

D4M

End-of-Life definitions

End of Life management: Activities required to avoid waste and recover resources once a product is discarded.

Product takeback: Manufacturers taking responsibility for products once discarded

Remanufacture: “Manufacturing steps acting on an end-of-life part or product in order to return it to like-new or better performance, with warranty to match.” (Centre for Remanufacturing and Reuse (CRR) 2007)

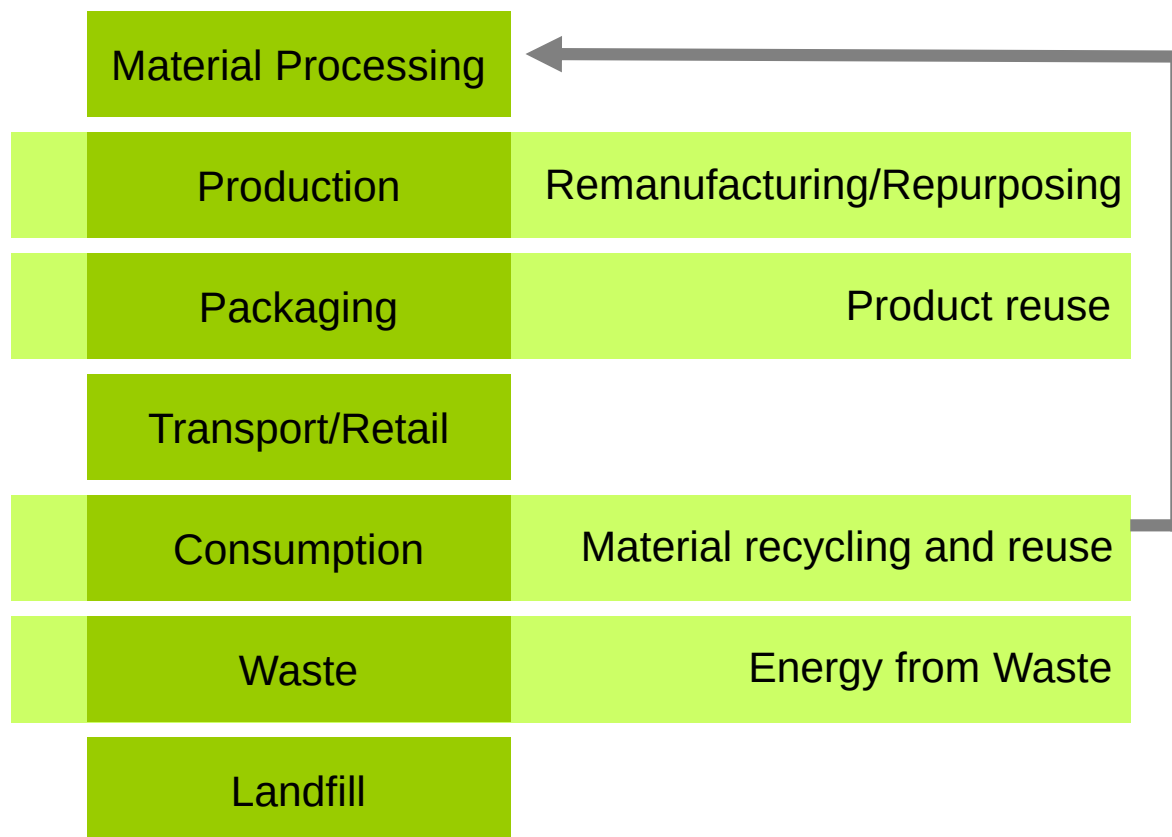
Cradle to cradle: “Resources should be part of cyclic systems, so that the quality of processing at the end-of-life is high enough or appropriate enough to feed into new high quality products.” (BS 8887-1:2006 p29)

Product Stewardship: “ A ‘Shared Product Responsibility’ model of implementation whereby all stakeholders adopt specific obligations and responsibilities relevant to their place in the supply chain.”(PSA website)

A Hierarchy of sorts!!!



Reduce
Reuse
Repair
Refurbish
Remanufacture
Repurpose
Recover
Recycle

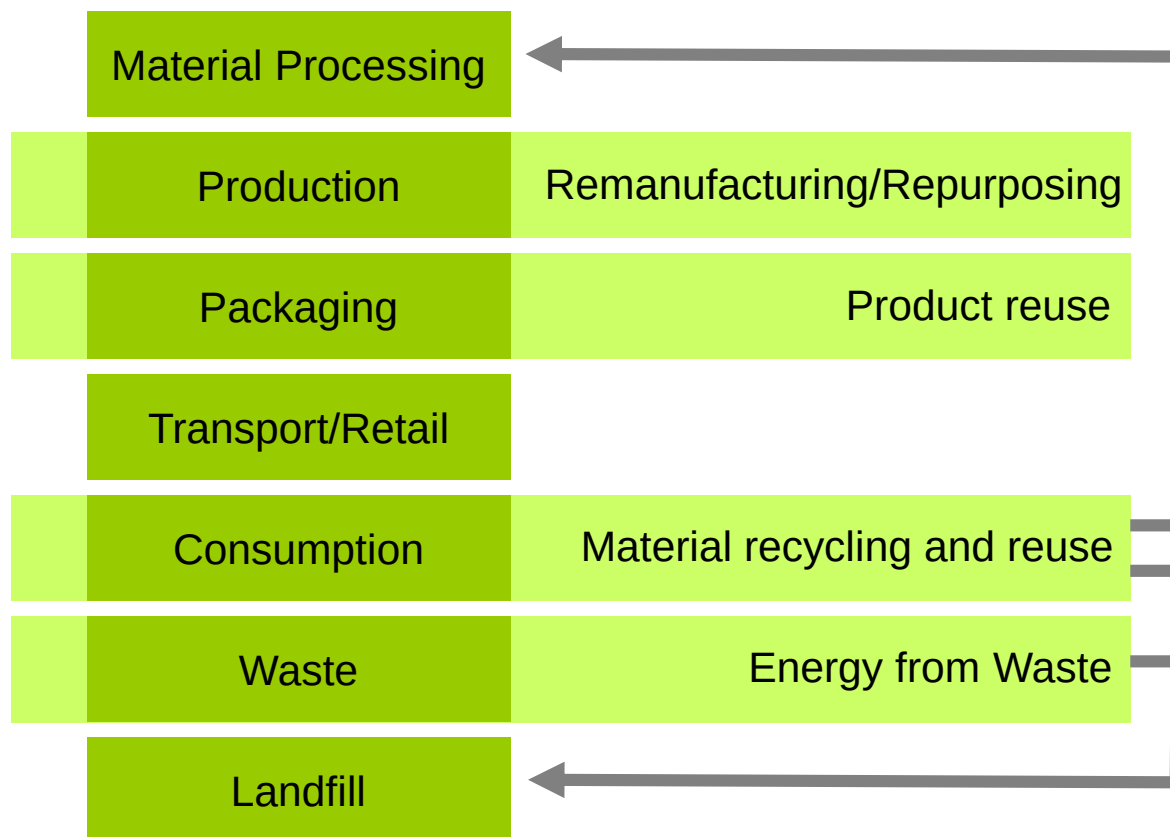


Source: CRR & Envirowise (2007) An Introduction to Remanufacturing GG773



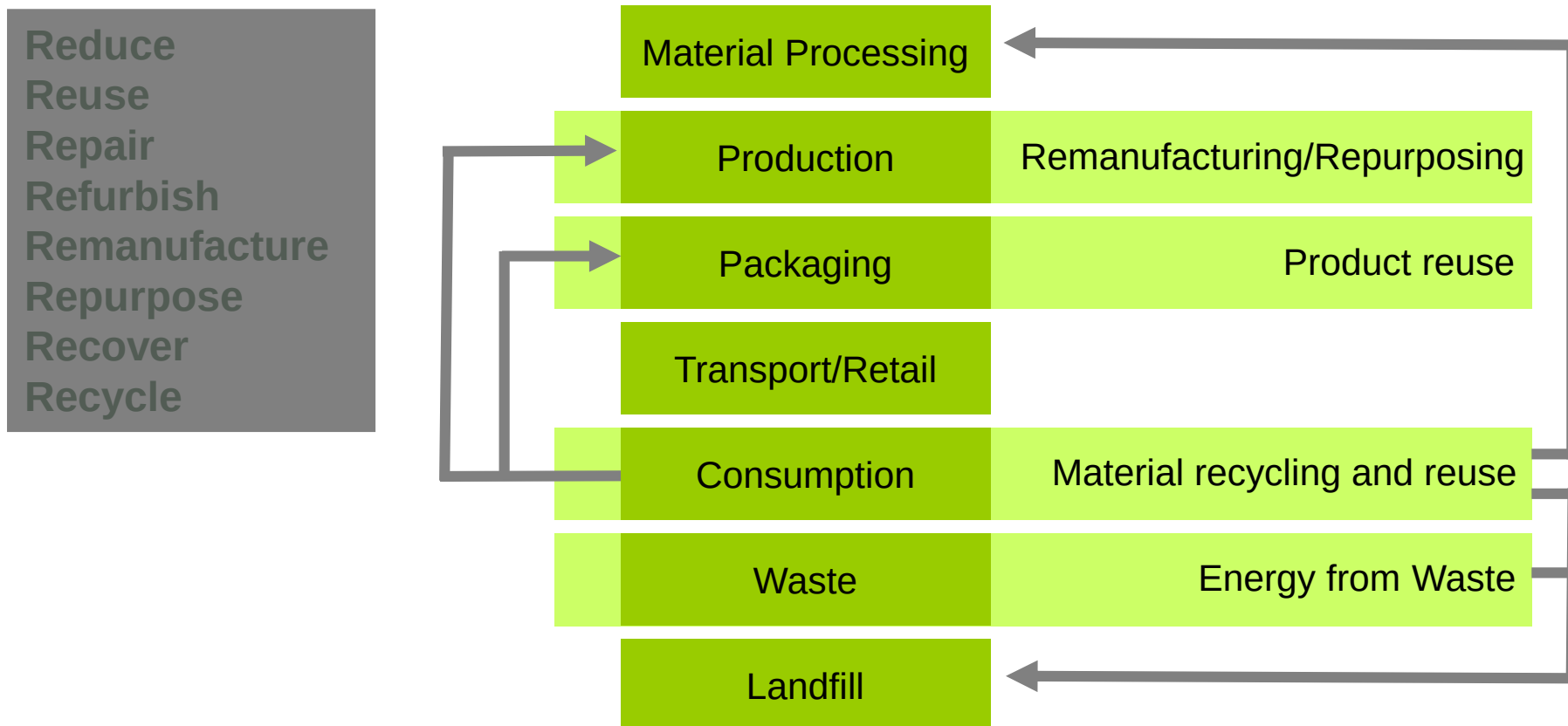
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Market advantage

- Industry is recognising that there is a real market advantage in offering an extended service and provide **End-of-Life (EoL)** solutions



The screenshot shows the Amazon.co.uk website interface. At the top, the Amazon logo is followed by the text 'Hello. Sign in to get personalised recommendations'. Below this, there are navigation links: 'Your Amazon.co.uk', 'Deals of the Week', and 'Gifts'. A search bar is present with the text 'Search Electronics'. Below the search bar, there are links for 'Shop All Departments', 'Electronics & Computing', 'Brands', 'Bestsellers', and 'Deal Of The Week'. The main product listing is for the 'Nokia 1110 Sim Free Mobile Phone by Nokia'. Below the product name, there is a link to 'Return to product information'. At the bottom, there are tabs for 'All', 'New (5 from £23.98)', and 'Used (2 from £18.99)'. Below these tabs, there is a 'Show' button and a radio button selection for 'All', followed by the text 'FREE Super Saver Delivery offers only' and a shopping cart icon with '(0)' items.



Landfill Tax UK

£89

Landfill tax in the UK has risen from £7.00 per tonne in 1996 to £88.95 from 1st April 2018

Caterpillar “As good as new, as strong as ever”



HOME

PRODUCTS

SERVICES

INDUSTRIES

CARE

Products > Used Equipment

Compact Equipment

Machines

Work Tools

Engines

Power Generation

Rental Power

Turbines

Parts

Used Equipment

» Certification

Electronics

Technology

OEM Solutions

Gifts & Apparel



USED EQUIPMENT

Anyone can sell a used machine, but only your Cat Dealer can certify it for you.



USED EQUIPMENT

When you buy used Cat equipment from a Cat Dealer, you have several options. Regardless of the option you select, you can rest assured that equipment has been thoroughly inspected, expertly repaired and is often backed by extended coverage options.

The highest levels of Cat Used Equipment are the Caterpillar Certified Used Equipment and Cat Dealer Certified Used Equipment. You will find these available ONLY from your local Cat Dealer.

CatUsed.com is the official online source for used heavy equipment, parts, engines and attachments from your Cat dealer.

No one knows Cat products like a Cat dealer. When you buy used Cat products from your local Cat Dealer, you're assured of the highest quality, productivity and availability in Cat equipment.

CatUsed.com®

Caterpillar “As good as new, as strong as ever”

Benefits for Caterpillar	Benefits for customer	Benefits for both
Improve product lifecycle knowledge	Continued support for legacy equipment	Reduced environmental impact
Remanufacture service can be sold to other manufacturers	Minimum equipment downtime	Closer working relationship
Protect brand by preventing substandard equipment entering market	Reduced capital outlay	Improved profit margin

Source: CRR & Envirowise (2007) An Introduction to Remanufacturing GG773

The Caterpillar logo features the word "CATERPILLAR" in a bold, black, sans-serif font. A yellow triangle is positioned below the letter "A". A registered trademark symbol (®) is located to the upper right of the word.

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www.ecodesigncentrewales.org

The logo features a stylized white dragon on a black background. Below the dragon, the text "Llywodraeth Cynulliad Cymru" and "Welsh Assembly Government" is written in a small, black, sans-serif font.

Llywodraeth Cynulliad Cymru
Welsh Assembly Government

Steelcase Environmental Partnership

- Steelcase corporate customers have the choice of **donating, refurbishing, reselling or recycling** their retired furnishings.



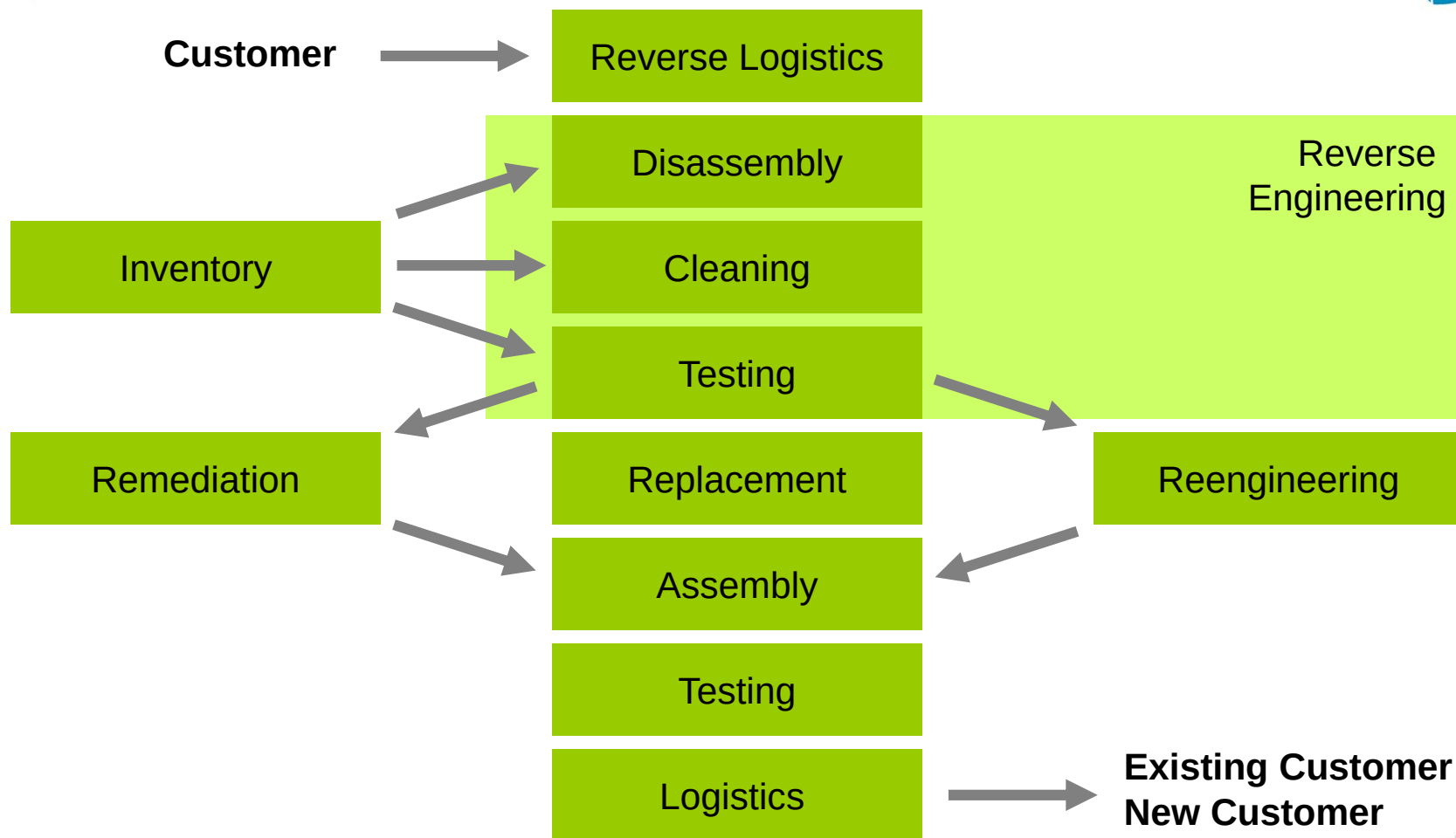


Steelcase Environmental Partnership

*“It is a win-win situation. It ensures **credibility, transparency and confidence** between Steelcase and its clients.”*

Félicie Schneider, Sustainable Development Communication Manager

Remanufacture Process Diagram



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