



E-Waste Management Forum: Green Business Opportunities

23-24 November 2010
Kenzi Farah Hotel, Marrakech, Morocco

Forum Report

Partners:



ROYAUME DU MAROC
Secrétariat d'Etat auprès du Ministère de
l'Energie,
des Mines, de l'Eau et de l'Environnement
Chargé de l'Eau et de l'Environnement



KINGDOM OF BAHRAIN
Public Commission for the Protection
of Marine Resources, Environment and Wildlife



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Confederation
Federal Department of Economic Affairs FDEA
State Secretariat for Economic Affairs SECO



UNESCO
United Nations
Educational, Scientific and
Cultural Organization
منظمة الأمم المتحدة
للثقافة والعلم والتربية

Cairo
Office
مكتب
القاهرة



Basel Convention Regional Center for Training and
Technology Transfer to the Arab States.

Diamond Sponsor



Gold Sponsors



NOKIA



Platinum Sponsor



Silver Sponsors



Table of Contents

Introduction.....	3
Inaugural Session	5
SESSION I - Keynote Address – Leadership Insights	7
SESSION II - Perspective of Private Sector and NGO Enterprises	8
SESSION III – E-waste International Practices	9
SESSION IV – Funding Opportunities and Legislations	10
SESSION V – The Way Forward: E-Waste in Morocco: Status and Challenges	11
SESSION VI – International Organizations Practices	12
SESSION VII - The Way Forward: E-waste Management Programme in the Arab Region	13
SESSION VIII: Conclusions and Recommendations.....	14
ANNEX I: FORUM PROGRAMME	16
ANNEX II List of Participants.....	18
ANNEX III: Inaugural Speech, Morocco Clean Production Centre (CMPP), Ms. Hanan Hanzaz.....	23
ANNEX IV: Inaugural Speech, Intervention de Madame le Secrétaire Général du Ministère de l'Industrie, du Commerce et des Nouvelles Technologies	25
ANNEX V: Inaugural Speech , Sustainable Development Committee (CGEM), Mr. Saïd Mouline	27
ANNEX VI: Inaugural Speech, United Nations Environment Programme, Mr. Fareed Busheri	29
ANNEX VII: Inaugural Speech, Centre for Environment and Development for the Arab Region and Europe (CEDARE), Dr. Hossam Allam.....	31
ANNEX VIII: Inaugural Speech, StEP Initiative, Ms. Jean CoxKearns	32

INTRODUCTION

1. The Second **E-waste Management Forum: “Green Business Opportunities”**, was held in Marrakech, Morocco on 23-24 November 2010. The Forum was organized by the Centre for Environment and Development for the Arab Region and Europe (CEDARE), the United Nations Environment Programme (UNEP/ROWA), the UNU/StEP Initiative and the Moroccan Cleaner Production Centre (CMPP).
2. Based on the success of the First E-waste Management Forum: “Circulating Success” that was held in 2009 in Cairo, Egypt; the Forum pilots and calls for innovative and competitive solutions in electronic waste management (e-waste) to create green business opportunities.
3. The main objective of the Forum was to showcase how e-waste helps achieve considerable breakthroughs in generating business opportunities, conserving natural resources, adding value and creating jobs along the supply chain, and abating health and environmental hazards effects, by presenting lessons learned and success stories. A key objective of this Forum was to share knowledge about E-waste management success stories, from an international, regional, and national perspective.
4. The Forum was inaugurated with speeches by Mr. Abdelrahim Shakkour, Morocco, Mr. Mohamed Benyahia, State Secretariat for Water and Environment, Morocco, Mr. Saïd Mouline, President of the Sustainable Development Committee, General Confederation of Moroccan Enterprises (CGEM), Ms. Hanan Hanzaz, Morocco National Cleaner Production Centre (CMPP), Mr. Fareed Bushehri, United Nations Environment Programme/Regional Office of West Asia (UNEP/ROWA), Dr. Hossam Allam, Centre for Environment & Development for the Arab Region and Europe (CEDARE), and Ms. Jean Cox-Kearns, StEP Initiative.
5. Participants were constituted by executive levels entrepreneurs from the ICT private sector enterprises, ICT governmental organizations, environmental affairs organizations, and non-governmental organizations.
6. More than 120 participants attended the Forum from 14 countries, representing various governmental organizations, private sector enterprises, and non-governmental organizations in addition to representatives from international and regional organizations.
7. The Forum has concluded with the below recommendations:
 - Urging the Arab countries to evaluate the current situation concerning regulations and legislations related to the e-waste issue in order to enhance the actions required to face this challenge.
 - Benefiting from the multi-stakeholder partnerships which were established to implement the necessary policies and incentives required for sound environmental management of e-waste in the Arab region.
 - Establishing a productive partnership and creating future commercial opportunities between the concerned national, regional and international parties, including

Forum Partners

- Ministry of Industry, Trade and New Technologies
- State Secretariat for Water and Environment
- Morocco National Cleaner Production Centre (CMPP)
- General Confederation of Moroccan Enterprises (CGEM)
- Centre for Environment and Development for the Arab Region and Europe (CEDARE)
- United Nations Environment Programme (UNEP/ROWA)
- United Nations Educational, Scientific, and Cultural Organization
- Solving the E-waste Problem (StEP) Initiative
- Basel Convention Regional Centre for Training and Technology Transfer for Arab States (BCRC-Cairo)
- World Bank

governments, industrial sector, private sector, non-governmental organizations, financial institutions, research and academic centers and international organizations.

- Establishing awareness campaigns to increase awareness regarding opportunities and incentives within the efforts of the countries to transfer to green economy as in managing the e-waste issue. This transfer would be done in cooperation with the National Cleaner Production Centres and any other concerned party.
- Calling upon the United Nations Environmental programme (UNEP), and the Centre for Environment and Development for the Arab Region and Europe (CEDARE), and the Regional and International Organizations, in cooperation with the National Cleaner Production Centres to provide technical and logistical support concerning the sound environmental management of e-waste.
- Calling upon Funding parties to provide financial support in order to support projects aiming to enhance the environmental sound management of e-waste.
- Urging industrial associations in the Arab countries to force the producers and distributors in applying Extended Producer Responsibility framework.
- Call upon producers and distributors of electronic and electrical equipments to provide effective support in the collection and recycling of e-waste through participating in technology transfer and providing technical and financial support.

INAUGURAL SESSION



8. **Ms. Hanan Hanzaz, Morocco National Cleaner Production Centre (CMPP)**, started by welcoming the distinguished participants and thanking the supporting partners and sponsors for taking part in this valuable meeting, which shows consensus on discussing this issue to develop constructive partnerships and arrive at concrete recommendations. Ms. Hanzaz stressed that Morocco strongly supports policies that aim at sustainable development, including the issue of hazards of e-waste and its treatment.

9. **Mr. Abdelrahim Shakkour, Ministry of Industry, Trade and New Technologies, Morocco**, welcomed the partners and participants and wished them a successful meeting, on behalf of H.E. Ms. Mounia Boucetta, General Secretary, Ministry of Industry, Trade and New Technologies, Morocco, who could not attend the Forum due to unforeseen commitments. Mr. Shakkour stated that the Forum is in concomitance with Morocco's vision of sustainable development, which is being disseminated, nationwide through CMPP, as a model for public-private partnership. Environmental and waste management are issues of great concern currently, which require better cooperation and exchange of expertise through the platform provided by the Forum. Hazards of waste require an innovative approach in waste management to tackle the problem, with regard to environmental considerations.



10. **Mr. Mohamed Benyahia, State Secretariat for Water and Environment, Morocco**, expressed his delight to share the opening of the Forum, which promotes exchange of success stories and best practices to improve the management of waste, among different partners and stakeholders. Mr. Benyahia stressed that E-waste management is a topic of paramount importance now, due to its hazards on the environment and public health. Consequently, a recovery process as in the recycling of e-waste should be considered a source of wealth, as illustrated in the case of Morocco. Mr. Benyahia explained that Morocco generates 30,000 tons of waste, and exports 7.7 billion dirham from recycled waste, noting that Morocco is a member of the Basel Convention. Currently, Morocco has 10 sustainable dumpsites and has recently allocated 40 billion dirham for the national recycling program, which aims to enhance waste collection and recycling by 20%. Mr. Benyahia further stressed on the importance of private sector involvement in the recovery process, with regards to the economic, social and legal (regulatory) aspects for improved e-waste management.



11. **Mr. Saïd Mouline, General Confederation of Moroccan Enterprises (CGEM)**, welcomed the participants and partners and stressed on the importance of green economy as an emerging field



in Morocco, which requires awareness-raising among all stakeholders in the various sectors. Within this context, E-waste and hazardous waste are considered a challenge, which necessitates implementing environmental protection to reduce impacts on health and the environment. Mr. Mouline explained that CGEM aims at supporting the “green economy” action plan in Morocco by developing partnerships to promote environmental protection by adopting cleaner production processes, for which the Morocco National Cleaner Production Centre (CMPP) provides technical assistance, and has contributed significantly to the adoption of cleaner production processes by many Moroccan industries.

12. **Mr. Fareed Bushehri, United Nations Environment Programme/Regional Office for West Asia (UNEP/ROWA)**, conveyed the best wishes of Dr. Habib El Habr, Representative and Regional Director of the United Nations Environment Programme (UNEP), Regional Office for West Asia (ROWA) for a successful Forum. Mr. Bushehri pointed that UNEP is a strategic partner with stakeholders at the national, regional and international levels, such as the Centre for Environment and Development in the Arab Region and Europe (CEDARE), the Morocco National Cleaner Production Centre (CMPP) and the StEP Initiative, among others. Mr. Bushehri highlighted that this Forum builds upon the First E-waste Management Forum, held in Cairo, Egypt in 2009, by developing multi-stakeholder partnerships, which will promote awareness-raising and create opportunities for cooperation on the regional and international levels.



13. Mr. Bushehri further encouraged the relevant stakeholders to capitalize on the opportunities provided by the Forum, as a platform to assess the current state of guidelines, legislations, regulations and other appropriate legal instruments to address the e-waste problem, and to utilize the effective multi-stakeholder partnerships to implement the necessary policies and incentives to effectively monitor and manage e-waste in the region.

14. **Dr. Hossam Allam, Centre for Environment & Development for the Arab Region and Europe (CEDARE)** welcomed the distinguished participants and partners on behalf of H.E. Nadia Makram Ebeid, Executive Director of the Centre for Environment and Development for the Arab Region and Europe (CEDARE). Dr. Allam highlighted that CEDARE identified E-waste as an emerging challenge that called for urgent consideration, and has established strategic partnerships with various stakeholders; such as UNEP, CMPP, StEP Initiative and EMPA among others, to enhance the status of E-waste management in the Arab region. As part of this initiative, CEDARE and UNEP partnered in conducting the first “E-waste Assessment Study in the Arab Region” in 2009; which recommended the need to establish a knowledge base and improve relevant legislations, with special regard to the trans-boundary movement of waste.



15. Dr. Allam added that CEDARE and UNEP identified the E-waste Management Forum as an important platform for the exchange of knowledge among local and international partners and the engagement of the private sector leading to the enhancement of the E-waste management status at the regional level.
16. **Ms. Jean Cox-Kearns, StEP Initiative**, highlighted that E-waste is one of the fastest growing components of the global waste stream, estimated at 42 million tons generated annually, which calls for the need to develop an international strategy to reduce waste and enhance its sustainable treatment. In this context, the StEP Initiative was created in 2004 as a multi stakeholder initiative, with the aim of introducing environmentally, economically and socially sound approaches to reduce and sustainably manage the flows of e-waste globally. This contributes to abating the hazardous effects of waste to health and the environment, as well as creating green business opportunities.

SESSION I - KEYNOTE ADDRESS – LEADERSHIP INSIGHTS



18. The aim of this session was to offer insight on how leading enterprises deal with environmental issues, especially E-waste management; three keynote panelists presented the practices of their enterprises. The session was chaired by Mr. Saïd Mouline, President of the Sustainable Development Committee, CGEM.

19. **Mr. Abdellaziz Abarro, MANAGEM Group, Morocco**, presented Managem’s corporate social responsibility (CSR) programme, as an engine for local development to support Morocco’s national development policies. He indicated that the CSR programme aim to create green business opportunities through providing infrastructure projects, establishing partnerships with local communities, funding adult-literacy programmes,. Mr. Abarro highlighted that Managem places environmental protection as one of its main priorities to eliminate waste and apply best practices in waste management. As part of its CSR strategies aimed at sustainable waste management, Managem initiated in 2002, in cooperation with Al-Jisr Foundation the “Green Chip Project”, as the first project of its kind in Morocco for e-waste recycling.



20. **Mr. Abdallah Deguig, the Federation of Information Technologies, Telecommunications and Off-shoring (APEBI)**, presented APEBI’s contribution to the emerging e-waste sector in Morocco, as well as Morocco’s current strategies on e-waste management. APEBI is a federation of 300 business units of SME’s and micro SME’s. Mr. Deguig explained that Morocco has high rates of electric and electronic equipment consumption (1.5 million pieces) and high turnover in the IT and telecom sectors (7.5 billion dirhams). These figures are likely to soar due to the current policies adopted by the Moroccan government; such as the “Strategy on Digital Industry-2013”, which will increase the amounts of generated waste. Accordingly, e-waste recycling should be promoted, especially through the formal sector, by providing incentives, incorporating cleaner consumption and production principles, encouraging efficient use of resources and energy and introducing recycling initiatives.

21. **Mr. Michel Pochitaloff-Huvale, IBM**, presented IBM’s approach in the Management of Products’ End of Life (EoL), by managing the “recycling loop” and maximizing the recovery process, through resource utilization. Mr. Pochitaloff-Huvale also discussed the challenges faced in this sector, as well as the actions needed to minimize these challenges.

SESSION II - PERSPECTIVE OF PRIVATE SECTOR AND NGO ENTERPRISES



22. This session aimed at presenting the various initiatives adopted by private sector enterprises and NGOs to address the e-waste challenge, at the national and regional levels. The session was chaired by Mr. Ryad Mezzour, Sustainable Development Committee/ General Confederation of Moroccan Enterprises (CGEM). This session had six panelists from Dell, HP, Nokia, Orange, EERC, and recycle IT enterprises

23. **Mr. Herve Guilcher, HP EMEA**, presented HP's approach to e-waste, being a market leader in e-waste recycling and "take-back" programmes. HP has active "reuse" and recycling programmes in 55 countries (1 million tons of take back equipment, as well as 300 million inkjet cartridges). Mr. Guilcher highlighted that HP implements collection and recycling policies, based on established international standards: by developing a business model; collection of complete products; creating adequate dismantling facilities and providing support to national authorities. These standards are the basis for HP's engagement in e-waste projects regionally, especially in Africa, where HP cooperates with strategic partners to create tailored and sustainable solutions for waste management.



24. **Ms. Ulrike Vott, Nokia Markets Middle East and Africa, UAE**, presented Nokia's initiatives as a market leader in mobile phone recycling, based on Nokia's lifecycle philosophy, providing solutions to close the digital gap. Ms. Vott highlighted that Nokia applied material phase-out in devices, ahead of legislative directives and introduced "take back" programmes in more than 85 countries, along with awareness raising campaigns at the local level. Nokia's approach in the Middle and Africa is based on implementing localized solutions for sustainable development, by creating green business opportunities: "Enabling via Green ICT".



25. **Ms. Jean Cox-Kearns, Dell**, presented Dell's global recycling activities and take-back programmes as well as the challenges and opportunities in Africa and the Middle East in particular. Ms. Cox-Kearns explained that E-waste solutions call for the adoption of a holistic approach, and developing industries for recycling, which apply global standards to drive recovery rates.

26. **Ms. Catherine Flouvat, Orange/France Telecom**, presented the CSR policies adopted by Orange, including best practices in Africa and the Middle East, where Orange is active in 21 countries of the MENA region. Orange's best practices include conducting an assessment of Orange's e-waste share in developing countries, evaluating ICT EEE trends and launching projects at the local level, such as the Mobinil (Egypt) initiative for battery collection, computer disassembly and repair in cooperation with CID Consulting and the Spirit of Youth NGO. Ms.

Flouvat explained that e-waste solutions require providing incentives to the consumer, and integrating the informal sector to introduce recycling at the local level, based on a business model.

27. **Mr. Ahmed Salem, EERC, Egypt**, introduced the activities of EERC as the first Egyptian company in the field of IT equipment recycling and refurbishment. EERC is also active in the dismantling of e-waste equipment and cooperates with various national authorities, private sector companies and NGO's.

28. **Mr. Ahmed Buhazza, Recycle IT, Good Word Society, Bahrain**, introduced the Recycle IT project as a public-private partnership success story in Bahrain. Recycle IT is based on implementing recycling activities through capacity building and awareness-raising. The project also supports national initiatives for capacity building and environmental protection.



SESSION III – E-WASTE INTERNATIONAL PRACTICES



29. This session aimed at identifying the practices adopted by organizations that are active on international levels at addressing the e-waste challenge, and their engagement at the national and regional levels. The session was chaired by Mr. Fareed Bushehri, United Nations Environment Programme (UNEP/ROWA). The session had three panelists from EMPA (Switzerland), StEP Initiative, ISACA, and Spear Ink

30. **Ms. Jean Cox-Kearns, StEP Initiative**, presented the core principles of the StEP Initiative, which was established in 2004 by the United Nations University (UNU), to reduce e-waste flows and disseminate best practices. Ms. Cox-Kearns discussed the dangers of the inappropriate disposal and treatment of e-waste (backyard processes), resulting in toxic emissions, soil and water contamination and health problems. StEP tackles the challenges of e-waste disposal by promoting the principles and best practices of “Redesign, Reuse, Recycle”.



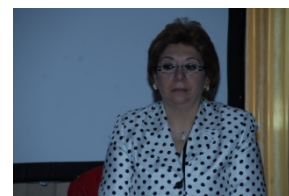
31. **Mr. Mathias Schlupe, EMPA, Switzerland**, presented the mandate of EMPA in assisting e-waste management systems, on national and regional levels. Mr. Schlupe cited the activities of EMPA in Africa, indicating that the increase in volumes will result in the growth of the informal sector if proper measures are not taken to tackle the e-waste challenge. Mr. Schlupe further discussed best practices in Europe, Asia and Africa, as well as the feasibility and profitability of establishing recycling businesses tailored in African countries.

32. **Mr. Essam Hashem, Spear Ink, Egypt**, presented the philosophy behind the Spear Ink Project, which is based on the “reuse” principle, as one of the solutions to the e-waste challenge. Spear Ink remanufactures ink and toner cartridges. Spear Ink identified this field in particular due to the high hazardous and toxic content in the ink and toner cartridges, which places a strain on the environment in the production and disposal processes. The refurbishing, reuse and remanufacturing of cartridges offer a sustainable solution in reducing the amounts of e-waste.
33. **Mr. Adel Al-Alawi, ISACA, Bahrain**, presented the emerging issues of IT asset disposition, in terms of data security. Mr. Al-Alawi discussed the importance of recycling the hard disk drive to prevent identity theft, according to academic case studies. This is highly recommended in Africa, which is considered the one of the top areas for dumping e-waste, and accordingly the most prone area to information and identity theft.

SESSION IV – FUNDING OPPORTUNITIES AND LEGISLATIONS



34. This session aimed at identifying funding opportunities through regional and international bodies, to support the current initiatives at addressing the e-waste challenge. The session was chaired by Mr. Jean Luc Bernard, UNIDO Representative at Morocco..
35. **Ms. Nehal El-Kouesny, World Bank**, presented the “Egypt success model” as part of the World Bank Public Information Centers (PIC’s), in cooperating with civil society to discuss development priorities and identify relevant stakeholders, at the local level. PIC’s aim to disseminate development knowledge and initiate development dialogue, to raise public awareness and engage civil society, by identifying appropriate local partners. The World Bank is particularly active in the ICT sector, by developing the “ICT Sector Strategy” to address key climate change and environment cross-cutting issues.



36. **Mr. Mathias Schluep, SECO, Switzerland**, presented SECO’s objectives in fostering global economic development cooperation. SECO’s activities are particularly focused on Egypt, Ghana and South Africa; as well transition countries and emerging Asian markets. SECO activities aim at supporting the global supply chain by improving the export capacity of SME’s and implementing trade promotion projects. The E-waste Recycling Programme has been of particular importance to SECO’s scope of activities, and is currently being expanded to the “Sustainable Industries for Secondary Resources” Programme, with a pilot project in Bangalore, India. Mr. Schluep indicated that facing the e-waste challenge necessitates the development of a



cooperative structure to integrate the informal sector, and develop recycling structures and management systems as part of a public-private partnership.

37. **Mr. Mostafa Kamel, Basel Convention Regional Centre, Egypt**, presented BCRC-Egypt activities in the e-waste field in the Arab region. Since 2007, BCRC-Egypt implemented pilot projects for the assessment of e-waste recycling and established facilities across the region, awareness-raising activities as well as assisting countries in e-waste management and planning. BCRC-Egypt was also active in conducting e-waste assessment in Mediterranean Arab countries in cooperation with focal points of the Basel Convention.



SESSION V – THE WAY FORWARD: E-WASTE IN MOROCCO: STATUS AND CHALLENGES



38. This session aimed at identifying the current state of e-waste in Morocco, as well as the current e-waste management initiatives adopted by the government or the private sector enterprises. The session was chaired by Mr. Khalid Missaoui, Sustainable Development Committee of CGEM. The session had six panelists from CMPP, Managem, Al Jisr Association, VALDEME, ENIM, and IVSEP.

39. **Ms. Hanan Hanzaz, Morocco Cleaner Production Centre (CMPP)**, presented CMPP's mission in Morocco. CMPP was established in 2000 to assist national industries, especially SME's in adopting cleaner production processes, promoting efficient use of resources and transfer of environmentally sound technologies. CMPP provides capacity building and technical assistance, facilitates information dissemination, environmental assessment, technical consulting for chemical management and environmental management systems. Ms. Hanzaz pointed out that CMPP has successfully implemented activities related to the improvement of e-waste management in Morocco, including the "Study on E-Waste Management in Morocco"; which proposed a roadmap for the improvement of e-waste management and facilitated the establishment of two pilot recycling and valorization units in cooperation with EMPA and IVSEP.



40. **Mr. Abderahmane Khalil, Managem Group**, indicated that Managem is a private sector mining group and presented its services and structures. Mr. Khalil highlighted Managem's activities in the e-waste recycling field in Morocco. He also pointed out the negative effects that are currently being done for dismantling and recycling electronic equipments in the informal sector. He indicated that a



strong partnership has been established with CMPP and Al-Jisr Foundation in the “Green Chip” Project for the collection, dismantling and recycling of e-waste. He described the process of dealing with the E-waste from collection until recycling the different parts of the devices. He also highlighted the social, environmental, and economical benefit of the project. He indicated that the dismantling center was initiated on 22 April 2010 with the support of different partners including governmental organizations. He concluded his presentation by the strength and challenges of the project.

41. **Ms. Fatima Zahra Kadiri, Al Jisr Association**, highlighted that Al Jisr Foundation was set up in 1999 (as a non-profit organization), to contribute to awareness raising and improvement of the educational system in Morocco. Ms. Kadiri indicated that Al-Jisr Foundation launched the “Green Chip” Project in cooperation with Managem in 2010, aiming to collect 200,000 PCs for refurbishment and donation to public schools. The unused parts will be recycled by Managem; thus eliminating an estimate of 35 tons of e-waste.
42. **Mr. Philippe Baudet, VALDEME**, stated that VALDEME was established in 2002, as the first dismantling facility in Morocco, to dismantle WEEE and recover metals from WEEE products. VALDEME operates according to international regulations, conforming to EU guidelines.
43. **Mr. Said Kitane, ENIM, Morocco**, presented the activities carried out by ENIM in the field of research related to innovative recycling technologies of e-waste at the End of Life (EoL) stage in Morocco. ENIM aims to contribute to sustainable development and environmental protection in Morocco, by providing assistance to establish projects capable of implementing environmentally sound processes. ENIM also cooperates with CMPP to disseminate innovative recycling technologies across Morocco.
44. **Mr. Mohamed L’Houssaini, IVSEP**, highlighted that IVSEP specializes in e-waste recycling, where its activities are focused on cooperating with national bodies to organize the informal sector into formal channels, to improve the recycling process. Mr. L’Houssaini indicated that operators in the informal sector in Morocco are estimated at 3,000 workers.



SESSION VI – INTERNATIONAL ORGANIZATIONS PRACTICES



45. This session aimed at presenting the experiences of regional and international organizations in enhancing the status of e-waste in the Arab region. The session was chaired by Mr. Abdelhamid Jbilou, Sustainable Development Committee-GEM, Morocco. Three speakers from United Nations Environment Programme, United Nations Educational, Scientific, and Culture organizations, and the Centre for Environment and Development for the Arab Region and Europe presented their experiences.

46. **Mr. Fared Bushehri, United Nations Environment Programm (UNEP)**, presented UNEP's scope of work in the Arab region, covering the following priority areas: climate change; sustainable consumption and production and resource efficiency (including e-waste). UNEP also supports regional NCPCs in cooperation with UNIDO. He highlighted that UNEP developed regional and global partnerships to address the issue of e-waste, such as the StEP Initiative and CEDARE, and cooperated in producing the "E-Waste Manual" (2 Volumes) and the "E-Waste Assessment Study in the Arab Region- 2008".
47. **Dr. Hossam Allam, Centre for Environment and Development for the Arab Region and Europe (CEDRAE)**, presented the current rates of IT products consumption in the Arab region, which indicates increased use of wireless equipment and mobile phones (being the fastest growing industry ever). This increased sales of e-waste comes with negative impact to public health and the environment. Dr. Allam indicated that implementing take-back and refurbishing policies, for example, could minimize these impacts. CEDARE's "E-Waste Assessment Study in the Arab Region- 2008" (which is currently being updated) indicates that progress has been achieved in this area at the national levels, as in the cases of Egypt, and Morocco.
48. **Mr. Mohamed Al-Awah, United Nations Educational, Scientific, and Cultural organization (UNESCO)**, presented UNESCO's activities in the field of e-waste management, which are mainly focused on the knowledge management aspects, providing education and training for sustainable development to tackle environmental challenges. Mr. Al-Awah cited that UNESCO launched an online course on solid waste management to develop improved methods and strategies on hazardous waste management. UNESCO also launched the "3-Cycle It" Project to raise public awareness on the issue of e-waste.

SESSION VII - THE WAY FORWARD: E-WASTE MANAGEMENT PROGRAMME IN THE ARAB REGION



49. In this session, Arab countries representatives presented the status of E-waste management at the national levels and to discuss the way forward in the Arab region in terms of implementing a regional E-waste management programme. The session was chaired by Mr. Abdelhamid Jbilou, Sustainable Development Committee, CGEM, Morocco. Representative from Bahrain, Egypt, Jordan, Lebanon, and Yemen presented their country E-waste management status
50. **Bahrain representative, Mr. Hussain Al-Saegh** indicated that Bahrain places the issue of e-waste as a national priority since issuing the Environment Law in 1996. Measures have been taken by the government, private sector and NGO's to deal with this issue, including dismantling activities (mobile phones) as well as pilot dismantling and recycling initiatives.

51. **Egypt representative, Mr. Ayman Ghonim** indicated that Egypt has adopted the “Green ICT Strategy” in response to climate change issues, by implementing green environmentally friendly technologies. The Egyptian government is currently adopting other measures to address e-waste management issues, such as raising public awareness on the safe disposal of equipment and conducting an assessment for Greater Cairo on the amounts of waste, as well as developing a national database on climate change.
52. **Jordan representative, Mr. Mohamed Khashashneh** indicated that Jordan is currently taking steps to develop the legislative and institutional structures, improve the national recycling infrastructure and enhance international cooperation. Jordan is currently developing legislation to meet EU standards and introduce a ban on imports of e-waste. Jordan has also developed the National Strategy for E-waste Management. Jordan is developing the institutional infrastructure by establishing knowledge centers to donate used pcs in underdeveloped communities. Mr. Khashahneh pointed out that the national recycling infrastructure is being developed by setting up waste collection points in Amman and other cities to promote the safe disposal of waste.
53. **Lebanon representative, Dr. Ali Yaacoub** presented the role of the Lebanese Cleaner Production Center (LCPC) in encouraging the use of cleaner production processes by SME’s, to promote the national goals of energy savings and resource efficiency. Dr. Yaacoub further presented e-waste indicators for Lebanon, showing increased consumption and the need for improved legislative and institutional structures to enhance the e-waste management systems.
54. **Syria representative, Ms. Rola Abazeed** indicated that E-waste is not a particularly alarming issue, as compared to municipal waste. However, a strategy should be developed to deal with this issue.
55. **Yemen representative, Mr. Ameen Al-Hamadi** indicated that the Environment Law has been currently developed to include an article on e-waste management, and that the government is taking steps to adopt “green economy” strategies.

SESSION VIII: CONCLUSIONS AND RECOMMENDATIONS



56. **Mr. Abdelhamid Jbilou, Sustainable Development Committee (CGEM) Morocco** concluded the Forum by presenting the recommendations of the participants of the Forum as follows:
57. Urging the Arab countries to evaluate the current situation concerning regulations and legislations related to the e-waste issue in order to enhance the actions required to face this challenge.

58. Benefiting from the multi-stakeholder partnerships which were established to implement the necessary policies and incentives required for sound environmental management of e-waste in the Arab region.
59. Establishing a productive partnership and creating future commercial opportunities between the concerned national, regional and international parties, including governments, industrial sector, private sector, non-governmental organizations, financial institutions, research and academic centers and international organizations.
60. Establishing awareness campaigns to increase awareness regarding opportunities and incentives within the efforts of the countries to transfer to green economy as in managing the e-waste issue. This transfer would be done in cooperation with the National Cleaner Production Centres and any other concerned party.
61. Calling upon the United Nations Environmental programme (UNEP), and the Centre for Environment and Development for the Arab Region and Europe (CEDARE), and the Regional and International Organizations, in cooperation with the National Cleaner Production Centres to provide technical and logistical support concerning the sound environmental management of e-waste.
62. Calling upon Funding parties to provide financial support in order to support projects aiming to enhance the environmental sound management of e-waste.
63. Urging industrial associations in the Arab countries to force the producers and distributors in applying Extended Producer Responsibility framework.
64. Call upon producers and distributors of electronic and electrical equipments to provide effective support in the collection and recycling of e-waste through participating in technology transfer and providing technical and financial support.

ANNEX I: FORUM PROGRAMME

Day 1: Tuesday, 23 November 2010	
8:30 -9:30	Registration
Inaugural Session	
9:30 -10:45	<ul style="list-style-type: none"> • Ms. Mounia Boucetta, General Secretary, Ministry of Industry, Trade and New Technologies • Mr. Mohamed Benyahia, Director of Partnership, Communication and Cooperation, Department of Environment, State Secretariat for Water and Environment, • Mr. Saïd Mouline, President of the Sustainable Development Committee, General Confederation of Moroccan Enterprises (CGEM) • Mr. Fared Bushehri, United Nations Environment Programme (UNEP) • Mr. Hossam Allam, Centre for Environment & Development for the Arab Region and Europe (CEDARE) • Ms. Jean Cox-Kearns, StEP Initiative • Ms. Hanan Hanzaz, Director of the Morocco National Cleaner Production Centre (CMPP)
10:45 –11:00	<i>Coffee Break</i>
Session I: Keynote Speakers- Leadership Insights	
11:00-12:30	<p>Chairman : Mr. Saïd Mouline, President of the Sustainable Development Committee, CGEM</p> <ul style="list-style-type: none"> • Mr. Abdellaziz Abarro, COE, MANAGEM Group, Morocco • Mr. Abdallah Deguig, President of the Federation of Information Technologies, Telecommunications and Off shoring (APEBI), • Mr. Michel Pochitaloff-Huvale, Program Manager, IBM
12:30 – 2:00	<i>Lunch</i>
Session II: Perspective of Private Sector and NGO Enterprises	
2:00-3:30	<p>Chairman : Mr. Ryad Mezzour, Sustainable Development Committee, CGEM</p> <ul style="list-style-type: none"> • Mr. Herve Guilcher, Environmental Programs Director, HP EMEA • Ms. Ulrike Vott, Nokia Markets Middle East and Africa, UAE • Ms. Jean Cox-Kearns, Dell • Ms. Catherine Flouvat, AME Business Developer & E-waste Opportunities, Orange/ France Telecom • Mr. Ahmed Salem, General Manager, Egyptian Electronic Recycling Company, Egypt • Mr. Ahmed Buhazza, Executive Director, Recycle IT, Good Word Society, Bahrain
6:00	Closing

Day 2: Wednesday, 24 November 2010	
Session III: E-waste International Practices	
9:30 – 11:00	<p>Chairman : Mr. Fareed Bushehri, United Nations Environment Programme (UNEP)</p> <ul style="list-style-type: none"> • Ms. Jean Cox-Kearns, StEP Initiative • Mr. Mathias Schlupep, Laboratory for Technology and Society, Materials Science and Technology (EMPA), Switzerland • Mr. Essam Hashim, Chairman, SpearInk, Egypt • Mr. Adel Al-Alawi, Deputy Chief Executive, ISACA Bahrain
11:00-11:15	Coffee Break
Session IV: Funding Opportunities and Legislations	
11:15 –2:30	<p>Chairman : Mr. Jean Luc Bernard, UNIDO Representative, Morocco</p> <ul style="list-style-type: none"> • Ms. Nehal EL-Kouesny, World Bank • Mr. Mathias Schlupep, Economic Cooperation and Development Division at the State Secretariat for Economic Affairs (SECO), Switzerland • Mr. Mostafa Kamel, Basel Convention Regional Centre for Arab States
12:30-2:00	Lunch
Session V: The Way Forward: E-Waste in Morocco: Status and Challenges	
2:00 – 3:30	<p>Chairman: M. Khalid Missaoui, Sustainable Development Committee, CGEM</p> <ul style="list-style-type: none"> • Ms. Hanan Hanzaz, Director, Morocco Cleaner Production Centre (CMPP) • Mr. Abderahmane Khalil, Sustainable Development and Logistic Manager, MANAGEM • Ms. Fatima Zahra Kadiri, Director, Al Jisr Association • M. Philipe Baudet, Manager, VALDEME • Mr. Said Kitane, Professor, Mining Engineering School in Rabat (ENIM) • Mr. Mohamed L’Houssaini, General Manager, IVSEP
3:30 – 3:45	Coffee Break
Session VI: International Organizations Practices	
3:45 – 5:15	<p>Chairman : Mr. Abdelhamid Jbilou, Sustainable Development Committee, CGEM</p> <ul style="list-style-type: none"> • Mr. Fareed Bushehri, Regional Industry Officer, United Nations Environment Programme (UNEP/ROWA), Bahrain. • Mr. Hossam Allam, Regional Programme Manager, Centre for Environment and Development for the Arab Region and Europe (CEDARE), Egypt • Mr. Mohamed Al-Aawah, Programme Specialist, United Nations Education, Science , and Culture Organization (UNESCO), Egypt
Session VII: The Way Forward: E-waste Management Programme in the Arab Region	
3:45 – 5:15	<p>Chairman : Mr. Abdelhamid Jbilou, Sustainable Development Committee, CGEM</p> <p>Country Representatives will provide 5-10 min talks about the status of E-waste Management. The panelists will discuss the Way forward in the Arab region in terms of implementing a regional E-waste Management programme</p>
5:15 – 5:30	Closing Session

ANNEX II LIST OF PARTICIPANTS

Bahrain:

Mr. Ahmed Buhazza
Executive Director
Recycle IT – Good Word Society

Mr. Hasan Razzaqi
Member of the Advisory Board
Recycle IT – Good Word Society

Mr. Hussain Al Saegh
Senior Environmental Specialist
Public Commission for the Protection of
Marine Resources, Environment and
Wildlife

Mr. Saud Alubainain
Head of Awareness Committee
Recycle IT – Good Word Society

Mr. Adel Al Alawi
Associate Professor and Head of
Department
Royal University for Women, Faculty of
Business

Egypt:

Mr. Adel Shafei
General Director – Hazardous Waste
Department
Ministry of Environment

Mr. Ahmed Salem
General Manager
Egyptian Electronic Recycling Company
(EERC)

Mr. Ayman Ghonaim
Green ICT Programme Director
Ministry of Communication and
Information Technology

Mr. Basheer Albalawi
Spear Ink. Ltd.

Mr. Essam Hashem
Programme Specialist
Spear Ink. Co.

Ms. Hanan El Hadary
Director
Egypt National Cleaner Production
Centre (ENPCPC)

Ms. Mariem Al Agami
Spear Ink Ltd.

Mr. Tarek Salama
Spear Ink Ltd.

Germany:

Mr. Mrani
TU Darmstadt

Mr. Schebek
TU Darmstadt

France:

Mr. Albert Sotto
Director
TAL Instruments

Ms. Brigitte Bernard
Gérante, Responsable Administrative et
Commerciale
Techtronics Sarl

Ms. Catherine Flouvat
AME Business Developer & E-waste
Opportunities
Orange/France Telecom

Mr. Herve Guilcher
Environmental Programme Director
HP EMEA

Mr. Michel Pochitaloff-Huvale
Corporate Environmental Affairs
IBM

Ireland:

Ms. Jean Cox-Kearns
Senior Take Back and Recycling
Manager
Dell Inc.

Jordan:

Mr. Mohamed Khashashneh
Director of Hazardous Substances and
Waste Management
Ministry of Environment

Lebanon:

Mr. Ali Yaacoub
Director
Lebanon Cleaner Production Centre

Mr. Najj Kodeih
Policy Advisor and Toxic Campaigner,
Zero Waste
IndyACT – The League of Independent
Activities

Libya:

Mr. Abdourraouf Abudandana
Computer Engineer
General Telecommunication Authority

Mr. Ashur Ben Elmojrab
Telecom Engineer
General Telecommunication Authority

Morocco:

Mr. Abdallah Deguig
President
APEBI

Mr. Abdelhadi Bourqouqou
Responsable Usine CIL
Managem

Mr. Abdelhamid Jbilou
Adviser
CGEM

Mr. Abdelkrim Outaleb
Professeur de l'Enseignement Supérieur
ENCG / Université Cadi Ayad –
Marrakech

Mr. Abdallah Boulaamail
Responsable recherche, Centre de
Recherche
Managem

Mr. Abdellaziz Abarro
PDG
Managem

Mr. Abderrahim Chakour
Director des Statistiques et de la veille
Ministry of Trade, Industry and New
Technologies

Mr. Abderrahman Kaddami
Director Centre de Recherche
Managem

Mr. Abderrahmane Khalil
Director Développement Durable et
Logistique Branche Cobalt et Spécialités
Managem

Mr. Ahmed Belfkira
Université Marrakech

Mr. Ahmed Maliki
Director Adjoint DD
Managem

Ms. Aicha Tourass
Valdeme

Mr. Ait Ouhman Abdellah
Director
ENSA – Marrakech

Ms. Amel Lemsioui
Cadre Supérieur
Department of Environment

Mr. Amine ait El Haj
Conseillier technique Junior
GTZ/PGPE

Mr. Bachir Raissouni
Expert International en environnement et
DD
Al akhawayen University

Ms. Benbouziane Maria
Audit et Risk management, Branche
cobalt et spécialités
Managem

Mr. Bouayad Brahim
Director du Centre d'Etudes Doctorales
ENCG / Université Cadi Ayad –
Marrakech

Mr. Cahuzac Juce
Progrss

Mr. Chafai El Alaoui Abdelmalek
Ministry of Trade, Industry and New
Technologies

Mr. Chaoui Roquai Mohamed
Director Technique
ADS Maroc

Mr. Chokair Said
Chef de service des industries
Electroniques
Ministry of Trade, Industry and New
Technologies

Mr. Collins Samukala
Chargé d'affaire Développement
Managem

Mr. Djekmani Farid
Cadre
Departement of Environement

Mr. Driss HABBOUB Délégué Marrakech Ministry of Trade, Industry and New Technologies	Mr. Khalid Benslimane Director Technique Branche Cobalt et spécialités Managem
Mr. El Attat Ahmed Director Maroc Telecom	Mr. Khalid Lairini Professeur Université Tanger
Mr. Ezekkaf Mohamed Amine Représentant de l'Association – Tanger Association Rabita Consommateurs	Mr. Khalid Missaoui President of Networking Sub Committee CGEM
Mr. Fares Toufik Engineer Ministry of Trade, Industry and New Technologies	Ms. Kitane Stagiaire GTZ/PGPE Mr. Lakhdar Bachir Director ENCG / Université Cadi Ayad – Marrakech
Ms. Fatima Zahra Kadiri General Director Al Jisr	Ms. Latifa Mouhir Professor Université Mohammedia
Mr. Hakkou Rachid Enseignant – Chercheur FST Marrakech, Université Cadi Ayyad	Mr. Lhoussain Outifa Director Filière dérivés métalliques Managem
Ms. Hanan Hanzaz Director Morocco Cleaner Production Centre (CMPP)	Mr. Longhi Jean Jacques Replay Plast
Mr. Hassan El Bari President Association Amades	Ms. Marquez Nicole Directrice de Communication Recyclage Magazine
Mr. Hicham Sebbani Responsable production des usines FDM Managem	Ms. Maryam Charrat Responsable Juridique Managem
Ms. Intissar Benzakour Directrice Filière métal et Centre de Recherche Managem	Mr. Michael Stock Technical Adviser GTZ/PGPE
Mr. Ismail Akalay DG Branche Co et Spécialités Managem	Mr. Mohamed Benboudia Direction de la Technologie Ministère de l'Education Nationale
Mr. Kaddam Hamid Expert (Professeur Universitaire) AMP	Mr. Mohamed Benhadouch Ingénieur d'Etat – Marrakech Ministry of Trade, Industry and New Technologies
Mr. Kamal Fahmi Director QSE Cosumar	Mr. Mohamed Benslika CMPP
Ms. Kaoutar Elmrini Responsable communication Managem	Mr. Mohamed Benyahia Director de Partenariat, de la Communication et de la Coopération Departement of Environement

Mr. Mohamed El Khoulassa Director Setarem	Mr. Ryad Mezzour President of Partnership & project sub Committee CGEM
Mr. Mohamed Lahlou Président Al Jisr	Mr. Said Kitane Professor & Researcher ENIM
Mr. Mohamed L'Houssaini General Manger IVESEP	Mr. Said Mouline President CMPP
Mr. Mohamed Cherrat Director Ressources Humaines Managem	Ms. Saloua Essemrhouni chargée de la logistique et de la collecte Al Jisr
Mr. Mohamed Fouad Nadir Chef Projet DT Managem	Ms. Samira Amil Project Assistant CMPP
Mr. Mouloud Lbouabi Director Sécurité Managem	Mr. Schmidt Expert GTZ/PGPE
Mr. Moussa Rahdouni Director Exploitation FDM Managem	Mr. Soufiane Idrissi Kaitouni Director APEBI
Mr. Mustafa Stitou Professeur Université Tétuan	Mr. Tarik EL Edghiri Conseillier technique – Tanger GTZ/PGPE
Mr. Mustapha Metaich Consultant EMC	Mr. Yahia Sabhi Department of Environment
Mr. Mustapha Terhzaz Chef de Division SEEE/De	Mr. Yousry Samir Administrator Department of Environment
Mr. Nabil Souaf Director AMP	Mr. Youssef Montassir Conseillier technique Junior GTZ/PGPE
Mr. Naserddine Lhafi CGEM	Mr. Youssef Mouhyi President UR CGEM – Tensift
Mr. Omar Ouchri Project Manager CMPP	Mr. Zouhair Bendouro Responsable Développement Durable Branche métaux de bases Managem
Mr. Philippe Baudet Director Valdeme	<u>Switzerland:</u> Mr. Benoit Ziegler EMPA
Ms. Roquia El Boudrari Directrice Développement Al Jisr	Mr. Fabian Blaser EMPA

Mr. Mathias Schluemp
SECO/EMPA

Syria:

Ms. Rola Abazeed
Head of Solid Waste Management
Department
Ministry of State for Environmental Affairs

Tunisia:

Ms. Lamia Samoud Milliti
ANGED

U.A.E.:

Ms. Ulrike Vott
Senior Environmental Specialist
Nokia

Yemen:

Mr. Ameen El Hmadi
General Manager - Monitoring &
Evaluation
Environmental Protection Authority

**Regional and International
Organizations**

**Basel Convention Regional Centre for
Arab States**

Dr. Mostafa Kamel
Director

**Centre for Environment and
Development for the Arab Region and
Europe (CEDARE)**

Dr. Hossam Allam
Regional Programme Manager
Strategic Concerns Programme

Ms. Suzy Imam
Programme Assistant
Strategic Concerns Programme

League of Arab States

Ms. Naima Bouchema
Second Secretary, Environmental
Conventions on Chemicals and
Hazardous Wastes

**United Nations Educational, Scientific,
and Cultural Organization (UNESCO)**

Mr. Mohamed Al Awah
Programme Specialist

**United Nations Environment
Programme**

Mr. Fareed Bushehri
Regional DTIE Officer
UNEP/ROWA

**United Nations Industrial Development
Organization (UNIDO)**

Mr. Jean-Luc Bernard
Unido Representative –Morocco

World Bank

Ms. Nehal El Kouesny
Information Centres Coordinator
Cairo Office, Egypt

ANNEX III: INAUGURAL SPEECH, MOROCCO CLEAN PRODUCTION CENTRE (CMPP), MS. HANAN HANZAZ

Monsieur le Directeur des Stratégies et de la Veille, Ministère du Commerce et de l'Industrie et des Nouvelles Technologies

Monsieur le Directeur de Partenariat, de la Communication et de la Coopération, Département de l'Environnement

Monsieur le Président de la Commission Développement Durable à la Confédération Générale des Entreprises du Maroc (CGEM)

Monsieur le représentant du Programme des Nations Unies pour l'Environnement (PNUE)

Monsieur le représentant du Centre pour l'Environnement et le Développement pour la Région Arabe et l'Europe (CEDARE)

Distingués invités,
Chers participants,
Mesdames et messieurs,

Permettez-moi tout d'abord d'exprimer la joie que j'éprouve en présidant la cérémonie d'ouverture de la deuxième édition du forum sur la gestion des déchets des équipements Electriques et électronique (DEEE), organisé par le CMPP en collaboration avec le PNUE, CEDARE et Step Initiative.

En effet, ce forum qui se déroule sur deux jours s'inscrit dans le cadre des initiatives et actions par ces différents partenaires dans ce domaine.

La tenue de cet important forum au Maroc et à Marrakech en particulier n'est pas un hasard. Le niveau d'engagement de notre pays dans le « respect de l'environnement et le développement durable » n'est plus à démontrer, et il est marqué par l'impulsion donnée par Sa Majesté Le Roi Mohammed VI au développement économique du Maroc qui a permis la mise en place de nombreux plans et programmes sectoriels, notamment en termes de développement humain, de grandes infrastructures, d'activités industrielles et commerciales, de modernisation du secteur agricole, du développement durable, du logement et des équipements de base urbains et ruraux

Nous souhaitons le bien venu à tous les participants, notamment ceux qui ont fait le déplacement depuis plusieurs pays d'Afrique, d'Europe et d'Asie. Cette présence significative traduit de manière éloquente l'intérêt certain à être unis et solidaires en vue de débattre de la problématique de la gestion des déchets Electriques et Electronique, et de sortir avec des recommandations concrètes susceptibles d'améliorer ce secteur.

Nous tenons à remercier tout particulièrement le Groupe MANAGEM, pour tous les moyens qui ont été déployés, en vue d'assurer le succès de l'organisation de cette édition.

Je remercie également l'ensemble des sponsors qui ont rendu possible l'organisation de ce forum, notamment : VALDEME, la Coopération technique allemande GTZ, GPC et Ain Soltane.

Honorables invités, Mesdames et messieurs,

En raison de la dangerosité des déchets d'équipements électriques et électroniques (DEEE), et afin de réduire la pollution de l'environnement que provoque l'élimination ou le recyclage de ces déchets en augmentant la durée de vie des appareils et en améliorant la valorisation des matériaux qu'ils contiennent, plusieurs organisations internationales ont lancés des initiatives pour la gestion de ces déchets.

Ce forum se veut ainsi un espace d'échange de dialogue et de réflexion, autour de la problématique de la gestion des déchets électriques et électroniques, dont l'intérêt est d'apporter des réponses à différents questions d'actualité telles :

- les perspectives du développement privé et des ONGs
- Pratiques de gestion des DEEE
- Opportunités de financement
- Ainsi que la législation

A cet effet, le programme est riche et très consistant, et se déclinerait sept sessions sur deux jours.

Sur ce je déclare ouvert le 2^{ème} forum sur la gestion des déchets des équipements électroniques et électriques.

Je souhaite à tout le monde beaucoup de succès.

ANNEX IV: INAUGURAL SPEECH, INTERVENTION DE MADAME LE SECRÉTAIRE GÉNÉRAL DU MINISTÈRE DE L'INDUSTRIE, DU COMMERCE ET DES NOUVELLES TECHNOLOGIES

Mesdames et Messieurs,

Je me réjouis de cette occasion qui m'est offerte pour participer avec vous à l'ouverture du deuxième forum sur la gestion des déchets des équipements électriques et électroniques "opportunités d'affaires vertes", thématique, qui s'inscrit parfaitement dans la vision du Maroc en matière de développement économique en général, et industriel en particulier.

Je saisis ce mot d'ouverture, dont m'ont investie les organisateurs pour leur rendre hommage, notamment le Programme des Nations Unies pour l'Environnement (PNUE), le Centre pour l'Environnement et le Développement pour la Région Arabe et l'Europe (CEDARE), la Confédération Générale des Entreprises du Maroc (CGEM) et le Centre Marocain de Production Propre (CMPP) pour cette initiative louable qui vise à contribuer à la préservation de l'environnement et au développement durable dans notre pays.

Mes remerciements s'adressent également à l'ensemble des participants qui, par leur présence à ce forum, témoignent de l'intérêt qu'ils portent à ce sujet et de leur volonté de contribuer activement au développement harmonieux, conciliant les aspects économiques, sociaux et environnementaux, à travers une gestion écologique des déchets des équipements électriques et électroniques et la création d'opportunités d'affaires.

Mesdames et Messieurs,

Comme vous le savez, le Sommet de la Terre a marqué la première manifestation mondiale qui a initié le débat sur la recherche d'un compromis entre le développement économique et la nécessité de protéger l'environnement. Cette manifestation a permis de conclure que pour parvenir à un développement durable, la préservation de l'environnement doit faire partie intégrante du processus du développement économique.

C'est dans cet esprit que le Maroc s'est inscrit, en adoptant la stratégie du développement industriel durable, pour permettre à son tissu productif de disposer de méthodes et d'outils techniques, pédagogiques et managériaux pour faire de la prévention de la pollution et de la production propre un levier de compétitivité et un label de promotion commerciale.

En effet, il est communément admis que la prévention de la pollution à la source et l'utilisation des technologies propres produisent moins de déchets et sont plus efficaces pour la protection de l'environnement et techniquement plus rationnelles et plus économiques que les mécanismes traditionnels de traitement en bout de chaîne de production.

Cette stratégie ayant donné ses fruits, fait l'objet de vulgarisation et de pérennisation à l'échelle nationale par l'entremise de programmes développés par le Centre Marocain de Production Propre (CMPP), mis en place, dans un cadre de partenariat public-privé, entre le Ministère de l'Industrie, du Commerce et des Nouvelles Technologies et la CGEM pour faire de la production propre un moyen d'amélioration de la compétitivité des entreprises. Ce centre a permis de doter notre tissu productif d'un outil à la fois didactique et technique, constituant ainsi un vecteur important de la politique environnementale du pays.

Mesdames et Messieurs,

La gestion des déchets vue sous l'angle de l'émergence d'opportunités d'affaires vertes, thème de notre forum d'aujourd'hui, cadre parfaitement avec notre conception du développement durable, et vient, sans aucun doute, enrichir nos acquis et expériences en la matière.

Cette rencontre constitue, en effet, une initiation remarquable visant à renforcer le processus de coopération, de coordination et d'échange de savoir-faire et d'expériences entre les pays développés et ceux en voie de développement dans le domaine de la protection de l'environnement en général, et la gestion durable des déchets en particulier.

A ce niveau, permettez-moi de rappeler que l'étude réalisée par le CMPP en 2008 a montré que le stock de télévisions, d'ordinateurs et de téléphones portables représente l'essentiel du gisement des déchets électriques et électroniques au Maroc. Ce Stock estimé en 2007 à près de 222 000 tonnes et le flux de déchets générés annuellement s'élève à plus de 30 000 tonnes, dont ceux des téléviseurs et des ordinateurs représentent plus de 90%.

Cette étude, dont les résultats vous seront présentés lors de ce forum, a également mis en exergue quelques recommandations, dont vous allez certainement débattre et confronter avec celles issues d'autres pays, notamment arabes en vue d'enrichir toutes ces expériences et en faire un programme régional sur la gestion des déchets électriques et électroniques dans la région arabe.

Dans ce cadre, force est de constater, que dans les sociétés où le taux d'équipement est de plus en plus élevé et où les produits font l'objet d'évolution rapide, générant ainsi des quantités de déchets des équipements électriques et électroniques en croissance et imposant alors la nécessité de s'attaquer à cette problématique sous un angle permettant d'assurer une gestion de ces déchets, créatrice de croissance.

Vous conviendriez alors avec moi que la prise de conscience de la dimension environnementale aujourd'hui est un acquis, notamment la prévention de la pollution et la gestion écologique des déchets qui s'impose comme une composante indissociable du processus du développement durable.

Il est dès lors opportun d'accorder toute l'attention nécessaire à ces questions dans les politiques de coopération et de développement, notamment au niveau, régional et international.

Mesdames et Messieurs,

Pour conclure, je voudrais souligner que la question environnementale en général, et la gestion des déchets en particulier concerne tout un chacun parmi nous, nécessitant par ricochet une coopération continue est matérialisée, entre autres par l'organisation de ce forum, qui est devenu une plate-forme d'information d'échange d'expériences et de savoir faire dans un domaine aussi vaste qu'est la gestion écologique des déchets.

Je souhaite plein succès à notre rencontre et Merci pour votre attention.

ANNEX V: INAUGURAL SPEECH , SUSTAINABLE DEVELOPMENT COMMITTEE (CGEM), MR. SAÏD MOULINE

Monsieur le Directeur des Statistique et de la veille, Ministère de Commerce, de l'Industrie et des Nouvelles Technologies

Monsieur le Directeur de Partenariat, de la Communication et de la Coopération, Département de l'Environnement, Secrétariat d'Etat chargé de l'Eau et de l'Environnement

Monsieur le Représentant du Programme des Nations Unies pour l'Environnement (PNUE)

Monsieur le Représentant du Centre pour l'Environnement et le Développement pour la Région Arabe et l'Europe (CEDARE)

Madame la Représentante du StEP Initiative

Madame la Directrice du Centre Marocain de Production Propre (CMPP)

**Distingués invités,
Chers participants,
Mesdames et Messieurs,**

La construction d'une économie moderne et compétitive, résolument ouverte et intégrée dans le marché mondial, ne peut se concevoir sans la mise en place d'une stratégie internationale adéquate à même de relever des défis environnementaux posés par le développement.

A cet égard, l'approche adoptée par le Maroc est sous-tendue par trois objectifs majeurs et interdépendants : il s'agit à la fois d'améliorer la qualité de vie des populations et d'accroître les perspectives de développement socio-économique, mais également de protéger le patrimoine environnemental collectif.

De ce fait, l'organisation de ce Forum est d'une importance primordiale dans la mesure où il permettra d'informer et de sensibiliser les responsables du secteur privé et l'opinion publique sur l'importance d'une gestion écologique des Déchets d'Equipements Electriques et Electroniques (DEEE).

En plus d'être lourds et volumineux, les DEEE présentent la particularité, par rapport aux autres catégories de déchets, d'être composés d'un assemblage complexe de plusieurs sortes de matériaux. Les DEEE sont donc un mélange de matières valorisables et de matières dangereuses. Le plastique, le verre, les métaux de base, les métaux précieux sont autant de bonnes raisons de recycler les DEEE, alors que les métaux lourds (mercure, cadmium, plomb, etc.) et les produits organiques doivent éviter de se retrouver diffusés dans l'environnement. C'est ainsi que la gestion rationnelle de ces déchets est devenue un véritable défi dicté par le devoir de protéger la santé des populations et l'environnement.

Mesdames et messieurs,

Consciente de la nécessité pour les entreprises nationales d'intégrer dans leur gestion une culture managériale basée sur l'éco-efficacité, la CGEM a constitué en 1988 un comité chargé des questions de l'Environnement. Depuis sa création, ce comité a organisé la sensibilisation et l'information des entreprises sur les normes en vigueur et les technologies disponibles suscitant de ce fait, l'engouement des industriels pour un engagement en faveur de la protection de l'environnement.

Ce comité est devenu une commission statutaire dans la structure organisationnelle du Patronat Marocain et porte désormais la dénomination de : Commission Développement Durable de la CGEM.

La charte de responsabilité sociale adoptée par la CGEM en 2006 a dynamisé les activités de cette Commission en précisant de façon claire sa mission et ses axes de réflexion et d'action avec comme objectif central la garantie de la meilleure adéquation possible, entre respect de l'Environnement et compétitivité économique de la production nationale.

Par son expertise éprouvée et sa concertation soutenue avec les départements ministériels et les institutions concernés, la Commission Développement Durable, apporte le meilleur soutien possible aux entreprises membres de la CGEM.

Les programmes opérationnels de cette commission sont conduits par le Centre Marocain de Production Propre, créé en 2000. Ce centre est le fruit d'un partenariat public-privé entre la CGEM et les ministères en charge de l'industrie et de l'environnement.

La mission principale du CMPP est l'assistance technique aux entreprises marocaines pour l'adoption des technologies plus propres et des systèmes de management permettant d'améliorer simultanément la compétitivité économique et la performance environnementale.

Durant ses dix années de fonctionnement, le CMPP a apporté une contribution significative à la diffusion du concept de production plus propre au niveau des entreprises, des consultants nationaux ainsi que des instituts académiques du pays. Le CMPP a pu achever avec succès un nombre important de projets d'assistance technique et gagner ainsi la confiance du secteur industriel marocain.

Mesdames et Messieurs,

Forte de sa conviction que croissance économique rime avec protection des ressources naturelles, la CGEM, par le biais de la Commission Développement Durable œuvre sans relâche dans la recherche de nouveaux projets et développe des partenariats à même d'accompagner les entreprises dans cette noble mission qu'est la protection de l'Environnement.

Ainsi, l'adoption du programme de travail de ce Forum va appuyer le plan d'action la Commission Développement Durable la CGEM visant le développement d'une économie verte au Maroc.

Mesdames et Messieurs, je vous remercie pour votre présence à ce forum et je souhaite plein succès à vos travaux.

ANNEX VI: INAUGURAL SPEECH, UNITED NATIONS ENVIRONMENT PROGRAMME, MR. FAREED BUSERI

Excellencies...Distinguished Colleagues...

Ladies and Gentlemen

It is my great pleasure to convey to you the best wishes of Dr. Habib Elhabr, Representative and Regional Director of the United Nations Environment Programme (UNEP), Regional Office for West Asia (ROWA), and to welcome you to this important gathering in Marrakech. UNEP is privileged to be a partner with The Centre for Environment and Development in the Arab Region and Europe, the Morocco National Cleaner Production Centre, the StEP Initiative and other national, regional & international stakeholders in the organization of this major international event in the great Kingdom of Morocco.

Today, in the 2nd Forum, we witness the realisation of the work that began as an idea between CEDARE and our Office which has brought together valuable international, regional and national partners from both the private and public sectors and Non Governmental Organisations.

There is a growing attention to the e-waste issue worldwide in various international fora and different UN agencies, which are leading initiatives or participating in activities on different e-waste topics. UNEP is leading a few initiatives that embrace the e-waste issue, like the Global e-Sustainability Initiative, the International Resource Panel, the OzoneAction programme, the Green Custom Initiative or different pilot projects under the Bali Strategic Plan for Capacity Building and Technology Support.

UNEP's mandate is to coordinate the development of environmental policy consensus by keeping the global environment under review and bringing emerging issues to the attention of governments and the international community for action. UNEP is the voice of an environment under numerous pressures from human activity, including e-waste.

UNEP has a number of strengths that characterize its work on e-waste, and areas where its skills and capabilities are distinctive. Strengths include:

- A global mandate regarding the environment
- Complementarities of expertise between e-waste topic and other environmental issues
- Experience in creating and fostering implementation of multilateral environmental agreements
- A proven ability to work on issues requiring a multi-stakeholder approach
- A strong relationship with some key players in the private sector, including financial institutions

The unprecedented growth in the production and use of electrical and electronic equipment and the ever increasing volumes of related e-waste generated demands the need to conduct a global assessment of e-waste problem in order to establish a common knowledge baseline concerning the extend of the problem. In 2008, CEDARE and UNEP carried out our first e-waste survey of the Arab Region. CEDARE is now in the process of updating the data collected. This work can be the bases for our regional input into any future global assessment of e-waste problem.

Today in our 2nd Forum, looking at the presence of Public and Private Sectors and the vital presence of a number of NGOs, it is very clear that the seeds of multi-stakeholders partnership which were planted during the 1st Forum have flourished. Such partnership will raise awareness and bring up opportunities and incentives and assist the countries in the region with their move towards transforming their economies to green economies.

Ladies and Gentlemen,

We call upon this Forum to encourage the countries in our region to assess the current state of guidelines, legislations, regulations and other appropriate legal instruments to address the e-waste problem with the view to enhancing the effectiveness of measures to address this challenge, and to utilise the effective multi-stakeholder partnerships formed to implement the necessary policies and incentives to effectively monitor and manage e-waste in the region.

UNEP, through its Regional Office in West Asia and its substantive divisions, stands ready to assist and support the countries in our region. I hope that this international event will be the stewardship platform for constructive discussion, friendly debate and the development of fruitful partnerships and future business opportunities between all stakeholders; national, regional and international, including governments, industry, private sector, NGOs, financial institutions, research and academic centers and UN Organizations.

We are indebted to all our partners for their contribution in organizing this event, and grateful to all participating experts and delegations for their valuable offerings and dedication, and we look forward to our continued cooperation on “Environment for Development”, which is at the heart of UNEP’s mandate.

Thank you

ANNEX VII: INAUGURAL SPEECH, CENTRE FOR ENVIRONMENT AND DEVELOPMENT FOR THE ARAB REGION AND EUROPE (CEDARE), DR. HOSSAM ALLAM

Distinguished Partners, Guests, Ladies and Gentlemen

On behalf of H.E. Nadia Makram Ebeid, the Executive Director of the Centre for Environment and Development for the Arab Region and Europe (CEDARE), it is my great pleasure to be here today to welcome you to the E-Waste Management Forum. It gives me great pleasure to be in this beautiful country.

The electronics and information technology industry is the world's largest and fastest growing manufacturing industry. As a consequence of this remarkable growth, discarded electronic equipment, or e-waste, is now recognized as the fastest growing waste stream in the industrialized world. Today, E-Waste comprises more than 5-10 per cent of all municipal waste, which is nearly the same amount of all plastic packaging, and is growing steadily.

Three years ago, CEDARE has identified the E-waste issue as an emerging challenge that needs to be addressed in the Arab Countries. CEDARE has decided to establish effective partnerships to enhance the status of E-waste management in the Arab Region. We are honored with our partnerships with UNEP, CMPP, StEP Initiative, EMPA from Switzerland, and many others.

To enhance knowledge transfer about E-waste management issues to the Arab countries, CEDARE has joined the StEP initiative, a leading international network, where currently CEDARE is the Focal point for the Middle East and North Africa.

During 2008, CEDARE and UNEP started the process for assessing E-waste practices in the Arab Region. An assessment study has been conducted for governmental organizations, private sector enterprises, non-governmental organizations, and non Arab countries.

The study highlighted the need to enhance awareness about the E-waste issue and to conduct assessment about the quantities and types of available E-waste in the Arab countries. Also, there is a need to enhance the legislations to deal with the issue of illegal trans-boundary movement of used equipments, which are considered end-of-life equipments. Currently, we are concluding the 2010 study that showed progress has been achieved in some countries and Morocco is one of these success stories.

CEDARE and UNEP have identified the E-waste Management Forum as an important tool to exchange knowledge and establish partnerships for establishing E-waste management industry; thus creating green job opportunities.

Distinguished Colleagues, Ladies and Gentlemen,

The first E-waste Management Forum was held last year in Cairo, the outcome of the Forum showed that there is great interest in moving forward to enhance the E-waste management status in the Arab countries in cooperation with the International community. We are very optimistic about the outcome of the Marrakech Forum due to the excellent speakers and participants that are gathered here today.

We believe that the private sector is the main vehicle for development as it establishes a successful green economical business model for E-waste management. Thus we are keen to initiate multi-stake holder partnerships where the private sector has effective role.

Ladies and Gentlemen

I would like to thank our Moroccan active partner in this event, CMPP, for our ongoing collaboration and for their excellent work in the organization of this Forum and the Diamond sponsor, Managem, for their contribution towards the success of this Forum.

I would like also to thank the other agencies and companies that have supported this Forum and hope that we will continue to all work in partnership to witness the success of our efforts. Finally, I thank all of our speakers and participants for taking the time to join us at this valuable Forum.

Thank you

ANNEX VII: INAUGURAL SPEECH, STEP INITIATIVE, MS. JEAN COXKEARNS

[Ladies and gentlemen... Intro...],

The electrical and electronics industry is the world's largest and fastest growing manufacturing industry. Products like computers, TVs, radios, wired and mobile phones, MP3 players, coffee makers, toasters, hair-dryers, refrigerators to name but a few, are part of our every-day life. And we all know that the expanded use of electronic products is rapidly rising worldwide.

Scrap and wastes from electrical and electronic equipment, so called e-scrap or e-waste, **is one of the fastest growing components of the global waste stream and, arguably, one of the most troublesome. The European Environmental Agency calculates that the volume of e-scrap is now rising roughly** three times faster than other forms of municipal waste. Alarming statistics show that about 40 million tons of waste electrical and electronic equipment, or e-waste, are generated annually worldwide – Enough to fill a line of dump trucks spanning half the globe.

Rapid product innovations and replacement, especially in ITC and office equipment — the migration from analog to digital technologies and to flat-screen TVs and monitors, for example — are fueling its increase.

E-waste contains significant amounts of toxic and environmentally sensitive materials and is thus extremely hazardous to humans and the environment, if not properly disposed of or recycled. If treated properly, however, considerable quantities of valuable material can be recovered from e-waste and put to use again. In addition to well-known precious metals such as gold, palladium and silver, unique and indispensable metals have become increasingly important in electronics. The rise in the consumption of electronics has also resulted in the increased demand for natural resources to manufacture these products. The price of Indium, a by-product of zinc mining used in more than 1 billion products per year, including flat-screen monitors and mobile phones, has increased six-fold in the last five years, making it more expensive than silver.

Currently, e-waste is mainly generated in OECD countries. United Nations University found out, WEEE arisings across the EU27 for example are estimated at roughly 9 million tonnes for the year 2005, with an annual growth rate of 2.5 %. However, populous countries like China and India are already huge producers of e-waste and industrializing countries show the fastest growing consumption rates of electronics.

These developments display an outstanding need for an international strategy to reduce e-waste on a global level and provide for its sustainable treatment. There is a clear need and opportunity now to address the resources, health and environmental concerns being created by a surging increase in electronic waste. And also make use of all the opportunities a sustainable management of our old electronic products can bring.

Standardizing recycling and treatment processes globally to harvest valuable components in e-waste, extending the life of products and markets for their reuse, and harmonizing world legislative and policy approaches are major objectives. This requires a holistic approach and a mix of instruments, from policy changes and fiscal incentives to education and cultural shifts.

The Solving the E-waste Problem – or StEP – Initiative was founded in 2004 to address the growing challenges associated with the production, use and disposal of electronic products. STEP is an applied science, multi-stakeholder initiative actively working on solutions for the global e-waste problems from a holistic point-of-view.

StEP very much supports this E-waste Management Forum, as we believe we need to exchange our experiences and lessons learnt and work on a common way forward. Only so we can – as the title of this Forum says - create green business opportunities and showcase how e-waste helps achieve considerable breakthroughs in generating business opportunities and conserving natural resources while abating health and environmental hazards effects.

I am very much looking forward to an interesting conference and stimulating discussions with all of you!