of the new target users, Assessing the quality of the new updated, adapted and tested training materials according to the EU standards.

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## **Organisation of Work**

### **1. OUTPUTS**

**Q1-** WHY WHEY Project plan,

Q1A1- WHY WHEY Project Research (s)

**Q2-** WHY WHEY Management Reference Materials and Best Practice Exchange and Why  
Quality Assurance:

Q1A1- WHY WHEY Quality Assurance Report

**Q3-** WHY WHEY Workshop(s)

Why Compendium of Competences,

Q3A1- WHY WHEY project activities

Q4- Handbook Finalizations- WHY WHEY management training need analysis

Q5- WHY WHEY Training Handbook

Q5A1- WHY WHEY Products promotion days to stakeholders

**Q6-** Online WHY WHEY tool development

Q6A1- Naturaliter Products to WHY WHEY

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**Q7-E-learning platform**

Q7A1-Learning Infrastructure for efficient working, learning and teaching WHY WHEY project portal

**Q8-Final project meeting**

Q8A1- WHY WHEY final conference in Turkey

**E-DISSEMINATIONS**-Workshops and national/international conferences.

**Outputs** are *activities, events, services, and products* that reach people, that result from and project's activities.

- **Activities** include conducting and analyzing experiments or surveys, assessments, facilitating, teaching, or mentoring.
- **Events** include conferences, demonstration sites, field days, symposia, workshops, and trainings.
- **Services** include consulting, counseling, and tutoring.
- **Products** include: Website, Text File, CD, DVD, Oral, database, network, press, paper brochures, book, publications, audio or video products, mail list, curricula, course, train-the-trainer manuals; learning/teaching/training material; report; skills, programs;

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- **Dissemination** refers to outreach activities that were undertaken to reach intended audiences for the purpose of advancing knowledge, encouraging positive actions, or changing conditions. Include activities for current and potential partners and collaborators.

**Table 1- Project Outputs**

<b>Output</b>	<b>Output Title</b>	<b>Output Leader</b>	<b>Start Date</b>	<b>End Date</b>
<b>Q1</b>	Whey Project plan	AYDIN, TR	01-09-2014	01-12-2014
<b>Q2</b>	Whey Management Reference Materials and Best Practice Exchange and Whey Quality Assurance	BAÜ, TR	01-01-2015	01-04-2015
<b>Q3</b>	Whey Workshop(s)- Whey Compendium of Competences	AYDIN, TR	10-04-2015	10-08-2015
<b>Q4</b>	Handbook Finalizations- Whey management training need analysis	ÇOMÜ, TR	15-10-2015	01-02-2016
<b>Q5</b>	“Whey” Training Handbook	ÇOMÜ, TR	2012-2015	10-02-2016
<b>Q6</b>	Online “Whey” tool development	Cia- Umbria, IT	15-02-2016	15-05-2016
<b>Q7</b>	E-learning platform	AYDIN, TR	20-05-2016	20-08-2016
<b>Q8</b>	Final Project meeting	AYDIN, TR	20-08-2016	21-08-2016
<b>Multpl.Events</b>	Workshops and national/international conferences.	AYDIN, TR	22-08-2016	23-08-2016

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**Table 2-Transnational meetings**

<b>1st project meeting-IT</b>	KOM in Verona – 15th and 18th of January 2015	Total participants in 3 meetings will be 6 for TR, IT and PL but 8 for HU.
<b>2nd project meeting- PL</b>	Meeting- PL in the month 14/11 of the project. (October/ 2015)	Total participants in 4 meetings will be 6 for TR,, IT and PL but 8 for HU.
<b>Final project meeting, International Conference and 2 days multiplier workshop- TR</b>	Meeting- TR in the month 24 of the project. (August 2016)	Total participants in 4 meetings will be 6 for TR, IT and PL but 8 for HU. For multiplier events 30 participants from Aydın, 25 participants from Canakkale and 25 from Balikesir

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**Table 3. Development of the project output Q1- Whey Project plan**

Code	Name of activities	Activities description	Tasks and role of each organization	Start /End date
Q1A1	<i>Whey Project plan</i>  <b>Whey Project Research(s)</b>	All project partners will have a scientific report on whey production, whey consumption, value added products of whey, and whey pollution to environment	<i>P1- AYDIN/TR the lead organization</i> is in charge with the realization of the project plan and general management of the project.  <b>Partners tasks:</b> A scientific report on whey Provide management and financial information for the lead partner Provide and keep track record of contractual documents. Provide financial reporting. Conduct own banking activities	01-09-14/ 01-12-14
<b>Tasks</b>	<b>Responsible</b>	<b>Deadline</b>		
<b>General management of the project-<i>Whey Project plan</i></b>	AYDIN DKKYB	01-02-15		
<b>Providing financial and content report templates to partners</b>	AYDIN DKKYB	01-02-15		
<b>Financial and content reporting</b>	All partners	31-08-16		
<b>Communication and guidance</b>	AYDIN DKKYB All partners	31-08-16		
<b>Project meetings and online meetings</b>	AYDIN DKKYB All partners	31-08-16		
<b>Backups of databases and products</b>	AYDIN DKKYB	01-12-14		
<b><i>Whey Project Research(s)</i></b>	All partners	01-02-15		

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**Table 4. Development of the project output Q2- Whey Management Reference Materials and Best Practice Exchange and Why Whey Quality Assurance**

<i>Code</i>	<i>Name of activities</i>	<i>Activities description</i>	<i>Tasks and role of each organization</i>	<i>Start /End date</i>
Q2A1	Whey Quality Assurance Report	Standards of quality and indicators confirmed by the entire consortium -Preparation of whey management situation for each partner. Report on quality assessment and internal evaluation Monitoring the external expert, and ensuring that they provide reports on products whenever required according to set templates.	P3- BAÜ/TR the lead organization is charge of - delegating a quality committee, Produce a quality plan which will be the guide for the partner's behavior throughout the project. monitoring the external expert, produce the products of this WP on time and in good quality. Partners tasks: Implement quality plan, provide data required for the quality report. delegating a person to take part from the quality committee participation on quality committee via Skype.	01-01-15/ 01-04-15  -04-15
<i>Tasks</i>	<i>Responsible</i>	<i>Deadline</i>		
Monitoring sustainability	BAÜ	01-04-15		
Quality reports	BAÜ/ All partners	01-04-15		
Product evaluations	BAÜ/ All partners	01-04-15		
Quality expert	Aydın DKKYB	01-08-16		
Quality plan	BAÜ	15-02-15		
Monitoring sustainabil.	BAÜ	01-04-15		
Quality reports	BAÜ/ All partners	01-04-15		
Monitoring sustainability	BAÜ	01-04-15		
Quality reports	BAÜ/ All partners	01-04-15		
Product evaluations	BAÜ/ All partners	01-04-15		
Quality expert	AYDIN DKKYB	01-08-16		

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**Table 5- Development of the project output Q3- Whey workshop(s)- Compendium of Competences**

Code	Name of activities	Activities description	Tasks and role of each organization	Start /End date
Q3A1	<i>Whey workshop(s)- Compendium of Competences whey"project activities-</i>	Create awareness about the possibilities offered by the reuse of whey in TR and Europe. Develop a vocational training pathway consisting in adapting, testing, disseminating of transferable teaching materials for new skills/jobs for target groups Invest in education and training for human resources aiming at increasing the entrepreneurship and in the stakeholders as agricultural, food and environmental engineers, veterinarians, medical technicians, businessmen and entrepreneurs	<i>Aydın/TR the lead organization</i> is charge of coordinating whey project activities.  <b>Partners tasks:</b> All partners will have perform to <ul style="list-style-type: none"> <li>• 1st level for a basic self-evaluation on dairy sector;</li> <li>• 2nd level for a training from a library of case studies;</li> <li>• 3rd level for whey manufacturers with skills on dairy sectors planning and managing, to inform about the selected cheese, whey and value added product. to stakeholders.</li> </ul>	10-04-15/ 10-08-15
Tasks				
Organize workshops to create awareness about the reuse of whey in TR and Europe.	AYDIN DKKYB /All partners	20-04-15		
1st level for a basic self-evaluation on dairy sector;	AYDIN DKKYB All partners	10-05-15		
2nd level for a training from a library of case studies	AYDIN DKKYB All partners	01-06-15		
3rd level for whey	AYDIN DKKYB All partners	20-06-15		

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manufacturers with skills on dairy sectors planning and managing				
Develop a vocational training pathway consisting in adapting, testing, disseminating of transferable teaching materials for new skills/jobs on dairy-food and feed sector for target groups.	Aydın DKKYB	10-08-15		

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**Table 6- Development of the project output Q4- Handbook Finalizations- Whey management training need analysis**

Code	Name of activities	Activities description	Tasks and role of each organization	Start /End date
Q4A1	Handbook Finalizations- Whey management training need analysis whey book advisory meeting and EQF Training Needs Analysis	Organize a meeting for whey processing and application industries to meet with scientists, academics and researchers to exchange knowledge environment. To adapt and test contents, involved competences and teaching materials in whey management, To analyse all the possible frameworks and environments and transfer of the teaching materials on whey management. Produce the products of this WP on time and in good quality.	<i>P2- ÇOMÜ/TR the lead organization</i> is charge of preparing whey book advisory meeting and EQF Training Needs Analysis Partners tasks: After this meeting all information will be shared with partners and <i>manual chapters</i> will be determined at the second meeting. All partners will be responsible for the under the light of aims below, a) to make affordable at local level in EU the integration of competences, from the technical to the policy making level, for preservation natural resources and sustainable use of the territory and to create an effective VET application system on protection of nature. b) to enlarge competences and awareness on food-feed and health care sectors in different EU countries. c) to conceive effective dissemination tools	20-10-15/ 01-02-16
Q4A1	<i>Handbook Finalizations- Whey management training need analysis whey book</i>	Organize a meeting for whey processing and application industries to meet with scientists, academics and researchers To adapt and test contents,	<i>P2- ÇOMÜ/TR the lead organization</i> is charge of preparing whey book advisory meeting and EQF Training Needs Analysis	01-02-15/ 15-10-15

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	advisory meeting and EQF Training Needs Analysis	involved competences and teaching materials in whey management, To analyse all the possible frameworks and environments of adaptation and transfer of the teaching materials, Produce the products of this WP on time and in good quality.	Partners tasks: After this meeting all information will be shared with partners and <i>manual chapters</i> will be determined at the second meeting. All partners will be responsible for the under the light of aims below, a) to make affordable at local level in EU the integration of competences, from the technical to the policy making level, b) to enlarge competences and awareness on food-feed and health care sectors in different EU countries. c) to conceive effective dissemination tools to make the WHEY - VET System suitable and transferable at European level.	
<b>Tasks</b>	<b>Responsible</b>	<b>Deadline</b>		
Project meeting* with scientists, academics and researchers to exchange knowledge and new ideas in a stimulating environment for all subjects of whey processing and utilization, partner countries.	ÇOMÜ/ All partners	15-02-15		
Propose the innovative need analysis for whey management at European, national and regional level based on the EQF Levels	ÇOMÜ/BAÜ/ Cia Umbria	15-11-15		

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Adapt and test contents, involved competences and teaching materials in whey management, with a specific focus on regions and countries at good whey processing	ÇOMÜ/ All partners	15-12-15		
Analyze all the possible frameworks and environments of adaptation and transfer of the teaching materials on whey management	ÇOMÜ	01-02-16		
Project meeting* with scientists, academics and researchers to exchange knowledge and new ideas in a stimulating environment for all subjects of whey processing and utilization, partner countries.	ÇOMÜ/ All partners	15-02-15		
Propose the innovative need analysis for whey management at European, national and regional level based on the EQF Levels	ÇOMÜ/BAÜ/ Cia Umbria	15-03-15		
Adapt and test contents, involved competences and teaching materials in whey management, with a specific focus on regions and countries at good whey processing	ÇOMÜ/ All partners	15-04-15		
Analyze all the possible frameworks and environments of adaptation and transfer of the teaching materials on whey management	ÇOMÜ	01-05-15		

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Cconceive effective dissemination tools to make the WHEY - VET System suitable and transferable at European level.	All partners	15-10-15		
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**Table 7- Development of the project output Q5- Why Whey Training Handbook**

<i>Code</i>	<i>Name of activities</i>	<i>Activities description</i>	<i>Tasks and role of each organization</i>	<i>Start /End date</i>
Q5A1	“Whey” Training Handbook – “Whey” Products promotion days to stakeholders	This is a a booklet containing contemporary, innovative and the latest scientific applications for whey. Information which is practical and effective for the purpose of structuring and reinforcing entrepreneurship within the dairy - farm sector. “Whey” handbook will be given a pleasant and easy to use format which is modular and allows for easy modification and adaptation After the completion of the Training Book, promotion and information sharing days will be held in target sectors	P2- ÇOMÜ/TR the lead organization is charge of organisation of “Whey” Training Handbook” preparation. Partners tasks: All partners will have efforts to “Whey” Project, Handbook and other project products presentation and whey information days to stakeholders.	20-10-15/ 10-02-16
Tasks	Responsible	Deadline		
Design of Whey training handbook”	ÇOMÜ/ BAÜ/Aydın DKKYB	15-06-15		
Preparation of Whey training handbook”	All partners	15-10-16		
“Whey” Products promotion days to stakeholders	ÇOMÜ/ All partners	01-02-15		

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**Table 8- Development of the project output Q6- Online “Why Whey” tool development**

<i>Code</i>	<i>Name of activities</i>	<i>Activities description</i>	<i>Tasks and role of each organization</i>	<i>Start /End date</i>
Q6A1	<i>“Online“ Whey” tool development Naturaliter Products to “whey”</i>	Transfer to innovative and entrepreneurial side of the NATURALITER projects. Updating, adapting, transferring those teaching materials, a bridging experiences and best practices between the European countries and Turkey, with its specificities.	<i>P8- Cia Umbria/ the lead organization</i> is charge of whey tool development <b>Partners tasks:</b> TR will blend all these materials and will be adapted to the “whey learning-teaching materials and e-learning portal to other partners and EU.	15-02-16/ 15-05-16
<i>Tasks</i>	<i>Responsible</i>	<i>Deadline</i>		
Transfer to innovative and entrepreneurial side of the NATURALITER project	<b>Cia Umbria</b>	<b>15-03-16</b>		
Create the necessary legal infrastructure NATURALITER project' innovative entrepreneurs outcomes for the transfer TR,, HU and PL.	Cia Umbria	15-04-16		
“Blend all these materials and adapt to the “whey learning-teaching materials and e-learning portal to other partners and EU.	Cia Umbria/ TR Partners	15-05-16		

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**Table 9- Development of the project output Q7- E-learning platform**

<i>Code</i>	<i>Name of activities</i>	<i>Activities description</i>	<i>Tasks and role of each organization</i>	<i>Start /End date</i>
<b>Tasks</b>	<b>Responsible</b>	<b>Deadline</b>		
Q7A1	<i>E-learning platform Learning Infrastructure for efficient working, learning and teaching” why” project portal Updating the platform and website</i>	This platform will serve as a host to all innovative and entrepreneurs products and materials, including the Training Handbook, for easy access of the trainees and for future training. The platform will also facilitate communication, transfer of training tools and materials and exchange of experiences in training throughout the entire project. Better e-assessment systems, long-term and secure data management, a multi-functional personal learning and working environment:	<i>P1- Aydın/ the lead organization</i> is charge of creation the e-learning platform. <b>Partners tasks:</b> -All partners will start to use project e-learning website with stakeholders. -They will be responsible for the creation of web pages. - The project website will be active for at least seven years and COMU, BAU and Aydın DKKYB will be responsible for updating.	20-05-16/ 20-08-16
<i>E-learning platform</i>	<i>Aydın DKKYB</i>	<i>01-06-16</i>		
<i>Learning Infrastructure for efficient working, learning and teaching” why” project portal</i>	<i>Aydın DKKYB</i>	<i>15-07-16</i>		
<i>Updating the platform and website</i>	<i>Aydın/DKKY B ÇOMÜ</i>	<i>20-08-16</i>		

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**Table 10- Development of the project output Q8- Final Project Meeting**

<i>Code</i>	<i>Name of activities</i>	<i>Activities description</i>	<i>Tasks and role of each organization</i>	<i>Start /End date</i>
Q81A	<i>Final Project meeting whey final conference in Turkey</i>	<p>Final project meeting to take place for the purpose of monitoring, reporting and establishing future course of action.</p> <p>This meeting will include the attendance of 2 young entrepreneurs from each country who were involved in the project for the purpose of evaluating the project and providing a relevant review of all activities.</p> <p>Mmonitoring, reporting and establishing future course of action.</p> <p>After this point the project products will start to actively use and dissemination activities will be accelerated.</p>	<p><b>P1- Aydın/ the lead organization</b> is charge of final project meeting and conference in Turkey.</p> <p><b>Partners tasks:</b> COMU, Aydın and BAU will held final conference and all partners will be participated to the final conference.</p> <p>-Aydın DKKYB will inform to all stakeholder to participate the final conference.</p>	20-08-16/ 21-08-16
<b>Tasks</b>	<b>Responsible</b>	<b>Deadline</b>		
<i>Final Project meeting</i>	Aydın/ DKKYB /COMÜ/BAÜ	<b>20-08-16</b>		
<i>“whey” final conference in Turkey</i>	Aydın/DKKYB COMÜ/BAÜ	21-08-16		
<i>Final Project meeting</i>	Aydın DKKYB /COMÜ/BAÜ	<b>20-08-16</b>		

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**Table 11- Multipler Events E1- workshops and national/international conferences.**

<i>Code</i>	<i>Name of activities</i>	<i>Event description</i>	<i>Tasks and role of each organization</i>	<i>Start /End date</i>
E8B1	<i>Workshops and national/international conferences. WHEY workshops and national conferences</i>	The event will be hold in Aydın, organized by the Aydın in collaboration with all the partners and representatives from all stakeholders and journalists. The WHEY workshops will be hold at national level by each partner to get feedback on the project outputs. The results will be used to implement the WHEY Training Platform that will be presented and discussed at the international event in Aydın-TURKEY	<i>P1- Aydın/ the lead organization is charge of final project meeting and conference in Turkey. Partners tasks: The Aydın in charge of the organization Each partner will participate also involving experts and policy makers. Each partner will also organize WHEY workshops and national conferences</i>	22-08-16/  23-08-16
<i>Tasks</i>	<i>Responsible</i>	<i>Deadline</i>		
<i>workshops and national/international conference</i>	<b>Aydın DKKYB /COMÜ/BAÜ</b>	<b>22/23-08-16</b>	<i>workshops and national/international conference</i>	22/23-08-16
<i>Picking up 30 stakeholders from Aydın, 25 stakeholders from çanakkale and 25 stakeholders from Balikesir</i>	<i>Aydın DKKYB /COMÜ/BAÜ</i>	22/23-08-16	<i>Picking up 30 stakeholders from Aydın, 25 stakeholders from çanakkale and 25 stakeholders from Balikesir</i>	22/23-08-16
<i>-WHEY workshops and national conferences</i>	All partners	August 2016	<i>-WHEY workshops and national conferences</i>	August 2016

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## **Stakeholder Analysis**

The identification of the relevant whey stakeholders is important to ensure that these groups are represented at your meetings: Stakeholders can be grouped into:

**Primary** – those who benefit directly from the project – in this case Dairy-waste management sector: - Companies,- Universities, - Public Authorities, - Stakeholders: Public and private employees responsible for waste management procedures (TR), Agricultural, food and environmental engineers, veterinarians, medical technicians and businessmen. Involved parties (e.g. dairy-cheese sector employees, public environmental protection employees, NGO professionals, farmers) for the rational and sustainable waste management (IT). Higher education students and public officers in charge of water basin and civil protection (TR), Farmers and local authorities responsible for sustainable rural development (HU, PL).

**Secondary** – those who benefit indirectly from the project these might include teachers and trainers in vocational education on apiteraphy

**Tertiary** – those who have an interest in the project being a success but do not directly benefit from the project outcomes. These would include, apiteraphy advisors, bee-products processing sector, food engineers, consumers, etc. These groups should be represented at each of the consultation meetings.

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## **Running a consultation meeting**

It is important that you gain the support of the stakeholders for what has already been done in the work on apitherapy and asking for support by way of changes. You also will need to get enough material to take away so that we know what to do next. It is ideal to have the local person who is helping organise the meetings to introduce the project – including concept, objectives, and duration, set up, and for you, the person who will run the meeting, to communicate a vision that all the stakeholders can be supportive of.

For instance: In two years’ time this project will have developed an interactive data base, courses and a state of the art handbook on whey that will allow different groups of people to gain information on in dairy-waste managements, whey processing, key studies, processing technologies, innovative applications, waste recycling can access courses and information online to help them with existing and future management, new methods on dairy-waste managements, whey processing. Also trainers and teachers in sector will be able to use the handbook to find specific information. For this to be a success we need your support, your opinions and your views so that it is relevant to this country. That is why we are here’.

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## **Online, paper or email based questionnaire**

It is suggested that some online system is used for example ‘Survey Monkey’ or some other that the partners may be familiar with. These tools make it very easy to get feedback and to collate information.

Below is list of questions that could also form the basis of an questionnaire.

The partners in WHY WHEY project, organising consultation meetings, will have to consider and make a choice between the following options:

1. translate the form, have it printed and allow participants in the meeting some time to fill out the form or use it as work form to structure the discussion and outcome as described above
2. the document could be converted in a questionnaire to be put on the WHY WHEY website or on another survey platform
3. The questionnaire [translated] could be send by e-mail to various stakeholders in the partner countries and be send back in order to get a higher number and variety of responses.

Suggested questions to put to participants in the second part of the consultation meeting appear on the next page.

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