

Economic Incentives: Missing element in solid waste management in Sri Lanka

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Approaches to achieving public interest objectives

- Education and training
- Command and control
- Incentives

Enabling conditions:

Political leadership, Meritocracy, Open Government

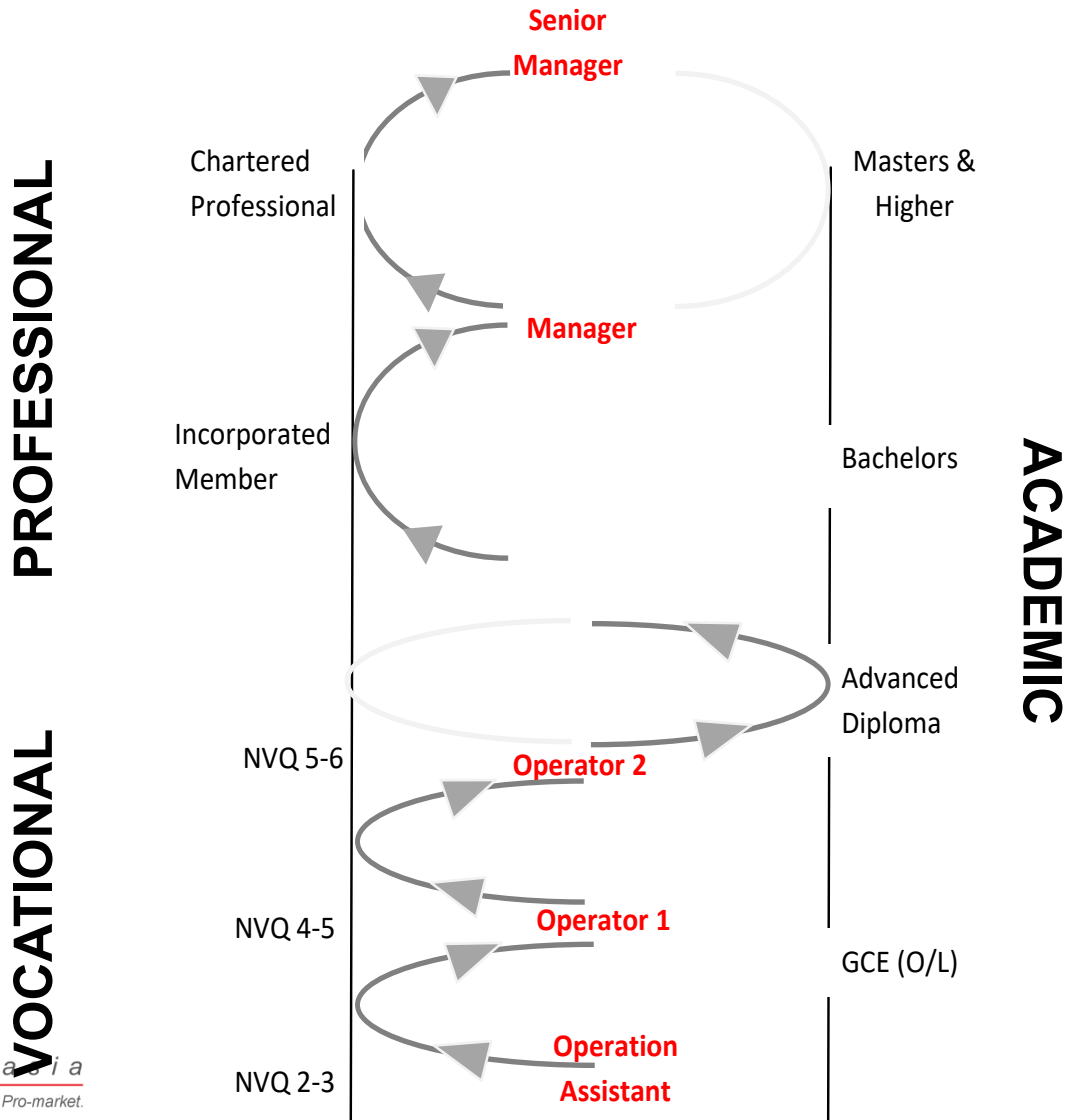
Education and training

To spread the message of 3R, for example



Education & Training

NVQ certification for solid waste workers




Education & Training

NVQ certification for solid waste workers



NATIONAL COMPETENCY STANDARDS
for
MUNICIPAL SOLID WASTE WORK SUPERVISOR
(Competency Standard Code: O90S003)



Prepared & Validated by
National Apprentice & Industrial Training Authority
971, Sri Jayewardenepura Mawatha
Wellikada
Rajagiriya



Endorsed by
Tertiary & Vocational Education Commission
354/2, Nipunatha Piyasa, Elvitigala Mawatha,
Colombo 5.

Ministry of Youth Affairs and Skills Development



Command and Control

To address environmental pollution by polythene and plastics, e.g.

Year	Gazette	Order to prohibit
2006	#1466/5	<ul style="list-style-type: none"> • Manufacture of polythene or any polythene product of twenty (20) microns or below in thickness for in country use; • Sale or use of polythene or any polythene product which is twenty (20) microns or below in thickness.
2017	#2034/33)	• Manufacture of Polythene or any Polythene product, 20 microns & below
	#2034/34)	• Manufacture of Food Wrappers. (Lunch Sheet) etc.
	#2034/35)	• Order to prohibit the Manufacture of any bag of high density (Grocery Bag)
	#2034/36	• Order to prohibit burning of refuse and other combustible matters inclusive of Plastic
	#2034/37	• Order to prohibit the use of Polyethylene products as Decorations
	#2034/38	• Order to prohibit the manufacture of food containers, plates , cups , spoons from expanded Polystyrene

Incentives

Producers

- Receive subsidies/tax breaks

Consumers

- Pay deposit/levy at the time of purchase
- Receive money for recyclable waste (with or without link to deposits)
- Pay a fee per bag of waste disposed

Recyclers

- Producers pay levy at point of production (EPR)

Waste Managers

- Pay differential fees at the landfill

Incentives – Pay differential fees at the landfill

A regulated landfill is the first step towards a ‘Circular economy’

- Karadiyana disposal site
- Kerawelapitiya Waste Park
 - Upto April 14, 2016, CMC dumped unsorted waste in Meethotamlla (Paying fees for 1600+ MT per day)
 - By April 2018, 60% of waste composted, non-biodegradables awaiting transfer to landfill

Incentives – Receive money for Recyclables

3R Society program, Schools in Balangoda & Colombo

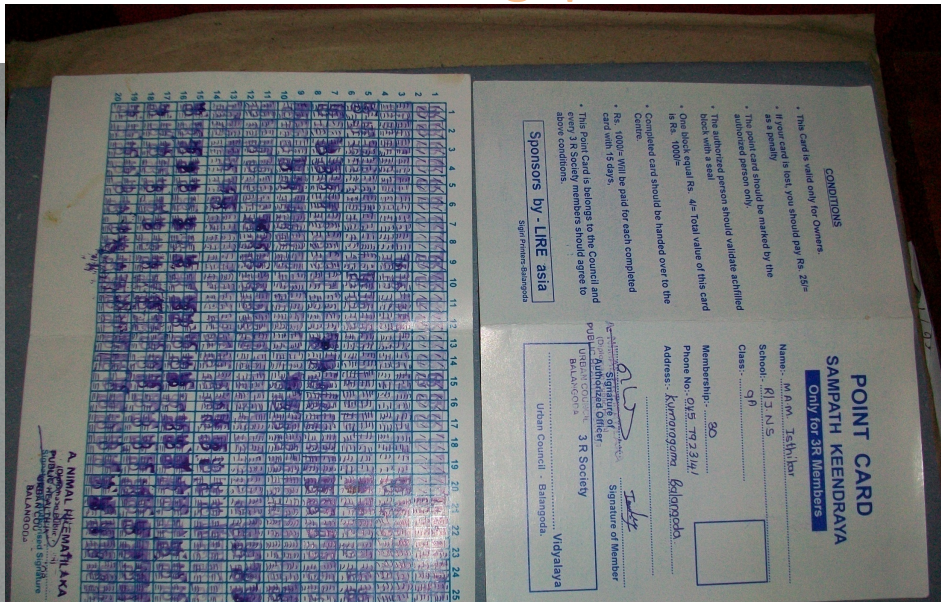
With attribution to Mr. Nimal Prematilake, Min Megapolis

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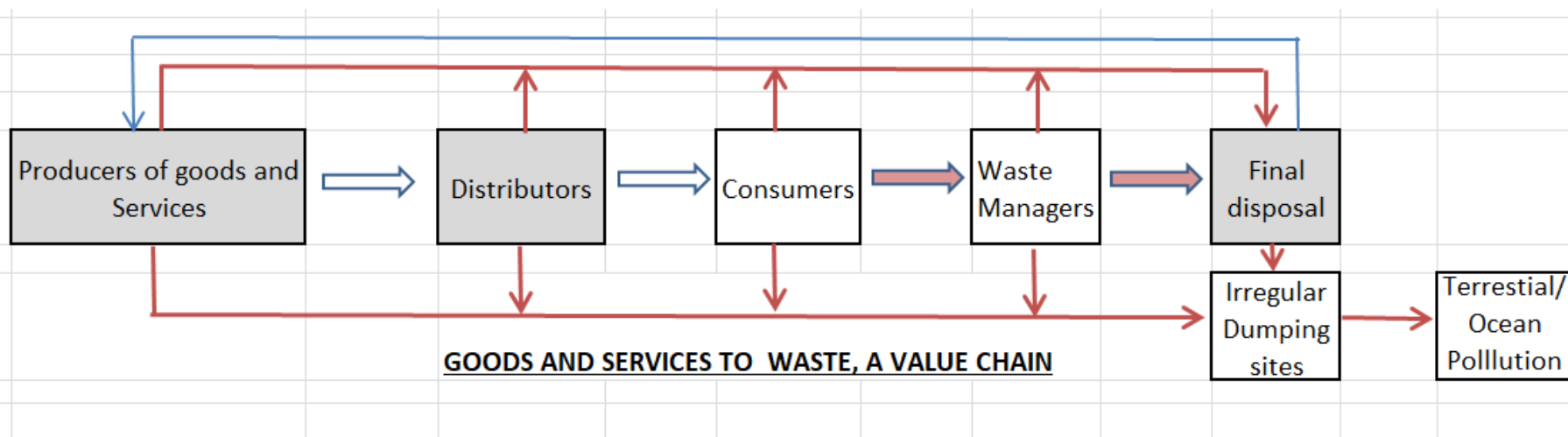
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01/19/2010

Way forward

Value chain approach beginning with the end
(as opposed to a waste hierarchy approach)



RED – Waste; BLUE – New products and services, or inputs to same; GREY – Points of influence

FINAL DISPOSAL: is the share of the total amount of waste that is finally disposed of by: (1) incineration (with or without energy recovery), (2) landfilling on a controlled ~~or non-controlled~~ site, (3) composting, (4) reuse or recycling, and (5) other disposal, measured as a percentage of total, broken down by sector (industrial and municipal waste) and by negative impact

<https://www.unece.org/fileadmin/DAM/env/europe/monitoring/Indicators/I-4-en-final.pdf>

Recommendations

- Apply economic incentives at every possible point in the waste value chain beginning with landfills
 - Several Waste Parks, managed by a public enterprise set up for the purpose (as a subsidiary of the UDA?)
 - Contain waste-leakages through buy back programs and anti-litter laws and enforcements
 - Per per bag programs, to the extent possible
 - Extended producer responsibility (EPR) fund

Thank you