



Grant Agreement number: 244188 (IWWA)

Project acronym: IWWA

Project title: Integrated Waste Management in Western Africa

Funding Scheme: CSA-CA

### Deliverable 7.3: Second short project update report

Due date of deliverable (7.3): 30.11.2011

Actual submission date: 15.12.2010

Start date of project: 01.06.2010

Duration: 24 months

Organisation name of lead contractor for this deliverable: BIOAZUL, Spain

Project coordinator: ttz Bremerhaven, Germany

Project website address: <http://www.iwwa.eu>

<b>Project funded by the European Commission within the Seventh Framework Programme (2007-2013)</b>		
<b>Dissemination Level</b>		
<b>PU</b>	Public	
<b>PP</b>	Restricted to other programme participants (including the Commission Services)	
<b>RE</b>	Restricted to a group specified by the consortium (including the Commission Services)	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	<b>x</b>

**TABLE OF CONTENTS**

<b>TABLE OF CONTENTS .....</b>	<b>2</b>
<b>1. PROJECT OBJECTIVES FOR THE PERIOD .....</b>	<b>3</b>
<b>2. WORK PROGRESS AND ACHIEVEMENTS DURING THE PERIOD .....</b>	<b>4</b>
<b>3. DELIVERABLES AND MILESTONES TABLES .....</b>	<b>11</b>
<b>4. PROJECT MANAGEMENT .....</b>	<b>14</b>

## 1. PROJECT OBJECTIVES FOR THE PERIOD

IWWA Coordination Action started on 1<sup>st</sup> June 2010 and since then, the consortium has worked towards the achievement of the project objectives, which are listed below:

### **General objectives of the IWWA initiative:**

- To strengthen the institutional framework for Solid Waste Management and coordination at all levels
- Empowerment of authorities and relevant stakeholders (including private sector) for planning and management of solid waste.
- Encouraging technology transfer, know-how and best practices
- Strengthening links among local authorities
- Promoting participation, public awareness and stakeholder involvement
- Strengthening of the legal framework of SWM in the targeted countries.

### **Specific objectives:**

- To collect and analyze relevant information that is required for proper Solid Waste Management planning and decision-making;
- To identify the stakeholders and their strategies, their interaction and their contribution to the improvement of the solid waste management.
- To identify policy and technology options for SWM adapted to the regional situation of the targeted countries.
- To develop tools for implementation of adapted action plans and systems by the regional and national authorities.
- To provide training for environmental specialists, increase the environmental awareness of the public and bring about effective public participation in Solid Waste Management

## 2. WORK PROGRESS AND ACHIEVEMENTS DURING THE PERIOD

### 2.1 Work packages progress summary

In this section an overview of the actions carried out in the last 6 months of the project (June 2011-October 2011) of the project is provided, based in the work packages active during these months. During the last 6 months of IWWA project, 4 work packages have had active tasks: WP4, WP5, WP6 and WP7. On the other hand, work packages WP1, WP2 and WP3 have been already completed during the first year of the project (only D3.3 was delayed (10 days) and was submitted in month 13, however it was reported in the first periodic report since its submission occurred during the preparation of the report).

The following table shows main achievement of each work package:

**Table 1:** Main achievements of the period

<b>ACHIEVEMENTS of THE PERIOD</b>			
<b>WP4: Elaboration of Policy guidelines and recommendations</b>	<b>Partners involved</b>	<b>Main achievements</b>	<b>Status of the task</b>
Task 4.1: Elaboration of guidelines for the future implementation of strategies	<b>OEKO</b> , TTZ, BIOAZUL, SLU, GAIKER, TUB, ENDA, MATAM, IAGU, ZOOM, CEIA, KNUST, BCRC, ELRI, UAA, CEDARE and ICANDO	Description of policy measures and methods for implementation of policy strategies reported in Deliverables 4.1 and 4.2	Completed
Task 4.2: Elaboration of policy briefs for the development of National and Regional Action Plans in each target country	<b>ELRI</b> , TTZ, BIOAZUL, EMPA, SLU, GAIKER, TUB, ENDA, MATAM, IAGU, ZOOM, CEIA, KNUST, BCRC, UAA, CEDARE and ICANDO	Policy briefs for the target countries developed and reported in Deliverable 4.3	Completed
<b>WP5: Evaluation of the implication of proposed changes</b>	<b>Partners involved</b>	<b>Main achievements</b>	<b>Status of the task</b>
Task 5.1: Prognosis on environmental and socio-economic effects in the target regions	<b>BCRC</b> , <b>CEIA</b> , BIOAZUL, EMPA, SLU, OEKO, GAIKER, TUB, ENDA, MATAM, ZOOM, CEDARE and ICANDO.	Prognosis of environmental effects has been accomplished (Section 1 of Deliverable 5.1) Prognosis of socio-economic effects and exemplary case study with the region of Matam are still in progress (Sections 2 and 3 respectively of Deliverable 5.1).	In progress
Task 5.2: Evaluation of the proposed measures in the Region of Matam (Senegal).	<b>MATAM</b> , and ENDA	Preparatory meetings at the regional council	In progress
<b>WP6: Dissemination and Training</b>	<b>Partners involved</b>	<b>Main achievements</b>	
Task 6.1: Participatory	<b>CEIA</b> , ENDA, KNUST,	Participatory workshops in the 4 target countries	Completed

workshops for relevant stakeholders	BCRC, and UAA		
Task 6.2: Capacity building of stakeholders for future implementation	ELRI, IAGU, KNUST, UAA	Workshop in Nigeria already organized. Workshops in Côte d'Ivoire, Ghana and Senegal planned for the following weeks.	In progress
Task 6.3: Development of tools and activities for mass dissemination	All partners involved (task leader: <b>BIOAZUL</b> )	Web site of IWWA project updating Publication of articles and press releases Communication with authorities and relevant stakeholders	In progress
<b>WP7: Project Management</b>	<b>Partners involved</b>	<b>Main achievements</b>	
Task 7.1: General and financial project management	TTZ	Distribution Payments according to the CA. Preparation of amendment to the contract. Communication with consortium and EC. Coordination of overall project running	In progress
Task 7.2: Regional project management	ZOOM	Coordination of the project running at local level	In progress
Task 7.3: Administrative project management	BIOAUL	Preparation of the third project update report Support partners to fulfil administrative EC requirements	In progress

## 2.2 Description of work packages progress

### Work Package 4: Elaboration of Policy guidelines and recommendations (WP leader ELRI)

#### Task 4.1: Elaboration of guidelines for the future implementation of strategies:

Task leader OEKO

Other participating partners: TTZ, BIOAZUL, SLU, GAIKER, TUB, ENDA, MATAM, IAGU, ZOOM, CEIA, KNUST, BCRC, ELRI, UAA, CEDARE and ICANDO.

Task 4.1 has been completed during the last 6 months of the project. Its main outcomes have been Deliverables 4.1 and 4.2.

Deliverable 4.1 has set the principles on which best policy options subsequently described in task 4.2 are based. It starts from the barriers and obstacles to waste management identified in Task 2.5 and described in Deliverable 2.1, and highlight the best policy measures to adopt in the 4 target countries.

The best policy options evaluated are the realization of coherent ISWM legal frameworks in the target countries and their enforcement by a coherent organizational structure, by an innovative relation between local authorities and the policy environment, by an implementation through public participation, by adequate funding concepts, by the improvement of personnel know-how at the technological and organizational level, by suitable waste characterization & data on collected and recovered waste, by the implementation of the existing informal sectors for future reliable waste collection service and waste segregation and by innovative strategies for the securing of the land availability for landfills and the addressing of transport problems to landfills.

Deliverable 4.2 is based on the outcomes of deliverable 4.1 regarding the recommendations for policy measures in the target countries, the report presents methods for the future implementation of policy strategies in ISWM. The guideline will support authorities in the inclusion of participatory approaches for future ISWM strategies. The guideline outlined in this report is structured by

- Principles to develop a roadmap for ISWM (chapter 2),
- Definition of goals, stopovers & deadlines for a roadmap (chapter 3),
- Definition of responsibilities for the development of a roadmap (chapter 4),
- Principles to enable effective participation of stakeholders in policy setting and implementation (chapter 5),
- Best practices to monitor the implementation of the roadmap (chapter 6) and
- Role of the stakeholders in the target countries (chapter 7).

#### **Task 4.2: Elaboration of policy briefs for the development of National and Regional Action Plans in each target country**

Task leader ELRI

Other participating partners: TTZ, BIOAZUL, EMPA, SLU, GAIKER, TUB, ENDA, MATAM, IAGU, ZOOM, CEIA, KNUST, BCRC, UAA, CEDARE and ICANDO.

Task 4.2 has been completed in the last 6 months of the project. The main outcome has been Deliverable 4.3. The aim of this report (Deliverable 4.3) is to outline the policy briefs for the development of National and Regional ISWM Action Plans for the target countries based on the analysis of the EU policy options discussed in previous deliverables. The outlined policy briefs are meant to address the peculiar ISWM needs of the target regions and establish measures for institutional support, coordination amongst key role-players, emphasise stakeholder participation and also address the capacity needs of the stakeholders.

In this document, Chapter 1 introduces the aims and objectives of the ISWM action plans that will implement the policy briefs for the target countries. The policy briefs are outlined in Chapter 2 and are based on the barriers identified from previous reports (D2.1 and D4.1). These policy briefs are meant to address the ISWM needs of the target regions and establish policy options that are applicable. Chapter 3 focuses on the stakeholders roles throughout the implementation of the applicable policies and proper coordination amongst them. Chapter 4 addresses the capacity needs of the stakeholders, while Chapter 5 further expands on recommendations for policies and measures that need to be implemented

Deliverable 4.3 was intended to set the basis for ISWM action plans in the target countries and is not intended to provide an exhaustive list of everything that should be done. Thus, it focuses on those strategies and priority initiatives that require a national approach and those that involve collaboration amongst jurisdictions. Individual jurisdictions will continue to manage waste in line with their strategic objectives and constitutional responsibilities. It is intended that this implementation plan is a living document that is regularly updated as initiatives are scoped, consultation occurs, details on timing and nature of initiatives are developed, and initiatives are completed.

<b>Work package 5: Evaluation of the implication of proposed changes (WP leader: BCRC)</b>
--

#### **Task 5.1: Prognosis on environmental and socio-economic effects in the target regions**

Task leaders: BCRC and CEIA

Other participating partners: BIOAZUL, EMPA, SLU, OEKO, GAIKER, TUB, ENDA, MATAM, ZOOM, CEDARE and ICANDO.

Task 5.1 started in month 18 and is still in progress. BCRC as task leader has drawn up a work schedule for the task and circulated it among the partners. The work commenced with drafting up the contents of the report on environmental effects of the proposed changes. Responsibilities/ tasks and timelines were assigned to all partners involved to ensure submission on time. Section 1 of

Deliverable 5.1 (prognosis on environmental effects) has been already completed. Currently contributions from partners regarding socio-economic effects are being collated. It is not initially expected any delay in the submission of Deliverable 5.1 to the EC due to month 20 (January 2012).

### **Task 5.2: Evaluation of the proposed measures in the Region of Matam (Senegal)**

Task leader: MATAM

Other participating partners: ENDA

For this task, some preparatory meetings were already organized at the regional council, and a list of potential participants is being elaborated by ENDA and MATAM. The content of the one day session has not been developed yet, since inputs from task 5.1 are needed. ENDA and MATAM will develop the agenda and contents in the following weeks.

## **Work package 6: Dissemination and Training (WP leader: CEIA)**

### **Task 6.1: Participatory workshops for relevant stakeholders**

Task leader: CEIA

Other participating partners: ENDA, KNUST, BCRC, and UAA

This task was completed during the first year of the project with the exception of the workshop in Ivory Coast which was postponed due to the political crisis and which was organized in month 13 of the project.

### **Task 6.2: Capacity building of stakeholders for future implementation**

This task started in month 8, and is still in progress.

4 workshops for capacity building of relevant stakeholders are foreseen in the DoW for the target countries (one seminar in each country). The seminars have been scheduled as follows:

- Month 17: Workshop in Nigeria organized by ELRI
- Month 18: Workshop in Ghana organized by KNUST
- Month 18: Workshop in Ivory Coast organized by UAA
- Month 19: Workshop in Senegal organized by IAGU

The workshop in Nigeria was carried out in month 17 (October 2011) as foreseen. Workshops in Ghana, Senegal and Ivory Coast have not been organized yet due to some logistic constraints which obliged to postpone the events a few weeks. These three workshops are expected to be held in months 19 and 20 respectively. Thus, a possible small deviation in the submission of Deliverable 6.4 could be expected since the task leader would require at least one week to collect all the information from the organizers of the workshops and to summarize it in the report.

### **Task 6.3: Development of tools and activities for mass dissemination**

*Sub-task 6.3.1: Webpage establishment (set-up and service):*

The project webpage [www.iwwa.eu](http://www.iwwa.eu) has been established in month 3 of the project as foreseen in the DoW. It enables widespread dissemination of the project, its objectives, results, beneficiaries and ISWMS in general. The page has been continuously updated providing all events and achieved results. All reports, annexes and deliverables which have been submitted and approved by the European Commission as well as any other relevant material are available in the password protected area for the project partners and the EC. Public deliverables (according to the DoW) are also available in the public area of the website.



Figure 1: IWWA web site

### Sub-task 6.3.2: Production and dissemination of project promotional leaflets and Poster

The second promotional leaflet was foreseen to be ready by month 18 of the project (November 2011). However, it was agreed that it would be convenient that the leaflet is focused on promoting the international conference or IWWA, therefore the final layout of the leaflet has been postponed in order to include relevant information related to the conference (e.g. venue, dates, agenda, etc.) which is not available yet. For this reason, Deliverable 6.8 'Second promotional leaflet' will be delayed-

The design will be subcontracted by Bioazul to a professional designer outside the consortium as stated in Annex I of the GA. ENDA will carry out the translation of this material into French.

### Sub-task 6.3.3: Promotion of scientific knowledge in solid waste management

Several articles and publications have been published so far regarding IWWA project::


- Article published in GAIKER's internal magazine OLDARTU. Title: "Solutions for wastes in Western Africa". (Languages: Spanish and Basque). OLDARTU nº 66, July 2010.



- Press release: "GAIKER-IK4 seeks solutions for wastes in West Africa" (Languages: English, Spanish and Basque) 2<sup>nd</sup> of August 2010.
- BIOAZUL published a press released in the national press agency EFE which is available on-line: <http://www.malagahoy.es/article/malaga/734830/una/firma/pta/participa/proyecto/africa.html>




- SLU has published information on IWWA in Swedish and English on their webpage: [www.slu.se/energyandtechnology](http://www.slu.se/energyandtechnology)
- ELRI gave highlights of IWWA project in its newsletter and has published several articles regarding institutional and legal aspects of IWWA project.
- EMPA made presentation at the occasion of the StEP General Assembly in Limerick

**TF4 The IWWA project** 

**IWWA is a Coordination and Support Action**  
funded by the European Commission under the 7th  
Framework Programme

Theme 6: Environment, including climate change



Project full title:	Integrated Waste Management in Western Africa
Project acronym:	IWWA
Countries:	Côte d'Ivoire, Ghana, Nigeria and Senegal
Start date of the project:	01.06.2010
Duration of the project:	24 months
Funding:	about 1 Mio Euro
Consortium:	21 partners from 10 countries
More information:	<a href="http://www.iwwa.eu">www.iwwa.eu</a>
Scope:	Household waste, plastic waste, e-waste, (industrial waste)

22.07.2011 SEP - SOLVING THE E-WASTE PROBLEM 2

- GAIKER made a presentation of IWWA project in IDENTIPLAST 2011 international conference celebrated on 3-4th of October in Madrid and organized by Plastics Europe. Title of the presentation: "Integrated Waste Management in Western Africa - IWWA Project". Speaker: Mr. Joseba Basterretxea.



#### Sub-task 6.3.4: Communication of environmental policy related results

IWWA project has been presented in several conferences and side events by members of the consortium. Furthermore, all partners of IWWA consortium has contacted relevant stakeholders for the communication of the project objectives and expected results taking advantage of their wide range of contacts in the SWM field. These contacts are especially intense in this phase of the project when the training workshops of task 6.2 are being organized.

### 3. DELIVERABLES AND MILESTONES TABLES

#### Deliverables (excluding the periodic and final reports)

All deliverables due to the last 6 months of the project (from June 2011 to November 2011) are listed in the following table:

Table 3. Deliverables									
Deliverable no.	Deliverable name	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (project month)	Delivered Yes / No	Actual / Forecast delivery date	Comments
D3.3	Guide for identification of suitable Integrated Solid Waste Management Systems	3	ICANDO	R	PU	Month 12	Yes	Month 13	Submission delayed due to organization reasons
D4.1	Report: Description and evaluation of policy measures	4	BCRC	R	PU	Month 13	Yes	Month 15	Submission delayed due to organization reasons
D4.2	Guidelines for implementation of policy strategies in ISWM	4	OEKO	R	PU	Month 15	Yes	Month 15	-
D4.3	Policy briefs for the development of National and Regional Action plans	4	ELRI	R	PU	Month 16	Yes	Month 17	Submission delayed due to organization reasons
D6.3	Report: Material and activities for capacity building workshops	6	ELRI	R	PU	Month 15	Yes	Month 15	-
D6.8	Second promotional leaflet	6	BIOAZUL	O	PU	Month 18	No	Month 20	Submission delayed due to organization reasons
D7.3	Report: Second short project update report	7	BIOAZUL	R	R	Month 18	Yes	Month 19	Submission delayed due to organization reasons

## Milestones

The list of milestones, as specified in Annex I of the Grant Agreement, is shown in the following table:

Table 4. Milestones							
Milestone no.	Milestone name	WP no.	Lead beneficiary	Achievement date from Annex I (project month)	Achieved Yes / No	Actual / Forecast achievement date	Comments
01	Kick-off meeting	7	TTZ	1	Yes	2	-
02	Web site on line	6	TTZ	3	Yes	3	-
03	Definition of criteria and parameters	1	OEKO	3	Yes	5	-
04	Regional evaluation	2	ENDA/IAGU	8	Yes	8	-
05	Guide for identification of suitable ISWMS	3	ICANDO	11	Yes	11	-
06	Guide for implementation of ISWMS	3	IAGU	11	Yes	11	-
07	Mid-term meeting	7	ENDA	12	Yes	13	-
08	Guidelines for participatory planning processes in ISWM	4	OEKO	15	Yes	15	-
09	Recommendations for the development of National and Regional Action plans	4	ELRI	16	Yes	17	-
10	Case study on the municipality of MATAM	5	MATAM	21	No	21	-

IWWA

Deliverable 7.3

11	Final Conference	6	ZOOM	22	No	22	-
12	Final meeting	7	TTZ	22	No	22	-

## 4. PROJECT MANAGEMENT

### General project management (task 7.1):

After the mid-term meeting held in Dakar (Senegal) the First Periodic Report was submitted according to the DoW. After the successful completion of the periodic period a payment to all partners was initialized. All deliverables and reports from WP4 have been submitted on time and the upcoming ones from WP5 are expected to be finalized within the given deadlines. Only Deliverables 6.8 (second promotional leaflet) and 7.3 (current report) are being delayed due to organizational reasons. Following a request from the EC officer the already submitted reports of WP1 and WP2 had to be revised and amended accordingly. This amendment was also completed and the deliverables were successfully submitted back to the EC together with the submission of the Periodic Report.

Based on request of the majority of the project partners the Final meeting/conference of the project in month 22 in Accra, Ghana was re-scheduled. This was done with the approval of the EC officer. The final meeting/conference of the project will be held in month 24 in Accra, Ghana. TTZ is supporting ZOOM in the organization of the event and preparations have already been started. Due to this shift also the second leaflet and poster of the project will be a bit delayed as the consortium wants to have all details included.

Following the settlement of the dispute between the United Nations and the European Commission, it was requested by the EC officer that the United Nations University becomes a third party in the project. For this reason a second amendment to the contract was made where UNU was officially included. The allocated budget was included as part of the coordinator's budget and will be paid after completion of tasks as foreseen in the DoW. Furthermore, a shift of man-months between partners ENDA, MATAM and IAGU was necessary due to the fact that in WP2 and WP3 some of the tasks allocated to MATAM were completed by IAGU and ENDA. All other provisions and clauses of the contract remained without any change.

TTZ, as project coordinator, has been invited by the European Commission for external evaluation of the project in the beginning of 2012 in Brussels, Belgium. The exact date and time are still to be decided.

### Regional project management (task 7.2):

The Regional Coordinator, ZOOM, has been in touch with the other coordinators and the beneficiaries during the whole reporting period. They have acted as a contact point for all African partners and supported and controlled all project activities in the region. They have also monitored the overall work progress and flow to ensure timely completion of activities. When necessary ZOOM worked closely with TTZ and BIOAZUL in order to solve any problem with regards to timely completion of activities and suggest measures to overcome time overrun.

### Administrative management (task 7.3):

As Administrative Coordinator, BIOAZUL was the beneficiary in charge of requesting all necessary information to prepare the project reports and record all costs incurred by the project participants. In order to do this properly, BIOAZUL prepared and distributed on due time all necessary templates and guidance documents among the consortium members, in order to ensure the correct recording of the activities performed and the resources used during this first project period. This information was periodically requested to the project beneficiaries during the period, in order to check that all beneficiaries were using their resources properly and to avoid any unnecessary spending.

Besides, BIOAZUL prepared a guideline for the partners to register and fill in their Forms C on the FORCE platform, which was presented during the Mid-term meeting and sent to all partners in advance. BIOAZUL has been in permanent contact with all project beneficiaries in order to assess them regarding FORCE use during the reports preparation stage.