

**Horizon 2020 Capacity Building/Mediterranean Environment Programme  
“Best Practices and Cleaner Technologies for Agriculture and Food Sectors”**

**EVALUATION –**

**Albania, June 30<sup>th</sup> –July 1<sup>st</sup> 2011**

**Background**

The training course introduced “Best Practices and Cleaner Technologies for the Agriculture and Food Sectors”, with a focus on olive oil production and poultry farming, considered as relevant sectors in terms of environmental impacts in Albania.

This activity was particularly designed for Professionals in the agricultural sector, Representatives of Ministries and local authorities, Members of business organizations and Entrepreneurs with the aim of building capacity at national level for the implementation of the Horizon 2020 objectives.



The 2-day seminar addressed the best environmental practices and cleaner technologies with a focus on the minimization of environmental impacts in the olive oil and poultry farming sectors. This included an overview of environmental impact of agro-food production, the Best Available Techniques and practices for olive oil production, the technical, economic and environmental aspects of 2 and 3 phase technologies for olive oil production; the organic agriculture principles, sustainable production practices in poultry farming and organic poultry production.

The course was organized by the UNEP/MAP Regional Activity Centre for Cleaner Production (CP/RAC).

The seminar was held in Tirana, on June 30<sup>th</sup> -July 1<sup>st</sup> 2011. The language of the course was English with interpretation into national language. 20 participants, all Albanians, attended the seminar.

The programme of the seminar is given in Annex1, while the complete list of participants is given in AnnexII.

**The Progress of Seminar**

**i- Opening words and introduction of course programme :**

The opening speech was given by Dr. Emad Adly, Deputy Team Leader of H2020 CB / MEP Project, who welcomed the participants and thanked CP/RAC for the organization of this seminar. He also stressed the importance of this seminar as well as efforts to modernize the sector in the production of olive oil and poultry farming. He then presented the context of the Horizon 2020 and its main components and corresponding projects including the CB-/MEP, its objectives, political justification, the consortium as well as the overall program of activities for capacity building and environmental mainstreaming activities.



Magali Outters, project manager in CP/RAC presented the mission of the Centre and its Sustainable consumption and Production Approach. Then, she focused on the Green Entrepreneurship initiative, especially relevant for the agro-food sector and activities linked with the Stockholm Convention on Persistent Organic Pollutants, as agriculture contributes significantly to the release of dangerous pollutants in the environment.

Dr. Mohammed EZZINE, CP/RAC-H2020 Thematic Expert presented the objectives and the agenda he has to moderate.

From the point of view of organization, the logistics was successfully coordinated by Mr. Dimitris. BOGIATZIS (MIO\_ECSD)..



## ii- Learning process

The seminar has been conducted in a very friendly, pleasant and positive atmosphere, characterized by lively discussions and active participation. Moderation plan and content of the program are generally being met although delays have been noted in certain specific sessions.



Mrs Marieta Mima, Executive Director of Albanian Environmental Center for Administration and Technology Program (ECAT-Tirana) presented, in session 3, the various activities carried out under the Albanian National Program for Cleaner Production (NPCP) such as the national experts network who deliver resource efficient and cleaner production(RECP)assessment, services industry demonstrations developing a collection of success stories on implementation of RECP concepts, methods and techniques, and mechanisms for mainstreaming RECP concepts and policy instruments in relevant Albanian, policies and strategies.

The fourth session was dedicated to olive production techniques. The national experience, presented by Dr. Donika Prifti shows a majority use of three-phase centrifugation system which is very pollutant due to high volume of generated waste water (1.2-1.3 litres /kg of processed olives) and only two factories apply the two-phase centrifugation system. Some factories are still using traditional processor technologies based on separation by pressure while the separation of olive oil is accomplished by decantation.



After the presentation on the Albanian state of the art for olive oil production, the training was devoted to international experience for pollution prevention and waste management in this sector. Mr. Joan Tacias, Director of Agritem SL., showed that the experience of Spain was especially relevant as it is the main producer of olive oil, and they have made significant progress to manage environmental impacts and by-products of their olive oil production.



The afternoon of the first day started by introduction to organic farming principles presented by Mr. Victor Gonzalez, Director of Sociedad Española de Agricultura Ecológica (SEAE). He reminded the organic agriculture principles which are Health, ecology, fairness and care; as their contribution to a valuable framework for a future sustainable agricultural production. He then, stressed the importance of organic farming methods and innovative technologies before providing some main reasons that should help us to adopt this attitude and protect future generation.. Several cases of good practices, , recycling processes & waste use were presented and discussed. In the last session, Mr. Victor Gonzalez focused on the organic oliviculture

and main innovative technologies in Greece, Italy, Malta and Spain (Biolmed Project) before leading and conducting a dynamic and constructive exercise on the advantages and disadvantages of most well known agriculture technology

Generally, all discussions that followed the sessions showed a great interest of this sector at the national and regional level. Experts recommended the creation of a national network to put in place a pilot project on “best available technologies, strategies for oil extraction and by-products and waste management”.

The second half day was devoted to understand the environmental impact of poultry production and how to reduce them. Mr. Paul Robin, Member of French National Institute for Agricultural Research, Rennes(INRA) introduced the poultry rearing, some examples of the best management practices (BMP) particularly in French poultry production,. The management of food, water, energy, manure and greenhouse gases have all been widely discussed. Several economic environmental and social issues were also discussed.



### iii- Visit on site

According to the program of the seminar, visit the organic farm and recently installed restaurant was conducted in the afternoon. The project was presented by the Manager before visiting the gardens, place of livestock (poultry, rabbits and pigs) and the small cooperative producing olive oil and wine which provides the only restaurant. The objective of the project is to encourage local consumption and help to promote all organic and local products (meat, vegetables, olives, wine, ...). All participants appreciated the program of the visit which was considered as a success and several discussions were exchanged between the Director and experts on poultry production. Experts appreciated the originality of the project and recommended:

- \* The use of movable partitions inside the poultry houses for a better optimization of the floor available space.
- \* The use of dry grass (hay, leaves, etc.) on the floor of the poultry houses, which will be used to collect the droppings and turn it into manure that can be used in the garden.



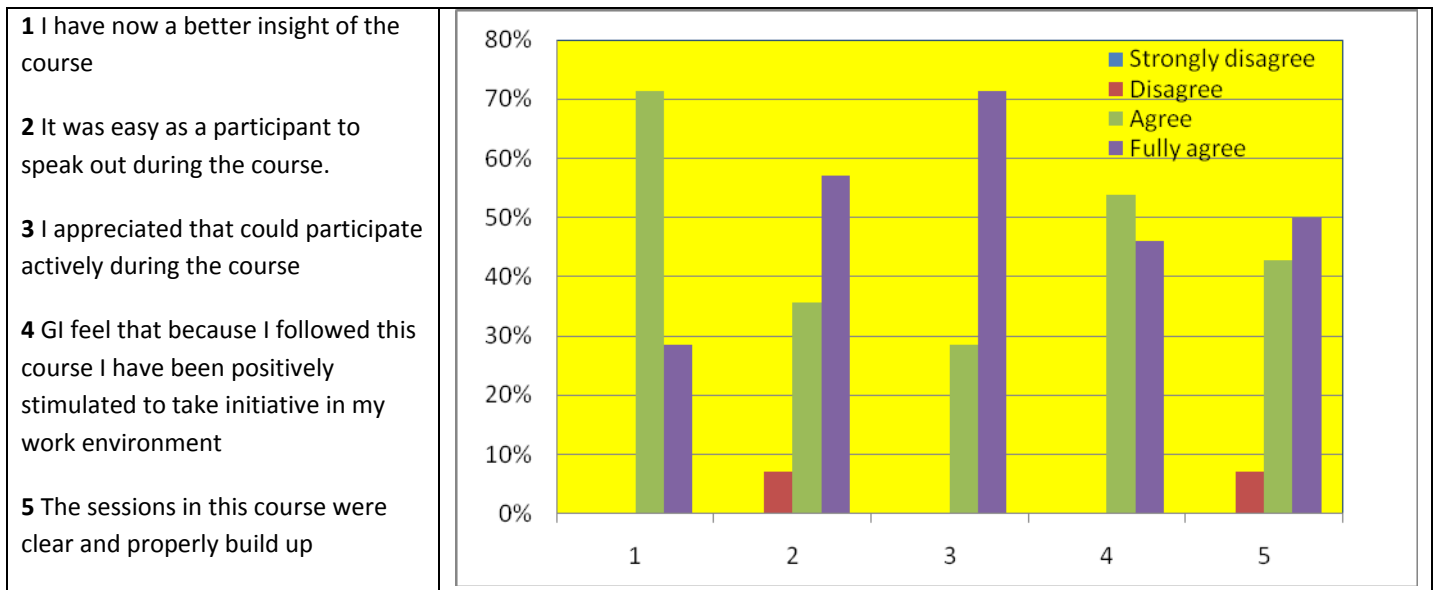


### Final evaluation of the seminar

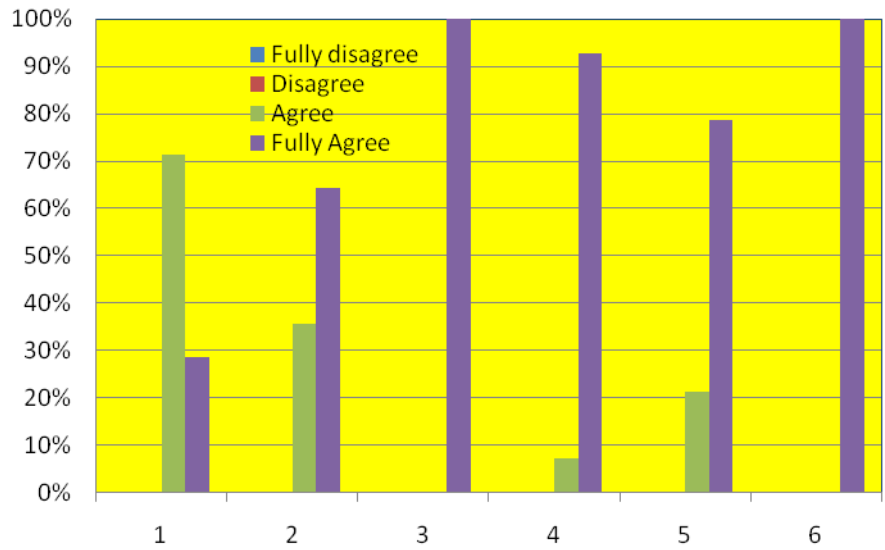
The analysis of the evaluation is reported in the **two figures below**. The results show an overall satisfaction on all points raised in the questionnaire. However, some participants mentioned their specific interest to the Best Available Technologies in olive oil production or those of poultry production according to their business. The clarity of the sessions, the active participation of everyone and the positive atmosphere that prevailed during the seminar contributed to the success of this mission. Only 14 among 20 participants filled out the questionnaires. The site visit which was at 60 km from of the venue of the training may deter some participants who could not complete the questionnaire at the end of the day.

Participants generally agreed with the positive impact on the program that has fully complied with the content already proposed. Some of them want a deeper knowledge on organic farming and management of olives oil by-products and poultry production waste. It should also be noted that some participants would have liked more practical sessions for a better understanding.

Overall, we can say that the seminar was very interesting and participants were able to understand the environmental impacts of agro-food production, the organic agriculture principles and the best management practices in olives oil production and poultry farming. Despite this success, it should be noted that we had encountered difficulties in getting help from the country to prepare the training and selection of participants. We also consider the number of participants was insufficient for the effort and resources deployed. Finally, we would have liked more interactivity in some sessions.



- 1 The used work forms were sufficiently adapted to the theme of the course
- 2 The course were coached in an exciting and vibrant way.
- 3 The atmosphere between participants was amicable/friendly
- 4 The location was most suitable for this program
- 5 The infrastructure (space, materials) was optimal for this program
- 6 The translation was satisfactory



### FOR MORE INFORMATION

**REGIONAL ACTIVITY CENTRE FOR CLEANER PRODUCTION  
UNITED NATIONS ENVIRONMENT PROGRAMME -  
MEDITERRANEAN ACTION PLAN**

C/ Milanesat 25-27, 5th floor, 08017 Barcelona - Spain

Tel. +34 93 5538790 Fax +34 93 553 87 95

[www.cprac.org](http://www.cprac.org)

[www.h2020.net](http://www.h2020.net)

**E-mail:**

Magali Outters: [moutters.h2020@cprac.org](mailto:moutters.h2020@cprac.org)

Mohammed Ezzine: [mezzine.h2020@cprac.org](mailto:mezzine.h2020@cprac.org)

**MEDITERRANEAN INFORMATION OFFICE FOR  
ENVIRONMENT, CULTURE AND SUSTAINABLE  
DEVELOPMENT (MIO-ECSDE)**

[Kyristou str. 105 56, Athens, Greece](http://Kyristou str. 105 56, Athens, Greece)

[Tel: +30210-3247490, -3247267](tel:+30210-3247490)

[Fax: +30210-3317127](tel:+30210-3317127)

[www.mio-ecsde.org](http://www.mio-ecsde.org)

**E-mail:**

[info@mio-ecsde.org](mailto:info@mio-ecsde.org)

## Annexe 1

Day/Session	Topic	Description	Trainer	Method
<b>Day 1: 30 June</b>				
Session 1	9:00 – 10:00	Official opening	<p><b>Dr. Emad Adly</b>, Deputy Team Leader of H2020 CB/MEP,</p> <p><b>Dr. Mohammed Ezzine</b> CP/RAC-H2020 Thematic Expert.</p> <p><b>Ms. Magali Outters</b> UNEP/MAP CP/RAC</p>	
Session 2	10:00-10:30	Cleaner Production for the Agri-Food Sector	<p>-Green competitiveness for Mediterranean SMEs</p> <p>- Stockholm Convention and POPs Management</p> <p><b>Ms. Magali Outters</b> UNEP/MAP CP/RAC</p>	Presentation
Session 3	10:30-11:00	Supporting Programs	<p>The National Cleaner Production Programme (NCP)</p> <p><b>Ms Marieta Mima</b> Albanian Environmental Center for Administration and Technology Program (ECAT-Tirana)</p>	Presentation
	11:00-11:15	Coffee break		
Session 4	11:15-11:45	Olive oil production in Albania	<p>Albanese Experience in environmental management for the Olive Oil sector</p> <p><b>Prof.Dr.Donika PRIFTI</b> University of Natural Sciences - Tirana</p>	Presentation
	11:45-13:15	Best Available Techniques for olive oil production	<p>- Environmental impacts throughout the production cycle of olive oil</p> <p>- Comparison of best technologies of extraction – 2 phases and 3 phases technologies-</p> <p>- Technical Economic Comparison of different technologies</p> <p>- Recommendations for technology best choice</p> <p><b>M. Joan Tasia</b> Director of “Agritem SL” (consulting and technical assistance for the olive oil sector )» Spain</p>	Presentation
Session 5	13:15-13:30	Questions/Answers		
	13:30-14:30	Lunch break		
Session 6	14:30-15:30	Organic Agriculture	<p>- An introduction to organic farming principles, current situation, relevance of the sector and benefits to society, innovative technologies, recycling processes and waste use</p> <p><b>Mr. Victor Gonzalez</b> Director Sociedad Española de Agricultura Ecológica (SEAE)</p>	Presentation
	15:30-15:45	Coffee break		

Session 7	15:45-16:45	Organic olive cultivation	- Organic olive cultivation: Current situation and main innovative technologies, Biolmed Project in Greece, Italy, Malta and Spain	<b>Mr. Victor Gonzalvez</b>	Case Study exercise
<b>Day 2: 1<sup>st</sup> of July</b>					
Session 1	9:30-10:45	The context of reducing environmental impact of poultry production	- Increase of meat production and decrease of recycling efficiency - Diversity of poultry production systems - Environmental impact of contrasted poultry production system - Other requirements of poultry production - The challenges of BMP	<b>M. Paul Robin</b> INRA Rennes (French National Institute for Agricultural Research)	Presentation
Session 3	10:45-11:00	Questions/Answers			
	11:00-11:30	Coffee break			
Session 4	11:30-12:30	Some examples of "best available techniques" in French poultry production	- Feed management - Water management - Manure management - Gas emissions - Energy management	<b>M. Paul Robin</b> INRA Rennes (French National Institute for Agricultural Research)	Case Study
Session 5	12:30-12:45	Questions/Answers			
	12:45-14:00	Lunch break			
Session 6	14:00 - 16:00	Excursion	Fishte Lezhe village	All	Site visit
Session 7	16:00-16:30	Closing	Closing Remarks and Certificates Awards		

## Annexe 2

### List of participants

		Name	SURNAME	Position/Affiliation	City	Email
1.	Ms.	Arjana	Sinojmeri	Ministry of Environment, Forests and Water Administration, Expert for agriculture	Tirana	<a href="mailto:asinoimeri@moe.gov.al">asinoimeri@moe.gov.al</a>
2.	Ms.	Arjana	Ylli	University of Tirana, Biotechnology Department, Assistant Professor	Tirana	<a href="mailto:ariana_ylli@yahoo.co.uk">ariana_ylli@yahoo.co.uk</a>
3.	Ms.	Veizi	Aulona	ATTC Vlore (Center of Agricultural Technology Transfer), Olive Oil Specialist	Vlore	<a href="mailto:aulona2003@hotmail.com">aulona2003@hotmail.com</a>
4.	Ms.	Enkeleda	Nikleka	Faculty of Biotechnology and Food, Tirana Agricultural University, Lecturer	Tirana	<a href="mailto:ledanikleka2002@yahoo.com">ledanikleka2002@yahoo.com</a>
5.	Mr.	Sotir	Mali	Faculty of Natural Sciences, "A.Xhuvani" University of Elbasan, Lecturer	Elbasan	<a href="mailto:sotirmali@hotmail.com">sotirmali@hotmail.com</a>
6.	Mr.	Shumka	Spase	Faculty of Biotechnology and Food, Tirana Agricultural University, Lecturer	Tirana	<a href="mailto:sprespa@gmail.com">sprespa@gmail.com</a>
7.	Mr.	Sabah	Sena	AAC/USAID, Association Development and Market Support Services Manager	Tirana	<a href="mailto:Sabahsena@yahoo.com">Sabahsena@yahoo.com</a>
8.	Ms.	Mehmetaj	Adelina	Heifer International Program, Resource Development/Fundraising	Tirana	<a href="mailto:adelina.mehmetaj@heifer.org">adelina.mehmetaj@heifer.org</a>
9.	Mr.	Myslim	Mino	Union of Farmers' Association, Executive Director	Tirana	<a href="mailto:Muslym.mino@gmail.com">Muslym.mino@gmail.com</a>
10.	Mr.	Gori	Stefi	Livestock specialist, Program Director Heifer International Albania	Tirana	<a href="mailto:gori.stefi@heifer.org">gori.stefi@heifer.org</a>
11.	Ms.	Mamaj	Jonida	EDEN Centre, Project Coordinator - Environmental Management Practices	Tirana	<a href="mailto:jonida.mamaj@eden-al.org">jonida.mamaj@eden-al.org</a>
12.	Mr.	Pepkolaj	Agim	Agriculture and Rural Development Agency Ministry of Agriculture, Food and Consumer	Tirana	<a href="mailto:agim.pepkolaj@azhbr.gov.al">agim.pepkolaj@azhbr.gov.al</a>



13.	Mr.	Luan	Ahmetaj	Albanian Association of Organic Agriculture	Tirana	<a href="mailto:albsprin@yahoo.com">albsprin@yahoo.com</a>
14.	Mr.	Ali	Coka	Ate stath Melani	Tirana	<a href="mailto:ali_coka@yahoo.com">ali_coka@yahoo.com</a>
15.	Mrs.	Lurjana	Lila	ECAT ,TIRANA , UNIVERSITY OF TIRANA – FACULTY OF NATURAL SCIENCES	Tirana	<a href="mailto:lurjana.lila@gmail.com">lurjana.lila@gmail.com</a>
16.	Mr.	Miran	Peci		Tirana	
17.	Ms.	Fabiana	Lakuriqi	FACULTY OF NATURAL SCIENCES –INSTITUTE FOR ENVIRONMENTAL POLICIES	Tirana	<a href="mailto:fabjanaa@hotmail.com">fabjanaa@hotmail.com</a>
18.	Ms.	Maniola	Kormaku	FACULTY OF NATURAL SCIENCES –INSTITUTE FOR ENVIRONMENTAL POLICIES	Tirana	<a href="mailto:ola_kormaku@hotmail.com">ola_kormaku@hotmail.com</a>
19.	Mr.	Vladimir	Bezljani			
20.	Mrs.	Kledia	Janoqi	MINISTRY OF ENVIRONMENT – TIRANA	Tirana	<a href="mailto:kjanoqi@moe.gov.al">kjanoqi@moe.gov.al</a>

### Trainers/Presenters/Officials List

		Name	SURNAME	Position/Affiliation	Email
1.	Dr.	Emad	Adly	Deputy Team Leader, H2020 CB/MEP	<a href="mailto:eadly@hotmail.com">eadly@hotmail.com</a>
2.	Prof.	Mohammed	Ezzine	CP/RAC, H2020 CB/MEP Expert	<a href="mailto:m_ezzine@menara.ma">m_ezzine@menara.ma</a>
3.	Mr.	Victor	Gonzalvez	Director, Sociedad Española de Agricultura Ecológica (SEAE)	<a href="mailto:vgonzalvez@agroecologia.net">vgonzalvez@agroecologia.net</a>
4.	Mr.	Juan	Tasias	Director of “Agritem SL” (consulting and technical assistance for the olive oil sector)» Spain	<a href="mailto:jtasias@agritem.com">jtasias@agritem.com</a>



5.	Mr.	Paul	Robin	INRA Rennes (French National Institute for Agricultural Research)	<a href="mailto:probin@rennes.inra.fr">probin@rennes.inra.fr</a>
6.	Mr.	Dimitris	Bogiatzis	Events Management, H2020 CB/MEP	<a href="mailto:bogiatzis@mio-ecsde.org">bogiatzis@mio-ecsde.org</a>
7.	Ms.	Magali	Outters	<a href="#">UNEP/MAP CP/RAC</a> , <a href="#">Project Manager</a>	<a href="mailto:moutters.h2020@cprac.org">moutters.h2020@cprac.org</a>



