



**REPUBLIC OF GREECE**

**Date: 31/01/2020**

**MUNICIPALITY OF NESTOS**

**Nr : 1215**

**Premetis - Chrisoupoli**

**Kavala-64 200**

**Tel.: 2591350184**

**Fax.: 2591350187**

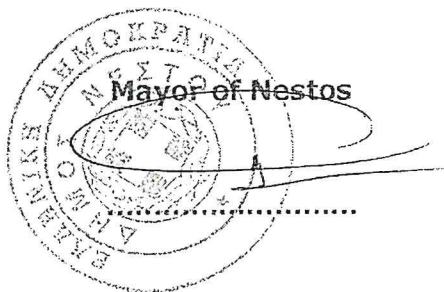
**e-mail: isminikarageorgi@gmail.com**

**To:**

- 1. Municipality of Serres**
- 2. Aristotle University of Thessaloniki - Special Account for Research Funds - Department of Chemistry**
- 3. Municipality of Blagoevgrad**

**Subject: 3<sup>rd</sup> Project Meeting of "Green Crew"**

We would like to invite you to the 3<sup>rd</sup> Meeting of the Green Crew Project that will be held in Nestos on 7<sup>th</sup> February 2020, at the premises of the Municipality of Nestos. Please find attached the draft agenda of the meeting



**Attachment : Draft Agenda of the 3<sup>rd</sup> Project Meeting**



**INTERREG V-A COOPERATION PROGRAMME  
GREECE - BULGARIA 2014-2020**

**GREEN CREW  
«GREEN EMPLOYMENT IN THE MANAGEMENT OF  
BIOWASTES»**

**3<sup>rd</sup> PROJECT MEETING  
7<sup>th</sup> FEBRUARY 2020**

**Starts at (10:00) and finishes at (14:00)**

**Venue : At the premises of the Municipality of  
Nestos , Greece**

The Project is implemented in the framework of INTERREG V-A "Greece- Bulgaria 2014-2020 Cooperation Programme and is co-funded by the European Regional Development Fund (ERDF) and by national funds of the countries participating in the Programme.



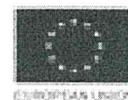
## AGENDA

| <b>3<sup>rd</sup> PROJECT MEETING</b><br><b>February 7th, 2020</b><br><b>Venue: At the premises of the Municipality of Nestos</b><br><b>Scope: Progress on Final Deliverables</b> |   |   |
|---|---|---|
| <b>Time</b>   | <b>Description</b>  | <b>Speaker/Project Partner</b>                        |
| 10:00   | Registration of Partners  | Municipality of Nestos<br>+ All Project Beneficiaries |
| 10:10 - 10:20   | Welcome and greetings / opening speech  | Mayor of Nestos + All Partners +<br>Joint Secretariat |
| 10:20 - 10:40   | State of the art of the project -Implementation progress<br>on behalf of PB1- Final action points   | Municipality of Serres (LB)                           |
| 10:40 - 11:00   | Implementation progress on behalf of PB2 -Final action<br>points  | Aristotle University of<br>Thessaloniki (PB2)         |
| 11:00 - 11:20   | Implementation progress on behalf of PB3-Final action<br>points   | Municipality of Nestos (PB3)                          |
| 11:20 - 11:40   | Implementation progress on behalf of PB4-Final action<br>points   | Municipality of Blagoevgrad (PB4)                     |
| 11:40 - 12:30   | <b>Coffee break</b>   |   |
| 12:30 - 13:30   | Open discussion concerning: <ul style="list-style-type: none"> <li>• Report for the progress of the whole composting process pointing out the completed actions so far by PB1 and PB3</li> <li>• next steps for the immediate completion of the remaining deliverables</li> <li>• keeping deadlines -implementation of the project on time</li> </ul> | All partners + Joint Secretariat                      |
| 13:30-14:00   | Closing remarks-Discussion  | All partners + Joint Secretariat                      |



# Interreg Greece-Bulgaria

Ευρωπαϊκό Προγραμμα Συνεργασίας



## ΔΕΛΤΙΟ ΤΥΠΟΥ

### **3<sup>η</sup> Τεχνική συνάντηση της πράξης "GREEN CREW", στο πλαίσιο υλοποίησης του Προγράμματος Συνεργασίας INTERREG V-A ΕΛΛΑΔΑ-ΒΟΥΛΓΑΡΙΑ 2014-2020**

Στις 7 Φεβρουαρίου 2020 πραγματοποιήθηκε στον Δήμο Νέστου, η 3<sup>η</sup> Τεχνική Συνάντηση των εταίρων στο πλαίσιο υλοποίησης του έργου "Πράσινες θέσεις εργασίας στη διαχείριση βιοαποβλήτων - Green Crew", το οποίο υλοποιείται στο πλαίσιο του Προγράμματος Συνεργασίας INTERREG V-A ΕΛΛΑΔΑ-ΒΟΥΛΓΑΡΙΑ 2014-2020 " και συγχρηματοδοτείται από το Ευρωπαϊκό Ταμείο Περιφερειακής Ανάπτυξης(ΕΤΠΑ) και εθνικούς πόρους των χωρών που συμμετέχουν στο Πρόγραμμα.

Στη συνάντηση συμμετείχαν ο Αντιδήμαρχος Καθαριότητας κ.Παναγιώτης Καρακολίδης, ο Διευθυντής Καθαριότητας κ. Πέτρος Δασκαλόπουλος , στελέχη του Δήμου Σερρών από το Τμήμα Περιβάλλοντος και Τμήμα Προγραμματισμού, εκπρόσωποι των εταίρων της πράξης όπως ο Καθηγητής του ΑΠΘ κ. Τριανταφυλλίδης Κωνσταντίνος καθώς και εκπρόσωποι από τον Δήμο Blagoevgrad. Τονίζεται δε ότι στη συνάντηση συμμετείχε και η εκπρόσωπος της Κοινής Γραμματείας του Προγράμματος κα Αιμιλία Ντόντσεβα-Τζιβανοπούλου.

Κατόπιν καλωσορίσματος και χαιρετισμού εκπροσώπων του Δήμου Νέστου, ακολούθησε παρουσίαση της προόδου των πακέτων εργασίας από τους εταίρους, με ιδιαίτερη αναφορά στα παραδοτέα που περιλαμβάνουν την υλοποίηση μίας μικρής κλίμακας πιλοτικής ανοιχτής μονάδας κομποστοποίησης βιοαποβλήτων (σειράδι) για τον Δήμο Σερρών και μίας πιλοτικής ανοιχτής μονάδας κομποστοποίησης για τον Δήμο Νέστου. Συγκεκριμένα, αναλύθηκαν τα στάδια εργασιών που έχουν ολοκληρωθεί καθώς και οι βασικές λειτουργίες της κομποστοποίησης με στόχο την επεξεργασία του οργανικού κλάσματος, την παραγωγή και αξιοποίηση του τελικού κομποστ ως εδαφοβελτιωτικό σε χώρους πρασίνου.

Στο πλαίσιο υλοποίησης του παραπάνω παραδοτέου, θα πραγματοποιηθεί στο εγγύς μέλλον εκδήλωση επίδειξης της μικρής κλίμακας πιλοτικής ανοιχτής μονάδας κομποστοποίησης καθώς και ενημέρωση των πολιτών για τη διαχείριση των βιοαποβλήτων μέσω της κοινωνικής επιχειρηματικότητας.



# PROGRESS OF PROJECT PLAN

Papika Athina-Maria  
Municipality of Serres

3<sup>rd</sup> Project Meeting  
Nestos, 07.02.2020



ARISTOTLE  
UNIVERSITY  
OF THESSALONIKI



Ministry of Agriculture,  
Food and Rural Affairs



The project is co-funded by the European Regional Development Fund and by national funds of the countries participating in the Interreg V-A "Greece - Bulgaria 2014-2020" Cooperation Programme



## Project Workplan

| WP    | WP   | Start      | End        | Cost         |
|-------|--|------------|------------|--------------|
| WP 1  | Project Management & Coordination                          | 06/10/2017 | 05/04/2020 | 58.964,58 €  |
| WP 2  | Communication & Dissemination                              | 06/10/2017 | 05/04/2020 | 39.433,80 €  |
| WP 3  | Exploring the social contribution of bio-waste utilization | 01/11/2017 | 05/04/2020 | 119.563,48 € |
| WP 4  | Recycling of organic waste                                 | 06/10/2017 | 05/04/2020 | 289.030,00 € |
| WP 5  | Evaluation & framework development                         | 01/02/2018 | 05/04/2020 | 115.475,00 € |
| WP 6  |  |            |            | 0,00 €       |
| Total |  | 06/10/2017 | 05/04/2020 | 642.466,70 € |

By getting the consent of the Project Team and the approval of the JS, we modified the AF with a 6 months extension of the end date of the project due to delays in particular tenders of the project.



**Interreg**  
Greece-Bulgaria  
European Regional Development Fund



**Crew**

## SO FAR IMPLEMENTED STEPS

### WP1:Project Management & Coordination

- ❖ Until now, five( 5) Progress Reports have been submitted with the cooperation of all partners, monitoring the completed actions and the foreseen steps of each period.
- ❖ The 1<sup>st</sup> Modification approved by JS on 10/09/2018
- ❖ The 2<sup>nd</sup> Modification approved by JS on 12/03/2019
- ❖ The 3<sup>rd</sup> Modification approved by JS on 10/06/2019
- ❖ The 4<sup>th</sup> Modification approved by JS on 08/07/2019
- ❖ Approval of a 6 months end date of the project on 20/09/2019



**Interreg**  
Greece-Bulgaria  
European Regional Development Fund



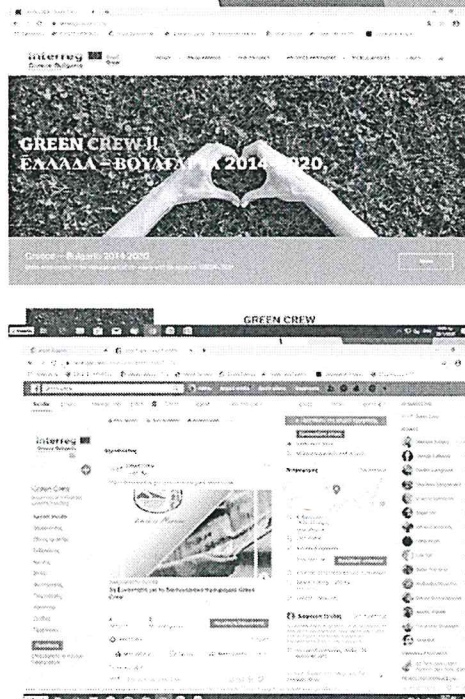
**Crew**

### WP2:Communication & Dissemination

- ▶ The contractor for ensuring information and publicity strategy has completed the project website as well as the social web page (Del.2.1.1&2.1.3)
- ▶ Respective links :

<https://www.serres.gr/greencrew/>

<https://www.facebook.com/Green-Crew-294776184572279>





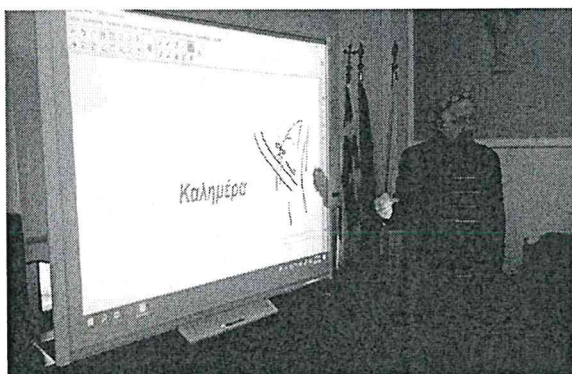


**Interreg**  
Greece-Bulgaria  
European Regional Development Fund

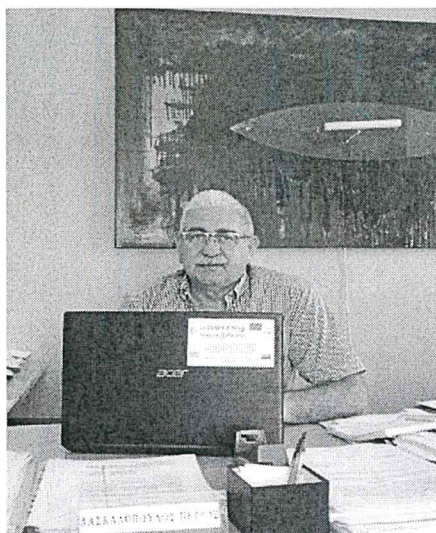


### **WP3 :Exploring the social contribution of Bio-Waste Utilization**

- ❖ Supply of the Smart Education Equipment (04/01/2019) to meet the needs of D3.1.4 "Smart Education" Training week.
- ❖ The three laptops are being used of the respective departments of our Municipality for the needs of implementing project deliverables.
- ❖ Future use of the equipment in the plant "Green point", in the training room.







**Interreg**  
Greece-Bulgaria  
European Regional Development Fund



- D.3.1.3 "Investigate the training & skills needs of the groups involved" & D.3.1.4 "Smart Education" have been completed. Particularly, the Municipality of Serres organized the Training Week from the 6<sup>th</sup> to 10<sup>th</sup> of May 2019 in order participants to be informed on the social economy and bio-waste management through social entrepreneurship.

According to the agenda, the training week included presentations of representatives of Municipality of Serres, specialized waste management scientists, professors from TEI of Central Macedonia as well as lectures by members of Social Cooperative Enterprises from both Serres and Thessaloniki. Also, the training week included visits in two Units.







**Interreg**  
Greece-Bulgaria  
European Regional Development Fund

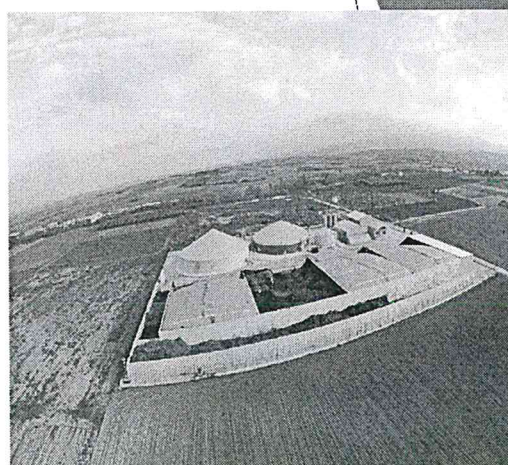
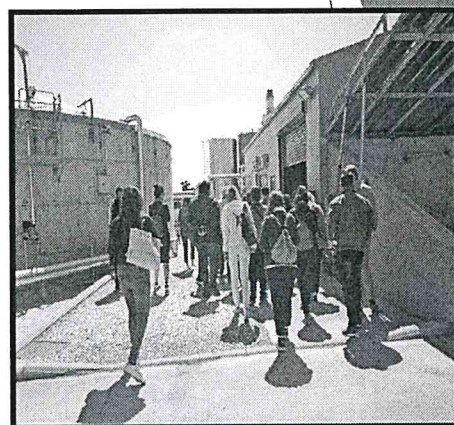
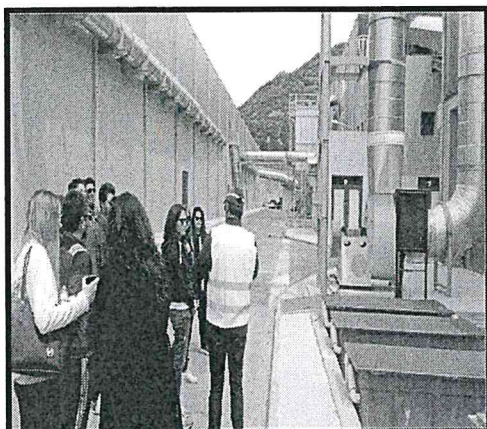


**Crew**  
Cooperation for Regional Development

- ▶ Particularly, one day participants had the opportunity to visit the Waste Treatment Unit and the waste Landfill Unit, in Palaiokastros area in Serres. This unit uses a waste management system that greatly reduces the quantity of waste that ends up in landfill and participants were informed by qualified staff about the whole process. To point out that this unit serves all the Municipalities of the Region of Serres and the Municipality of Kilkis.
- ▶ The next visit was in Nigrita area, to the company "Bioenergy Nigrita O.E", a company that produces electricity through the use of agricultural and animal (livestock) waste.
- ▶ At the end of the week, the participants mentioned that it was one of the best seminars they have ever attended.











**Interreg**  
Greece-Bulgaria  
European Regional Development Fund



## **WP5: Evaluation and framework Development**

- ❖ Del.5.1.1 "Develop a strategic framework for growing the role of the social economy in managing green litter and developing new green employment positions within the region" is in process to be completed.
- ❖ Supply of the **wood shredder** on 19/04/2019
- ❖ The external expertise-environmentalist (D.5.1.3 External Expertise) Mr Vlachos Christos, has signed contract on 13/01/2020 and has undertake the whole composting process with the assistance of the Social Cooperative Enterprise



**Interreg**  
Greece-Bulgaria  
European Regional Development Fund



## **MEETING WITH JS**

- ❖ Although significant steps have been taken so far , the main activities have been delayed. For this reason, LB and PB3 were invited on 03/07/2019 to attend a technical meeting with representatives of JS and MA at the premises of MA in Thessaloniki in order to set the immediate actions that have to be taken for the future of the project. At the meeting Mrs Antoniadou, emphasized the need of speeding up actions and following strictly the commitments and deadlines .Also, according to the "Meeting minutes ", necessary condition for the approval of the 6 months extension was the committed amount for verification until the end of 2019 to be strictly implemented as it is stating of each partner in the below table



**Interreg**  
Greece-Bulgaria  
European Regional Development Fund



**Crew**

## Committed verified amount of each project beneficiary from September 2019 until the end of 2019

| Project Beneficiaries                    | committed verified amount from September 2019 until the end of 2019 |
|--|---|
| LB-Municipality of Serres                | 40.000,00   |
| PB2-Aristotle University of Thessaloniki | 0,00  |
| PB3-Municipality of Nestos               | 56.629,43   |
| PB4-Municipality of Blagoevgrad          | 62.678,22   |
| <b>TOTAL</b>                             | <b>159.307,65</b>   |



**Interreg**  
Greece-Bulgaria  
European Regional Development Fund



**Crew**

## FINANCIAL REPORT (according the 5<sup>th</sup> PR)

| Project Beneficiaries                    | Budget            | Funding allocation until 31/12/2019(αίτημα κατανομής ) | Total payments until 31/12/2019 | Verified expenditure until 31/12/2019 | Difference between Budget and Payments |
|--|-------------------|--|---------------------------------|---------------------------------------|--|
| LB-Municipality of Serres                | 129.628,30        | 107.000,00   | 81.211,70                       | 80.402,70                             | 48.416,60                              |
| PB2-Aristotle University of Thessaloniki | 138.791,00        | 128.791,00   | 130.312,07                      | 103.103,22                            | 8.478,93                               |
| PB3-Municipality of Nestos               | 144.623,00        | 44.353,47  | 16.436,99                       | 0,00                                  | 128.186,01                             |
| PB4-Municipality of Blagoevgrad          | 129.424,40        | 7.474,62   | 43.042,20                       | 32.525,82                             | 86.382,20                              |
| <b>TOTAL</b>                             | <b>542.466,70</b> | <b>287.619,09</b>                                      | <b>271.002,96</b>               | <b>216.031,74</b>                     | <b>271.463,74</b>                      |





***Thank you for  
your attention!!!***



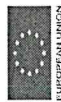
ARISTOTLE  
UNIVERSITY  
OF THESSALONIKI



University of Burgundy



**Interreg**  
**Greece-Bulgaria**  
European Regional Development Fund



NESTOS MUNICIPALITY

3<sup>rd</sup> Meeting of Green Crew  
Project, 7<sup>th</sup> February 2020



The project is implemented in the framework of INTERREG V-A "Greece - Bulgaria 2014 - 2020" Cooperation Programme and is co-funded by the European Regional Development Fund (ERDF) and by national funds of the countries participating in the Programme •

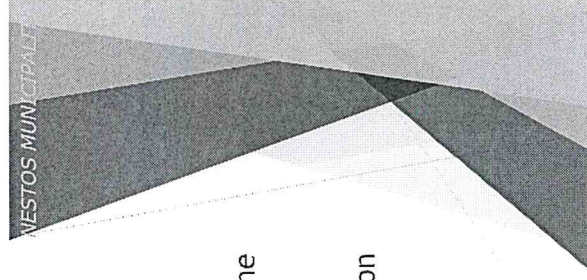
September 2019-February 2020

- ▶ 1<sup>st</sup> September New Municipality authority.
- ▶ New contact person on Nestos Municipality for Green Crew project
- ▶ Six (6) months extension of the project implementation period (05/04/2020)

NESTOS MUNICIPALITY

## ACTIONS AND TASKS (9os/2019-1os/2020)

- ▶ Supply of the appropriate equipment for the project (PC, air water pumps, pipes etc.)
- ▶ Completion of the municipality field preparation (lightweight construction for the equipment)
- ▶ Start up of composting process



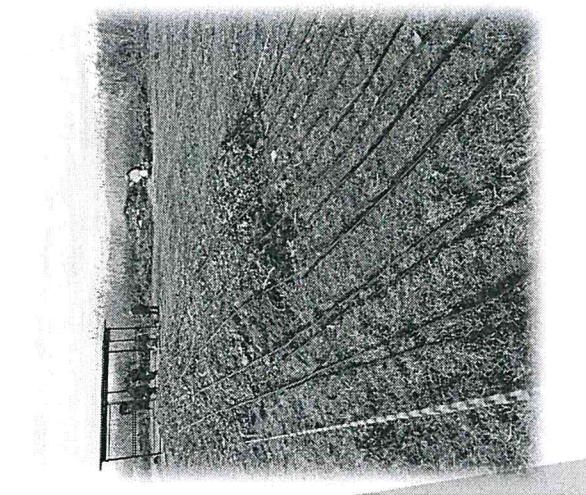
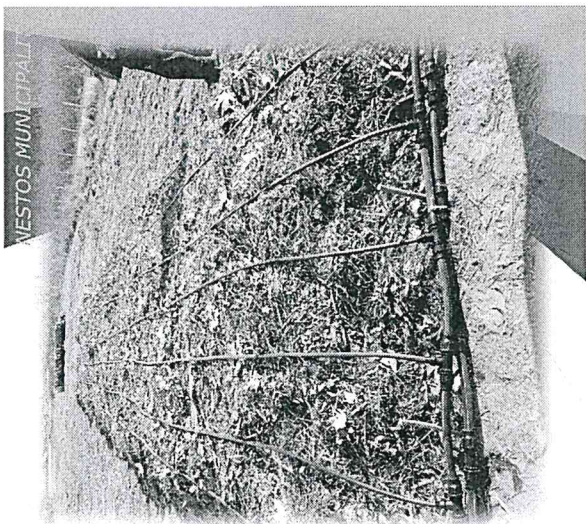
## equipment



## Starting process









## VESTOS MUNICIPALIT

Total cost

# Thank you



The project is implemented in the framework of INTERREG V-A "Greece - Bulgaria 2014 -2020" Cooperation Programme and is co-funded by the European Regional Development Fund (ERDF) and by national funds of the countries participating in the Programme. ■

## "Green" Employment in the Management of Biowastes

Dr. Konstantinos S. Triantafyllidis  
Professor

Nestos  
7/02/2020



## Aristotle University of Thessaloniki

- The Aristotle University of Thessaloniki is the largest University in Greece
- It consists of 7 Schools with more than 80.000 students and over 2.000 educational and research personnel
- The **Department of Chemistry** (P2) being part of the School of Natural Sciences, supports undergraduate, masters and PhD educational programs and conducts basic and applied research in all dominant fields of chemistry and chemical technology



## Aristotle University of Thessaloniki

- The field of biomass valorization within the broader concept of Green Chemistry and Sustainability has been developed systematically over the last decade. The Department of Chemistry:
  - Possesses advanced infrastructure and scientific expertise enabling it to conduct high level basic and technological research as well as specialized measurements and industrial contracts on biomass and compost products.
  - Employs outstanding faculty members and young researchers, offering high quality teaching and training courses.
  - Carries out projects with the aim to raise environmental awareness, improve the quality of life and ensure the sustainability of resources in Greece



## Role of AUTH in the project

- S.W.O.T analysis report stating the high level of situation awareness in all critical issues concerning the existing potential on bio-waste manipulation
- Social economy networking report and development of the social cooperation enterprise manual
- Social impact evaluation study
- Education services, in composting methodologies and waste biomass management
- Development analytical methodology for the determination of physicochemical characteristics of biomass raw material and the produced compost
- Support Municipalities of Serres and Nestos in optimization of compost systems





### WP3

Exploring the social contribution of bio-waste utilization

| WP3             |   |            |
|-----------------|---|------------|
| Deliverable     | Deliverable Title   | Partner    |
| Deliverable 3.1 | S.W.O.T analysis  | P2         |
| Deliverable 3.2 | Social economy networking and Development of the social cooperation enterprise manual | P2         |
| Deliverable 3.3 | Investigate the training & skills needs of the groups involved                        | LB, P2, P3 |
| Deliverable 3.4 | Smart education   | LB, P2, P4 |
| Deliverable 3.5 | Time-shared "white-week"  | P4         |



### WP3

Exploring the social contribution of bio-waste utilization

- SWOT analysis that will provide a high level of situation awareness in all critical issues concerning existing potential on bio-waste manipulation and corresponding social, economic and environmental effects and implications.
- Develop a social economy networking report and development of the social cooperation enterprise manual
- Provide trainers and educational material for the two "White-shared" weeks organized by LB and PB4





## WP4: Recycling of organic waste

| WP4  |         |  |
|--|---------|--|
| Deliverable Title  | Partner |  |
| Deliverable 4.1<br>Social cooperative enterprise enrolment   | P3, P4  |  |
| Deliverable 4.2<br>Investigation of raw materials' (feedstock for composting) and compost end-products' chemical composition                                   | P2      |  |
| Deliverable 4.3<br>Pilot production of compost   | P3      |  |
| Deliverable 4.4<br>Evaluation and efficiency assessment report for the Social cooperative enterprise (SCE) enrolment in the utilization of the "green wastes". | P4      |  |

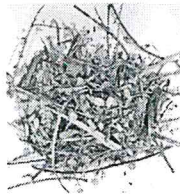


## Processing and physicochemical analysis

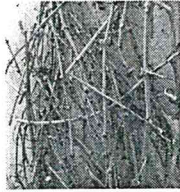
- \* Agricultural and urban biomass wastes-residues
- \* Determination of physical and chemical properties of biomass samples
- \* Compost process
- \* Sampling of compost at different stages
- \* Determination of physical and chemical properties of compost products



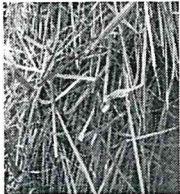
### Selected biomass samples



Olive pruning chopped



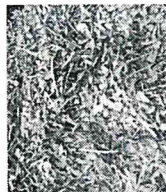
Vine pruning



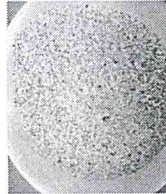
Wheat stems



Almond hulls



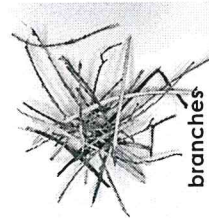
Bitter orange  
pruning



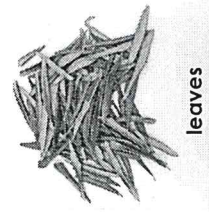
Bitter orange pruning  
Chopped & milled



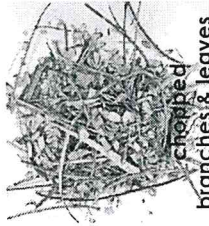
### Selected biomass and compost samples *Olea europea* [Olive tree pruning]



branches



leaves



chopped  
branches & leaves



compost

early stage (3 months)



compost

mid stage (6 months)



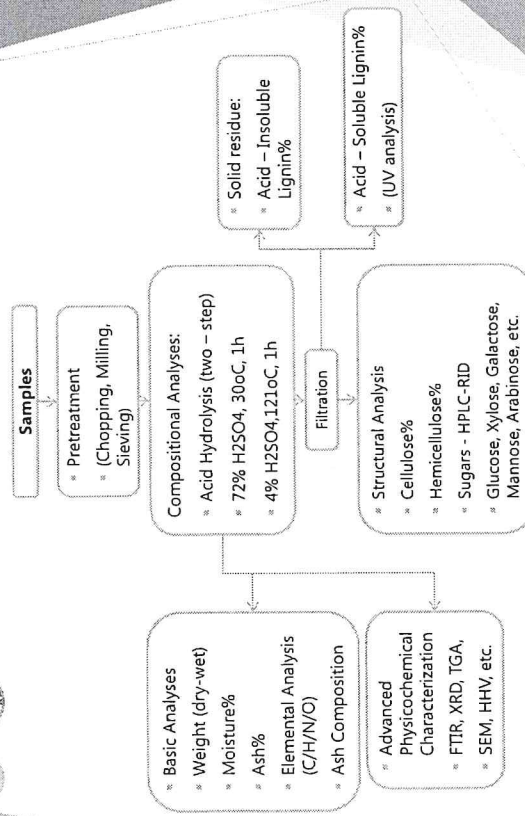
Compost

12 months - Chopped





## Protocol for physicochemical characterization of biomass samples & compost



## Moisture, ash, and volatile solids (organic matter) content per dry basis (wt.%) of selected agricultural bio-wastes

| Lab Index | Biomass feedstock                           | Moisture% | Ash% | Volatiles % |
|-----------|---|-----------|------|-------------|
| B02       | Vitis vinifera cv. cabernet                 | 9.7       | 3.2  | 96.8        |
| B03       | Vitis vinifera cv. ksinomauro               | 9.2       | 3.5  | 96.5        |
| B04       | Populus deltoides                           | 6.9       | 6.8  | 93.2        |
| B11       | Citrus x aurantium cv. Seville              | 8.2       | 9.3  | 90.7        |
| B25       | Prunus amygdalus cv. Texas                  | 9.8       | 1.6  | 98.4        |
| B27       | Triticum aestivum                           | 9.7       | 4.6  | 95.4        |
| B28       | Prunus armeniaca                            | 5.4       | 0.4  | 99.6        |
| B30/33    | Olea europaea L. cv. Chondroelia chalkidiki | 9.6       | 3.5  | 96.2        |

\* Moisture was determined after air-drying at room temperature and knife-milling



Elemental analysis (N, C, H) per dry basis (wt.%) of olive pruning and derived compost products

| Lad index | Feedstock  | Material                       | N%  | C%   | H%  | C/N |
|-----------|--|--------------------------------|-----|------|-----|-----|
| B30/32    | <i>Olea europaea</i> L.<br>cv. Chondroella<br>chalkidiki | Pruning –<br>branches & leaves | 1.6 | 50.2 | 8.4 | 31  |
| B6-comp3  | -/-  | Compost<br>3 months old        | 1.3 | 50.4 | 8.5 | 39  |
| B6-comp6  | -/-  | Compost<br>6 months old        | 1.3 | 46.3 | 7.6 | 35  |
| B6-comp9  | -/-  | Compost<br>9 months old        | 1.6 | 44.9 | 7.8 | 27  |
| B6-comp12 | -/-  | Compost<br>12 months old       | 1.5 | 40.1 | 6.9 | 27  |



Composition analysis of selected biomass feedstock & compost samples (wt.%, dry basis)

| Biomass feedstock                           | All. | ASL | Total<br>Lignin | GLU  | XYL  | ARA  | GAL  | MAN  | Total<br>Sugars | AOE | Mass<br>Balance |
|---|------|-----|-----------------|------|------|------|------|------|-----------------|-----|-----------------|
| Vine stems pruning                          | 33.0 | 0.4 | 33.5            | 32.5 | 16.4 | 2.7  | 5.8  | 0.0  | 57.4            | 2.7 | 93.5            |
| Bitter orange tree<br>pruning (leaf & stem) | 24.8 | 0.1 | 24.9            | 39.5 | 14.5 | 0.0  | 0.0  | 0.00 | 54.1            | 1.9 | 84.3            |
| Almond trellis                              | 40.9 | 0.1 | 41.0            | 19.7 | 21.2 | 0.0  | 0.0  | 0.00 | 40.9            | 4.6 | 93.3            |
| Wheat stems                                 | 25.3 | 0.3 | 25.6            | 32.5 | 20.8 | 2.8  | 5.8  | 0.00 | 61.8            | 1.9 | 98.6            |
| Olive tree pruning<br>(leaf & stem)         | 25.5 | 0.1 | 25.7            | 35.2 | 9.5  | 11.8 | 15.4 | 0.00 | 71.9            | 0.4 | 98.0            |
| Olive tree compost<br>6 months              | 41.2 | 0.1 | 41.4            | 34.8 | 4.7  | 1.5  | 6.3  | 0.00 | 47.3            | 2.4 | 94.9            |
| Olive tree compost<br>12 months             | 48.7 | 0.1 | 48.8            | 22.7 | 6.6  | 0.0  | 0.0  | 0.0  | 29.3            | 2.1 | 90.8            |





## WP5:

### Evaluation & framework development

| WP5   |            |  |
|---|------------|--|
| Deliverable Title   | Partner    |  |
| Develop a strategic framework for growing the role of the social economy in managing green litter and developing new green employment positions within the region | LP, P3, P4 |  |
| <b>Deliverable 5.1</b>  |            |  |
| <b>Deliverable 5.2 Social impact analysis</b>   | P2, P4     |  |
| Deliverable 5.3 A report on the public awareness campaign   | LP, P4     |  |



### WP5 – D.5.2.2 Social Impact Analysis:

- This report will provide an overview of the potential impacts of the bio-waste management through social cooperative enterprising.
- It is based both on data collection from the relevant activities (training, experimental and pilot), which have been implemented throughout the project and may have a social, economic and environmental impact, and on literature review as well.



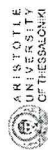
**Interreg**  
**Greece-Bulgaria**  
Cooperation Regional Development Fund

GREEN CREW

Dr. Konstantinos S. Triantafyllidis  
Professor  
Department of Chemistry  
Aristotle University of Thessaloniki






[ktrianta@chem.auth.gr](mailto:ktrianta@chem.auth.gr)



The project is co-funded by the European Regional Development Fund and by national funds of the countries participating in the Interreg V-A "Greece - Bulgaria 2014 - 2020" Cooperation Programme.



# GREEN CREW



## Progress of the activities, regarding the implementation of Green\_Crew project

*Project Title: "Green" Employment in the Management of Biowastes""  
Green\_Crew*



*PB4: Municipality of Blagoevgrad*

**Project Team Meeting: Nestos, Greece, 07/02/2020**




---

ARISTOTLE  
UNIVERSITY  
OF THESSALONIKI

The project is co-funded by the European Regional Development Fund and by national funds of the countries participating in the Interreg V-A "Greece - Bulgaria 2014 -2020" Cooperation Programme



## MUNICIPALITY OF BLAGOEVGRAD (PB4) AND PROJECT GREEN\_CREW

Approved budget of Municipality of Blagoevgrad (PB4) - 129 424.40 EUR



**Main activities to be implemented under the project:**

- Organization of one conference on the promotions of the project results for 100 people
- Organization of a public awareness campaign on the SCE concept, as well as biowaste composting


---


ARISTOTLE  
UNIVERSITY  
OF THESSALONIKI


The project is co-funded by the European Regional Development Fund and by national funds of the countries participating in the Interreg V-A "Greece - Bulgaria 2014 -2020" Cooperation Programme



**Interreg**  
Greece-Bulgaria  
European Regional Development Fund



EUROPEAN UNION





**Green Crew**

## MUNICIPALITY OF BLAGOEVGRAD (PB4) AND PROJECT GREEN\_CREW



Approved budget of Municipality of Blagoevgrad (PB4) - 129 424.40 EUR

**Main activities already implemented under the project:**


- Organization of a Project Team Meeting
- Organization of a "white-shared" training week
- Supply of a smart education equipment


ARISTOTLE  
UNIVERSITY  
OF THESSALONIKI


The project is co-funded by the European Regional Development Fund and by national funds of the countries participating in the Interreg V-A "Greece - Bulgaria 2014 -2020" Cooperation Programme



**Interreg**  
Greece-Bulgaria  
European Regional Development Fund



EUROPEAN UNION





**Green Crew**



## MUNICIPALITY OF BLAGOEVGRAD (PB4) AND PROJECT GREEN\_CREW

**Main activities already implemented under the project:**

- Preparation of Evaluation and Efficiency assessment report for the SCE
- Development of Guidelines
- Development and delivery of the social impact evaluation study
- Ensuring information and publicity measures







ARISTOTLE  
UNIVERSITY  
OF THESSALONIKI

The project is co-funded by the European Regional Development Fund and by national funds of the countries participating in the Interreg V-A "Greece - Bulgaria 2014 -2020" Cooperation Programme



**Interreg**  
 Greece-Bulgaria  
European Regional Development Fund



**MUNICIPALITY OF BLAGOEVGRAD (PB4) AND  
 PROJECT GREEN\_CREW**


Progress of the implementation of the activities for the period 06.10.2017-  
 06.02.2020

**WP 1 „Project Management and Coordination“:**



- Participation in the Kick-off meeting, organized by Municipality of Serres
- Organized 27 (twenty-seven) internal project team meetings in Blagoevgrad
- Prepared Request for Modification for a change in the type of a tender procedure;
- Prepared and sent to LB 4 (four) PPRs
- Organized of the 2<sup>nd</sup> Project team meeting
- Keeping correspondence with PBs and JS

---



 ARISTOTLE  
 UNIVERSITY  
 OF THESSALONIKI

The project is co-funded by the European Regional Development Fund and by national funds of the countries  
 participating in the Interreg V-A "Greece - Bulgaria 2014 -2020" Cooperation Programme

**Interreg**  
 Greece-Bulgaria  
European Regional Development Fund



**MUNICIPALITY OF BLAGOEVGRAD (PB4) AND  
 PROJECT GREEN\_CREW**


Progress of the implementation of the activities for the period 06.10.2017-  
 06.02.2020

**WP 2 „Communication and Dissemination“:**




- Ensuring Information and publicity measures by elaboration of 3 banners, 50 posters, 200 brochures, 200 folders for the social outcomes of „green\_waste“ management, 4 publications.
- Prepared Tender dossier for selection of a Contractor, signed Service contract.

---



 ARISTOTLE  
 UNIVERSITY  
 OF THESSALONIKI

The project is co-funded by the European Regional Development Fund and by national funds of the countries  
 participating in the Interreg V-A "Greece - Bulgaria 2014 -2020" Cooperation Programme

**Interreg**  
Greece-Bulgaria  
European Regional Development Fund





**MUNICIPALITY OF BLAGOEVGRAD (PB4) AND  
PROJECT GREEN\_CREW**

Progress of the implementation of the activities for the period 06.10.2017-  
06.02.2020

**WP 3 „Exploring the social contribution of bio-waste“:**




- Organized of a „white-shared“ training week for approximately 60 participants.
- Supplied smart education equipment (smart board, PC equipment, software), 1 (one) PC.

---

ARISTOTLE  
UNIVERSITY  
OF THESSALONIKI

The project is co-funded by the European Regional Development Fund and by national funds of the countries  
participating in the Interreg V-A "Greece - Bulgaria 2014 -2020" Cooperation Programme





**Interreg**  
Greece-Bulgaria  
European Regional Development Fund

**MUNICIPALITY OF BLAGOEVGRAD (PB4) AND  
PROJECT GREEN\_CREW**

Activities foreseen for implementation by 20.03.2020

- Ensuring information and publicity measures – 2 publications
- Supply and Delivery of office supplies and expenses.
- Organization of one conference on the promotions of the project results for 100 people – middle of March
- Organization of a public awareness campaign on the SCE concept, as well as biowaste composting – end of February

---

ARISTOTLE  
UNIVERSITY  
OF THESSALONIKI

The project is co-funded by the European Regional Development Fund and by national funds of the countries  
participating in the Interreg V-A "Greece - Bulgaria 2014 -2020" Cooperation Programme



**Interreg**  
Greece-Bulgaria  
European Regional Development Fund



**MUNICIPALITY OF BLAGOEVGRAD (PB4) AND  
PROJECT GREEN\_CREW**

**THANK YOU FOR THE ATTENTION!**

**Metodi Dimitrov**  
Coordinator of Green\_Crew Project  
Municipality of Blagoevgrad  
e-mail: [svancheva@blgmun.com](mailto:svancheva@blgmun.com)  
tel.: +359 892 274 176



ARISTOTLE  
UNIVERSITY  
OF THESSALONIKI



*Municipality of Plovdiv*



The project is co-funded by the European Regional Development Fund and by national funds of the countries participating in the Interreg V-A "Greece – Bulgaria 2014-2020" Cooperation Programme

## 2<sup>nd</sup> Call for approved projects

Project with acronym "GREEN\_GREW"

### Project implementation, tenders and cash-flows

Emiliya Doncheva-Tzivanopoulou  
Project Officer

Project Meeting  
07<sup>th</sup> February 2020  
Chrisoupoli, Greece

## All PBs

- Project duration – 6/10/17 – 5/4/20
- Total Project budget – 542.466,70 €
- Table of exp. in MIS – 232.468,74 €
- Under Submission in MIS – 16.436,99 € (PB3)
- Certified in MIS – 216.031,75 €
- GR PBs PIP (Public Investment Programme) received - 280.144,47 €



## All PBs

- The project must definitely be concluded till the final end date **5/4/20**, according to the approved AF in force, taking into consideration the “Project Closure Manual” (Version 1.0, December 2019) available on our web-site in Section “Library”, “Documents for Project Implementation” in the link below:  
[http://www.greece-bulgaria.eu/com/17 Documents-for-project-implementation](http://www.greece-bulgaria.eu/com/17_Documents-for-project-implementation)

## PB3

- All PBs are delayed with procurement, implementation and verifications especially PB3 Municipality of Netsos
- PB3 to proceed with **FLC** instructions from Unit C MA & to **increase** the paid expenditure in MIS  
PIP received amount **44.353,47**  
Table of expenditure (Under Submission) **16.436,99**

## All PBs

- All PBs should make all efforts to speed-up the IMPLEMENTATION of project activities, to perform PAYMENTS and VERIFICATION
- FLC instructions from Unit C (MA) available on our web-site in the link below: [http://www.greece-bulgaria.eu/com/17\\_Documents-for-project-implementation](http://www.greece-bulgaria.eu/com/17_Documents-for-project-implementation) and BG PBs <https://www.mrrb.bg/bg/infrastruktura-i-programi/programi-za-teritorialno-sutrudnichestvo-2014-2020/interreg-v-a-gurciya-bulgariya-2014-2020/>

## All PBs

- All PBs must be aware for the closure procedure (final payments/verifications) according to the "Project Closure Manual" (Version 1.0, December 2019) available on our web-site.
- **Final Payments:** Up to six (6) months from the end date of the project.
- **Final verifications:** Up to three (3) months following Final payments.



## GR PBs - PIP

- GR PBs must proceed to payments of the already requested and received amount from **PIP** (Public investment Programme) inserting all paid expenditure in MIS <https://login.ops.gr/> & if there is a need for payments, to submit in MIS a **funding request/s** of amount from PIP (according to the JS e-mail dated 24/08/2018 Οδηγός δημιουργίας και υποβολής αιτήματος κατανομής), informing immediately JS via email.

## BG PBs

- **ERDF:** After the submission to JS of the certificates for verified expenditures and the integration in the payment requests, ERDF reimbursement 85% is received by the Certifying Authority and transferred to the LB, who will transfer it to in euro (€) and in whole, without deductions for bank charges the respective beneficiaries within one (1) month from its receipt; In this stage the ERDF amount is given from the advance payment of the Programme.

## BG PBs

- **National co-financing:** The Ministry of Regional Development and Public Works ensured the national co-financing  
<https://www.mrrb.bg/bg/infrastruktura-i-programi/programi-za-teritorialno-sutrudnichestvo-2014-2020/interreg-v-a-gurciya-bulgariya-2014-2020/>

## Paid/ FLC in MIS

- All paid expenditure must be uploaded on the MIS  
<https://login.ops.gr> of the Programme INTERREG V-A Greece-Bulgaria 2014-2020 following the User's Manual with instructions for the creation and management of the Table of Expenditure on the MIS and the relevant "[MIS Seminar's presentations](#)" available on our web-site in the links below:  
[http://www.greece-bulgaria.eu/com/17 Documents-for-project-implementation](http://www.greece-bulgaria.eu/com/17_Documents-for-project-implementation)



## I&P

- All PB should make a link to the project web-site and create a special section for the project on its official web-site in order to boost publicity of project's results;
- An Information sign with the logo should be placed in a visible location in the financed with the help of the Programme fund building, rooms and facilities or in a place related to these;

## I&P

- A poster based on the proposed by MA "Poster Development Tool" available on [http://www.greece-bulgaria.eu/com/17\\_Documents-for-project-implementation](http://www.greece-bulgaria.eu/com/17_Documents-for-project-implementation) should be posted in a visible place of the EU projects unit office. All PB should keep all promotional material/s (both in electric version & in hard copy) as they should be presented by LB to JS, during the closure procedure.

**Thank you for your attention**  
**For further information, please contact:**

---

Joint Secretariat of the CP "INTERREG V-A Greece-  
Bulgaria 2014-2020"  
65, Georgikis Scholis Avenue, 2nd floor  
57001, Thessaloniki, Greece  
Tel: +30 2310 469 694  
Fax: +30 2310 469 623  
Email: [jts\\_grbg@mou.gr](mailto:jts_grbg@mou.gr), [edoncheva@mou.gr](mailto:edoncheva@mou.gr)











## MINUTES

3<sup>rd</sup> Project Meeting

Nestos, 7<sup>th</sup> February 2020

|                      |  |
|----------------------|--|
| <b>Date, time:</b>   | Friday, the 7 <sup>th</sup> of February, 2020 (from 10:00 am to 14:00 pm)  |
| <b>Venue:</b>        | Nestos, at the premises of Municipality of Nestos, Greece  |
| <b>Activity(s):</b>  | 3 <sup>rd</sup> Project Meeting  |
| <b>Host:</b>         | Municipality of Nestos   |
| <b>Participants:</b> | <p><b>Municipality of Serres, Lead Partner:</b> Karakolidis Panagiotis Vice Mayor of the Cleaning Services Division, Daskalopoulos Petros Head Officer of the Cleaning Services Division, Termentzidou Maria Head Officer of Department of Environment, Papika Athina-Maria project officer of the EU Programmes Department</p> <p><b>Aristotle University of Thessaloniki- Special Account for Research Funds- Department of Chemistry, Partner Beneficiary 2, Triantafyllidis Konstantinos Associate Professor, Giorgou Maria Technical Counsellor</b></p> <p><b>Municipality of Nestos, Partner Beneficiary 3:</b> Karageorgi Ismini, Head officer of the EU Programmes Department, Boutos Ioannis and staff of the EU Programmes Department, Vice Mayor of the Cleaning Services Mermelegkas George, Vice Mayor of the Technical Services Xiotis Konstantinos, Vice Mayor of the Economic Services Koumpidis Theodoros</p> <p><b>Municipality of Blagoevgrad:</b> Ivanovski Georgi Head of Department "Territorial Cooperation and Economic Development", Metodi Dimitrov Chief expert "European projects and programmes"</p> <p><b>Joint Secretariat of the CP INTERREG V-A "GREECE-BULGARIA 2014-2020:</b> Emiliya Doncheva-Tzivanopoulou, Project Officer</p> |

## CONTENTS

The meeting started with the welcome words of Mrs. Ismini Karageorgi, Head officer of the EU Programmes Department in Municipality of Nestos, who thanked all the participants for attending the meeting. The representatives of the other partners (Municipality of Serres, AUTH and Municipality of Blagoevgrad) added



that they were pleased to be part of this project and to attend the meeting.

## PROGRESS OF THE PROJECT

|   |   |
|---|---|
| <b>Joint Secretariat</b>                    | <p>Mrs Doncheva-Tzivanopoulou, the project officer of Joint Secretariat took the floor and thanked Municipality of Nestos for the kind invitation and hospitality. At first, she presented a centralized reference to financial data such as the payments and certified expenses till this period. Afterwards, the project officer stressed the importance all PBs to enhance and speed up the implementation of all deliverables and to perform payments and verifications in MIS. She pointed out that PB3 has to proceed with FLC instructions from Unit C MA and to increase the paid expenditure in MIS. Then, the speaker highlighted the necessity of the active contribution of partners in order to have a dynamic information and publicity strategy following the Program me's Information and Publicity Guidebook obligations. Additionally, all PBs must be aware for the closure procedure according to the Project Closure Manual and the obligations that arising at the end of the project implementation. Finally, she underlined that the project must definitely be concluded till the final date <b>05.04.2020</b>, according to the approved AF in force.</p> |
| <b>Municipality of Nestos</b>               | <p>Mr. Ioannis Boutos, from Municipality of Nestos, made a presentation of the actions that were implemented from September 2019 until January 2020, since the New Municipality Authority is in charge and they are involved in. He referred to the implementation of deliverables of WP4 and specifically for the supply of the appropriate equipment for the implementation of the composting unit and the completion of the municipality field preparation. He also presented photos, reflecting the progress of the composting process and informed the partners that very soon they will have more deliverables and payments in order to follow the final date of the project <b>05.04.2020</b></p>  |
| <b>Municipality of Serres</b>               | <p>Mrs. Papika Athina-Maria from Municipality of Serres, made a brief presentation of the implemented project deliverables regarding the dissemination of the project, the supply of the whole equipment and the "Training week" implementation. The speaker reminded the need for speeding-up actions and completion of the rest deliverables in order the deadline to be strictly followed. She also highlighted the acceleration of the compost process in both Serres and Nestos. Finally, she informed the partners that the project web site is being updated with information on the project and any publicity elements should be uploaded for the best dissemination of the project.</p> <p>Mr Vlachos Christos, Environmentalist from Municipality of Serres, made an introduction for the location and the use of the Municipal Vegetable Garden, where the whole composting process is taking place. Then, he analyzed the steps and the basic phases of the composting procedure.</p>   |
| <b>Aristotle University of Thessaloniki</b> | <p>Professor Mr. Triantafyllidis from the Aristotle University of Thessaloniki talked about the deliverables of WP3 that has to do with the exploration of the social contribution of bio-waste utilization and emphasizing mainly on the need to train</p>   |





|                                  |   |
|----------------------------------|---|
|                                  | the farmers with instructors from AUTH. Then, he also analyzed the development of the protocol for physicochemical characterization of biomass samples & compost that will be produced by the Municipalities of Serres and Nestos (WP4). Regarding WPS he mentioned that a social impact analysis will be developed including data collection from the relevant activities (training, environmental and pilot) .            |
| Municipality of Blagoevgrad      | Mr Metodi Dimitrov from the Municipality of Blagoevgrad, made a presentation of the implemented project activities. He also presented the foreseen actions including ensuring information and publicity measures (2 publications), supply and delivery of office supplies and expenses, organization of one conference on the promotions of the project and organization of a public awareness campaign on the SCE concept. |
| Closing remarks                  | In the end, all partners promised that will speed-up the whole procedure and follow the instructions of JS, in order the project to be successfully implemented on time. Also, a Modification request will be submitted on behalf of AUTH, regarding the necessity of PB2 to hire a new Chemist who will analyze the biomass and compost samples produced by the Municipalities of Serres and Nestos.                       |
| Next meeting(conference) planned | Two conferences on the promotions of the project will take place in <ol style="list-style-type: none"> <li>1. Municipality of Blagoevgrad at the middle of March 2020 and</li> <li>2. Municipality of Serres at the end of March 2020</li> </ol>  |

