



DEVELOPING A CIRCULAR ECONOMY MODEL FOR E-WASTE WITH EMPHASIS ON DEVELOPING COUNTRIES

J. Snyman & J. Snyman

Outline

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REUSE

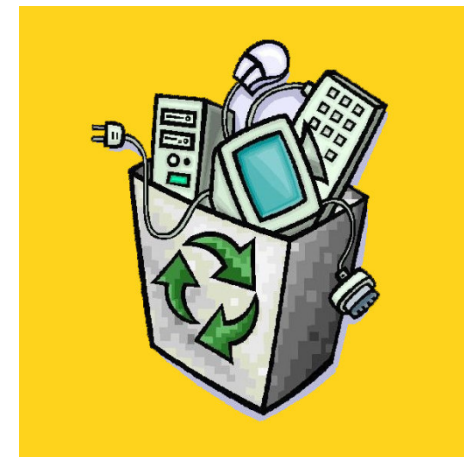
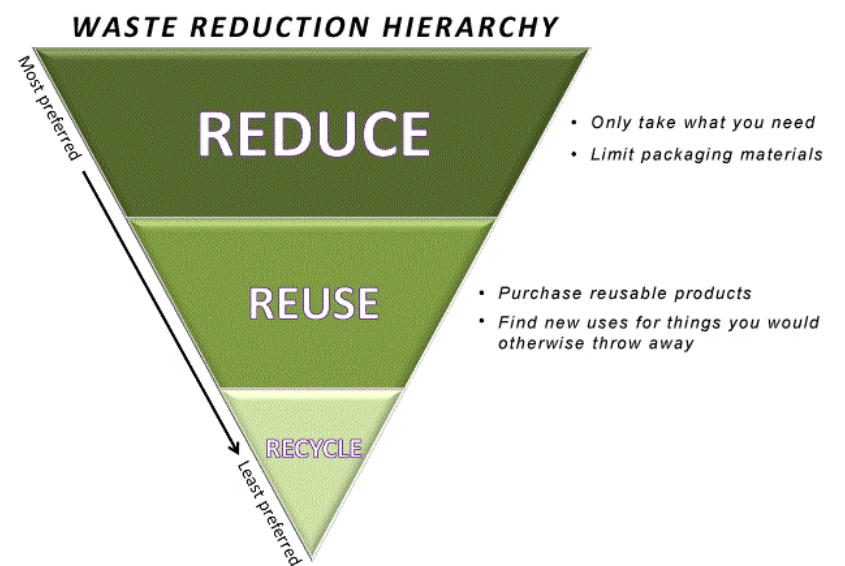


BEST

RECYCLE



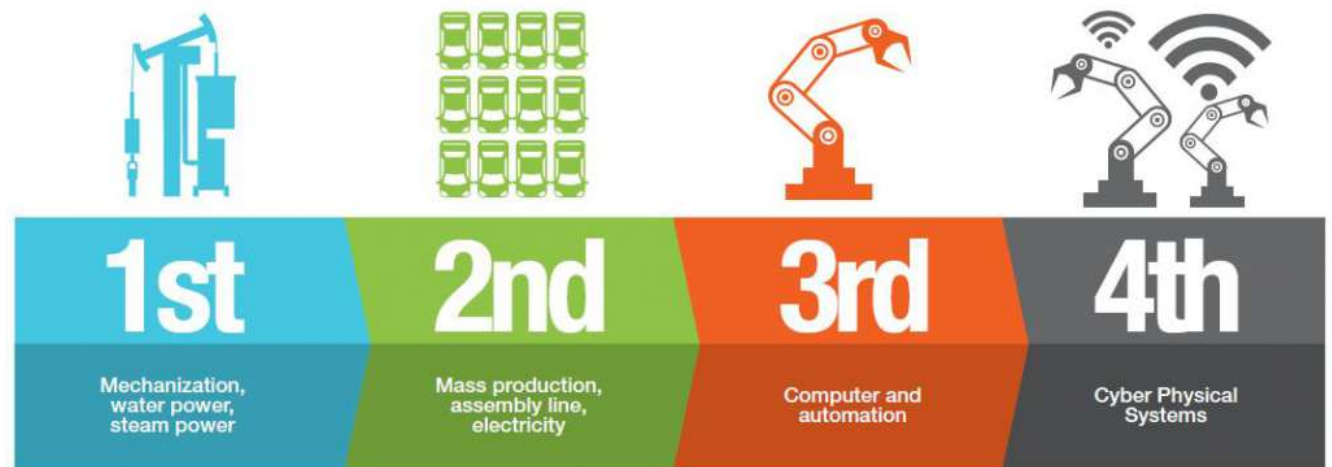
GOOD





Introduction

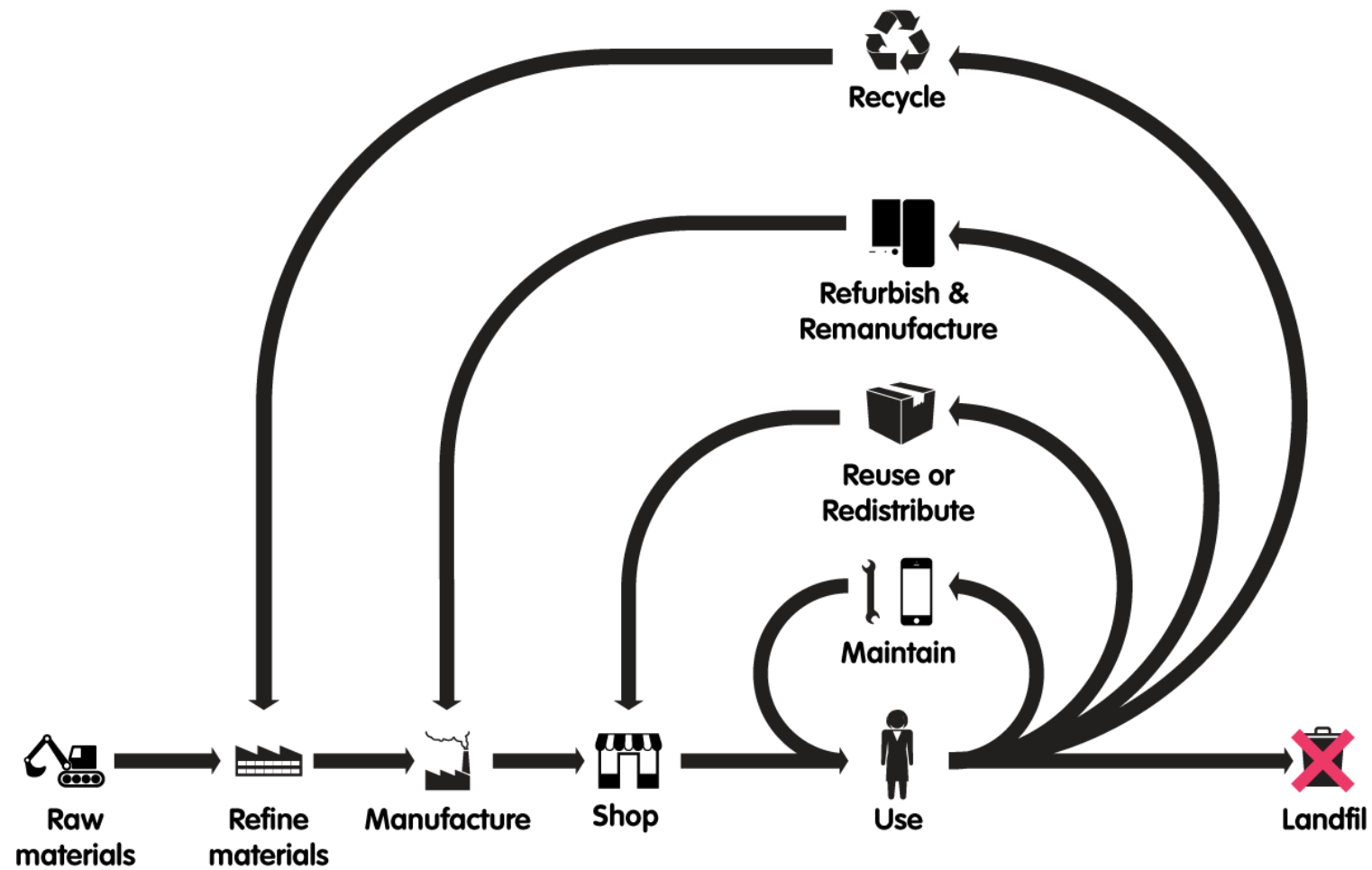
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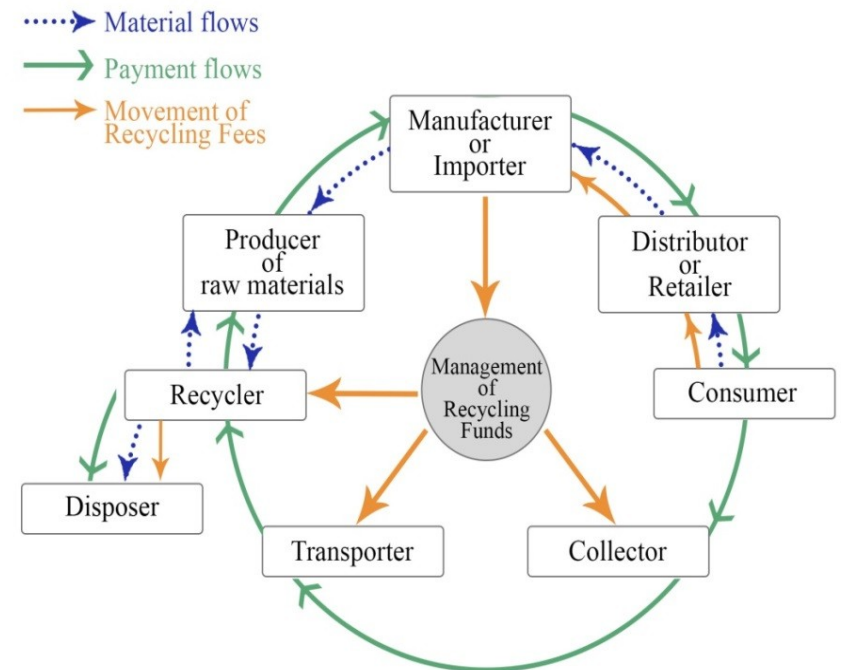
Aim of the study



Aim of the study



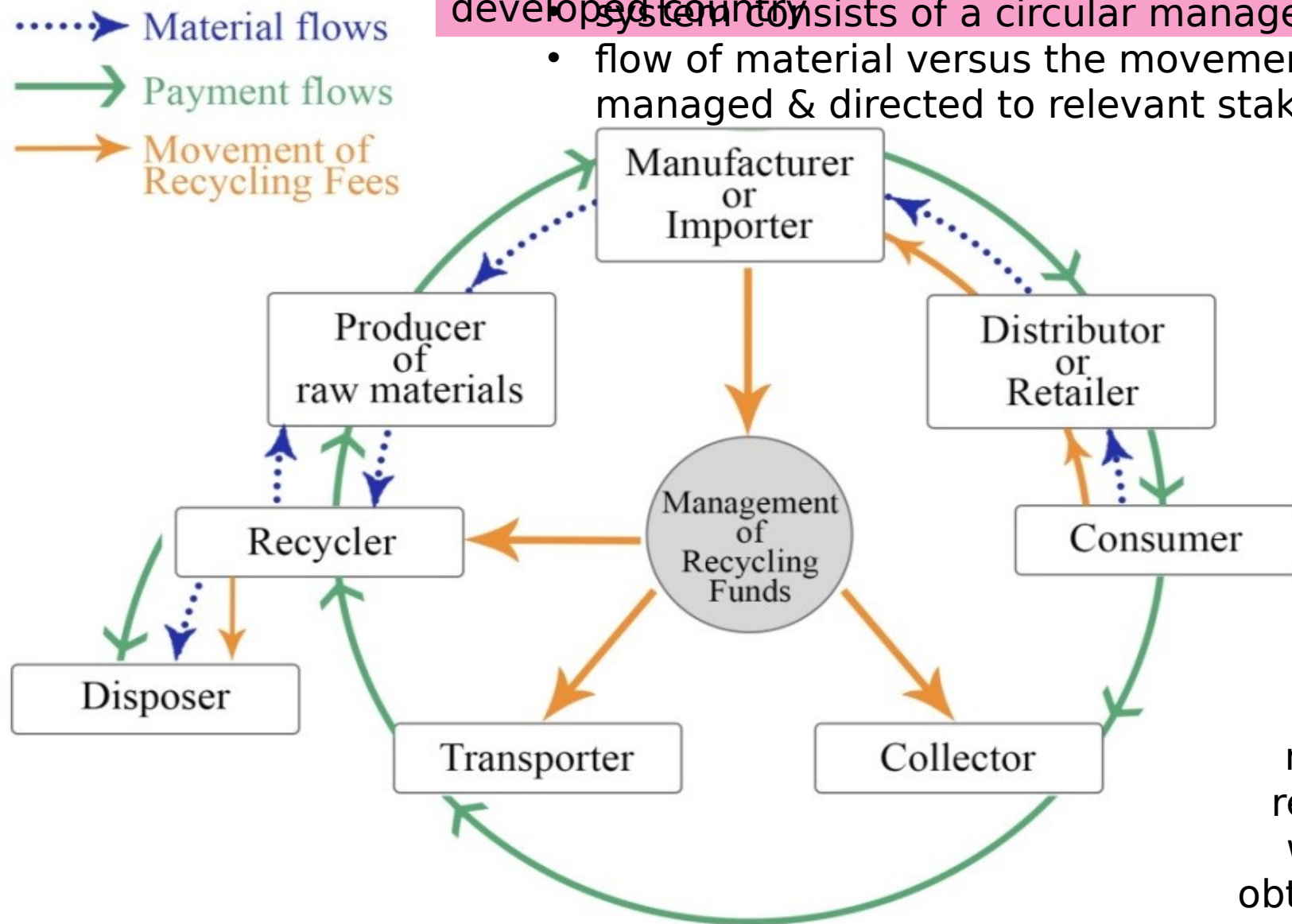
Legislation and programmes



Legislation and programmes

Typical e-waste management model of a developed country

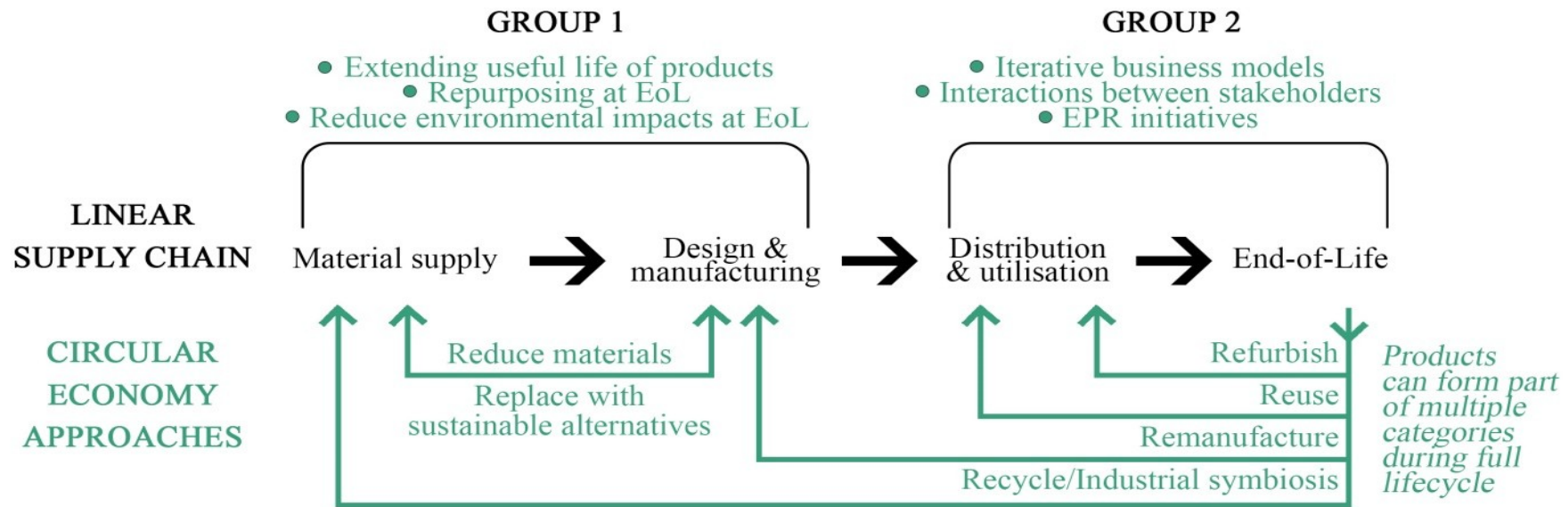
- flow of material versus the movement of funds is managed & directed to relevant stakeholders.



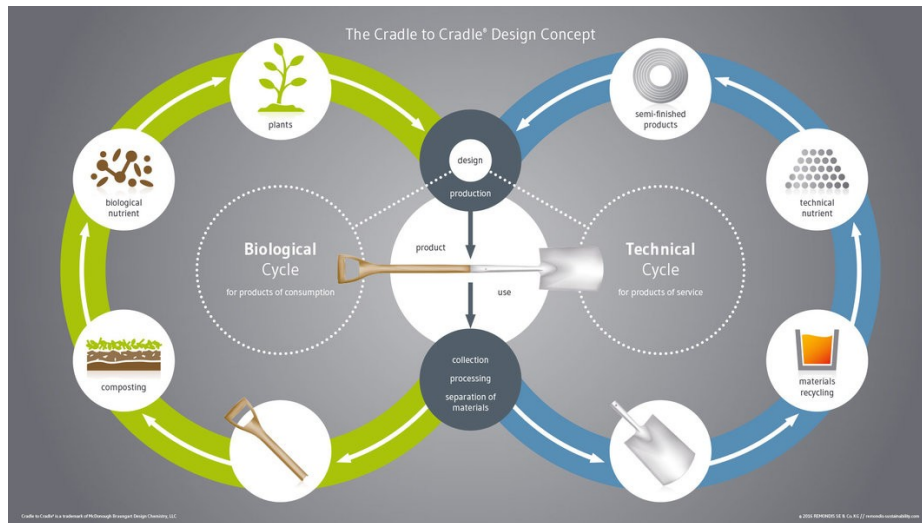
Note - an authority manages the recycling fees, which is only obtained from the manufacturer and

Legislation and program mes





BS 8001: 2017 A new standard for the Circular Economy



End-to-End: Reverse Logistics



Linear economy



Technical & biological materials mixed up

Energy from finite sources

Circular economy



Biological materials

Technical materials

Energy from renewable sources

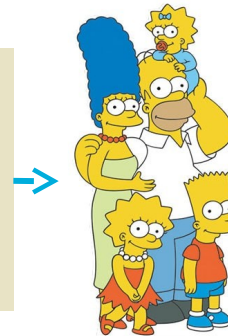
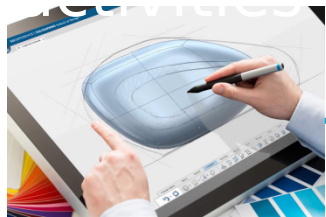


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and efficiency



Activities for the circular waste model



A

- Government's
- Law enforcement
- Legal systems (national & international level)



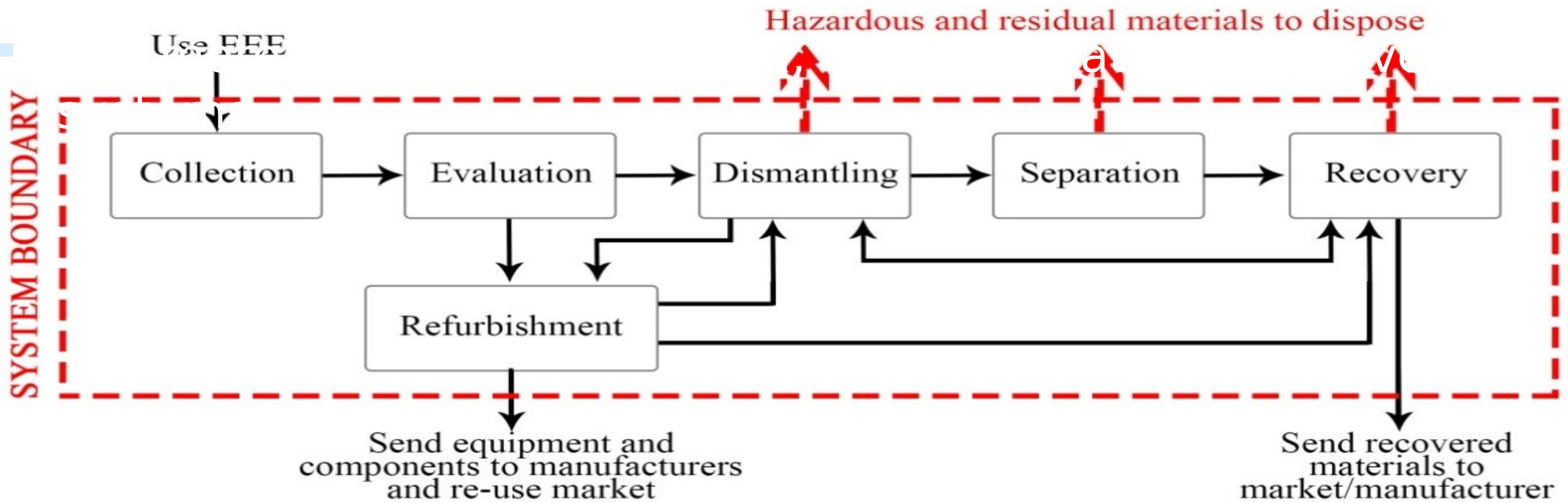
B

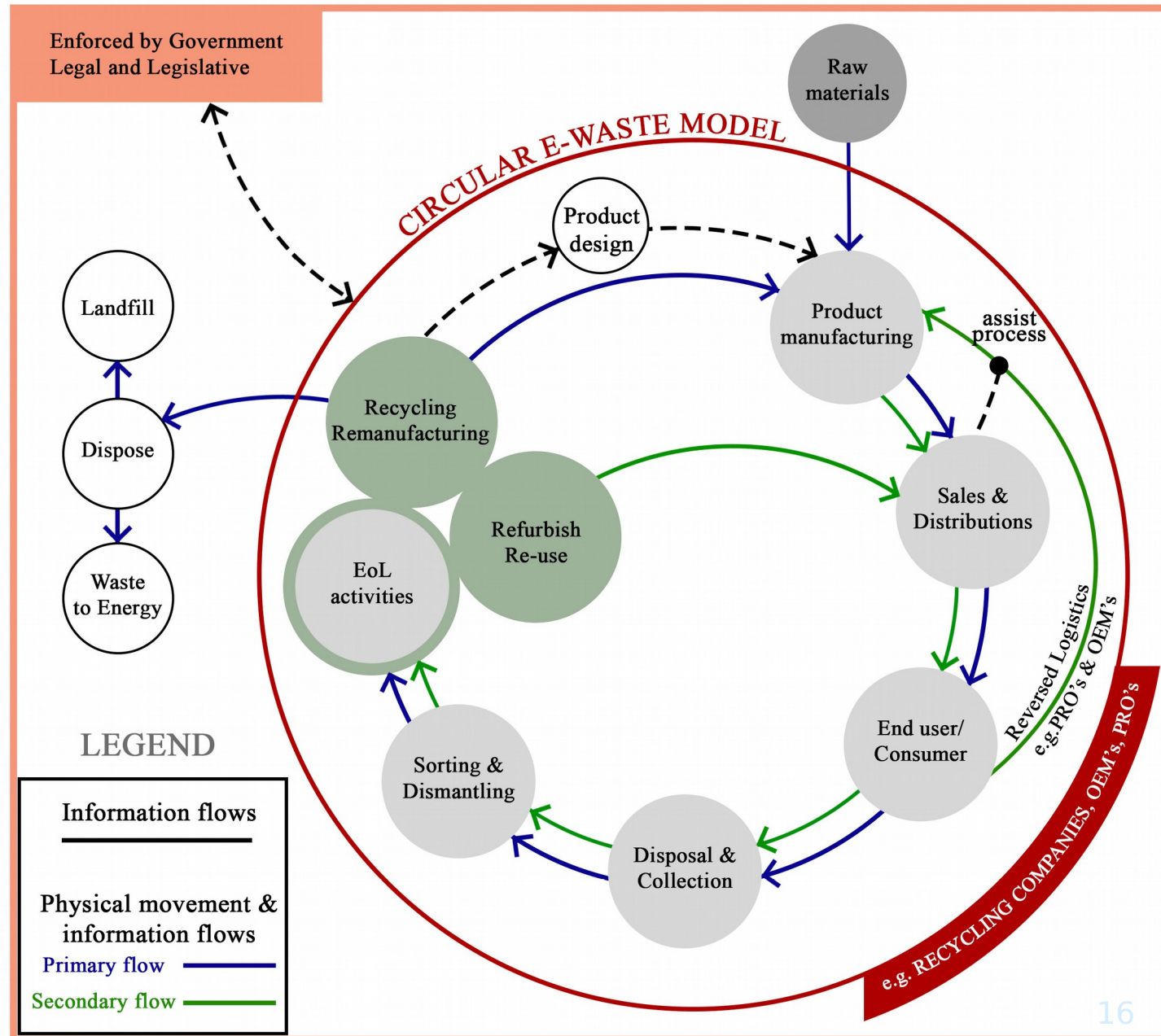
- Agencies
- Private sector
- PRO's
- NPO's (Non Profitable Organisations)
- Waste management guidelines

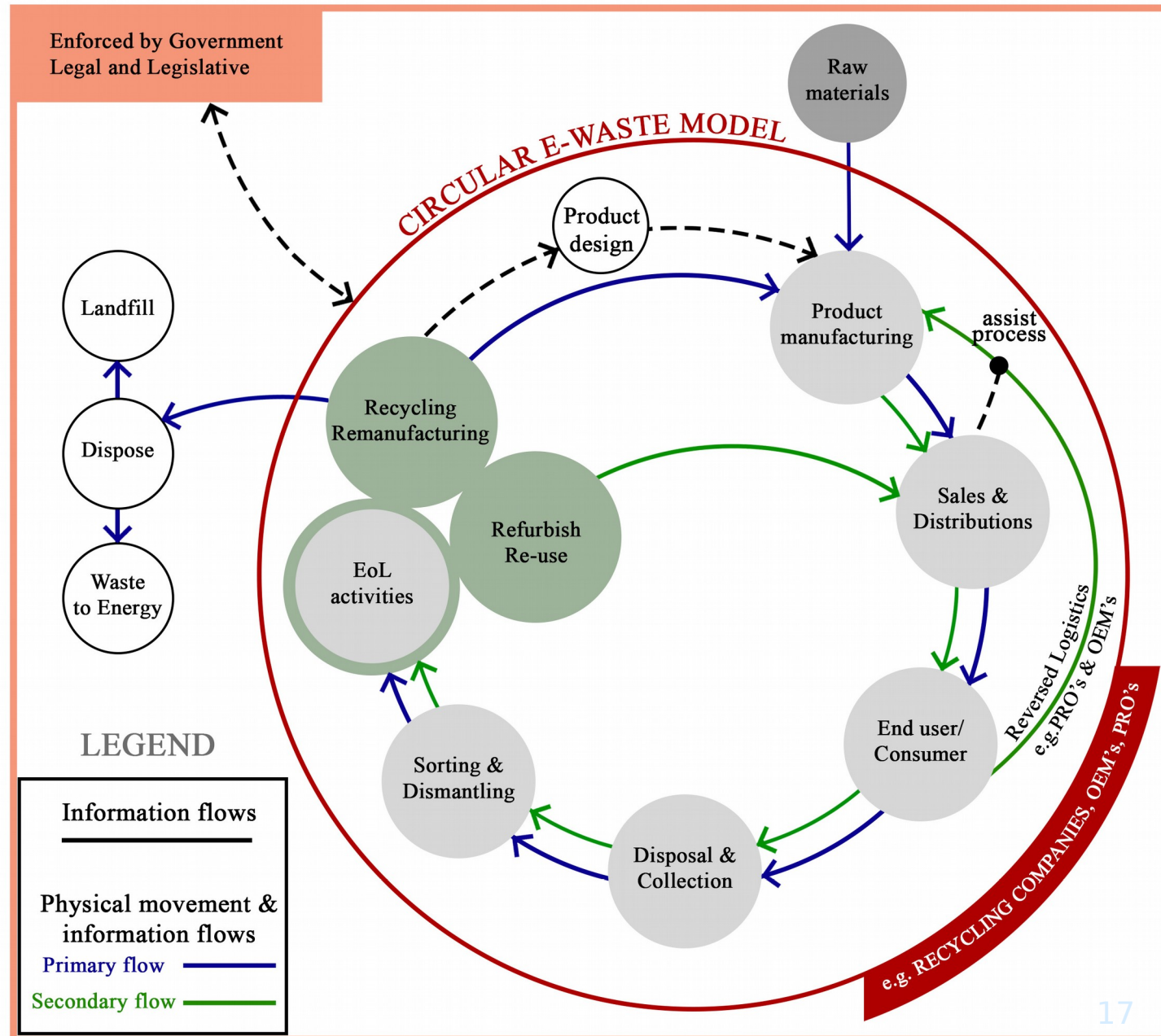


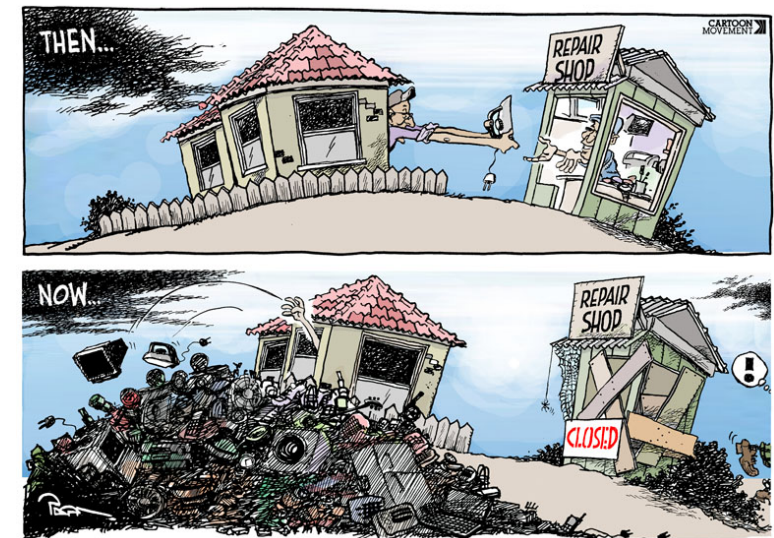
C

- Product design
- Product Manufacturing
- Sales and distributions
- Consumers and end users
- Collection and disposal
- Product inspections, sorting and dismantling
- End of Life activities
 - Refurbish and re-use
 - Recycling and Remanufacturing
 - Disposal (falls outside primary model)











THANK YOU



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