



## Activity No: P2P-1

### New tendencies in dealing with Municipal Solid Waste Management including regulatory aspects (focus on aspects of Construction & Demolition Waste)

## Report

April 2019

Version	Document Title	Author	Review and Clearance
1	P2P-1: New tendencies in dealing with Municipal Solid Waste Management including regulatory aspects (focus on aspects of Construction & Demolition Waste) Report	Francoise Bonnet Essam Nada	Anis Ismail Michael Scoullos



## THE SWIM AND H2020 SUPPORT MECHANISM PROJECT (2016-2019)

---

The SWIM-H2020 SM is a Regional Technical Support Program that includes the following Partner Countries (PCs): Algeria, Egypt, Israel, Jordan, Lebanon, Libya, Morocco, Palestine, [Syria] and Tunisia. However, in order to ensure the coherence and effectiveness of Union financing or to foster regional co-operation, eligibility of specific actions will be extended to the Western Balkan countries (Albania, Bosnia Herzegovina and Montenegro), Turkey and Mauritania. The Program is funded by the European Neighbourhood Instrument (ENI) South/Environment. It ensures the continuation of EU's regional support to ENP South countries in the fields of water management, marine pollution prevention and adds value to other important EU-funded regional programs in related fields, in particular the SWITCH-Med program, and the Clima South program, as well as to projects under the EU bilateral programming, where environment and water are identified as priority sectors for the EU co-operation. It complements and provides operational partnerships and links with the projects labelled by the Union for the Mediterranean, project preparation facilities in particular MESHIP phase II and with the next phase of the ENPI-SEIS project on environmental information systems, whereas its work plan will be coherent with, and supportive of, the Barcelona Convention and its Mediterranean Action Plan.

The overall objective of the Program is to contribute to reduced marine pollution and a more sustainable use of scarce water resources. The Technical Assistance services are grouped in 6 work packages: WP1. Expert facility, WP2. Peer-to-peer experience sharing and dialogue, WP3. Training activities, WP4. Communication and visibility, WP5. Capitalizing the lessons learnt, good practices and success stories and WP6. Support activities.



## Disclaimer:

This document has been produced with the financial support of the European Union. The contents are the sole responsibility of the implementing Consortium and can in no way be taken to reflect the views of the European Union.



## TABLE OF CONTENTS

---

<b>1</b>	<b>INTRODUCTION AND METHODOLOGY .....</b>	<b>5</b>
----------	---	----------

---

1.1	CONTEXT.....	5
1.2	AIM, FOCUS AND MEMBERS .....	6
1.3	ISSUES IDENTIFICATION .....	6
1.4	SPECIFIC FOCUS AREAS.....	7
1.5	METHODOLOGY .....	8
1.6	EXPECTED OUTPUTS .....	8
1.7	IMPLEMENTATION SCHEDULE .....	8

  

<b>2</b>	<b>PEER-TO-PEER EXCHANGE IMPLEMENTATION....</b>	<b>9</b>
----------	---	----------

---

2.1	EARLY IMPLEMENTATION PHASE.....	9
2.2	THE WEBINAR.....	9
2.3	2019 E-MAIL EXCHANGES .....	10

  

<b>3</b>	<b>INSIGHTS FOR POTENTIAL FUTURE P2P EXCHANGES ON C&amp;DW.....</b>	<b>12</b>
----------	---	-----------

  

<b>4</b>	<b>ANNEXES .....</b>	<b>13</b>
----------	----------------------	-----------

---



# 1 INTRODUCTION AND METHODOLOGY

---

## 1.1 CONTEXT

---

As part of its overall workplan - under work package (WP2), the EU-funded “Sustainable Water Integrated Management & Horizon 2020 - Support Mechanism (SWIM-H2020 SM)” project implemented a Peer to Peer activity on one of its Priority Themes: Municipal Solid Waste (focus on Construction and Demolition Waste, P2P-1).

P2P-1 was a follow-up of the project’s study tour on construction & demolition waste (ST-1) which was organised from 25 to 27 September 2017 in Brussels. The study tour was designed to inform about the state-of-the-art technology, organization and practices of handling construction & demolition waste, moving from low to high levels of recovery and recycling of construction & demolition waste, including treatment and disposal technologies taking into account also the energy demands and saving potentials. It was intended to inform about how to maximize the sustainability of construction & demolition waste management, to demonstrate that the design/processes/operations will lead to reductions in the environmental impact of construction & demolition waste and to demonstrate good/best practice in the environmental performance of site activities.

The last session of the study tour was dedicated to discussing and initiating a peer-to-peer (P2P) process for experience sharing at regional level (south-to-south, north-to-south) and knowledge transfer on specific issues on Construction & Demolition Waste management (C&DW).

The purpose of the P2P session was to assess lessons learned and success stories from the visit and to identify opportunities for consolidation of results and identification of synergies. After a presentation of the P2P process (methodology, roles, topics, outputs, timeframe, etc.), the moderators asked participants to suggest priority themes and to think about outputs and deliverables that peers will work on during a follow-up phase.

Several participants announced their interest in continuing the conversation on this theme and presented a number of potential topics that could be tackled (ex: the regulatory and normative aspects, the institutional and contractual arrangements for public-private cooperation, the aspects of financing and introduction of recycled products in the construction and public works market, etc.).

It was agreed that the choice of the topics and the candidates (countries and peers) be done in coordination with their respective countries after a debriefing on the results of the study tour with their respective ministries/institutions and in coordination with the H2020 Focal Points.



## 1.2 AIM, FOCUS AND MEMBERS

The overall aim of the Peer to Peer (P2P) activity, was to encourage direct exchange of experience between peers from relevant institutions in the beneficiary countries. More specifically:

- Provision of expertise and guidance from the Coach
- Sharing of experience among Peers on C&D Waste
- Boosting of south-to-south (also north-to-south) cooperation
- Build the cornerstones for long-lasting relations and exchanges, as opposed to one time ad-hoc exchange.

The below table summarises the focus and members of the P2P activity:

Focus of the exchange	Country Receiving Expertise/Peers contacts	Country Offering Expertise and contact persons	Coach and support
Construction and demolition waste	Mr. Chokri Nessib, MoE Tunisia (chokryncib@gmail.com); Mr. Ali Mroueh, MoE Lebanon (amroweh@gmail.com ); Mrs. Nassima Louha, MoE Algeria (Louhanassima@yahoo.fr ); Mrs. Amal Makhoulfi, MoE (m_amaldz@yahoo.fr ): Mrs. Shouhila Ladjem, Wilaya d'Alger (Souhila_117@yahoo.fr ) Mrs. Doaa Raslan WMRA, Egypt (Doya911@hotmail.com) Mr. Mostafa Hosameldin, WMRA, Egypt (Hossam01122@gmail.com)	Belgium (Brussels): Nicolas Scherrier (IBGE) Belgium (Flanders): Philippe Van de Velde (OVAM) Spain: Francesc Rufé (ARC)	Coach: Francoise Bonnet (ACR+) with support from Essam Nada (RAED), Francesco Lembo and Paolo Marengo (ACR+) Additional support from Environment KE Anis Ismail and Aikaterini Boutsikou (LDK)

## 1.3 ISSUES IDENTIFICATION

After a first exchange that took place after ST-1, the requests that were identified relate to the needed expertise to address some imminent issues/questions regarding construction and



demolition waste management at the local level (mostly a Tunisian request which however applies also for the other Peers):

Proposed Theme	Proposed Specific Topic
1. Construction and demolition waste nomenclatures	a. Documentation on construction waste nomenclatures already established in European countries
	b. Documentation on construction waste nomenclatures already established in other countries of the MENA Region
2. Use of construction and demolition waste in buildings, roads and public works	a. Documentation on specifications for the use of construction waste in buildings, roads and public works, already established in EU countries
	b. Documentation on specifications for the use of construction waste in buildings, roads and public works, already established in other countries of the MENA Region
3. Documentation on construction and demolition waste use projects in the private building sector	
4. Documentation on studies of computer decision-making tools and construction waste management assistance	

## 1.4 SPECIFIC FOCUS AREAS

Based on the issues/needs that were identified (above), and considering the available resources and time, it was proposed that this P2P would focus:

**On CDW nomenclatures:** listing, classification and recording of CDW materials in terms of their treatment options.

**On the use of CDW in buildings, roads and public works:** case studies on the reuse of CDW in buildings and in public works.



## 1.5 METHODOLOGY

---

The questions which were submitted would be subsumed under the themes as described above.

The **methodology** for conducting the peer-to-peer process was as follows:

- Implementation of an **online webinar** as an opportunity for dialogue between experts in the management of construction and demolition waste. During the webinar, peers can share the information base and specific case studies that will feed into the final report;
- Bilateral communications between the Peers via phone calls/skype conferences (facilitated if needed by the coach of P2P-1);
- Development of a Report

## 1.6 EXPECTED OUTPUTS

---

The outputs of this peer to peer exchange were expected to be:

- a webinar (ppts, etc.)
- a Peer to Peer report/document recapitulating the processes that took place throughout the activity, the main learning achievements for the Peers and knowledge products shared. The report would also include a short assessment.

It was upon the coach and the peers to determine the most appropriate means to conduct the peer to peer exchanges.

The questions asked must be within the context of the objectives and scope described above.

## 1.7 IMPLEMENTATION SCHEDULE

---

In the period between ST-1 and the launching of the P2P exchange, there were extensive bilateral email exchanges with the Focal Points for the appointment of the Peers, and afterwards with the each of the Peers in order to identify the baseline on which the exchanges would built upon.

In 2017 and early 2018, the C&DW situation in the countries was quite fluid. Tunisia seemed to be in a more stage (with ST-1 having played a key role in mobilising actions in-country).

In the end, the implementation schedule of the P2P was planned to be as presented below.

The total duration was expected to be six months ending December 2018.





Task	July/August	September	October	November	December
Development of concept note	■				
Comments on the CN	■				
Agreed concept note		■			
P2P Exchange		■	■	■	■
Webinar					■
Final Deliverable					■

## 2 PEER-TO-PEER EXCHANGE IMPLEMENTATION

### 2.1 EARLY IMPLEMENTATION PHASE

Bilateral communication with the Peers by the Coach and experts continued from September to November, when the opening-up for the exchange among the Peers was announced, to be launched via the webinar.

### 2.2 THE WEBINAR

On 22 November, the following email was sent to the Peers:

*Dear peers and partners,*

*Recently, the Tunisian Minister of Local Affairs and Environment and the Minister of Infrastructure and housing presented the vision and results of the researches made by the National School of Engineers of Tunis on C&DW.*

*We are convinced that these results are very useful for the other peers and could feed and boost the discussion under P2P-1 on C&DW (Morocco, Algeria, Lebanon and Egypt).*

*You can find attached to this mail two documents:*

- *The presentation of the vision document shared by Mr. Chokri Necib (MoE Tunisia)*
- *A concept note about the SWIM peer 2 peer process*



As a first step, we would like to invite you to attend a **web meeting**, taking place next **Friday 14<sup>th</sup> December at 10:30 am Central Europe Time**.

The web meeting will serve to fuel the debate in the group of peers on C&DW characterization, norms and fields of application.

The first input to start the debate of the web meeting will be the presentation of Chokri Necib on the vision and results achieved in Tunisia.

Furthermore, during the web meeting the peers will have the opportunity to discuss with representatives of RE<sup>4</sup>, a collaborative research project of 13 partner institutions from science and industry funded under the European Union's Horizon 2020, which is promoting new technological solutions and strategies for the development of prefabricated elements with high degree of recycled materials and reused structures from demolished buildings.

In order to attend the meeting, you have to register through the following link: <https://attendee.gotowebinar.com/register/3949282334717989377>. After registering, you will receive a confirmation email containing information about joining the webinar.

On 3 December a reminder was sent since none of the Peers had registered and again on the 13<sup>th</sup>. Since only apologies were received, the webinar was postponed to early 2019. Yet again however, a date on which all the Peers and experts could be available, could not be identified, so it was agreed to continue with e-mail exchanges.

## 2.3 2019 E-MAIL EXCHANGES

---

In February 2019 a new round of e-exchanges was launched as follows:

*“As part of its overall work plan - under work package WP2, the EU-funded “Sustainable Water Integrated Management & Horizon 2020 - Support Mechanism (SWIM-H2020 SM)” project is implementing a Peer to Peer activity on one of its Priority Themes: Municipal Solid Waste - focus on Construction and Demolition Waste P2P-1.*

*I would like to involve you in a **group mail discussion** about the topic, in order to collect some of your experiences and stories.*

*Last October, the Tunisian Minister of Local Affairs and Environment and the Minister of Infrastructure and housing presented the vision and results of the researches made by the National School of Engineers of Tunis on C&DW.*



We are convinced that these results are very useful for the other peers and could feed and boost the discussion under P2P-1 on C&DW (Morocco, Algeria, Lebanon and Egypt).

You can find attached to this mail two documents:

- The presentation of the vision document shared by Mr. Chokri Necib (MoE Tunisia)
- A concept note about the SWIM peer 2 peer process

I will appreciate **receiving your feedback in a few sentences** to the following questions:

- Are you aware of new publications, studies or policy notes on CDW management in your country or elsewhere in the region?
- Are you aware of new projects, calls for tenders or strategic decisions on existing or planned CDW treatment facilities in your country or elsewhere in the region?
- What are the main non-technical barriers in your country affecting a proper development of a market for recycled materials along the construction and demolition value chain?

**I kindly ask you to reply by the 7<sup>th</sup> of March.** I am sorry for the short deadline, but we need to complete the activity by mid-March at the latest.”

---

After a reminder on March 13<sup>th</sup>, there was one, yet important feedback from the Lebanese Peer:

**From:** Ali Mroweh [mailto:amroweh@gmail.com]

**Sent:** 13 March 2019 13:34

First of all apologies for the late reply. It has been a very busy time. With respect to your questions, in short, this is what I can answer, and I hope that the upcoming months will bring more with respect to the CDW management sector in Lebanon.

First, it is to be noted that the ISWM law (Law 80) was passed by the parliament on October 2018 (Attached). This law sets the definitions, basics for roles and responsibilities...etc. with regards to SWM. The MoE is currently drafting a SW strategy which is a direct requirement of the law, and it is expected to be sent to the Council of Ministers for approval within weeks/few months. This strategy will include recommendations for dealing with all types of solid waste including CDW. It will also divide them into legal, technical, social ...etc.

In addition, the MoE is required to make guidelines and standards for all SW types including CDW. As such, I have prepared a preliminary draft for CDW management facilities guidelines and preliminary draft for a checklist for site inspections. These are still in the early review stages at the ministry.



*I will update you in due course and I hope that this information is helpful for now.*

Best,

Ali Mroweh

### 3 INSIGHTS FOR POTENTIAL FUTURE P2P EXCHANGES ON C&DW

---

Although at ST-1 there was much interest in the setting up of a P2P exchange on C&D Waste, the engagement levels in the e-exchanges among the appointed peers did not live up to the expectations. It is the opinion of the experts and project team, that the foreseen resources of six senior non-key expert days were not sufficient to properly support a meaningful P2P exchange on such a recent and emerging need in the Partner Countries. It has become apparent that relevant teams are still in the making within the administrations of the Partner Countries, unlike on other topics (e.g. sludge management, leachate management, etc.) where e-exchanges of Peers worked sufficiently well due to the already advanced level of understanding of the matter in focus by the Peers. On the other extreme the country experts are high-level and with limited time to contribute, even though (as in the case of Lebanon) their input is very important.

Incidental resources for 1-2 physical meetings of the Peers and experts in rotation at their home bases, combined with some on-the job sessions and case-study visits may have been closer to what the needs of the countries called for in this case.

The use of a webinar, as a more interactive tool of engagement, did not work in this case either, most likely due to the planned period: December is a very busy month for administrators.

The sustainable management of construction and demolition waste is a huge challenge for the Partner Countries and expert support combined with South-South exchange of experience will remain a major need in the coming years. But a more 'person-to-person' interaction is necessary for effective knowledge transfer on this new and complex challenging issue.



## 4 ANNEXES

---

2 separate documents:

- *Vision and results of the research done by the National School of Engineers of Tunis on C&DW.*
- *ISWM law (Law 80) passed by the Lebanese Parliament in October 2018 (including on C&DW)*