



## Capacity building for the development of economic and financial instruments and incentives to promote circular and green economy and SCP in Jordan

### Expert Facility Activity No: EFH-JO-3

**Report for Task 3: Training Workshop on GGP & SCP for three sectors**  
27 and 28 November 2018  
Geneva Hotel, Jordan

#### DELIVERABLES:

- Training Modules
- Training Report with 4 sections: Modules, Power Point Presentations, Evaluation, List of Participants, etc. of each parallel theme

Version	Document Title	Author	Review and Clearance
1	Training report	Ms. Hala Mujally Mr. Abdullah Bdeir Mr. Mervyn Jones	Marta Junquera Anastasia Roniotes Anis Ismail



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

---

The SWIM and H2020 SM is a Regional Technical Support Program, funded by the European Commission, Directorate General (DG) NEAR (Neighborhood and Enlargement Negotiations), 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 Neighborhood 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.



### **Acknowledgements:**

Special thanks need to be directed to H.E. Ibrahim Al Shahahdeh, Minister of Agriculture and Environment; H.E. Ahmad Qatarneh, S.G. of Environment for their continued support. The team also expresses their gratitude to the officials at Jordan's Ministry of Environment, Ministry of Finance, Ministry of Planning and International Cooperation, Green Growth Institute, Environment Protection Fund and members of the Green Growth Committee, including but not limited to Mr. Mohammad Afanah, Ms. Shada Alsharif, Mr. Jiihad AISawa'ir, Mr. Ahmad Amra, Mr. Marshall Brown and Ms. Maha Ma'aytah.

### **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>GENERAL INTRODUCTION.....</b>	<b>7</b>
	<u>RATIONALE OF the ACTIVITY .....</u>	<u>7</u>
<b>2</b>	<b>OBJECTIVES OF THE ACTIVITY .....</b>	<b>9</b>
<b>3</b>	<b>RESULTS OF TASK 3 .....</b>	<b>10</b>
<b>4</b>	<b>CONTENT OF THE TRAINING .....</b>	<b>11</b>
<b>4.1</b>	<b>SECTOR WORKING GROUPS:.....</b>	<b>13</b>
<b>5</b>	<b>PROFILE OF THE PARTICIPANTS.....</b>	<b>20</b>
<b>6</b>	<b>EVALUATION OF THE TRAINING .....</b>	<b>21</b>
<b>7</b>	<b>ANALYSIS OF THE RESULTS OF THE EVALUATION .....</b>	<b>24</b>
<b>8</b>	<b>FINAL REMARKS .....</b>	<b>25</b>
<b>9</b>	<b>ANNEXES.....</b>	<b>26</b>
9.1	<u>Agenda.....</u>	<u>26</u>
9.2	<u>Lists of participants .....</u>	<u>28</u>
9.3	<u>Evaluation questionnaire.....</u>	<u>30</u>



## ABBREVIATIONS

---

ASEZA	Aqaba Special Economic Zone Authority
BRT	Bus Rapid Transit
CBO's	Community Based Organizations
CIFs	Climate Investment Funds
CTF	Clean Technology Fund
EBRD	European Bank for Reconstruction and Development
EDP	Executive Development Program
EE	Energy Efficiency
EIB	European Investment Bank
GAM	Greater Amman Municipality
GCF	Green Climate Fund
GEEREF	Global Energy Efficiency and Renewable Energy Fund
GGTC	Green Growth Technical Committee
GGGI	Global Green Growth Institute
IFC	International Finance Corporation
ICT	Jordan's information and communication technology market
INDC	Intended Nationally Determined Contributions
IRENA	International Renewable Energy Agency
JEF	Jordan Environmental Fund
JREEEF	Jordan Renewable Energy and Energy Efficiency Fund
KPIs	Key Performance Indicators
MEMR	Ministry of Energy and Mineral Resources
MENA	Middle East and North Africa
MoE	Ministry of Environment
MOPIC	Ministry of Planning and International Cooperation
MoT	Ministry of Transport
NEEAP	National energy efficiency action plan
NGGP	National Green Growth Plan
NGO	Non Governmental Organisation
PPP	Public Private Partnership
RE	Renewable Energy



SDGs	Sustainable Development Goals
SCP	Sustainable Consumption and Production
SCP NAP	Sustainable Consumption and Production National Action Plan
SWOT	Strengths, Weaknesses and Opportunities and Threats
UN	United Nations
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme
WBG	The World Bank Group



# 1 GENERAL INTRODUCTION

---

## RATIONALE OF THE ACTIVITY

---

The National Green Growth Plan (NGGP) approved in February 2017 in Jordan identifies six priority sectors that provide coverage of key green growth issues and opportunities: transport, water, tourism, energy, agriculture and waste. The plan has a clear vision for Jordan as a country with an expanding and sustainable economy that creates jobs, income for its citizens, contributes to achieving social inclusion and is resilient to external shocks and instability in the region. A country that provides decent work and living conditions based on an environmentally sustainable economic growth model. The Sustainable Consumption and Production National Action Plan (SCP NAP) sets up the transition to a Green Economy and is considered an important tool to prevent pollution and implement some of the Green Growth initiatives in Jordan, in particular in the areas of transport, energy efficiency, and waste.

This action will support the Ministry of the Environment in implementing the road map set in the NGGP, using the SCP NAP proposed guidelines, in particular, the development of financial instruments and incentives to promote circular economy and SCP.

Generally, access to finance is a major challenge for nearly all green projects. Green entrepreneurs suffer from severe lack of access to finance, and experienced entrepreneurs report that securing financing for their green business idea is a great challenge. Jordan's newly developed National Green Growth Plan (2017) intends to change this by addressing the key obstacles to the implementation of green projects, through solutions that include improved access to financing for green initiatives and financial tools such as tax incentives.

During a synergy workshop held in Jordan on 27 April 2017, the former Director of Jordan's Environment Protection Fund, Mrs. Hana Shihabi, indicated that the current strategic priority of the Fund is on waste management solutions.

The Director General of the Association of Banks in Jordan, Dr. Adli Kandah, pointed out that opportunities for SMEs exist thanks to agreements between commercial banks and the Central Bank, including short- and long-term loan instruments, financing fixed assets and other instruments. In fact the Association just published a study on the Role of Banks in Financing Water sector Projects in Jordan (<http://abj.org.jo/en-us/ABJs-Booklets>) (the study was 'triggered' by SWIM-H2020 SM REG-3 and P2P-6 on Green Banking).



The Executive Director of Jordan's Renewable Energy and Energy Efficiency Fund (JREEEF), Dr. Ramsi Hamzeh, explained JREEEF's support programmes for renewable energy initiatives and their intention to evaluate the possibility of supporting entrepreneurs that have business models promoting renewable energy and energy efficiency. Similarly, the Head of Projects Finance and Real Estate Investment Division in the Business Sector at the Islamic International Arab Bank, Dr. Salim Nazzal, indicated that his institution also has financial instruments that support renewable energy projects, but clarified that these were not available for individual green entrepreneurs. (White paper on the promotion of Green Entrepreneurship and Grassroots Ecological and Social Innovations in Jordan, 2017) In terms of incentives, the energy sector, for example, has developed policies to encourage good environmental practices, including the use of green building certification through standards such as LEED certification (Leadership in Energy & Environmental Design). Some resource efficient industrial equipment also benefits from tax exemptions, making them more affordable for businesses.

Funding is available from leading public institutions in Jordan such as the Ministry of Planning and International Cooperation (MoPIC) and its collaborating agencies, such as the IRADA program that assists with the preparation of feasibility studies for start-ups. National funds such as JREEEF (Jordan Renewable Energy and Energy Efficiency Fund) and JEF (Jordan Environmental Fund) have also been established to support environmental protection and conservation activities. Jordan is also the home to Oasis500, a seed investment and startup accelerator for the MENA region funded by USAID's Jordan Competitiveness Programme (JCP) and EuropeAid. Some support providers in Jordan were also able to gain access to finance from USAID-JCP for activities related to the expansion of Jordan's information and communication technology (ICT) market and its entrepreneurship ecosystem.

The Green Economy Unit at the Ministry of Environment is working on tackling green investment-related issues and challenges, including promoting the concept of green growth among stakeholders, supporting ministries in developing green growth projects, engaging the private sector in the green development process, tackling environmental and resource limitation challenges and setting the grounds to convert them into business opportunities in a sustainable manner.

It is all of the above on-going efforts that EFH-JO-3 will strengthen. More specifically, it will directly support the MoE in implementing the road map set out in the National Green Growth Plan, using the guidelines proposed in the SCP National Action Plan and in particular, the development of financial instruments and incentives to promote circular economy and SCP in Jordan.





## 2 OBJECTIVES OF THE ACTIVITY

---

The main aim of this activity is to strengthen the capacity of the targeted stakeholders so they are more able to identify, develop and promote green investments, overcoming current obstacles, including - but not limited to - finance opportunities and options.

The specific objectives of this activity are:

- To build the capacities of relevant stakeholders so they:
  - ✓ have a better understanding of the National Green Growth Plan and the SCP National Action Plan, and how these national plans are directly linked to supporting green investments;
  - ✓ can identify green investment opportunities and develop initial concept notes of project proposals.
  - ✓ are more able to access available project financing tools/opportunities.
  - ✓ have a better understanding of projects financing / funding cycles (donor/agency specific).
  - ✓ are able to design/form successful Public Private Integration models.
  
- To enhance the enabling environment for private sector engagement in the fields of Waste, Transport and Energy Efficiency.

After having completed the needs assessment survey under Task 2 of this activity; several topics were agreed upon in close collaboration with the Ministry of Environment's assigned work group that consisted of members from the Policy and International Cooperation Department, Green Economy Department, Environment Protection Fund and Global Green Growth Institute.

The specific topics and training material were all carefully selected to be relevant in context and comprehensive in nature covering the diverse technical backgrounds and level of expertise the participants may have.



## 3 RESULTS OF TASK 3

---

### 3.1. RESULTS AND OUTCOMES OF TASK 3

---

The following expected results were meant to be achieved by the activity:

1. A better enabling environment for the implementation of the Green Growth Plan, the SCP National Action Plan and Jordan's Environment Protection Fund (Ministry of the Environment).
2. Enhanced key stakeholder capacities on circular economy and SCP principles to prevent pollution and to enable the emergence of green jobs, green businesses, and new business models.
3. At least two project proposal concept notes are developed with the support of the SWIM-H2020 SM experts that include PPPs.

**These results were to be reached through several tasks, one of them being task 3: Conduct a three-day training workshop for at least 30 trainees on GGP & SCP for three sectors transport, energy and waste sector. The specific outcomes for this task being:**

Outcome 1: Training course is developed.

Outcome 2: Training course is delivered for each sector and on Green financing (policy needs, financial incentives and instruments).

After the thorough discussions and consultations with the Ministry of Environment and their assigned work team, and after other consultations with the stakeholders of the activity; it was agreed that the workshop runs on two-days format rather than three-day format. Reasons included that participants would not be able to commit to a three-day training during weekdays and would not be in their best interest to partially attend. Extra time on the two days was utilized to deliver the content and exercises to ensure that the objectives of the training are achieved and that the participants receive a sufficient amount of knowledge and participation.



## 4 CONTENT OF THE TRAINING

The training took place the days 27 and 28 of November 2018 at the Geneva Hotel in Amman, Jordan. The modules were developed based on a capacity building needs assessment of the three sectors, which was conducted as part of Task 2 of this activity<sup>1</sup>. Key areas of focus included:

- Sustainable consumption and production
- Green growth
- Green public procurement
- Circular economy
- Circular procurement
- Sector specific knowledge sharing for: waste, energy and transportation sectors

The outline, presented in Table 1 below, explains the specific topics each of the modules addressed.

TABLE 1: WORKSHOP 1 OPTIONS FOR MODULES AND CONTENT

Module option	Outline content	Note
<b>Sustainable Consumption &amp; Production principles</b>	<ul style="list-style-type: none"> <li>• Global Sustainable Development Goals (SDGs)</li> <li>• Main SCP principles</li> <li>• Examples of SCP Instruments (e.g. ecodesign, labelling, eco-innovation etc)</li> <li>• Some international case study examples from Europe etc</li> </ul>	<ul style="list-style-type: none"> <li>• Would include discussion (Q&amp;A) session to get participant views and gauge current level of knowledge and activity.</li> </ul>
<b>Green Growth</b>	<ul style="list-style-type: none"> <li>• World Bank definition</li> <li>• Basic concepts (why we need it, how it relates to SD etc)</li> <li>• GG constraints and policy options</li> <li>• Green growth at a sectoral level (waste, transport, energy etc)</li> </ul>	<ul style="list-style-type: none"> <li>• Would include discussion (Q&amp;A) session to get participant views and gauge current level of knowledge and activity.</li> </ul>
<b>Introduction to SCP and GPP in Jordan</b>	<ul style="list-style-type: none"> <li>• SCP plan for Jordan</li> <li>• Green Growth Plan for Jordan</li> <li>• Legal &amp; regulatory context</li> <li>• Opportunities &amp; Challenges</li> <li>• Case Study examples from Jordan</li> </ul>	Suggest that this follows SCP & GPP modules to provide national context
<b>Green Public Procurement (GPP) overview</b>	<ul style="list-style-type: none"> <li>• Definition of GPP</li> <li>• Drivers &amp; benefits of GPP</li> <li>• Challenges for GPP</li> <li>• GPP principles</li> <li>• ISO20400 Principles</li> <li>• Good practice examples from Europe &amp; MENA2</li> </ul>	<ul style="list-style-type: none"> <li>• Would include discussion (Q&amp;A) session to get participant views and gauge current level of knowledge and activity.</li> <li>• Possibly include basic GPP exercise (e.g. maturity matrix or Building an Organisational Action Plan)</li> </ul>

<sup>1</sup> A full description of the results is documented in Task 2 report



<b>Circular economy</b>	<ul style="list-style-type: none"> <li>• Circular economy principles</li> <li>• Benefits of Circular Economies</li> <li>• Procurement as a CE instrument</li> <li>• Circular Business Models</li> <li>• Sectoral examples</li> <li>• Challenges and solutions</li> </ul>	<ul style="list-style-type: none"> <li>• Include ice breaker exercise</li> <li>• Include plenary session</li> </ul>
<b>Circular procurement</b>	<ul style="list-style-type: none"> <li>• Procurement as a circular economy instrument</li> <li>• Strategic CP and principles</li> <li>• Sectoral examples of CP in action</li> </ul>	<ul style="list-style-type: none"> <li>• Note: this differs in approach to GPP</li> </ul>
<b>Sectoral Modules</b>		
<b>Waste</b>	<ul style="list-style-type: none"> <li>• Waste hierarchy principles</li> <li>• Regulatory framework</li> <li>• Resource Efficiency principles</li> <li>• EU &amp; MENA good practice examples</li> <li>• Jordanian good practice examples</li> </ul>	<ul style="list-style-type: none"> <li>• Include discussion (Q&amp;A) session to get participant views and gauge current level of knowledge and activity.</li> <li>• Include exercise</li> <li>• Include plenary session</li> </ul>
<b>Transport</b>	<ul style="list-style-type: none"> <li>• Green growth and transport</li> <li>• Sustainable Procurement principles for transport and infrastructure projects</li> <li>• EU &amp; MENA good practice examples</li> <li>• Jordanian good practice examples</li> </ul>	<ul style="list-style-type: none"> <li>• Include discussion (Q&amp;A) session to get participant views and gauge current level of knowledge and activity.</li> <li>• Include exercise</li> <li>• Include plenary session</li> </ul>
<b>Energy efficiency</b>	<ul style="list-style-type: none"> <li>• Green growth and Energy</li> <li>• Sustainable Procurement principles for energy projects</li> <li>• EU &amp; MENA good practice examples</li> <li>• Jordanian good practice examples</li> </ul>	<ul style="list-style-type: none"> <li>• Include discussion (Q&amp;A) session to get participant views and gauge current level of knowledge and activity.</li> <li>• Include exercise</li> <li>• Include plenary session</li> </ul>
<b>Summary session for each day</b>	<ul style="list-style-type: none"> <li>• Review Aims and summary of Main Takeaways</li> </ul>	Exit poll on each day for main (or unresolved) issues

The final Agenda can be found in annex 1 of this report and is a combination of the capacity needs assessment, and consultations with different parties such as the Ministry of Environment and the GGGI. The final agenda, tried to give response to all expected outcomes from the activity, especially the ones on improving the knowledge and understanding of the key strategic documents for Jordan on SCP and Green Growth and the available financial opportunities.

The Global Green Growth Institute GGGI – a partner for the Ministry of Environment and a key stakeholder of Green Growth in Jordan who prepared the National Green Growth Plan and currently supplementing it with an Action Plan that is being prepared in close collaboration with the stakeholders – joined forces with the Activity team throughout the process of preparing for the training. The purpose of all parties was to ensure a synergy is being created. GGGI team contributed to the training workshop by presenting a brief about green growth in Jordan.

From the Ministry's side, two presentations were shared with the participants; one was presented by Mr. Mohammad Afanah about the SCP and GGP in Jordan, while the other was presented by Ms. Shada Al Sharif who shared successful practices and experiences on SCP and GGP from Jordan.

The full power point presentations can be found on the following link of the SWIM H2020 SM platform:

<https://www.swim-h2020.eu/27-28-november-2018-amman-jordan-swim-h2020-sm-training-capacity-building-for-the-development-on-economic-and-financial-instruments-and-incentives-to-promote-circular-and-green-economy-and-su/>



## 4. 1 SECTOR WORKING GROUPS:

---

### 4.1.1 TRANSPORT:



Transportation Sector Working Group; November 28, 2018. Session lead by Mr. Mervyn Jones and facilitated by Hala Mujally, SWIM H 2020 SM Experts.

The transport working group aimed to identify the need for a transport related procurement relevant to their role and organization. The six participants were a mixture of planners, strategy advisers and operations in both the Ministry of Transport, Land Transport Regulatory commission and Greater Amman Municipalities.

SWIM H 2020 SM expert, Dr. Mervyn Jones, shared a presentation reviewing the targets set for the sector in the National Green Growth and National Strategy and Action Plan for Sustainable Consumption and Production. Then, he talked about a variety of examples of successful cases and successful practices in sustainable transport from around the world. The examples aimed at building awareness and familiarizing participants with the overall projects cycle.

The group was then asked to collaborate on conducting a group activity by first conducting a SWOT analysis and then “Prioritizing Transport Actions” with the aim to help select product groups for circular procurement pilots with high opportunities for success as a successful pilot helps scaling up to common practice. The results of this activity revealed that some of the top priority actions for transportation sector in Jordan would include: (1) legal and regulatory variables such as revision of governing laws to accommodate better coordination and offer higher flexibility for engaging the private sector; (2) governance related issues such as establishing a unified public umbrella for the management and overall supervision of transport sector, with clear sharing of the various roles and responsibilities; (3) technical



and research issues that deal with producing adequate database and uniform transport statistics for further advancement and forecasting; (4) financial issues; which currently stand as a major hurdle to development within the sector; and (5) education and communication actions that aim at enhancing the level of awareness among the different stakeholders on sustainable practices and green procurement practices.

**The SWOT Transport needs were identified as:**

Strategic – clarity in, and role of, planning requirements

Financial – medium and long term budgeting (relative to Green Finance criteria requirements – often a mismatch)

Operational – benchmarking of current position; management of complex projects

Behavioral – collaboration (linked to management); informational needs and awareness /attitudes of users.

**Strengths identified included:**

- MoT strategy
- Government oriented on technical solutions (query this as a strength – Mr. Jones SWIM H2020 Expert)
- Availability of technical expertise
- Adaptability of users of system

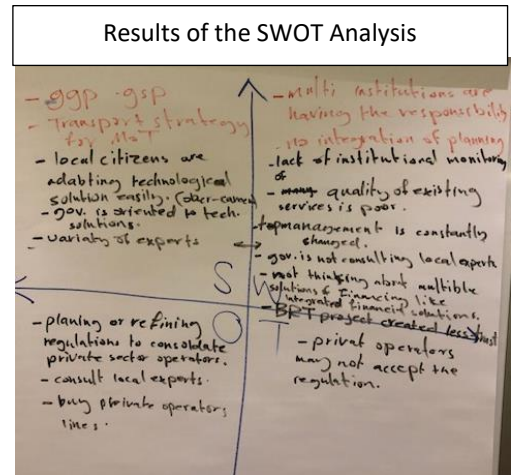
**Weaknesses identified included:**

- MoT strategy not linked to municipalities - a notable disconnect
- Multiple stakeholders and institutions with poorly defined roles and responsibilities within the sector.
- Staff churn (especially in top management roles) impacting on capacity.
- Not thinking about integrated solutions.
- Lack of consultation on local needs.

A significant opportunity lies in extending regulations to cover private sector operators but equally, a big threat is the likelihood of private sector operators accepting transport regulation to ensure smooth and effective BRT system.

Mr. Jones then shared more content on how collaboration among different actors within the sector is vital to success, then offering a brief on how monitoring and evaluation of performance is key to achieving results, growing the link to the Key Performance Indicators (KPIs) listed in the Sustainable Consumption and Production strategy and action plan and dropping questions in regards; as follows:

- How relevant are the KPI's from the Jordan SCP Action Plan to your projects?
- How will you measure these in projects?
- Who will be responsible?
- How will they be collated (by whom) and reported?







The group discussion eluded that the current KPIs would still need to be further enhanced in order to be measured, while stressing that a clearer institutional technical assignment must be achieved within the sector.

A stakeholder mapping was then performed to understand the various stakeholders interest and level of influence on the identified priority actions. With the most interested and influential parties being: the governmental institutions; local operators; service suppliers and the users. Other stakeholders included the donor agencies; procurement teams and experts.

One significant area highlighted in terms of transport capacity needed was in the adoption of GPP principles in order to ensure that products purchased as part of the BRT and wider transport projects were delivering on SCP national Plan and green growth targets in an environmentally sustainable way. A particular concern was creating unintended consequences, e.g. the adoption of e-vehicle technologies without supporting infrastructure to recover and recycle materials at end of life.

The relevant national SCP Plan are summarized as:

- Objective 1.2 Target - Provide the necessary instruments that will ensure a sustainable transport system is in place.
- Objective 1.3 Target - Collaboration at institutional level
- Objective 1.4 Target - Establish effective monitoring system
- Objective 1.6 Target - Adequate financial resources to support sustainable transport
- Objective 1.7 Target - ALL transport projects implemented according to national plans by 2025.

One of the capacity concerns raised with the indicators (KPIs) was the ability to gather robust data for some in a timely and cost effective manner, particularly in indicators 3 to 6:

1. Ratio of passengers travelling by public transport increased
2. Ratio of citizens owning zero emission and or hybrid cars increased
3. Amount of emissions to land, air or water of the product (or materials that may be associated with it) decreased
4. GHG emitted by vehicles reduced
5. Amount of energy involved in getting the product to market reduced (e.g. by weight, volume or distance)
6. Energy or water consumed when the product operated by the consumer is decreased.

The conclusions and a summary of results were then shared with the other participants.



## 4.1.2 ENERGY:

---



Energy Sector Working Group; November 28, 2018. Session lead by Mr. Abdullah Bdeir , SWIM H 2020 SM Expert.

Participants were of different backgrounds with diverse roles including representatives of the Ministry of Environment, Ministry of Energy, Chamber of Industry, Royal Scientific Society and Jordan Green Building Council (NGO) this made possible a very rich discussion.

All the participants were much focused and active expressing their views on the renewable energy field which is typical together with the efficiency component neglected sectors in Jordan.

The participant's knowledge with the National Green Growth plan and the National Sustainable consumption and production action plans were very slim. The operational objectives of the SCP AP for Jordan were discussed for the three sectors as related to energy efficiency with examples were also discussed.

There was a wide amongst the participants surprise to see that actual detailed KPIs that tied up the three sectors (transport, agriculture and waste management) to energy in its transversal issue role.

The KPIs related to energy efficiency were discussed and an example of the circular economy link to the energy efficiency exercise was performed in a group work setting. Specifically the example focused on the use of the green markets template which links supply and demand to circularity with regards to any concept. The agricultural production food processing was taken as one example.





There was good knowledge of the National energy efficiency action plan NEEAP for Jordan yet all were surprised to learn of the very little to no progress in implementation. Some issues related to hurdles for implementation were discussed. Bureaucracy was one major issue discussed and the importance of having private sector involvement in PPP schemes could help move these projects forward.

The concept of inclusivity within the circular economy framework was discussed and the Jordanian example of the moving energy initiative was presented for affordable housing energy efficiency retrofits. Community engagement for the retrofit program was discussed and main takeaways were importance of those impactful on the ground felt projects to be prioritized at national level.

The monitoring and evaluation concepts and their importance to public sector green projects implementation were discussed using the IPMVP international protocol for measurement and verification under the EVO efficiency valuation organization as well as the World Bank ESMAP program for public sector projects on green economy and energy efficiency. The option C under the IPMVP was highlighted as most suitable.

A general sense for the importance of Energy efficiency going forward was felt within the discussions which was an important takeaway given the complete focus on renewable energy at the current time.



### 4.1.3 WASTE:



Waste Sector Working Group; November 28, 2018. Session lead by Mr. Francesco Lembo, SWIM H 2020 SM Expert.

A working group on the waste sector gathered 9 participants from the various institutions that are involved in the sector such as the Ministry of Environment, Greater Amman Area and Petra Municipalities.

ACR+ and SWIM H2020 SM expert, Francesco Lembo, shared a presentation on principles underlying ISWRM – Integrated solid waste management, and then moved to present some local cases from EU countries to highlight leverages and impact of actions implemented by local, regional and national authorities. Participants then discussed on the structure of the waste hierarchy as set by Directive 2008/98/EC, and how the principles of this hierarchy can be applied in concrete terms in the Jordan context.

Participants were asked to choose a waste stream to analyze its criticality and potential for improved management. It followed a group discussion on the management of organic waste from farms in rural areas in central and northern Jordan. The main criticalities were found in the logistic support systems for the management of organic waste, linked to transport costs and the lack of small decentralized plants for composting. Another important obstacle to overcome was found in the behavior of small farmers and residents of rural areas, who are hardly inclined to implement waste sorting systems. Despite the widespread presence and commitment of bodies dedicated to the enforcement of environmental legislation such as the Rangers and the ministerial inspectors, the participants of the group shared on the urgent need to implement communication and awareness initiatives aimed at citizens and farmers.



Especially in the Amman area, local authorities have recently invested in the purchase of truck compressors that could be used to facilitate the collection of organic waste in rural areas.

Participants were then asked to refine the stakeholder mapping that was preliminary conducted through the mentioned SWOT analysis. The most significant element that emerged in this phase concerns the need to involve private subjects (companies and farmers) with a twofold objective: on the one hand, to collect inputs in order to define more effective methods of waste collection compared to the needs of private actors. On the other hand, to clearly communicate to private actors the requirements of environmental legislation and enforcement measures to discourage the worst behaviors.

The conclusions and a summary of results were then shared with the other participants.

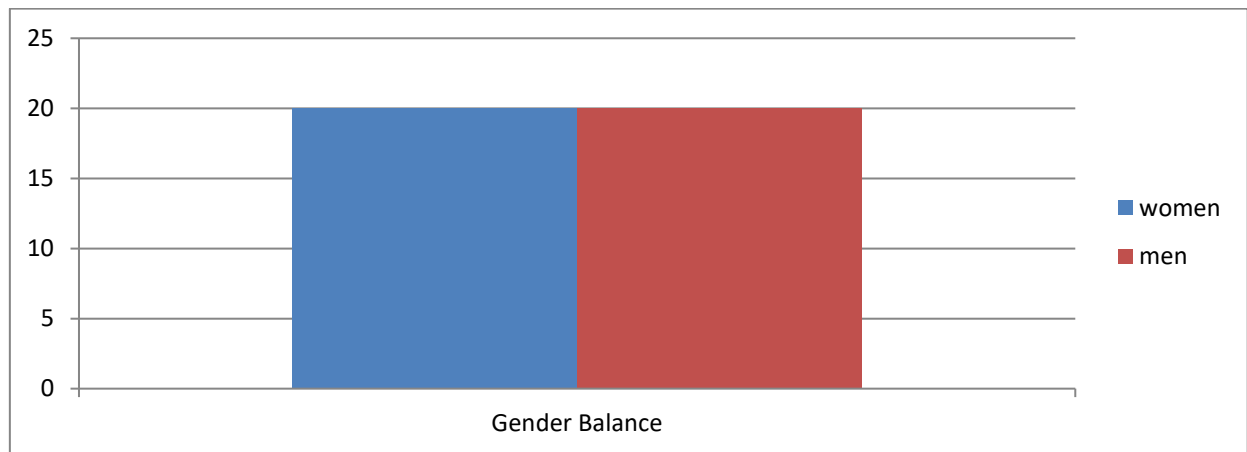


## 5 PROFILE OF THE PARTICIPANTS

---

The target group was identified in outcome 3 of task 1 (see report):

- The Green Growth Technical Committee, which is a public body within the MoE that covers the six potential green growth areas.
- Other public bodies of relevance such as the Ministry of Planning and International Cooperation, Ministry of Finance, Ministry of Industry and Trade, Central Bank of Jordan, etc.
- Non state actors: Chambers of commerce and industry, banks (including the Jordanian Banks Association), Energy Saving Companies (ESCOs), environmental NGOs, etc.



The final list of participants in annex 2 shows a very high representation of government agency officials and ministries' agents 72% and 18% of NGOs representatives, this gave the possibility of very interesting interactions between the public sector and the NGOs. They expressed the need to have more of these platforms to learn from one another and to combine efforts as they realised they were working in similar actions, initiatives.

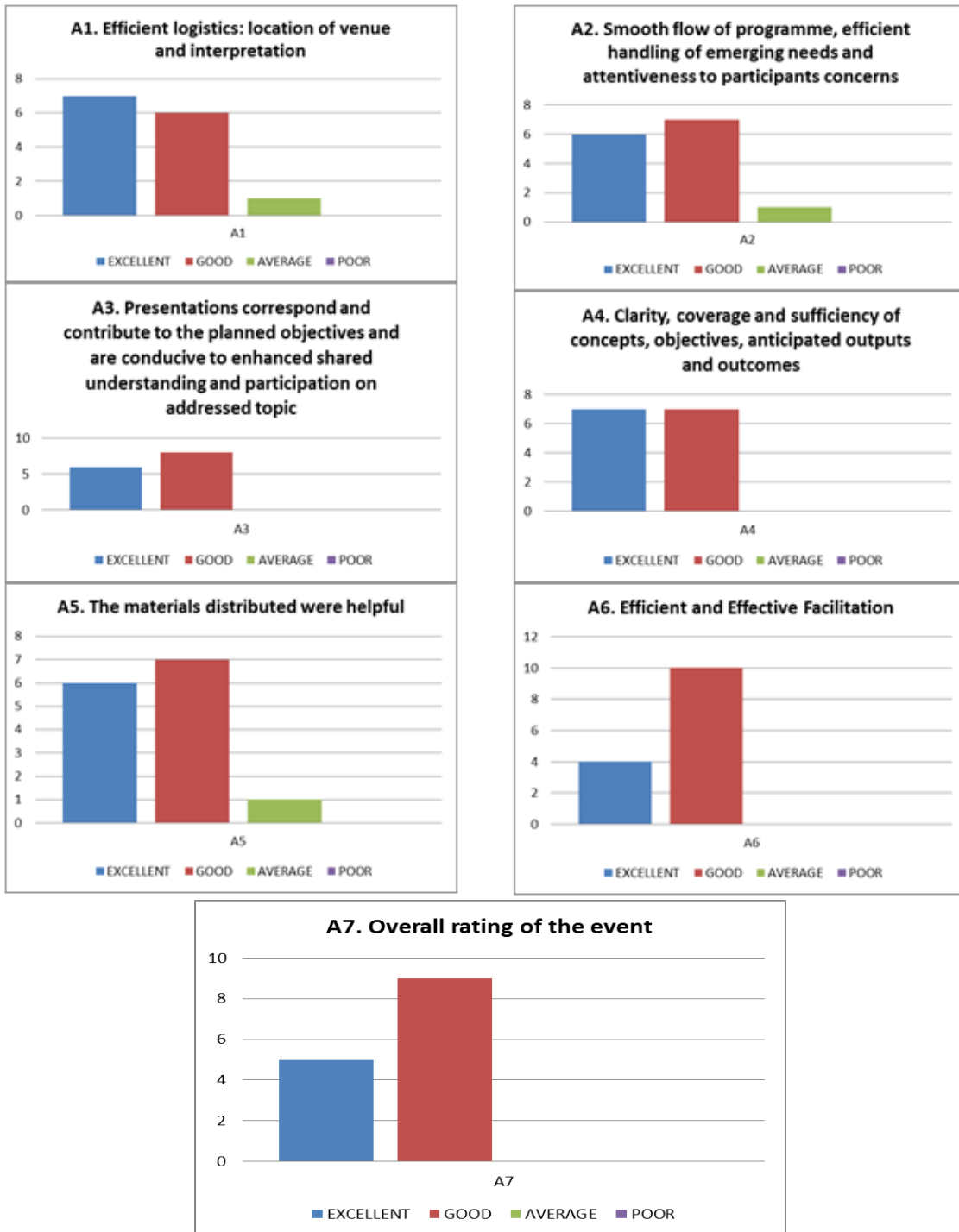
Despite the final total number on the list of 39 participants, we should point out that there was a lot of turnover and not every participant attended the entire workshop at all times, different institution's representatives would take turns throughout the training .



## 6 EVALUATION OF THE TRAINING

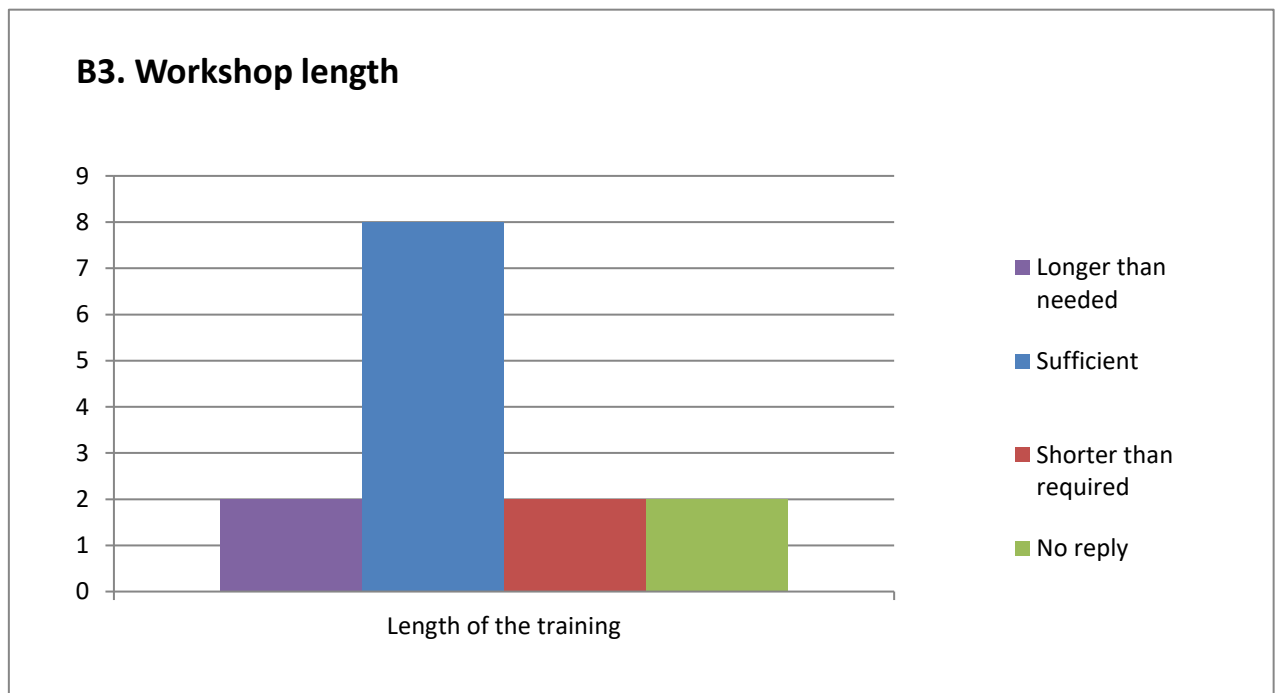
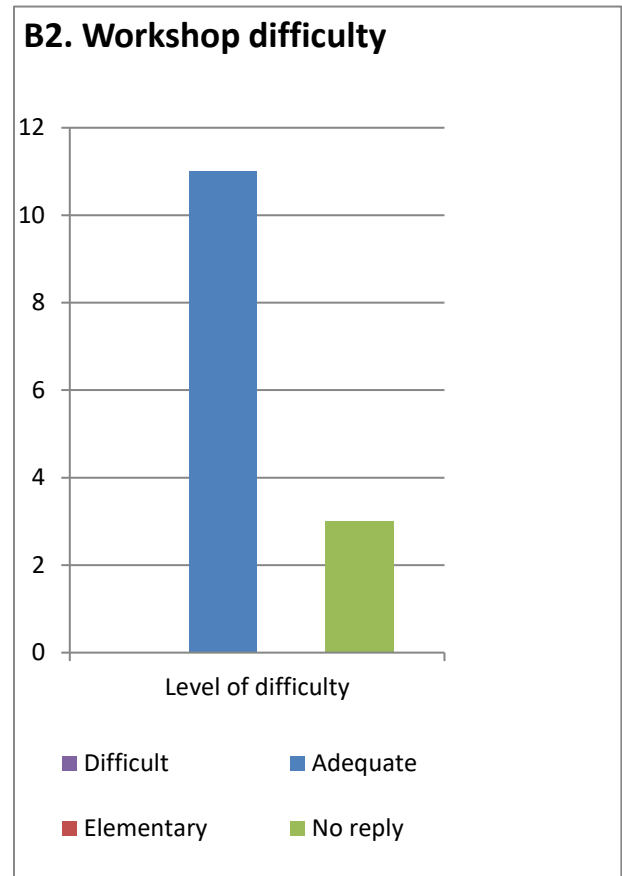
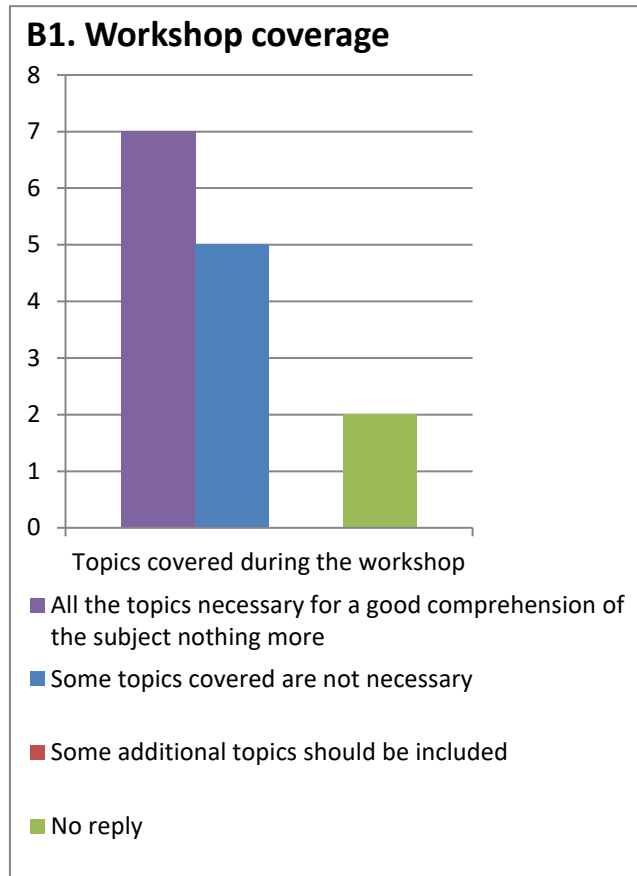
The evaluation statistics are summarized as follows: 14 participants rated the training only less than 50% of the overall attendance.

### Feedback on organizational, administrative and planning issues before and during the event





**Feedback on technical aspects:**





The evaluation results were quite positive as the overall rating of the training was good and the majority of the evaluations said that all the topics necessary for the good comprehension were covered and the length of the training was sufficient.

We want to reflect in this report the answers received when participants were asked how they thought the event could assist them in the future on the subject:

- Linking with other institutes to create new ideas & concept notes in green growth.
- Link our activities with SCP.
- Wiser, more efficient use of resources.
- Action plan to create partnership with different sectors.
- How to apply the circular economy on the waste sector.
- Cooperation based on the knowledge obtained from the workshops.
- Further thinking into green projects.
- Securing funding for projects.
- Avoid making mistakes in developing plans.

These reflect the general feeling trainers and trainees had at the end of the workshop. Very fruitful discussions took place and a lot of knowledge was shared among all the participants. For some it was the first time to really think in terms of green projects or SCP. It also gave them the space to reflect on ways to incorporate strategies and plans in their daily work. Another key aspect of the training was to give them the information on available financial instruments. This was very much appreciated, and participants had the opportunity to hear directly from Ms. Shada Shariff, director of the Jordan Green Fund. Unfortunately, not many participants from other targeted institutions such as the chamber of Commerce or the Central Bank of Jordan assisted.



## 7 ANALYSIS OF THE RESULTS OF THE EVALUATION

---

Overall the trainees declared a high level of satisfaction. The vast majority declared that the most valuable things they gained in terms of knowledge and skills were:

- Identification of terms, common knowledge among different sectors.
- Updating our knowledge & awareness, initiatives & cases applied in green growth.
- Important to start with green procurement.
- How to manage and finance projects.
- Knowledge about & differences between: Green Growth, Green Economy, and Circular Economy.
- Definition of Circular Economy, experiences from other stakeholders.

As mentioned before, they valued mostly the working in groups giving them the opportunity to discuss debate and share experiences by Sector. They also valued the trainers' work, the friendly atmosphere created during the workshops as well as the diversity in the background of participants.

- Effective participation.
- Information given.
- The important projects that were shared.
- Brekont Room' discussions, because it focused on my work interests.
- Experiences shared from others.
- Groupwork.
- How the information was presented.
- Simplicity.

According to the trainees, aspects that can be improved in future trainings are the following:

- Implement this project in a real life situation.
- How to create partnerships that include all sectors.
- More workgroups and the audience discussing their experiences, nonetheless it was a lot of information to digest in just 2 days.
- Longer workshops, with specific case studies, with a project that can actually be implemented in Jordan.
- More workshops about SCP.
- More funding and support for Jordan to reach a greener environment.

The need to organize further workshops and initiatives on the concepts of SCP and Green Economy is evident, as well as the need to create more synergies and common spaces to meet and debate about issues that affects them all.





## 8 FINAL REMARKS

---

The implementation of this task, Task 3, was successful, as objectives were met and participants were pleased with the delivered material and activities.

Moving forward, it is recommended that the following points are considered:

- Focusing awareness building activities on larger audience, including all key economic sectors from different domains.
- Focusing training efforts on the sectors but ensuring that the participants receive a preparation course of action, whether as part of the actual training or as an in-advance tool box material that is shared prior to the training.
- Measuring the learnings by running pre and post training assessments on the participants would allow for a good to for measuring performance and qualifying results.
- Engaging group activities are highly recommended, especially for technical and sector related training, allowing the participants to work on problem solving or case studies as group or pair exercises would contribute to an enhanced learning experience.
- Screening the participants by either interviewing them or running a survey before the training would help get a better view on their level of expertise, interests and challenges experienced in the workplace, hence the material preparation and delivery could be more targeted.
- Planning training activities must take into regard the busy schedules and the various activities that other entities are running to ensure high commitment of participants.
- Translation of the training material is also preferable.



## 9 ANNEXES

### 9.1 Agenda

**Day 1: 27 November 2018, 08:30 to 15:30 (Registration starts at 8.00)**

	Module	Outline content	Presenter
8.00-8.30	Registration of trainees		
8.30- 8.45	Housekeeping & Introductions to the project	<ul style="list-style-type: none"> <li>• Safety/logistical notices</li> <li>• Welcome &amp; introductions</li> <li>• Learning objectives</li> </ul>	Marta Junquera (SCP/RAC – SWIM-H2020 SM)
8.45-9.00	Opening	Opening remarks by officials	H.E. Eng. Ahmad Alqatarneh – Secretary General Ministry of Environment Mr. Omar Abu Eid Energy, Environment & Climate Change Programme Manager - EUD representative
9.00-11.00	Introduction to Green Growth and Sustainable Consumption & Production	<ul style="list-style-type: none"> <li>• Global Sustainable Development Goals (SDGs)</li> <li>• SCP REG Action Plan/SCP Action Plan for Jordan</li> <li>• Green Growth Plan for Jordan</li> <li>• Q&amp;A</li> </ul>	Mervyn Jones (SWIM-H2020 SM) Mohamed Afanah (MoE) Ahmed al Amra (GGGI)
<b>BREAK</b>			
11.15-12.45	Success Stories from Jordan and the world	<ul style="list-style-type: none"> <li>• Case Study examples from Jordan</li> <li>• International case studies</li> <li>• Q&amp;A</li> </ul>	Shada el Sharif (JEF/MoE) Mervyn Jones (SWIM-H2020 SM)
<b>BREAK</b>			
13.00-14.30.00	Circular Economy & Procurement	<ul style="list-style-type: none"> <li>• Circular Economy principles</li> <li>• Roles of local authorities and Governments in implementing CE</li> <li>• Procurement as a CE instrument</li> <li>• Case studies</li> <li>• Exercise</li> </ul>	Francesco Lembo (ACR+/SWIM-H2020 SM) Mervyn Jones (SWIM-H2020 SM)
14.30-15.00	Plenary Session	<ul style="list-style-type: none"> <li>• Group discussion on Day 1</li> <li>• Review of main takeaways</li> <li>• Outline of Day 2</li> </ul>	SWIM-H2020 SM Team
15.00	<b>LUNCH</b> Day 1 Ends		



**Day 2: Specific sector focus, 27 November 2018, 08.30 to 15.30**

	Module	Outline content	Presenter
8.30- 8.45	Housekeeping	<ul style="list-style-type: none"> <li>• Introduction to the day</li> <li>• Learning objectives</li> <li>• Any relevant notices</li> </ul>	Marta Junquera (SCP/RAC – SWIM-H2020 SM)
8.45-9.15	Day 1 Recap	Recap learnings	Marta Junquera (SCP/RAC – SWIM-H2020 SM)
9.15-10.45	Green Growth and Circular Economy	<ul style="list-style-type: none"> <li>• ISO 20400 Principles</li> <li>• Circular Business Models</li> <li>• Good practice examples</li> </ul>	Francesco Lembo (ACR+/SWIM-H2020 SM) Mervyn Jones (SWIM-H2020 SM)
10.45-11.15	Green Finance (GF)	<ul style="list-style-type: none"> <li>• Available financial instruments for Jordan</li> <li>• Challenges and opportunities.</li> </ul>	Hala Mujally (SWIM-H2020 SM)
<b>BREAK</b>			
11.30-14.15	<b>Parallel Sessions for each sector</b>		
	Waste	<ul style="list-style-type: none"> <li>• The sectors in the GGP and SCP National Strategies.</li> <li>• Sector specific instruments to deliver Green Growth</li> <li>• EU &amp; MENA good practice examples</li> <li>• Jordan good practice examples</li> <li>• Practical Exercises</li> </ul>	Maha Al-Zu'bi (GGGI )
	Transport		Francesco Lembo (ACR+/SWIM-H2020 SM)
	Energy efficiency		Mervyn Jones (SWIM-H2020 SM)
			Abdullah Bdeir (SWIM-H2020 SM)
14.15-15.00	Summary session	<ul style="list-style-type: none"> <li>• Plenary questions</li> <li>• Summary of Main Takeaways</li> <li>• Next steps</li> </ul>	Marta Junquera (SCP/RAC – SWIM-H2020 SM) and team of experts
15.00	<b>LUNCH</b>		ALL
<b>TRAINING COMPLETED</b>			



## 9.2 Lists of participants

SWIM-H2020 SM Training workshop on Promoting SCP and Green Economy for Waste, Energy and Transport sectors in Jordan"  
(EFH-JO-3)  
27-28 November 2018, Amman, Jordan

No.	COUNTRY	TYPE OF INSTITUTION (please use the options provided*)	TITLE (Mr/Ms)	FIRST NAME	LAST NAME	POSITION/ FUNCTION	ORGANISATION/ INSTITUTION	EMAIL
1	JORDAN	GOVERNMENT AGENCIES	Ms.	Hotaf	YASSIEN	Head of Green Economy Department	ASEZA	<a href="mailto:hoyassien@aseza.jo">hoyassien@aseza.jo</a>
2	JORDAN	GOVERNMENT AGENCIES	Mr.	Issa	HASANAT	Director	Petra Development and Tourism Region Authority (PDTRA)	<a href="mailto:i.mhasanat@pra.gov.jo">i.mhasanat@pra.gov.jo</a>
3	JORDAN	MINISTRY REPRESENTATIVES	Mr.	Ahmad	ABU AWWAD	Researcher	Ministry of Environment	<a href="mailto:ahmad_chem@hotmail.com">ahmad_chem@hotmail.com</a>
4	JORDAN	MINISTRY REPRESENTATIVES	Mr.	Shawky	HADDADEN		Ministry of Environment	<a href="mailto:shawkyhaddaden@yahoo.com">shawkyhaddaden@yahoo.com</a>
5	JORDAN	MINISTRY REPRESENTATIVES	Mr.	Zeyad	HAMMOUDE H	Engineer	Ministry of Energy and Mineral Resources (MEMR)	<a href="mailto:ziad.hammoudeh@memr.gov.jo">ziad.hammoudeh@memr.gov.jo</a>
6	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Abeer	RAMADNA	Head of Aid Programs	Ministry of Industry	<a href="mailto:abeer.r@mit.gov.jo">abeer.r@mit.gov.jo</a>
7	JORDAN	NGOs REPRESENTATIVES	Mr.	Alaa	ABDULLA	Executive Director	Jordan GBC	<a href="mailto:alaa.abdulla@jordangbc.org">alaa.abdulla@jordangbc.org</a>
8	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Raja	BAYER	Engineer	Ministry of Transport (MOT)	<a href="mailto:rbayer@mot.gov.jo">rbayer@mot.gov.jo</a>
9	JORDAN	GOVERNMENT AGENCIES	Mr.	Obadah	ABU QAMAR	Engineer	Land Transport Regulatory Commission (LTRC)	<a href="mailto:obadah.abuqamar@ltrc.gov.jo">obadah.abuqamar@ltrc.gov.jo</a>
10	JORDAN	MINISTRY REPRESENTATIVES	Mr.	Mohammed	KATTAM	Head of Finance	Ministry of Transport (MOT)	<a href="mailto:mkattam@mot.gov.jo">mkattam@mot.gov.jo</a>
11	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Hanin	ABU HAMRA	Engineer	Ministry of Environment	<a href="mailto:hanin_abuhamra@hotmail.com">hanin_abuhamra@hotmail.com</a>
12	JORDAN	MINISTRY REPRESENTATIVES	Mr.	Mustafa	AL ZYOD	Engineer	Ministry of Environment	<a href="mailto:mustafa.zyod@hotmail.com">mustafa.zyod@hotmail.com</a>
13	JORDAN	GOVERNMENT AGENCIES	Ms.	Rola	AL SAYAYDEH	Head of Department	Greater Amman Municipality (GAM)	<a href="mailto:rsayaydeh@gmail.com">rsayaydeh@gmail.com</a>
14	JORDAN	NGOs REPRESENTATIVES	Mr.	Yousef	MAHEJRA	Head of Social	ENV	<a href="mailto:albroui@yahoo.com">albroui@yahoo.com</a>
15	JORDAN	OTHER (including Diplomats, Consultants, Members of Parliament etc)	Mr.	Ahmed	AL ZOUBI	Rangers	PSD	<a href="mailto:ahmed_alzoubi88">ahmed_alzoubi88</a>
16	JORDAN	NGOs REPRESENTATIVES	Ms.	Jehan	HADDAD	Manager of Air Strategy	Royal Scientific Society	<a href="mailto:jehan.haddad@vss.jo">jehan.haddad@vss.jo</a>
17	JORDAN	OTHER (including Diplomats, Consultants, Members of Parliament etc)	Mr.	Ward	QATATSHEH	Economic Researcher	Jordan Chamber of Industry	<a href="mailto:ward.alqatatsheh@yahoo.com">ward.alqatatsheh@yahoo.com</a>
18	JORDAN	NGOs REPRESENTATIVES	Mr.	Rishi	BASAK	Consultant	Global Green Growth Institute (GGGI)	<a href="mailto:rishi.basak19@gmail.com">rishi.basak19@gmail.com</a>



19	JORDAN	MINISTRY REPRESENTATIVES	Mr.	Haitham	AL ZIHILI		Ministry of Environment	-
20	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Sara	ALHADEEQ	Head of Sector	Ministry of Environment	<a href="mailto:sara.alhadeeq@hotmail.com">sara.alhadeeq@hotmail.com</a>
21	JORDAN	MINISTRY REPRESENTATIVES	Mr.	Shan	TSAY	Engineer	Ministry of Environment	<a href="mailto:shan_bader@hotmail.com">shan_bader@hotmail.com</a>
22	JORDAN	OTHER (including Diplomats, Consultants, Members of Parliament etc)	Ms.	Kafya	SMADI	PR	Jordan Chamber of Commerce (JOCC)	<a href="mailto:k.smadi@jocc.org.jo">k.smadi@jocc.org.jo</a>
23	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Maha	AL MIAYTA	Head of Projects - Management section	Ministry of Environment	<a href="mailto:m_maita@moenv.gov.jo">m_maita@moenv.gov.jo</a>
24	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Hanadi	MARIE	Head of Environment Education	Ministry of Environment	<a href="mailto:hanadimarie@yahoo.com">hanadimarie@yahoo.com</a>
25	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Ansam	HAJEER	Engineer of Hazardous Substances and Waste	Ministry of Environment	<a href="mailto:ansman.hajeer@moenv.gov.jo">ansman.hajeer@moenv.gov.jo</a>
26	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Heba	ZRAYQAT	Engineer of Hazardous Substances and Waste	Ministry of Environment	<a href="mailto:hiba.zraikat@yahoo.com">hiba.zraikat@yahoo.com</a>
27	JORDAN	NGOs REPRESENTATIVES	Mr.	Sonali	TROTTIER	Strategic Communicator	Global Green Growth Institute (GGGI)	<a href="mailto:sonalitrottier@gmail.com">sonalitrottier@gmail.com</a>
28	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Raifa	JAMOUS	Engineer	Ministry of Environment	<a href="mailto:raifa.jamous@moenv.gov.jo">raifa.jamous@moenv.gov.jo</a>
29	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Rasha	QADORA	Engineer	Ministry of Transport (MOT)	<a href="mailto:r.qadora@mot.gov.jo">r.qadora@mot.gov.jo</a>
30	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Shada	AL SHARIF	Director	Ministry of Environment	<a href="mailto:shada.elsharif@moenv.gov.jo">shada.elsharif@moenv.gov.jo</a>
31	JORDAN	NGOs REPRESENTATIVES	Mr.	Ahmed	AL AMRA	Country Representative - Jordan	Global Green Growth Institute (GGGI)	<a href="mailto:ahmadamra@gggi.org">ahmadamra@gggi.org</a>
32	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Afrah	AL HAJJAJ	Engineer	Ministry of Environment	<a href="mailto:afrah_alhajjaj@hotmail.com">afrah_alhajjaj@hotmail.com</a>
33	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Asmaa	AL GHZAWI	Head of Environment Section	Ministry of Municipals Affairs (MOMA)	-
34	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Renad	AL FALEH	Engineer	Ministry of Environment	<a href="mailto:renad.faleh@moenv.gov.jo">renad.faleh@moenv.gov.jo</a>
35	JORDAN	EUROPEAN UNION DELEGATION (EUD)	Mr.	Omar	ABU EID		EU	<a href="mailto:Omar.abu-eid@eeds.europa.eu">Omar.abu-eid@eeds.europa.eu</a>
36	JORDAN	NGOs REPRESENTATIVES	Ms.	Hala	AL SHOUHA	Project Coordinator	Jordan GBC	<a href="mailto:hala.shouha@jordna.gbc.org">hala.shouha@jordna.gbc.org</a>
37	JORDAN	MINISTRY REPRESENTATIVES	Ms.	Ahlam	BADER	Head of Inspection	Ministry of Environment	<a href="mailto:ahlam.bader@moenv.gov.jo">ahlam.bader@moenv.gov.jo</a>
38	JORDAN	MINISTRY REPRESENTATIVES	Mr.	Taroub	AL ZU'BI	Head of Division of Training	Ministry of Finance (MOF)	<a href="mailto:taroub.z@mof.gov.jo">taroub.z@mof.gov.jo</a>
39	JORDAN		Mr.	Fouad	ALAMOUSH	Cooperation	RDI	-
40	JORDAN	INTERNATIONAL ORGANISATIONS AND PROGRAMMES	Ms.	Hala	MUJALLY	Expert	SWIM-H2020 SM	<a href="mailto:hala.muj@gmail.com">hala.muj@gmail.com</a>



## 9.3 Evaluation questionnaire

---

### A. ORGANISATIONAL, ADMINISTRATIVE AND PLANNING ISSUES BEFORE AND DURING THE EVENT

#### A.1. Efficient logistics: location of venue and interpretation

Excellent  Good  Average  Poor

#### A.2. Smooth flow of programme, efficient handling of emerging needs and attentiveness to participants concerns

Excellent  Good  Average  Poor

#### A.3. Presentations correspond and contribute to the planned objectives and are conducive to enhanced shared understanding and participation on addressed topics

Excellent  Good  Average  Poor

#### A.4. Clarity, coverage and sufficiency of concepts, objectives, anticipated outputs and outcomes

Excellent  Good  Average  Poor

#### A.5. The materials distributed were helpful

Excellent  Good  Average  Poor

#### A.6. Efficient and Effective Facilitation

Excellent  Good  Average  Poor

#### A.7. Overall rating of the event

Excellent  Good  Average  Poor



## B. FEEDBACK ON TECHNICAL ASPECTS

### B.1. Coverage of the event

In your opinion did the event cover (tick one of the following):

- All the topics necessary for a good comprehension of the subject nothing more
- Some topics covered are not necessary
- Some additional topics should be included

### B.2. Level of difficulty (tick one of the following):

- Difficult
- Adequate
- Elementary

### B.3. Length of the meeting

In your view the workshop duration was (tick one of the following):

- Longer than needed
- Sufficient
- Shorter than required

**B.4. What is the most valuable thing you learned during the workshop (knowledge or skills)?**

---

**B.5. How do you think that the current event will assist you in your future work on the subject?**

---

**B.6. Please indicate whether (and how) you could transfer part of the experience gained from the event to your colleagues in your country?**

---

**B.7. What did you like most about this event?**

---

**B.8. What needs to be improved?**

---

**Kindly note that some of your statements might be included in this activity's press release.**