Action 10
Networking with other projects

Deliverable
Networking results analysing and summarising

August 2015
Η παρούσα έκθεση συντάσσεται στο πλαίσιο του συγχρηματοδοτούμενου Ευρωπαϊκού Προγράμματος LIFE-Περιβάλλον "Ολοκληρωμένη Διαχείριση Βιοαποβλήτων στην Ελλάδα – Η περίπτωση της Αττικής" (Integrated Management of Biowaste in Greece – The case study of Athens - ATHENS BIOWASTE). Το πρόγραμμα αποσκοπεί στην πρώτη ευρεία πιλοτική εφαρμογή της διαλογής των βιοαποβλήτων στην πηγή σε επιλεγμένες περιοχές των Δήμων Αθηναίων και Κηφισιάς και την μετέπειτα επεξεργασία τους στο Εργοστάσιο Μηχανικής Ανακύκλωσης και Κομποστοποίησης (EMAK) του Ειδικού Διαβαθμιδικού Συνδέσμου Νομού Αττικής (ΕΔΣΝΑ) για την παραγωγή κόμποστ υψηλής ποιότητας.

Η παρούσα έκθεση αποτελεί το παραδείγμα της 10ης Δράσης του LIFE+ Έργου ATHENS-BIOWASTE με τίτλο "Δικτύωση με άλλα έργα". Η Δράση 10 ξεκίνησε την 01/09/2011 και υλοποιήθηκε καθ’ όλη τη διάρκεια υλοποίησης του έργου. Συνολικά, τουλάχιστον 15 έργα με δράσεις συναφείς με το έργο ATHENS-BIOWASTE αναγνωρίστηκαν και δράσεις δικτύωσης πραγματοποιήθηκαν στο πλαίσιο του LIFE+ Έργου ATHENS-BIOWASTE. Αρχικά, η ομάδα εργασίας του έργου ATHENS-BIOWASTE αντάλλαξε εμπειρίες με έργα στα οποία συμμετέχει η ομάδα εργασίας του EMPI. Τέτοια έργα είναι το LIFE+ Έργο DRYWASTE, το WASTE2BIO, το ISWM-TINOS, το RECYCLING@HOME & το BALKWASTE.

Σημειώνεται ακόμα ότι μέλη της ομάδας εργασίας άλλων έργων LIFE+ συμμετείχαν στην Επιτροπή Καθοδήγησης του έργου ATHENS-BIOWASTE και παρείχαν υλικό για δικτύωση (π.χ. Καθ. Κάτια Λαζαρίδη (Έργο WASP Tool: http://wasptool.hua.gr) & Δημήτρης Χωματίδης (Pay As You Throw Project).

Επιπρόσθετα, εκπρόσωποι πολλών σχετικών με τα απόβλητα έργων συμμετείχαν στο τελικό συνέδριο του έργου ATHENS-BIOWASTE τον Ιούνιο του 2014 και αντάλλαξαν εμπειρίες με την ομάδα εργασίας του έργου.
This report was developed within the framework of the European co-funded LIFE-Environment program ATHENS BIOWASTE entitled "Integrated Management of Biowaste in Greece - The case study of Athens". The project aims at the first large scale pilot application of biowaste source separation in selected areas of the Municipalities of Athens and Kifissia and at their subsequent processing at the Mechanical Recycling and Composting plant (EMAK) of the Association of Municipalities in the Attica Region – Solid Waste Management (EDSNA) for the production of high quality compost.

This report is the deliverable of the 10th Action of the "ATHENS BIOWASTE" project entitled "Networking with other projects". Action 10 initiated on 01/09/2011 and was implemented throughout the project’s duration. Overall, at least 15 other projects sharing some of their goals with ATHENS-BIOWASTE were identified and networking activities were implemented in the framework of the ATHENS-BIOWASTE project. At first, the ATHENS-BIOWASTE team shared experiences with the other waste related projects that the personnel of the Unit of Environmental Science & Technology participates, namely the DRYWASTE project, the WASTE2BIO project, the ISWM-TINOS project, the RECYCLING@HOME project, the BALKWASTE project.

It is also noted that members of the working teams of other relevant LIFE+ projects participated in the ATHENS-BIOWASTE Steering Committee and provide relevant feedback for networking (e.g. Associate Prof. Katia Lazaridi (WASP Tool Project: http://wasptool.hua.gr) and Dimitris Homatidis (Pay As You Throw Project).

Furthermore, representatives of several waste related projects participated in the final Conference of the ATHENS-BIOWASTE project in June 2014 and shared experiences with the ATHENS-BIOWASTE working team.
The ATHENS-BIOWASTE working team put emphasis on the dissemination and networking actions in order to manage to strengthen the impact of the implementation of the ATHENS-BIOWASTE project. The current report summarizes in brief the main relevant attempts of the ATHENS-BIOWASTE working team in the field of networking with other projects.

An extensive search in the relevant LIFE, FP6 and FP7 project databases was made so as to identify already completed or on-going projects that are relevant to the ATHENS-BIOWASTE scope in the field of solid waste management. After their identification, contacts were made in order to establish a networking channel with them.

The main steps for the implementation of the networking action included:

- The establishment of the ATHENS-BIOWASTE Steering Committee and the relevant meetings. Certain members of the ATHENS-BIOWASTE were involved in relevant waste projects and, therefore, networking was enhanced. Such members include Dr. Philippos Kirkitsos and Dr. Dimitris Homatidis from ECOREC representing the Pay As You Throw Project (http://www.payt.gr) and the ELINA Project (http://elina.org.gr/en), Prof. Katia Lasaridi from Harokopio University representing the LIFE+ WASP-Tool project (http://wasptool.hua.gr). It is noted that the members of the Steering Committee reviewed certain ATHENS-BIOWASTE deliverables. In this way, it was made possible to include supplementary aspects of other projects within the planning of the ATHENS-BIOWASTE activities (e.g. prevention, which constitutes a priority also for the case of biowaste management).

It is noted that the WASP Tool Project shared some common objectives with the ATHENS-BIOWASTE project, such as the provision of guidance to local waste management authorities for the management of biowaste, the evaluation of alternative management
options for biowaste throughout their life cycle and the stipulation of environmental awareness and knowledge of citizens, authorities and other interested parties. The consortia of the WASP Tool project and the Athens-Biwaste project were exchanging information on the production and the valorisation of compost of high quality frequently. The WASP Tool project and some of its findings were presented in the ATHENS 2014 Conference (the first contact had taken place in the DRYWASTE Conference held at the end of June 2012) that was organised within the LIFE+ Athens-Biwaste project. On the other hand, the LIFE+ Athens-Biwaste project was presented in the Final Workshop of the WASP Tool project (23/09/2014).

- The participation of ATHENS-BIWASTE working team represented by Prof. Maria Loizidou & Dr. Konstantinos Moustakas (members of the NTUA working team) and Mr. George Iliopoulos (EPTA working team) in the LIFE Waste Platform meeting on 3rd June 2014 and the Green Week 2014 in Brussels. This event that was organized by European Commission and the External Monitoring Team (Astrale) and constituted a great opportunity for networking with other EC funded and especially LIFE+ projects (e.g. networking with LIFE waste related projects of CARTIF from Valladolid, Spain). The ATHENS-BIWASTE team had the chance to provide info about the outcomes of the ATHENS-BIWASTE project (especially concerning the developed guide and the use of the software tool) and invited the participants also to take part in the ATHENS-BIWASTE Conference that took place some days later.

- The ATHENS-BIWASTE working team made a lot of presentations and prepared papers for a large number of events promoting the networking with other LIFE or generally EC funded projects. The presentations took place during the implementation of the ATHENS-BIWASTE project until 31st August 2014, as well as later in the framework of the implementation of the After LIFE Communication Plan. Indicative presentations include:
- “Development & application of separate collection and management scheme for biowaste in Greece: The cases of Athens & Kifissia” by K. Moustakas, D. Malamis, A. Bourka, C. Venetis, O. Skiadi, S. Giannaki, V. Xipolitas, M. Loizidou, IWA Regional Conference on Waste and Wastewater Management, Science and Technology, Limassol, Cyprus, 26-28 June 2013 (ANNEX 6.4 of the midterm report). Dr. Konstantinos Moustakas from NTUA was the presenting author. This conference was organised in the framework of the LIFE+ INTERWASTE project ([www.interwaste.org](http://www.interwaste.org)).

- “Integrated management of bio-waste in Greece: The case studies of Athens & Kifissia” by A. Bourka, K. Moustakas, D. Malamis, C. Venetis, S. Giannaki, D. Paraskevas, O. Skiadi, V. Xipolitas, N. Thymakis, M. Loizidou, DRYWASTE Conference “ATHENS 2012 International Conference on Sustainable Solid Waste Management” on 28th-29th June 2012 (ANNEX 16 of the Inception Report). Ms. Sophia Giannaki from the MoA was the presenting author. This conference was organised in the framework of the LIFE+ DRYWASTE project ([www.uest.gr/drywaste](http://www.uest.gr/drywaste)). The ATHENS-BIOWASTE team had close contact with the DRYWASTE project, since both projects put emphasis on the need of separate collection and treatment of biowaste in order to divert it from landfills. The ATHENS-BIOWASTE team started a communication channel with 16 other LIFE projects that also participated in the LIFE Session (Session XI) of this Conference ([file:///C:/Users/kostas/hubiC/conferences/ATHENS2012/Athens2012%20Conference%20Proceedings%20CD/athens2012%20Conference%20Proceedings/site/athens2012program.pdf](file:///C:/Users/kostas/hubiC/conferences/ATHENS2012/Athens2012%20Conference%20Proceedings%20CD/athens2012%20Conference%20Proceedings/site/athens2012program.pdf)). In addition, a first contact was made with the ENERGY WASTE project that participated in the exhibition area of the DRYWASTE Conference.

- “Development of biowaste separate collection schemes in urban areas: The cases of Athens & Kifissia” by A. Bourka, K. Moustakas, D. Malamis, C. Venetis, S. Giannaki, D. Paraskevas, O. Skiadi, V. Xipolitas, N. Thymakis, M. Loizidou,
The ATHENS-BIOWASTE project was presented by Dr. D. Malamis during the LIFE+ WASTE-C-CONTROL Closing event which took place on Wednesday 25th September 2013 at Divani Caravel Hotel (agenda, presentation).

Dr. Dimitris Malamis represented the ATHENS-BIOWASTE working team by presenting the ATHENS-BIOWASTE project in the LIFE+ WASP-Tool Workshop on 23rd September 2014. This was a networking activity (ANNEX 6.44 of the final report).

Dr. Dimitris Malamis represented the ATHENS-BIOWASTE working team by presenting the ATHENS-BIOWASTE project in the networking meeting with projects implementing actions on waste management in the framework of the project “Promoting ZEROWASTE” (MED CAP 2007-2013) on 1st October 2014. This was a networking activity (Waste Related Projects that were presented (in Greek) (ANNEX 6.43 of the final report).

The organization of the ATHENS-BIOWASTE conference held at Royal Olympic Hotel from 12th to 14th June 2014 (http://www.athens2014.biowaste.gr) provided an excellent networking opportunity, since due to the attempts of the ATHENS-BIOWASTE organizing team, representatives of several waste related and other projects attended the ATHENS-BIOWASTE conference sessions and participated in the site visit at the EDSNA Mechanical Recycling and Composting facility where the separated at source and collected biowaste from the two Municipalities of the Attica Region is composted in order to produce high quality compost. Indicatively:


2. Z. Gaitanarou, G. Tentes, Y. Katselis, Landfill Mining: An empirical review on past and state-of-the-art applications. (Networking with the LIFE+ RECLAIM Project (LIFE12 ENV/GR/000427) available at: www.reclaim.gr)

3. H. Giani, A. Feil, K. Hornsby, A. Clausen, T. Pretz, Processing concept for the production of biomass fuel from mixed municipal solid waste, (Networking with the LIFE+ MARSS Project (LIFE+ ENV/DE/343) with title: Material Advanced
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Recovery Sustainable Systems available at: https://sharepoint.ecampus.rwth-aachen.de/units/iar/marss/public/SitePages/Homepage.aspx

4. I. V. Skiadas, H. N. Gavala, AMMONOX research project: Use of ammonia for enhancing biogas production from waste lignocellulosic biomass & reducing NOx emissions from biogas engines


The WASP TOOL (http://wasptool.hua.gr) working team made the relevant presentation and participated actively in the 12 sessions of the ATHENS-BIOWASTE Conference.

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9. F. Corona, D. Hidalgo, D. Díez-Rodríguez, A. Urueña, Multi-waste treatment and valorisation by thermochemical processes - presentation

The last presentation of the CARTIF working team provided the place for contacts and exchange of expertise with two LIFE+ projects that CARTIF is involved, namely the LIFE+ EUCALYPTUS ENERGY Project (LIFE12ENV/ES/000913) (www.eucalyptusenergy.com) & the REWAWASTE (LIFE12ENV/ES/000727) (www.revawaste.eu). The meeting with Dr. Dolores Hidalgo on 3rd and 4th June 2014 in Brussels during the Green Week and the LIFE Waste Platform Meeting and with Mr. Francisco Corona Encina who made the presentation in the ATHENS-BIOWASTE Conference provided the chance for collaboration in the field of solid waste management. This collaboration led to the preparation of a new LIFE proposal (PAVEtheWAySTE) that was approved in the LIFE 2014 Call for Proposals.

It is also noted that the Guide for the Municipalities has been sent to the members of the Stakeholders Directory of the LIFE BALKWASTE project.