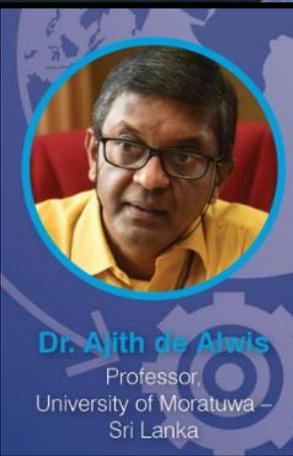


TRANSITIONING TO THE CIRCULAR ECONOMY: THE ROLE OF TRADE AND INVESTMENT POLICIES

Sri Lanka – Getting on to the circular road !

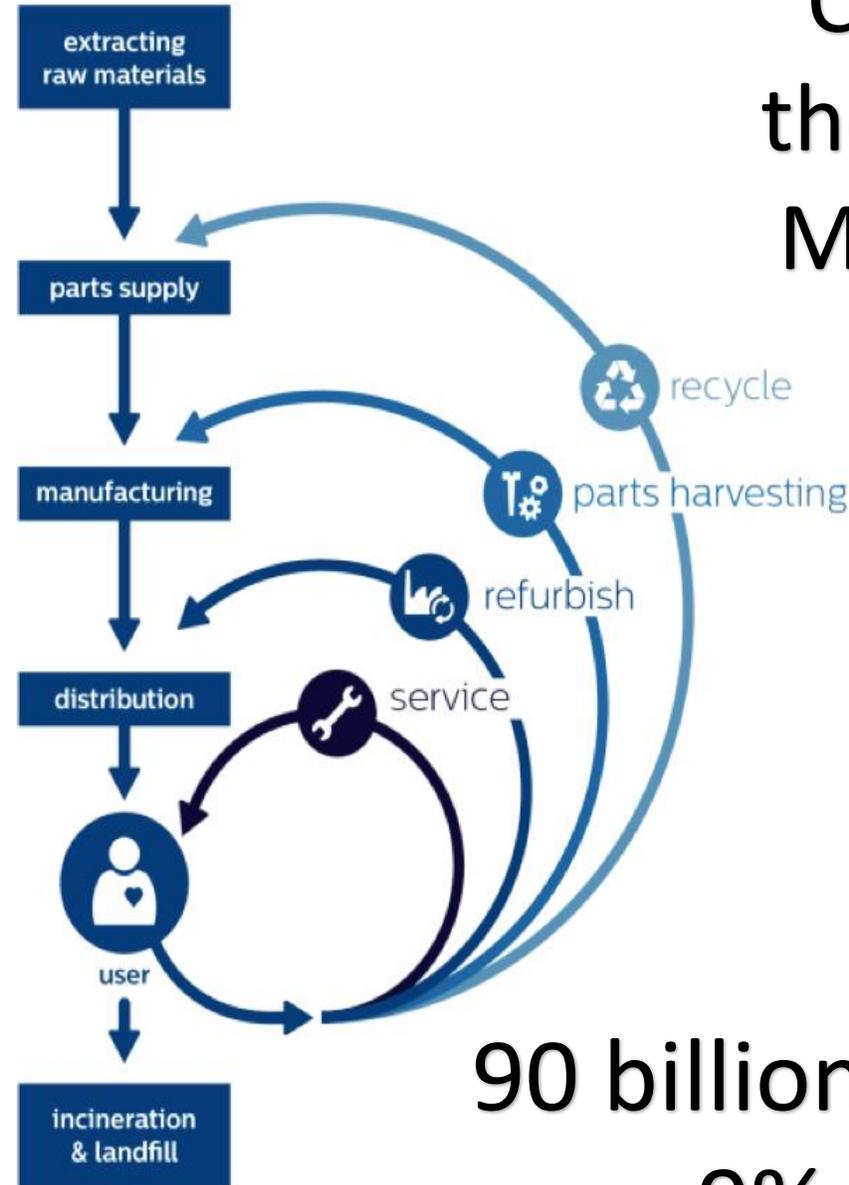
Circularity for Apparels



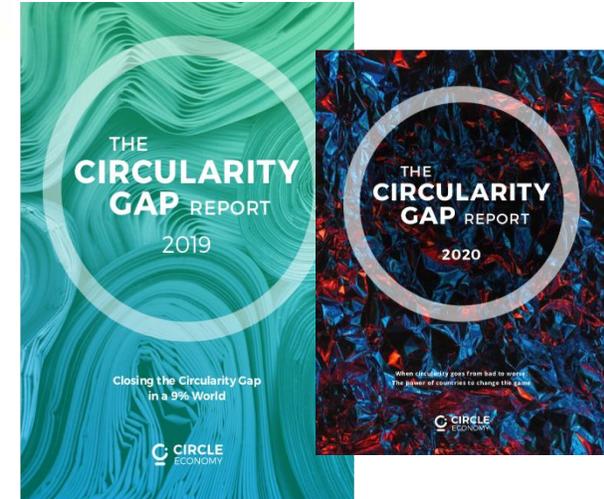


Circular Economy!

Cradle-to-Cradle

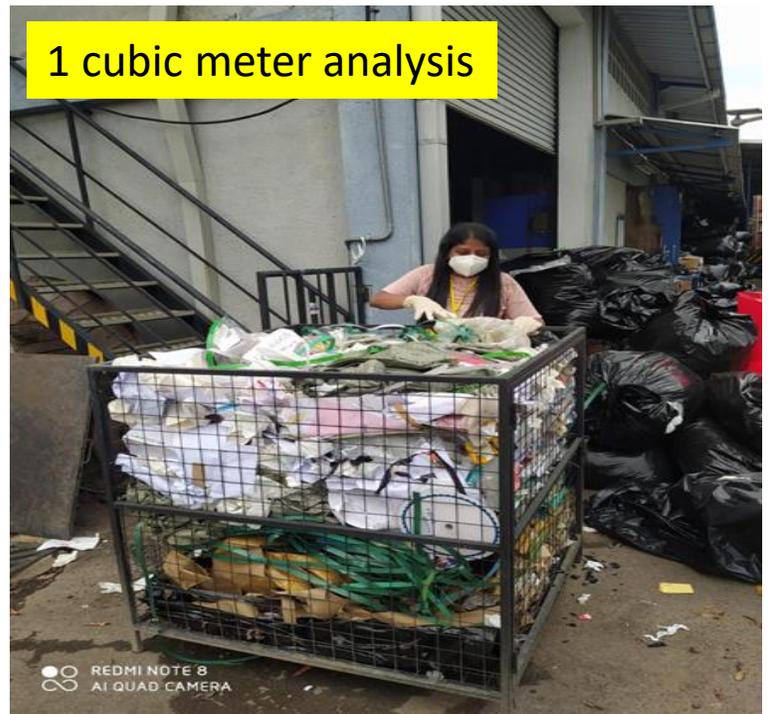
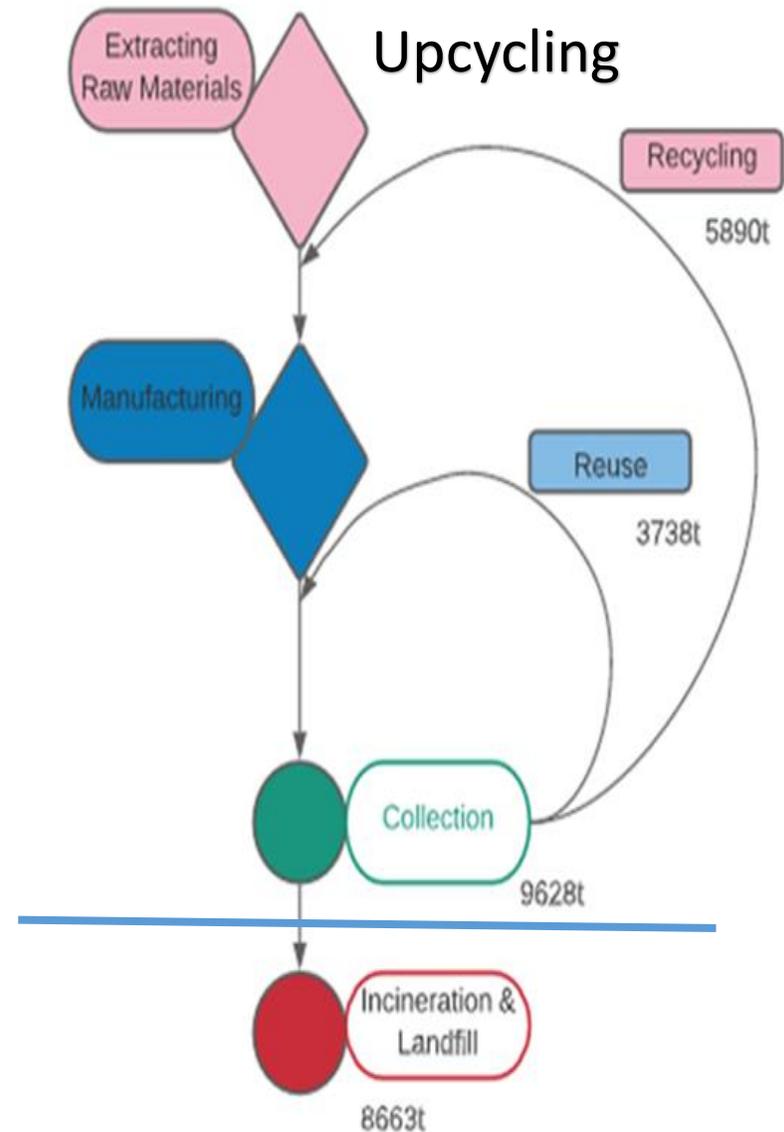
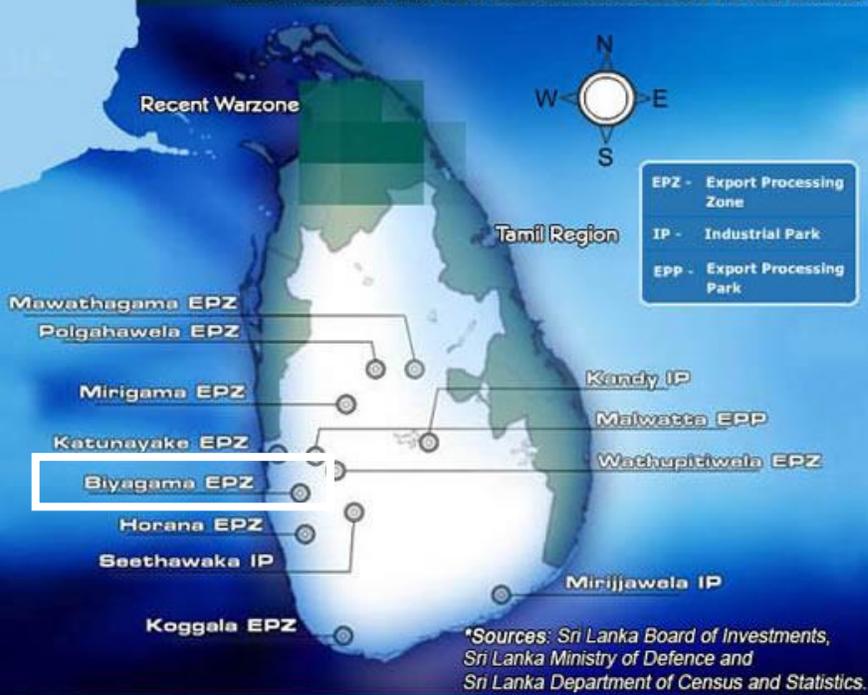


CE maximizes the value of the Materials in an Economy

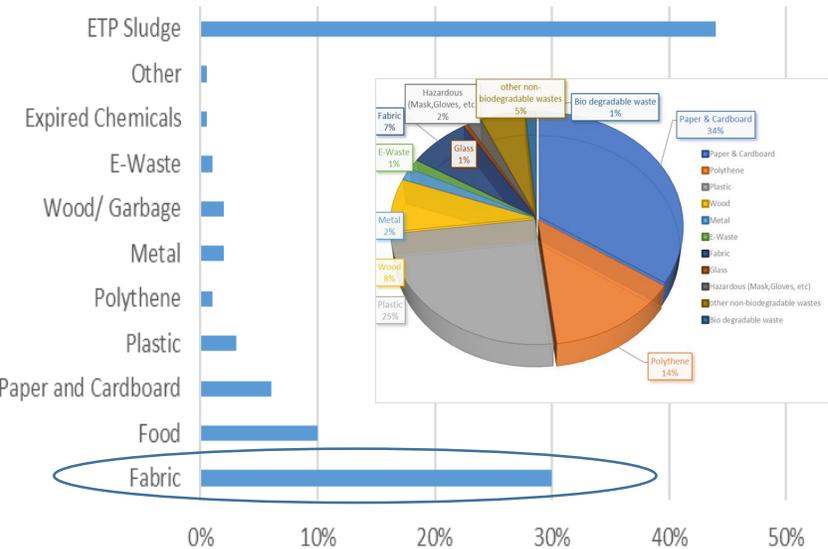


90 billion MT – extract
9% recycled

LOCATIONS OF EXPORT PROCESSING ZONES IN SRI LANKA

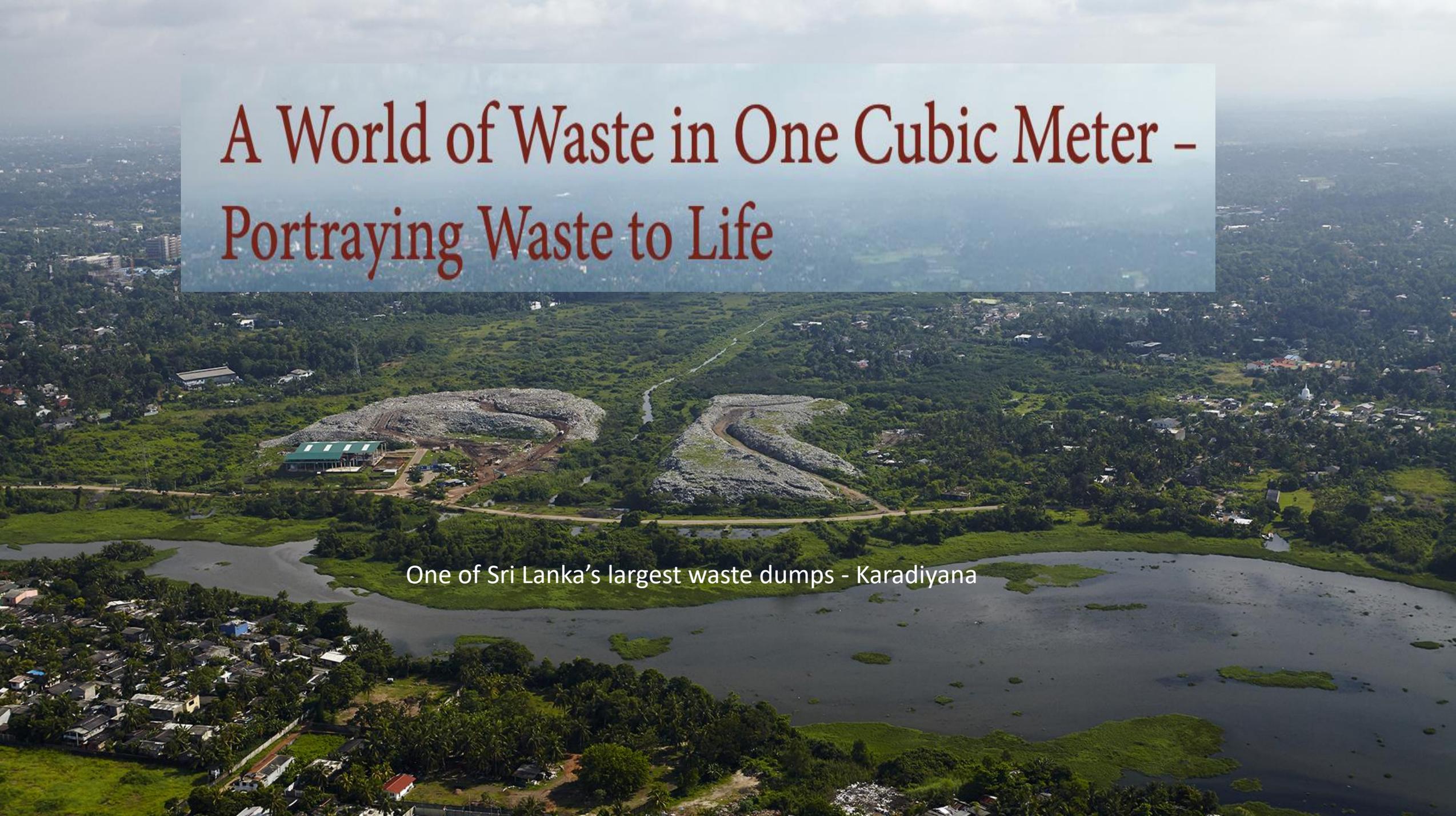


EPZ -Biyagama



A World of Waste in One Cubic Meter – Portraying Waste to Life

One of Sri Lanka's largest waste dumps - Karadiyana

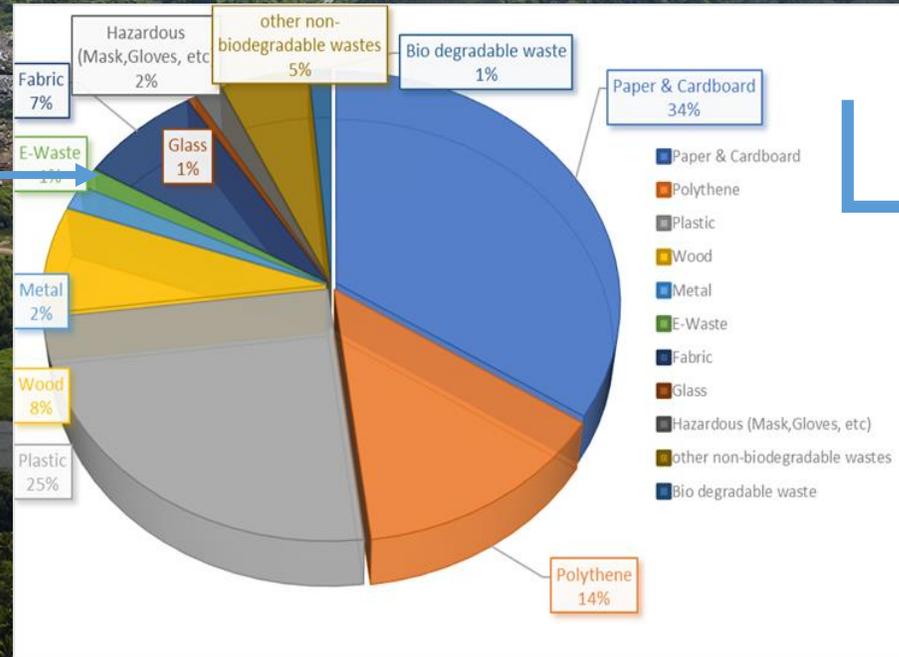
An aerial photograph of the Karadiyana waste dump in Sri Lanka. The image shows two large, prominent mounds of greyish-brown waste material, likely plastic and other debris, situated in a lush green landscape. A dirt road winds through the waste mounds. In the foreground, there is a large, dark, irregularly shaped water body, possibly a pond or a small lake, surrounded by green vegetation. The background shows a residential area with houses and trees, and a hazy horizon under a cloudy sky.



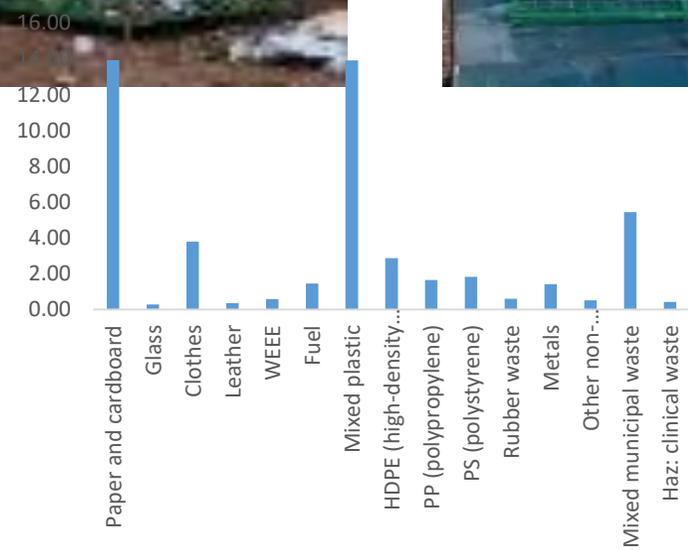
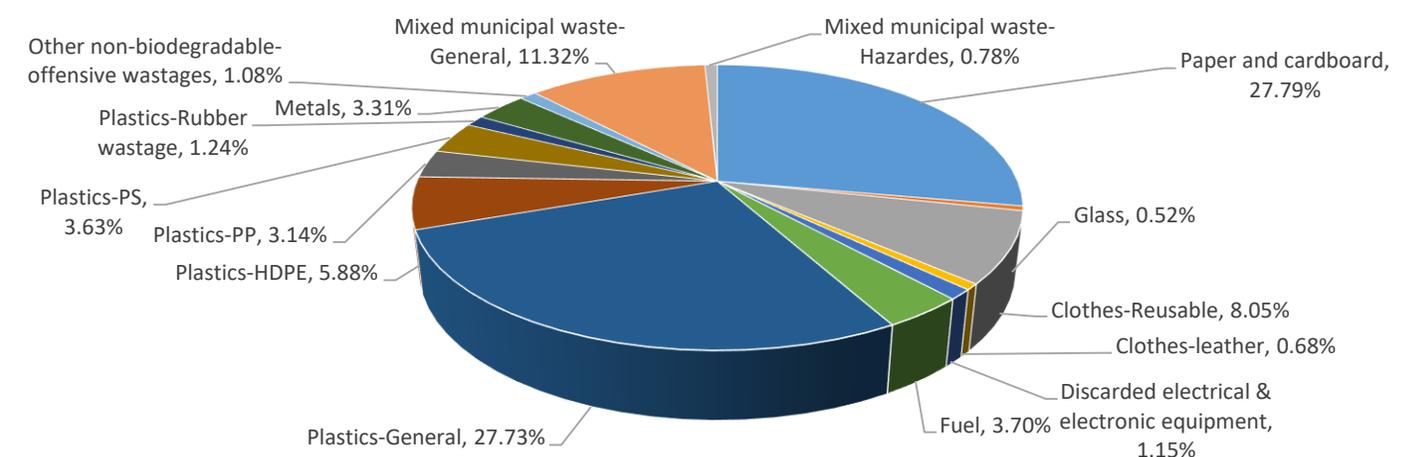
Principle of 1 Cubic Meter Analysis



Arosha (UoM)



Valuation
(USD)



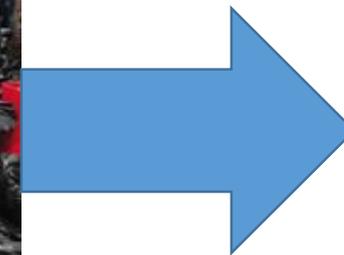
**1 m3 = 49 kg = 42.6 kg recyclable value
= (using R-value tables) = 1299 LKR (8.1 USD)**

Material circularity –Industrial waste and MSW

- Average annual volume of mixed waste generation = 448,275.8 m³
- The Economic value of one cubic meter volume of industrial industrial waste was approximately 1622 LKR.

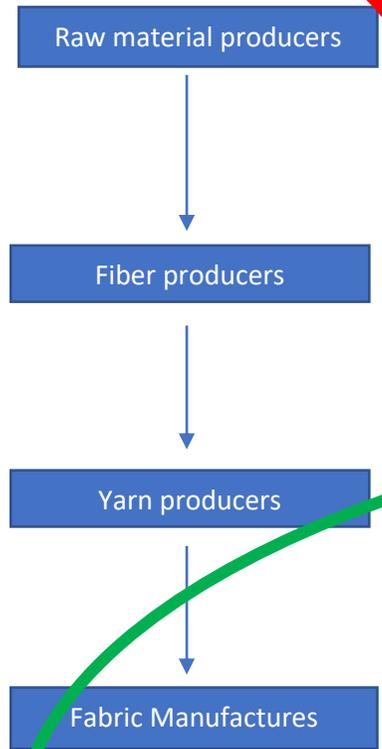
(with Zero Waste Option – 727 .1 million Rupees / 2 mn USD)

(Biyagama EPZ)

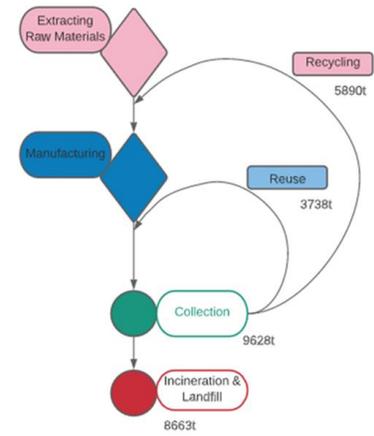


2 mn USD

Material Circularity model: Fabric waste



Organic fibre path



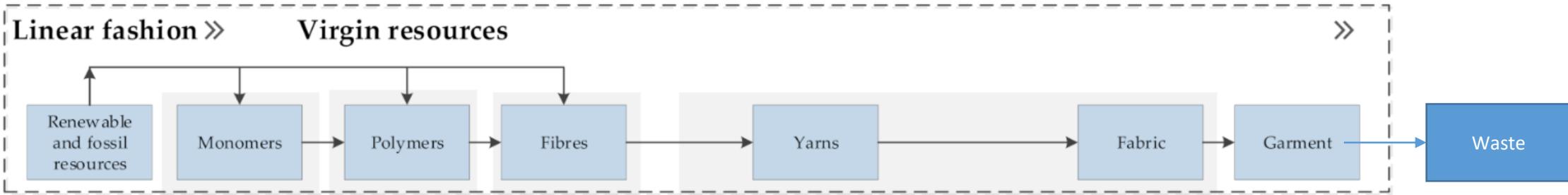
a

b

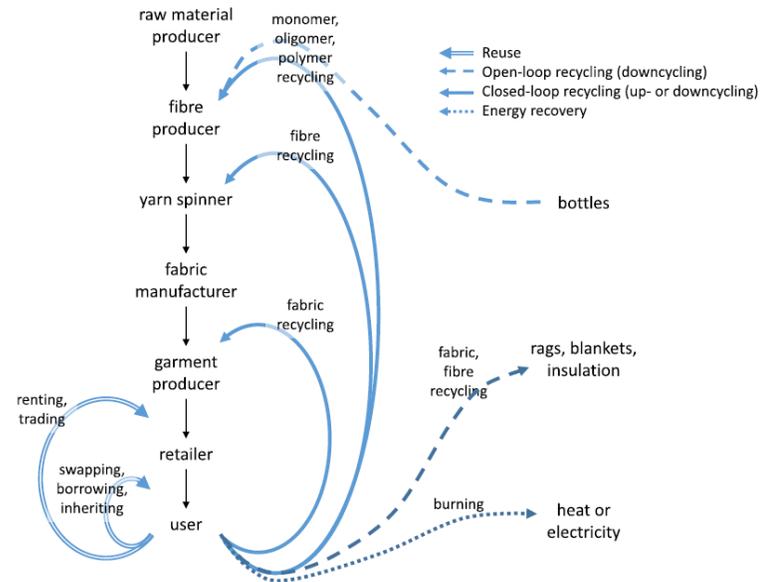
c

d

— Outside SL
— Inside SL

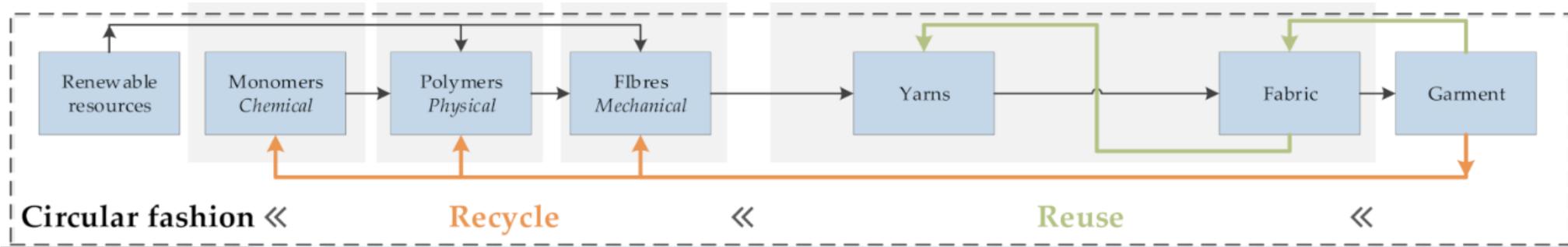


Edirisinghe Lakmini (UoM)



Circularity Pathways - Database

INVOLVED COMPANIES		EXCHANGE DESCRIPTION		Level of completion of the exchange (implemented/planned/under feasibility)		
Donor	Receiver	Exchange Input	Exchange details			
Company name	Main business	Company name	Main business	Waste description	Final use of the waste by the receiver company	
Enipower power station	Power plant	ENI refinery	Refinery	Vapour and demineralised water	Process heat	Implemented
Enipower power station	Power plant	ENI refinery	Refinery	Electricity	Process energy	Implemented
Enipower				Sea and well water,		



Beach Cleanups – PET collection



Threat to Thread and ...

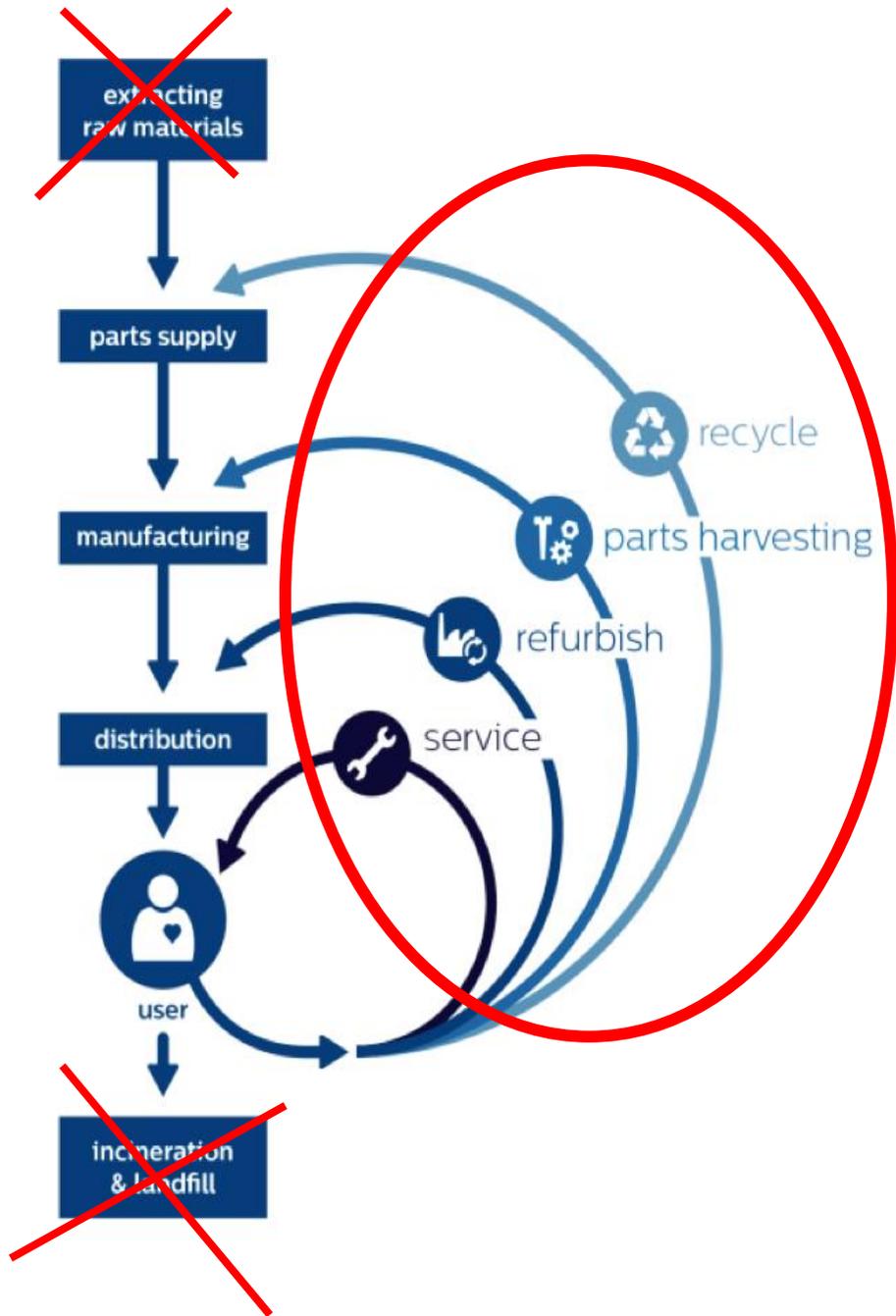


Trash to Cash (Chakra start-up Sri Lanka)
PET bottles Wending Machine
Reverse supply chain



Eco-spindle Plant
(PET bottles to Yarn)
90 million PET bottles per year
Horana – Sri Lanka





To save the planet
Going circular
Is important!

Circularity

- Is a choice
- Modifies Trade
- Needs investment

Our Target for Sri Lanka

Value of Resource Recovery – circularity index

Optimizing via a model to support Decision Making

Investment can be identified

Trade modified – more value driven

Recycle Power!

– Lesson for circular economy



Nine Dragons is the world's No.1 containerboard play.