



MINISTRY OF
MUNICIPAL AFFAIRS
(MoMA)



CITIES & VILLAGES
DEVELOPMENT BANK
(CVDB)



Development of a National Strategy to Improve the Municipal Solid Waste Management Sector in the Hashemite Kingdom of Jordan *Regional and Local Development Project (RLDP)*

Presented by Ammar Abu Drais
SWM Expert

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1. WHY WE IMPLEMENT THE STRATEGY

To shift from an old, inefficient, costly and environmentally unstable MSWM system towards a modern and integrated one that will be based on the “Three R's” approach (Reduce - Reuse - Recycle).

That means:

a) **Adoption of Hierarchy of integrated SWM practices**, according to the European and international policy and legislation:



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b) **Establishment of basic MSWM policy principles:**

- The **extended producer responsibility** (the primary responsibility for reducing impacts of a product and its packaging lies with the producers i.e. developer, manufacturer and all entities involved in the product chain of the product –i.e. processors, traitors, sellers, importers, etc.
- The **polluter-pays principle** (the producers or holders of MSW shall increase their participation in covering the costs of MSWM).
- The **proximity principle** (the disposal or recovery of waste shall be undertaken in one of the nearest appropriate installations, using the most appropriate methods and technologies, in order to ensure a high level of protection for the environment and public health).
- The **precautionary principle** (to avoid the threat or danger to the environment deriving from MSW, measures shall be taken even if full scientific certainty is not available).

c) *Set and Prioritization of Targets that converge in a:*

- cost effective,
 - efficient,
 - affordable, and
 - quality-service environmentally and socially sound MSWM system in Jordan,
- to meet both urban and rural needs;
 - on the overall MSWM cycle: street-cleaning, collection, transfer, treatment and disposal;
 - with mobilize human and financial resources at all levels of society:
 - government,
 - municipalities,
 - industry,
 - population;
 - with investments in infrastructures as well as with legal, organisational and institutional measures;
 - rationally allocated by Region
 - and properly distributed in short-, mid- and long-term

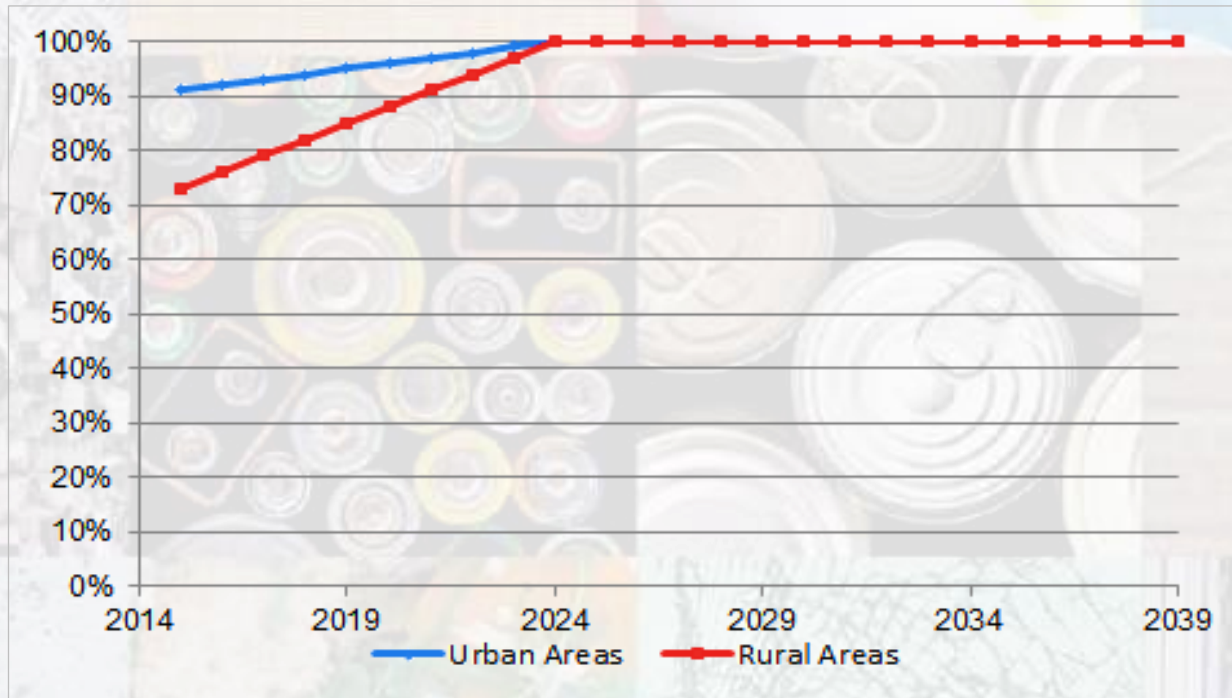
	Targets	Short-term Period (2015-2019)	Mid-term Period (2020-2024)	Long-term Period (2025-2034)
1	Serving the emergency MSWM needs due to the refugees' influx	✓	✓ (if the situation continues)	✓ (if the situation continues)
2	Coverage of MSW street-cleaning and collection services for the entire population (permanent and temporary) of Jordan	-	100% by 2024	100%
3	Cease of operation of uncontrolled or unlicensed disposal sites	50% by 2019	100% by 2024	-
4	Maximize materials' and energy recovery - Reduce quantities of MSW ending up to final disposal sites.			
	<i>Set-up of separate collection systems for recyclables (at least paper, metal, plastic and glass)</i>	Pilot Projects	Pilot Projects	50% by weight by 2034
	<i>Recovery of packaging waste and energy</i>	-	-	25% by weight by 2034
	<i>Recycling of packaging waste</i>	-	-	15% by weight by 2034

	Targets	Short-term Period (2015-2019)	Mid-term Period (2020-2024)	Long-term Period (2025-2034)
	<i>Reduction of biowaste ending-up to landfills</i>	-	-	75% by weight by 2034
5	Avoidance of co-management of MSW with hazardous or special streams currently ending up in the city containers	-	✓	✓
6	Modernization / Rationalization of MSWM Economics			
	<i>Holistic system approach for MSWM (Life Cycle Approach –LCA)</i>	✓		
	<i>Full Cost Account (FCA)</i>			
	<i>Improvement of cost recovery</i>	✓	✓	✓
	<i>Establishment of PPPs</i>	✓	✓	✓
	<i>Integration of informal sector into the MSWM system</i>	-	✓	✓
7	Administrative modernization / rationalization			
	<i>Improvement of the <u>institutional set-up</u> of local, regional and national MSWM authorities</i>	-	✓	✓

	Targets	Short-term Period (2015-2019)	Mid-term Period (2020-2024)	Long-term Period (2025-2034)
	Improvement of monitoring mechanisms for MSWM in terms of operational and environmental performance	✓	✓	✓
8	Updating the MSWM related legislative framework	✓	✓	✓
9	Public awareness and education	✓	✓	✓

2. THE IMPACTS OF THE STRATEGY

2.1 ACHIEVING TARGETS IN SOLID WASTE MANAGEMENT



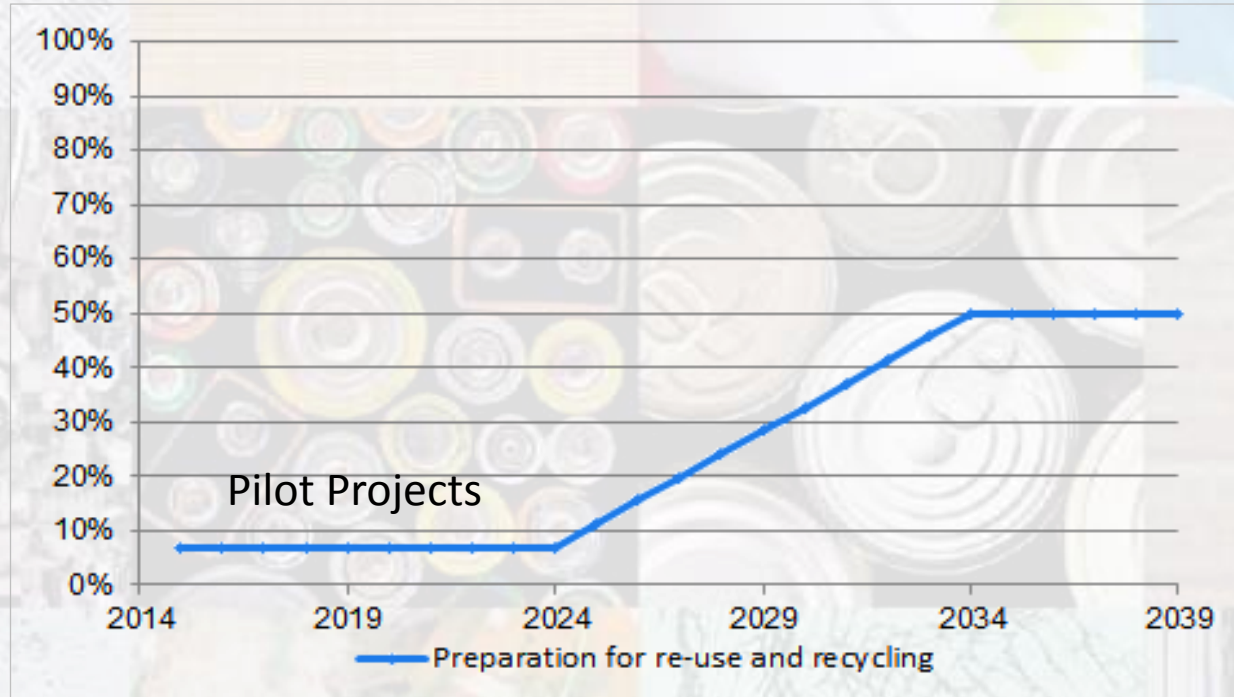
Street-cleaning and collection services' coverage

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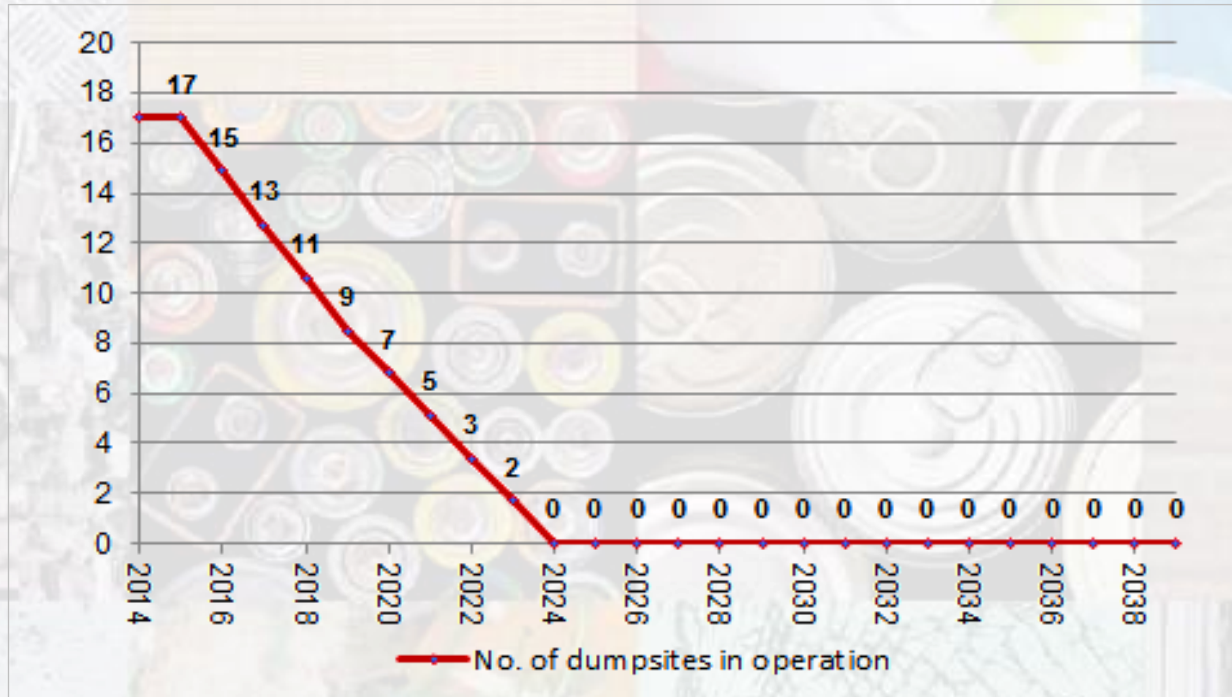


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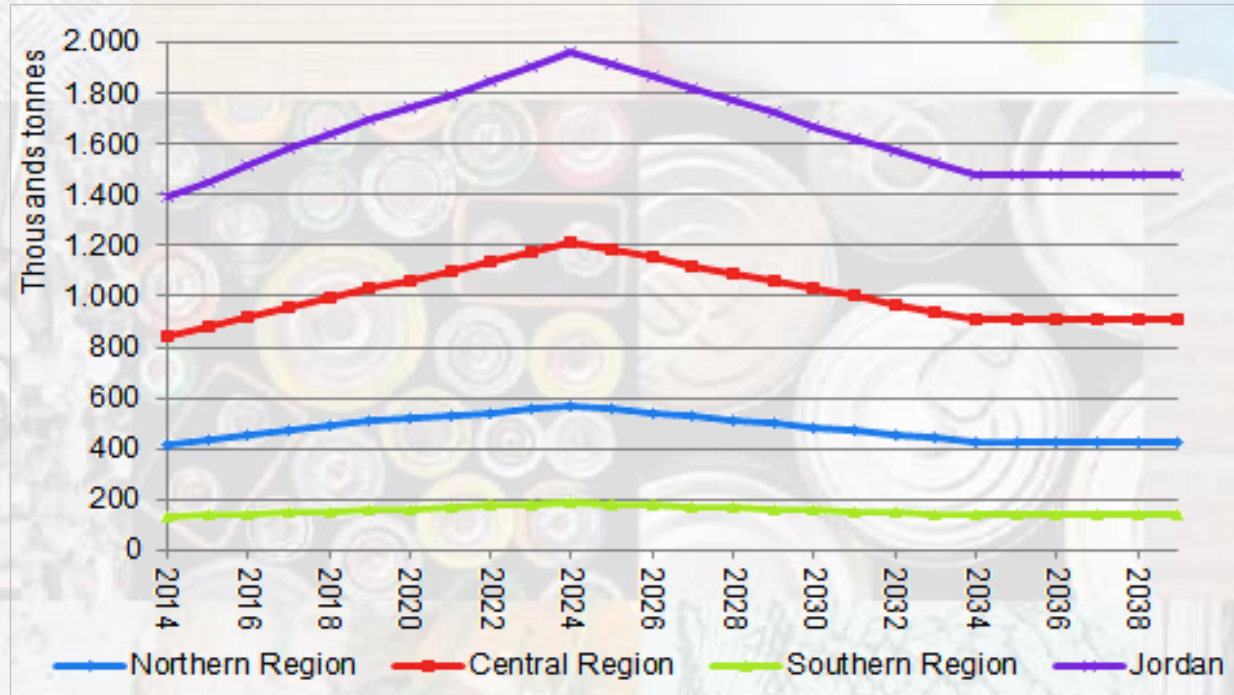




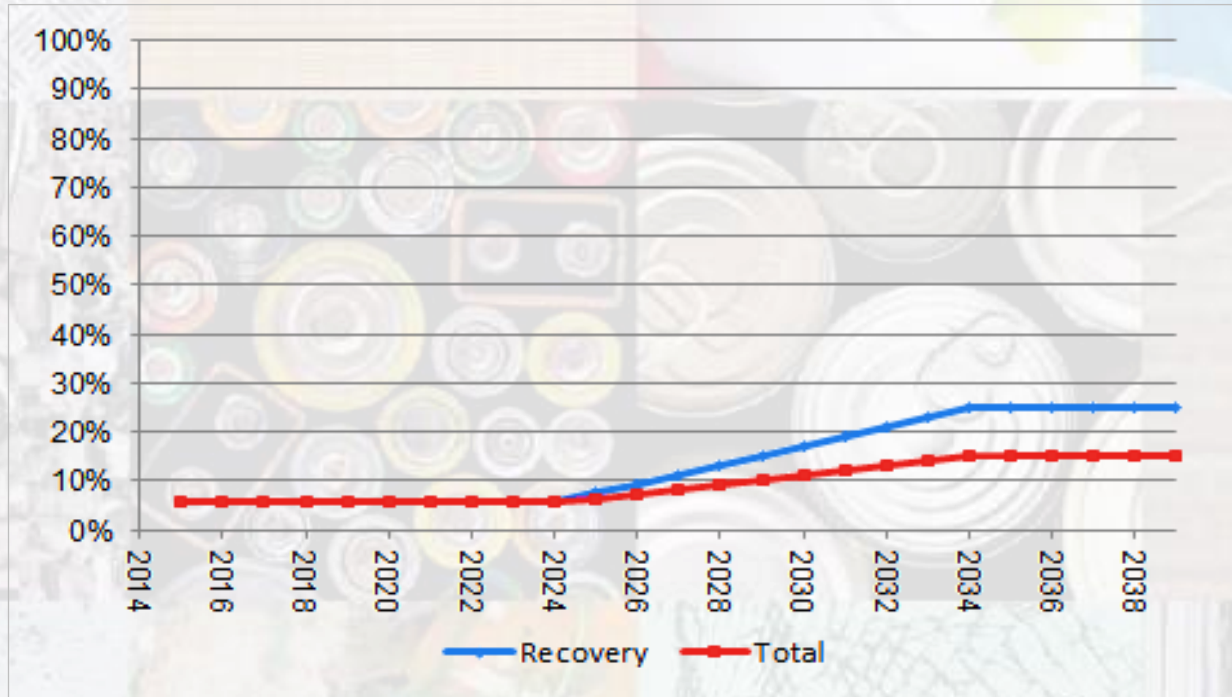
Re-use and Recycling of materials from MSW



Ceasing operation of dumpsites



Biowaste diversion from landfills



Recovery and Recycling of packaging waste

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Central Region	mil. JoD
Total investment costs	390
Revenues	395
Operational Expenses	160
Total Central Region	945

Southern Region	mil. JoD
Total investment costs	100
Revenues	50
Operational Expenses	48
Total Southern Region	198

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3a) Investment Costs by period (capital leverage)

SHORT-TERM Period (2015-2019)	
	mil. JoD
Northern Region	41
Central Region	111
Southern Region	24
SUM of Jordan	176

MID-TERM Period (2015-2019)	
	mil. JoD
Northern Region	58
Central Region	97
Southern Region	34
SUM of Jordan	190

LONG-TERM Period (2015-2019)

	mil. JoD
Northern Region	162
Central Region	322
Southern Region	79
SUM of Jordan	563

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