

# ZERO WASTE IS NOT SCIENCE FICTION

ZIAD ABICHAKE

GARBAGE MAN  
LEBANON



ZIAD ABICHAKE



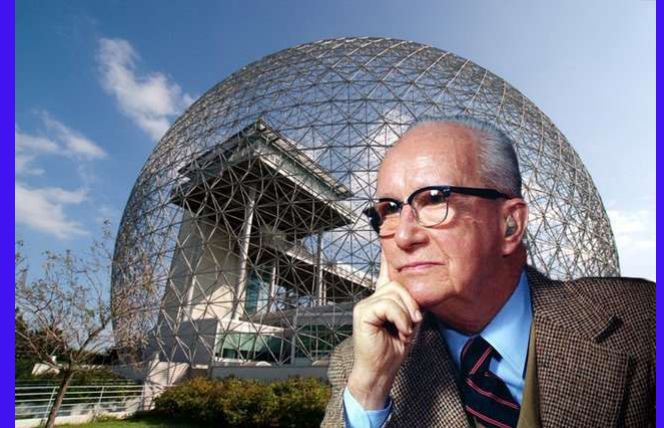
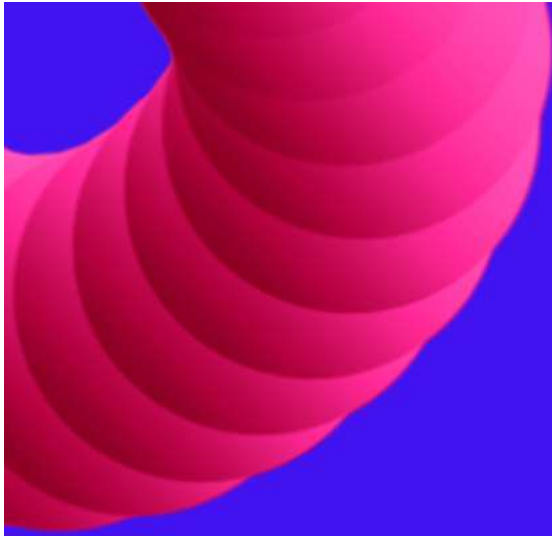
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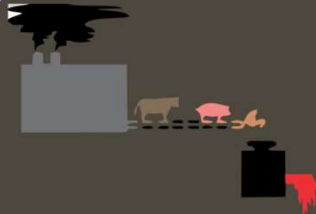
Pollution is nothing but the resources we are not harvesting.  
We allow them to disperse because we've been ignorant of their **value**.

Buckminster Fuller – Architect / Futurist

# THE 7 CATEGORIES OF WASTE



HOUSEHOLD & YARD  
WASTE



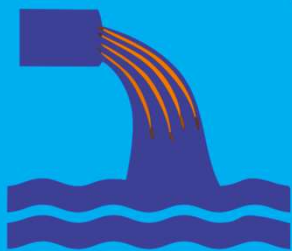
SLAUGHTERHOUSE  
WASTE



INDUSTRIAL WASTE



MEDICAL & PHARMA  
WASTE



WASTEWATER



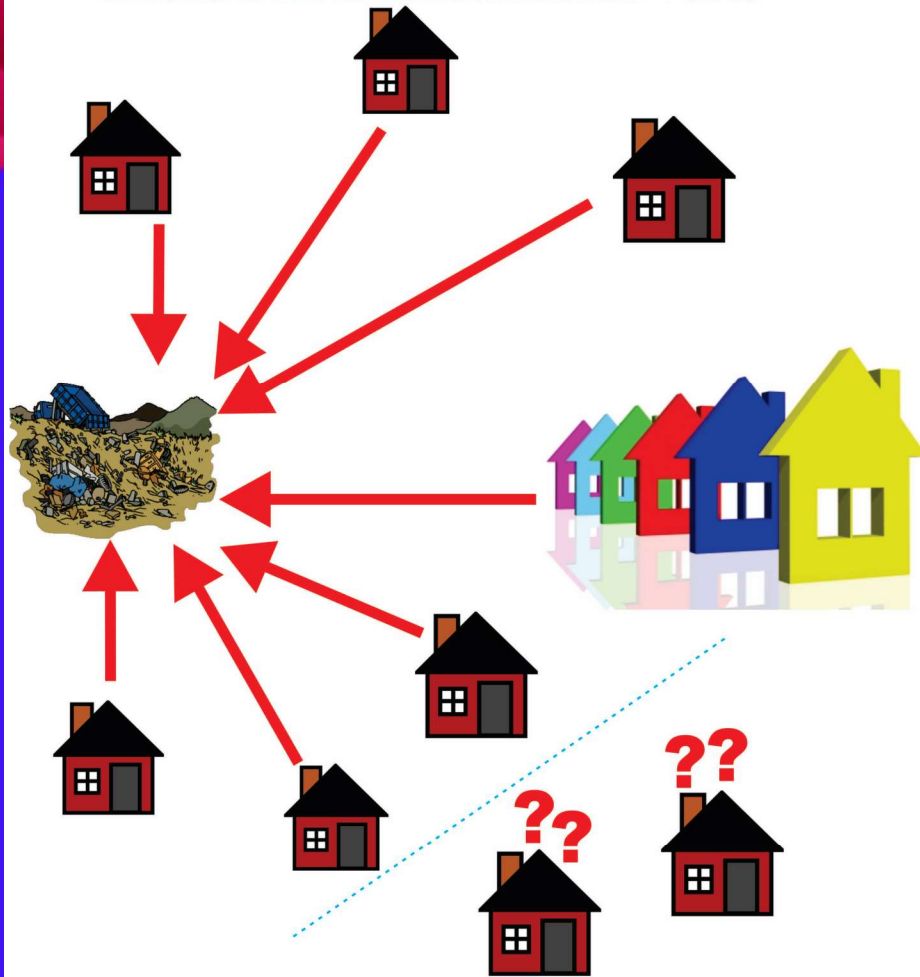
ELECTRONIC WASTE



CONSTRUCTION & DEBRIS  
WASTE

# ELASTIC vs RIGID MODEL

CENTRALISED MUNICIPAL RECYCLING FACILITY (MRF)



Waste = Problem Paradigm

DECENTRALIZED SMALLER (MRF)



Waste = Resource Paradigm



# BUILD "LOCAL" FACTORIES



# WASTE STREAM ANALYSIS

ORGANIC WASTE 70-80%



GLASS 4-6%



ALUMINUM 1-3%



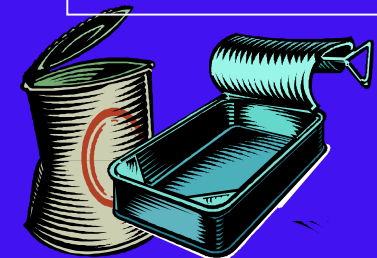
PLASTICS 10-15%



PAPER & BOARD 5-10%



METALS 2-5%









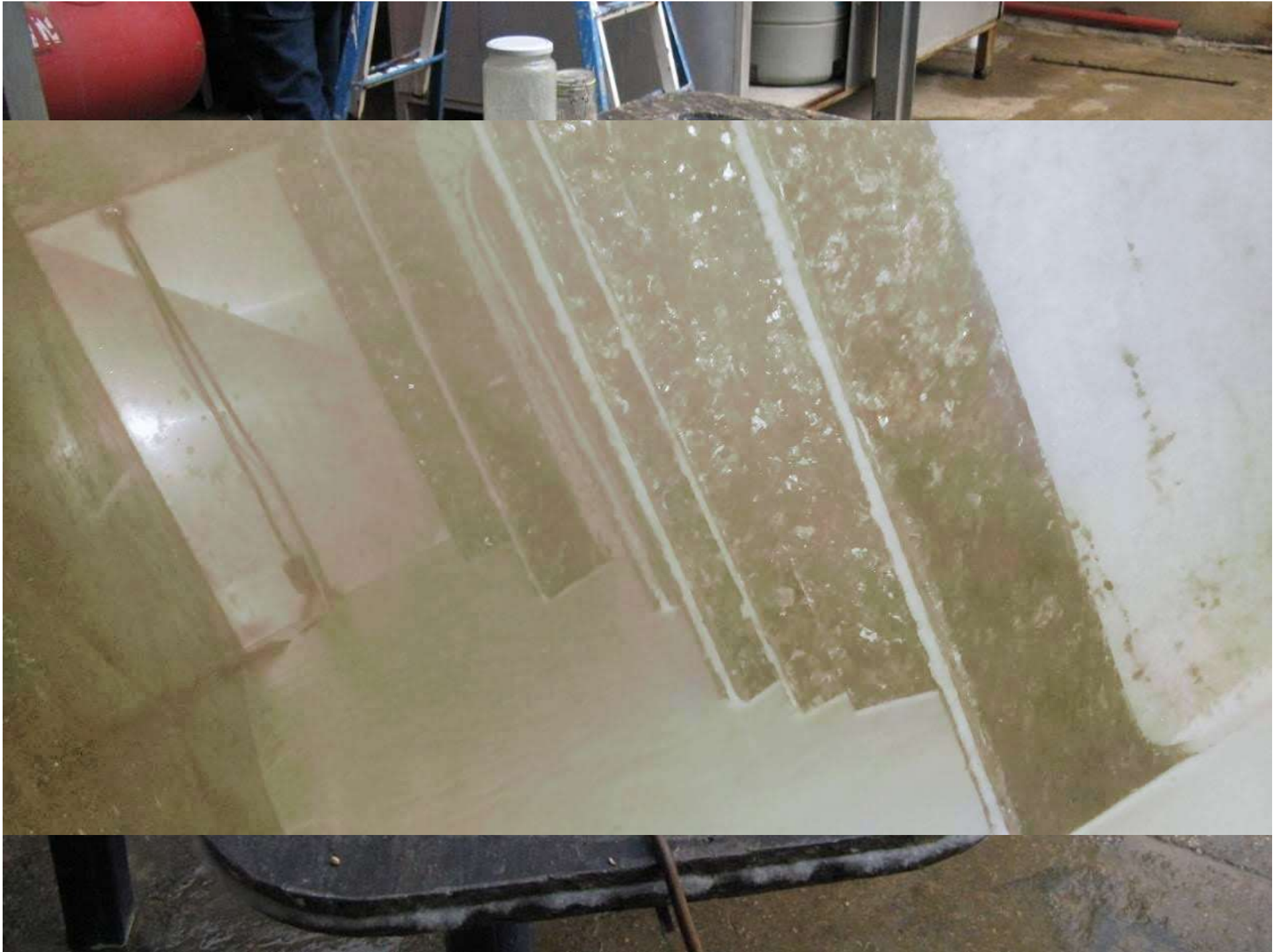
## THE POTENTIAL OF RECYCLING IN LEBANON



PET plastic bottles are recycled into ... DACRON Fibers



HDPE plastics are recycled into ... Flower Pots & Crates





## THE POTENTIAL OF RECYCLING IN LEBANON



Metals are Sorted / Baled / Exported for recycling



## PAPER & CARTON RECYCLING





# GLASS THE INFINITELY RECYCLABLE MATERIAL









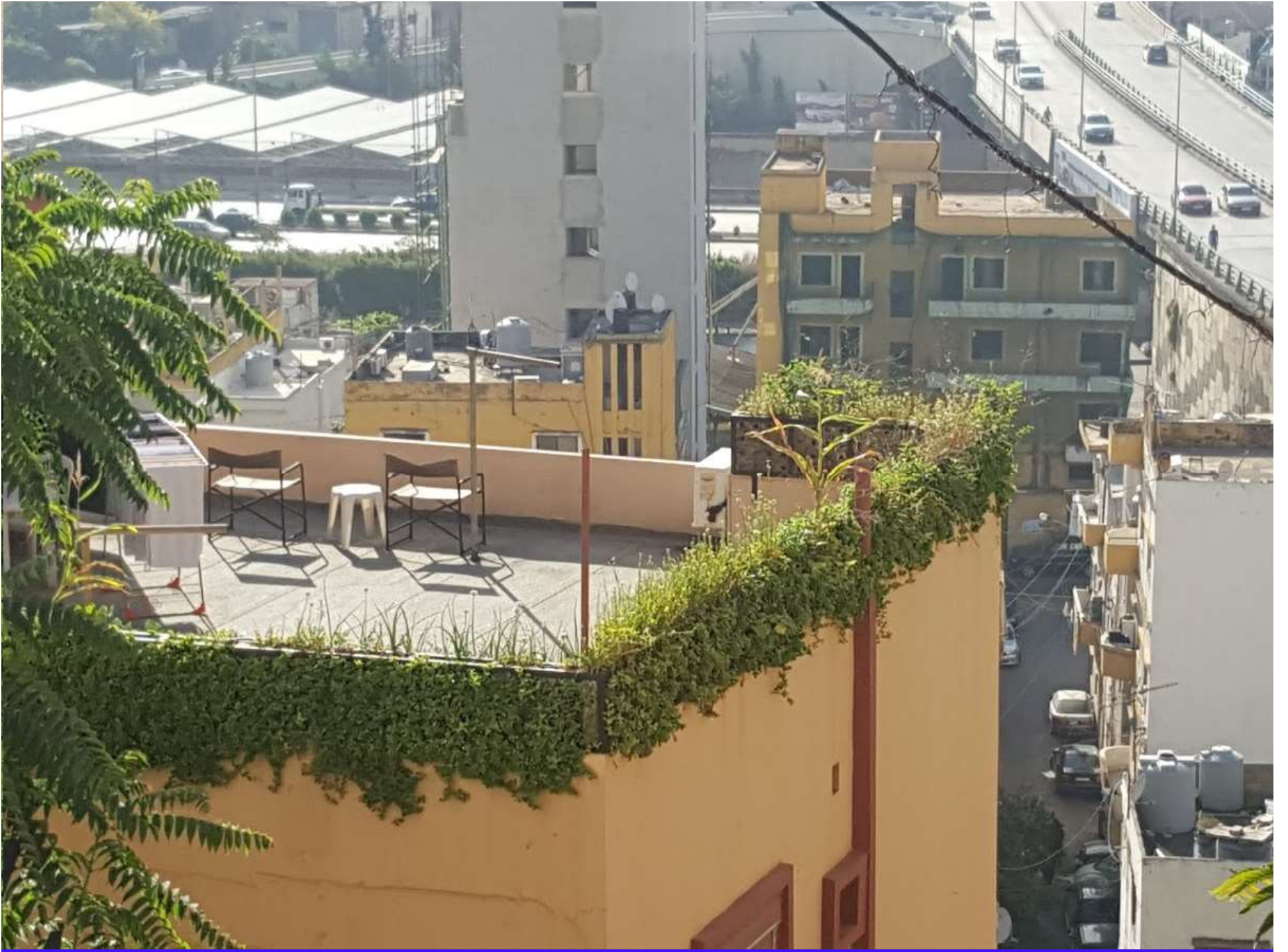




# ECOBOARDS FROM SINGLE USE PLASTICS













## SHARE WITH PUBLIC "THEIR" SORTING EFFORTS

LOCATION	Water Bottles	Glass Bottles	Paper
Mar Mikhael - Civil Defense	82,552 Bottles	85,124 Bottles	50 Trees Saved
Gemmayzeh - Red Cross	102,345 Bottles	33,022 Bottles	38 Trees Saved
Sodeco Square	205,483 Bottles	126,156 Bottles	94 Trees Saved
Sassine Square	121,138 Bottles	111,862 Bottles	81 Trees Saved
Badaro Main Street	88,448 Bottles	38,267 Bottles	34 Trees Saved
Ayn El Rihani	215,690 Bottles	18,444 Bottles	148 Trees Saved
Fahed SuperValue	371,655 Bottles	52,556 Bottles	50 Trees Saved
Beit Mery Souk	142,517 Bottles	37,040 Bottles	63 Trees Saved
Hamra Makdessi	32,759 Bottles	23,200 Bottles	
AUB Medical Gate	45,172 Bottles	15,200 Bottles	
Charcutier-Saloumeh	16,276 Bottles	11,324 Bottles	
Charcutier-Antelias	14,931 Bottles	5,271 Bottles	
Charcutier-Bauchrieh	27,241 Bottles	5,556 Bottles	
Faqra Club	7,655 Bottles	1,564 Bottles	1 Trees Saved
Kfour Municipality	284,138 Bottles	30,418 Bottles	90 Trees Saved
Beit Jeddi - Mtayn	71,586 Bottles	5,973 Bottles	18 Trees Saved
Antelias	261,793 Bottles	21,547 Bottles	66 Trees Saved
Naccache	195,310 Bottles	33,591 Bottles	60 Trees Saved
Hammana	66,690 Bottles	10,369 Bottles	15 Trees Saved
<b>SOUR</b>		2,200 Bottles	
BEE Mart - Jbeil	111,138 Bottles	9,307 Bottles	15 Trees Saved
Zouk Mikael - Val de Zouk	69,379 Bottles	4,978 Bottles	15 Trees Saved
Ajaltoun	18,690 Bottles	2,911 Bottles	5 Trees Saved
Offre Joie	5,172 Bottles		
<b>Program Running since 934 DAYS</b>	<b>2,557,759 Bottles</b>	<b>685,880 Bottles</b>	<b>844 Trees Saved</b>
Wednesday, October 7, 2020			

# BEIRUT PLANTING ROOFS



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**We are called to be  
architects of the future, not  
its victims.**

R. Buckminster Fuller



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