

E-waste Management in the Arab Region: Status and Opportunities

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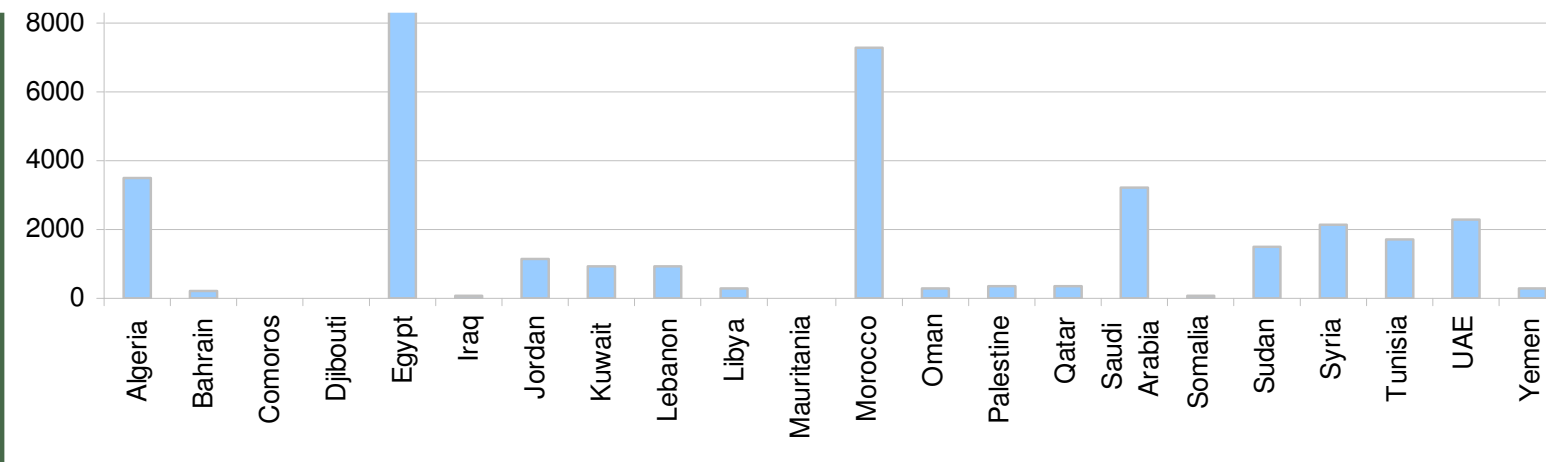
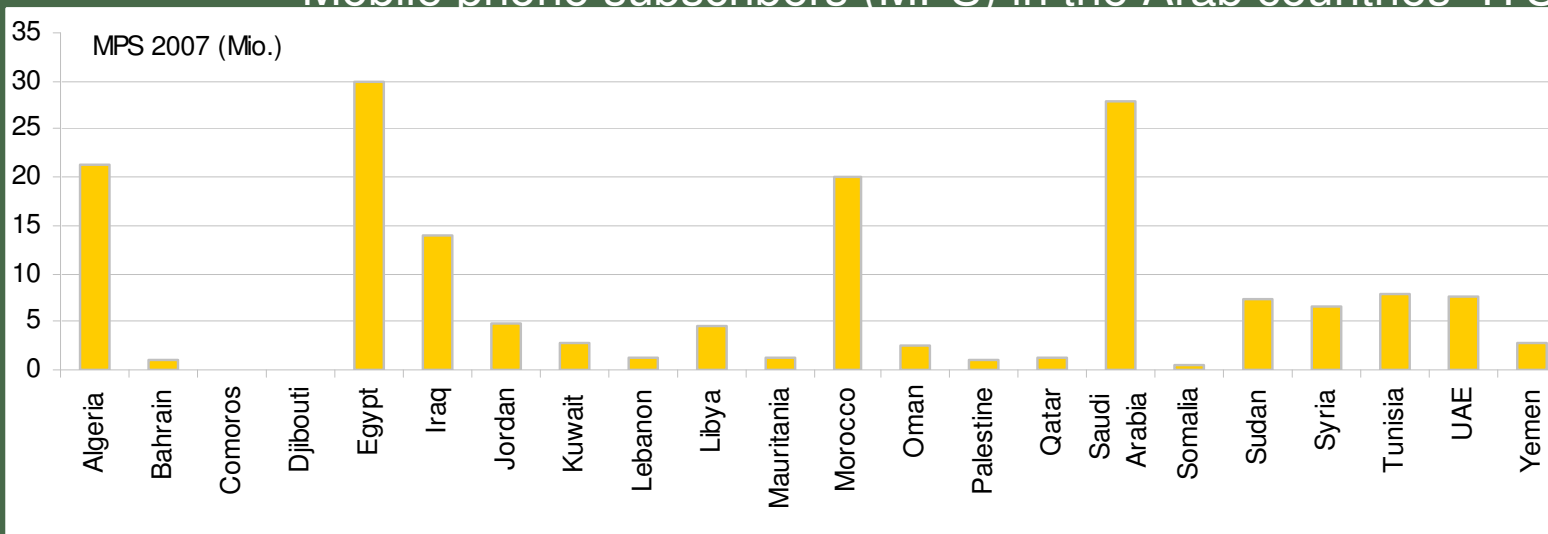


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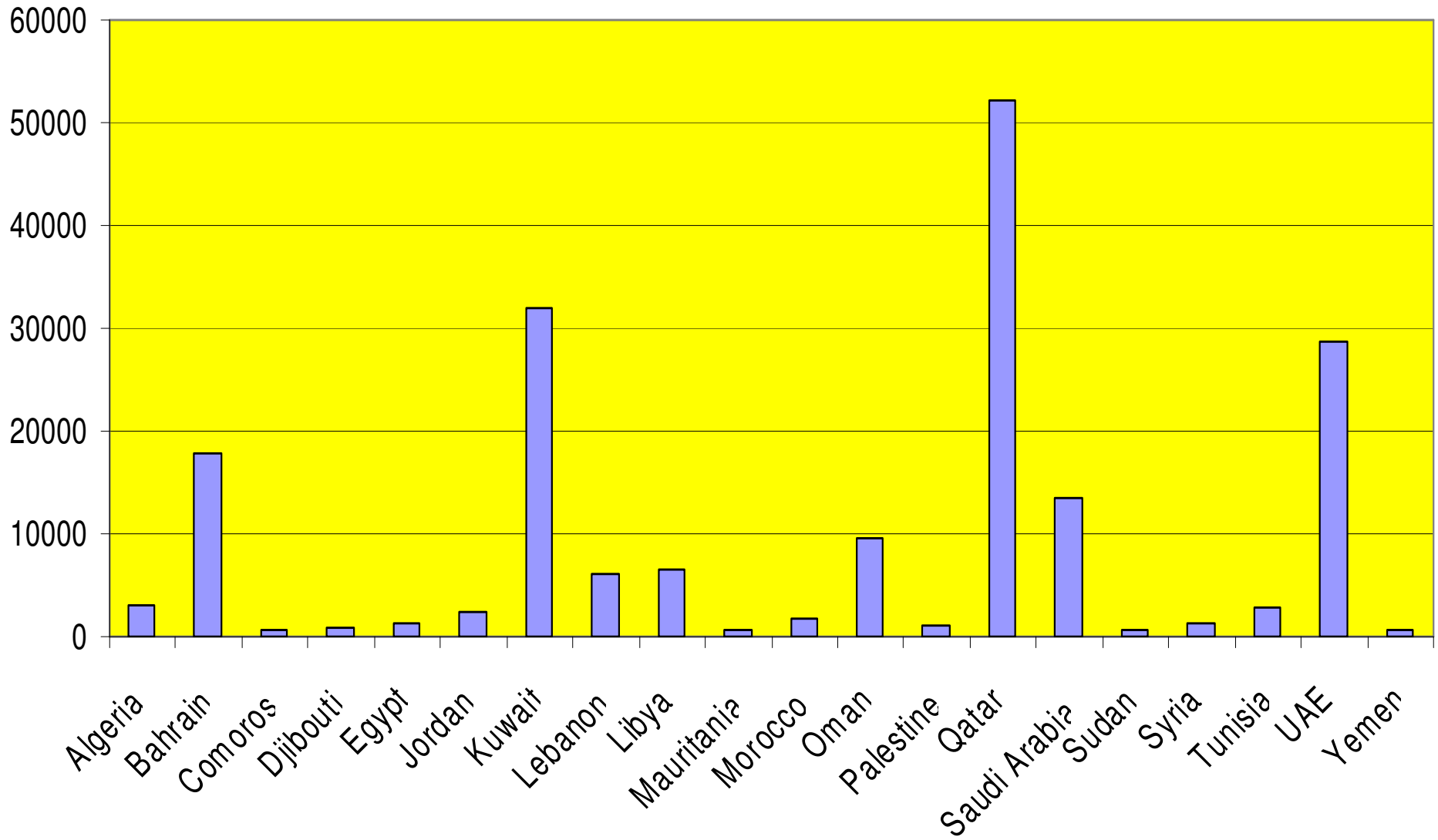
The Arab Region and its ICT Industry

Mobile phone subscribers (MPS) in the Arab countries - ITU Statistics 2007



Internet users in the Arab countries - ITU Statistics 2007

GDP per Capita 2008



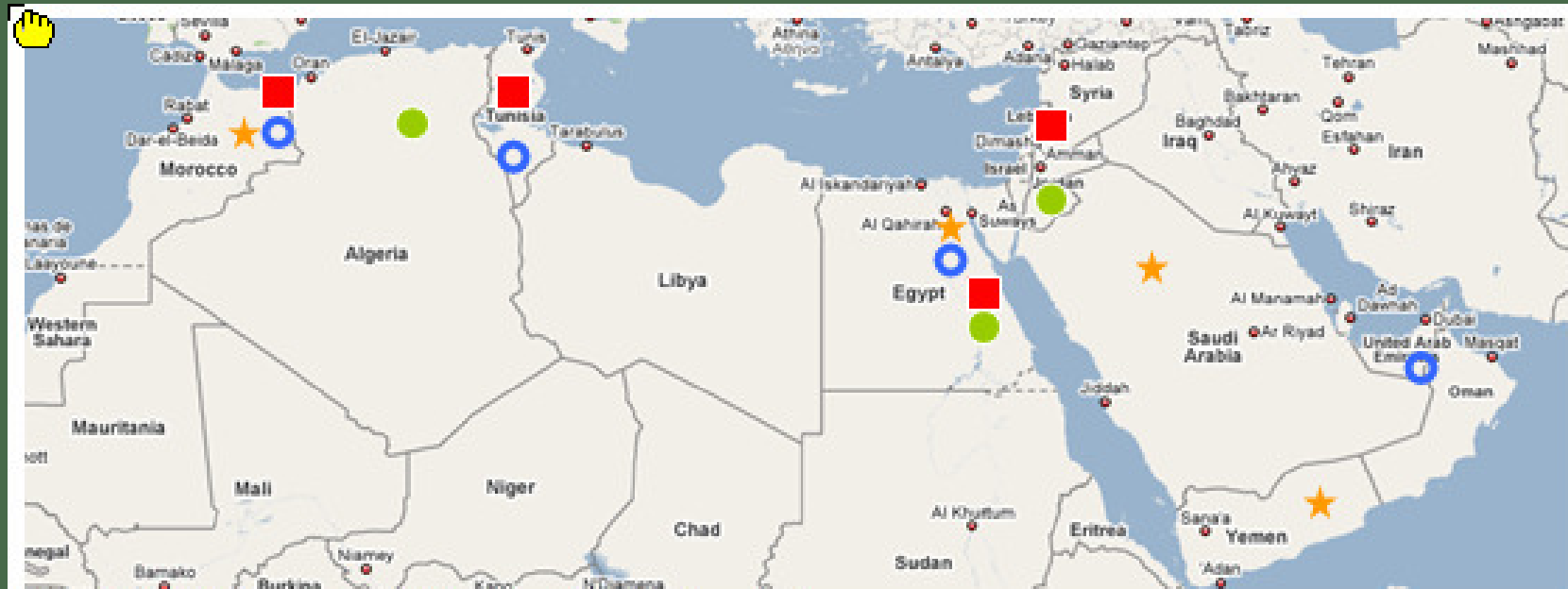
E-waste Management Activities Survey in the Arab States



- National Authorities
- Private Sector Enterprises
- NGOs
- Non-Arab Enterprises



E-waste Management Activities in the Arab Countries



Map 5.1: All E-waste activities identified in the Arab

- Private enterprises
- ★ Non Arab organizations
- Arab NGO's
- Governmental organizations

E-waste Management Activities



- Algeria
 - Assessment of E-Waste and E-Waste Recycling Facilities 2006 – 07, BCRC
- Egypt:
 - End of life mobile handset battery collection, Mobinil, 2005 -2007
 - Refurbishing old PC and IT equipment, Mobinil, 2008

E-waste Management Activities



- Jordan
 - Assessment of E-Waste and E-Waste Recycling Facilities, 2006 – 2007, BCRC
 - Project of re-using computers, Jordan Environment Society (JES),
- Morocco
 - Assessment of the current situation in Morocco CMMP, DSF, EMPA, 2007
 - Pilot Project to establish E-waste Recycle Plant, 08-09

E-waste Management Activities



- Saudi Arabia
 - E-waste screening in Saudi Arabia, Green Crescent International, 2009
- Tunisia
 - Recycling facility is operating, Anged
 - Collection and transfer of E-waste with a capacity of 1000 tons/year
- United Arab Emirates
 - UAE Telecoms Recycling Campaign, Federal Environmental Agency

E-waste Management Activities



- Yemen
 - Basic data collection on E-waste recycling in Yemen, GTZ, 2004

	Legal Framework	Inventory	Collection	Recycling & Reusing Technology
Level 1 – LOW	No legal framework, strategy, or norms	There is no inventory	There is no collection	There is no recycling/reusing mechanism
	Kuwait, Egypt, Lebanon	Kuwait, Egypt, Lebanon	Kuwait, Lebanon	UAE, Bahrain, Kuwait, Egypt, Lebanon
Level 2	There is only plan to develop legal framework	There is the inventory for municipal solid waste, but no designated inventory for E-waste.	E-waste is locally collected by local recyclers, scavengers, etc. without any legal framework. Only recyclable E-waste is well collected	Only recyclable and reusable E-waste is recycled and reused by local stakeholders
		Bahrain, UAE	UAE, Egypt	
Level 3	A legal framework is being prepared and will be issued/enforced in very near future	E-waste inventory is being prepared	E-waste is well collected by local collection mechanism. Pilot separation and collection systems have been setup	There is a plan to set up E-waste facility
	UAE, Tunisia		Tunisia	
Level 4	Enforcement, but the legal framework is not well conducted	E-waste inventory is conducted, but lack of information and data	Collection system for E-waste is operational and includes environmentally sound disposal	There is E-waste Recycling facility, but not achieve to full operation for all E-waste in the country
	Bahrain	Morocco, Tunisia	Bahrain	
Level 5 – HIGH	Full enforcement and model legal framework for other countries	E-waste inventory is fully conducted and available on website	Collection systems are fully operational. Our collection is recognized as a model system by other countries	E-waste recycling facility is fully operated for all E-waste in the country and the model as the stat oft the-art recycling facility
				Tunisia

Potential Areas of Cooperation



- **Enhance Awareness**
- **E-waste Status: Quantity and Type**
- **Establishing Legal Framework**
- **Pilot Projects**
- **Sustainable Business Solutions and Infrastructure**

Potential Partners



Non Arab Organizations	EMPA
	Digital Solidarity Fund DSF
	GTZ
	Austrian Society for Systems Engineering and Automation
	Green Crescent International
Arab NGOs	Jordan Environment Society
	Al Urdun Al Jadid Research Center
	JAWWAL
	Egyptian Assoc. for Sc. & Tech. Experts
Companies	QTEL
	Umicore (Belgium)
	AER Worldwide
	Mobinil (Egypt)
Governmental	Moroccan CPC*
	Egyptian CPC*
	Lebanese CPC*
	Anged Tunisia
	Environmental Public Authority Kuwait

E-waste Management Programme



- *Work Package 1: Rapid Assessment of E-waste in the Arab Region*
- *Work Package 2: Establish Multi-stakeholder Partnership for E-waste Management*
- *Work Package 3: Implement Awareness Campaign about E-waste Threats and Opportunities*
- *Work Package 4: Develop and Enhance capacities for Environmental Friendly E-waste management System*
- *Work Package 5: Establish E-waste Recycle Trading System*

Thank you

