All people have the right to a safe, clean, healthy & sustainable environment.

Why Integrated Waste Management Hierarchy Circular Economy Insights

What is waste management and why is it important?

of various materials which can be in solid, liquid or gas form. When incorporating the circular economy mindset, waste can also refer to other resources such as energy, water use and human/mechanical involvement The types of actions involved in waste management include the separation, sorting, collection, transportation, processing, treatment and disposal of waste materials. This is usually

waste produced by human activity. These activities need to take place in line with waste-related laws and regulations to ensure compliance and the safe handling and process of all materials.

Waste management deals with a wide variety of waste which comes from industrial, biological, commercial and household sources. Some types of waste are hazardous and pose a

Waste management includes all the activities and processes involved in managing waste from its creation to its final re-use or disposal. Waste typically refers to the physical aspect

serious threat to human health and the environment. Even non-hazardous waste left untreated or disposed of incorrectly, creates health and environmental risks.

The global realisation of the dire need to protect our natural resources and ecosystems has placed a strong focus on the importance of implementing sustainable and environmentally responsible waste management practices.

Why is it important?

Effective waste management is critical to prevent negative environmental, social and economic impacts as well as to protect our ecosystems and natural

resources to provide a healthy and safe environment in which all life forms can thrive. Sustainability means that responsible businesses are morally and legally bound to manage their waste products in the most effective way possible to comply with more stringent regulations and demonstrate good corporate citizenship. By adopting the global hierarchy of waste management principles to minimise,

reduce, recycle, recover, treat and dispose of waste safely and ethically, not only helps divert valuable materials from landfills but also supports the creation of jobs, innovative technologies, a healthier planet and an environmentally astute culture all round.

The purpose of a waste management plan is to ensure legal compliance, drive environmentally sound business practices and provide guidance on how to minimise, re-use, recycle, handle, contain and dispose of all waste generated. There is no one-size-fits-all approach to waste management, hence a waste

Why you need a waste management plan

management plan specific to each operation is needed to manage waste effectively and efficiently. A standard waste management plan includes but is not limited to the following elements:

 Clear objectives and targets aligned to company and environmental strategy; • Key performance indicators and measures to prevent pollution and environmental impact;

- The types and quantities of waste generated; • Targets for waste minimisation through waste reduction, re-use, recycling and recovery;
- Programmes and projects to minimise the generation of waste and the disposal of waste to landfill;
- Actions on how to handle and manage each waste type; Reduction and phasing out of the use of certain materials and substances;
- Opportunities to reduce waste generation through changes to packaging, product design or production processes; • Project plan / timelines for implementing changes in the plan;
- Reporting methods and methodologies;
- Continuous improvement plans.
- Do's of waste management

• Make sure you understand and comply with the relevant waste regulations (link to regs/ legislation) Manage your waste effectively

• Identify all the waste types you generate

Contact a waste professional for guidance

Care about the environment

Dont's of waste management

• Keep learning about waste and exploring ways to reduce, re-use and recycle your waste

Ignore your waste

- Think it is someone else's problem
- Treat it all the same • Give up!

The implementation of ongoing new regulations governing waste, the ongoing bans of certain types of waste from landfill disposal, consumer pressure to buy

not only reduce their costs in the longer term but also achieve more sustainable environmental and social goals.

understood by consumers and industry, and waste disposal to landfill is preferred over other options.

How much does waste management cost?

from more environmentally conscious companies, zero waste to landfill strategies and rising statutory and operating costs are all contributing factors to compliant waste costs and solutions.

It is also important to understand the true cost of waste management. Elements such as waste sampling, analysis and classification, labour, equipment,

The cost of waste management in South Africa has generally been underpriced, which means that the costs of managing waste are not fully appreciated or

transport, handling, blending, preparation, treatment and / or disposal, compliance, monitoring and management should be factored into the total cost of waste management. In order to manage waste and the costs associate thereof more comprehensibly, companies which implement waste management strategies and plans, tend to



Avoidance Reduction and reuse

environmental practices that are required for sustainable growth.

1. WASTE DISPOSAL &

2. WASTE

LOGISTICS

MANAGEMENT FACILITIES



Treatment





Recycling

Recovery

5. LEGAL

COMPLIANCE

6. TECHNICAL

SERVICES





across supply chains and through integration and innovation, promotes closing gaps to allow materials, energy and resources to be re-used in the system. This is an alternative way of operating to the traditional "make-use-dispose" linear approach. It is a more sustainable eco-cycle which puts the environment and its precious resources at the heart of the business. It is achieved through re-looking and integrating processes across the value chain such as long-term design and planning, careful sourcing, maintenance, repair, reuse, remanufacturing, refurbishing, recycling and upcycling.

An integrated and holistic approach to waste management is critical to ensure the most value is realised from an economic, social and environmental

perspective. Interwaste aims to assist its clients transition their business mindset to the circular economy way of thinking. The circular economy offers

significant opportunities to truly deliver on more inclusive economic growth, which includes job opportunities, entrepreneurship, innovation and positive

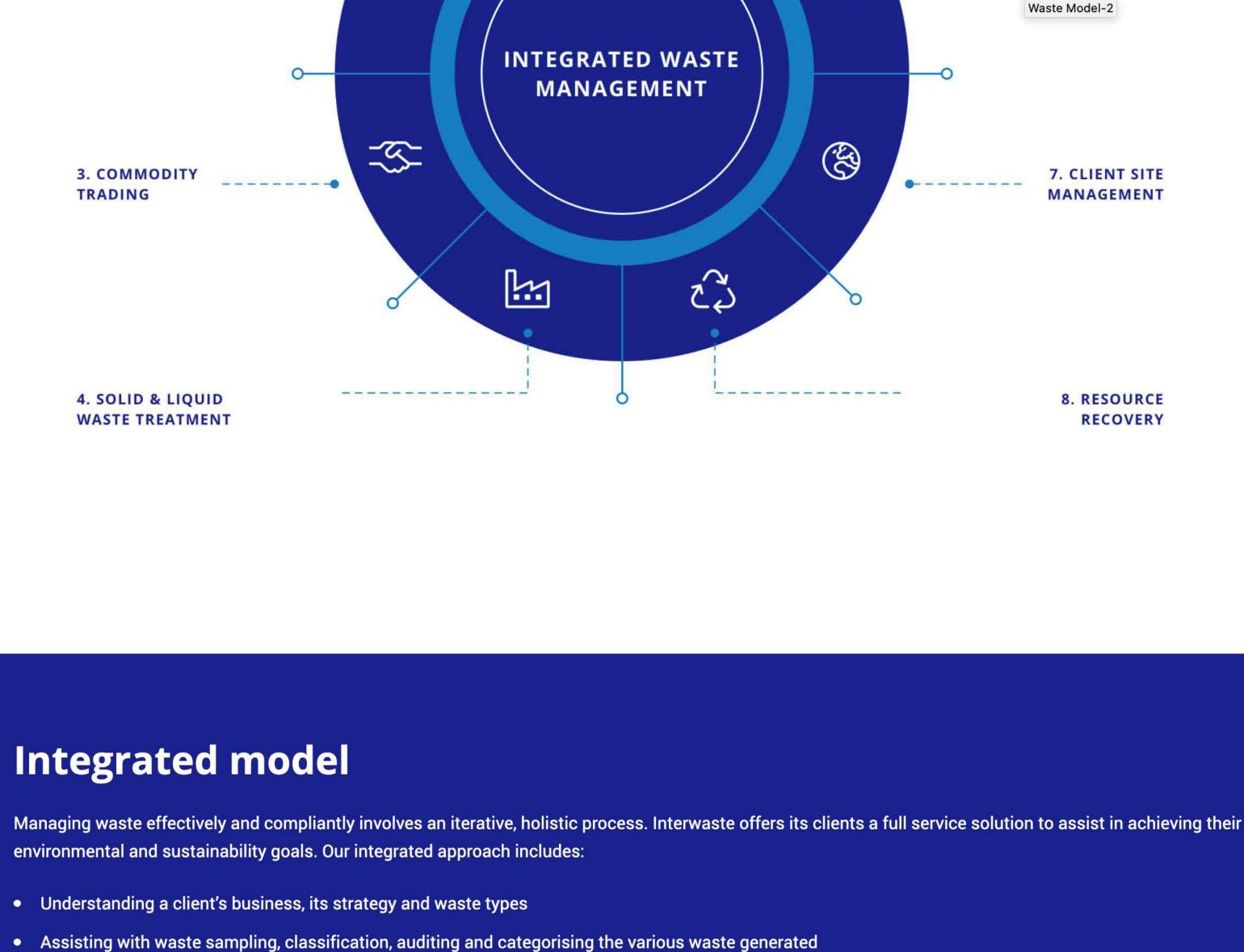
As a reformative system, the circular economy is a model that aims to strip out all unnecessary waste materials, energy losses and related carbon emissions

The Integrated Model

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• Identifying waste and resource recovery solutions for various materials

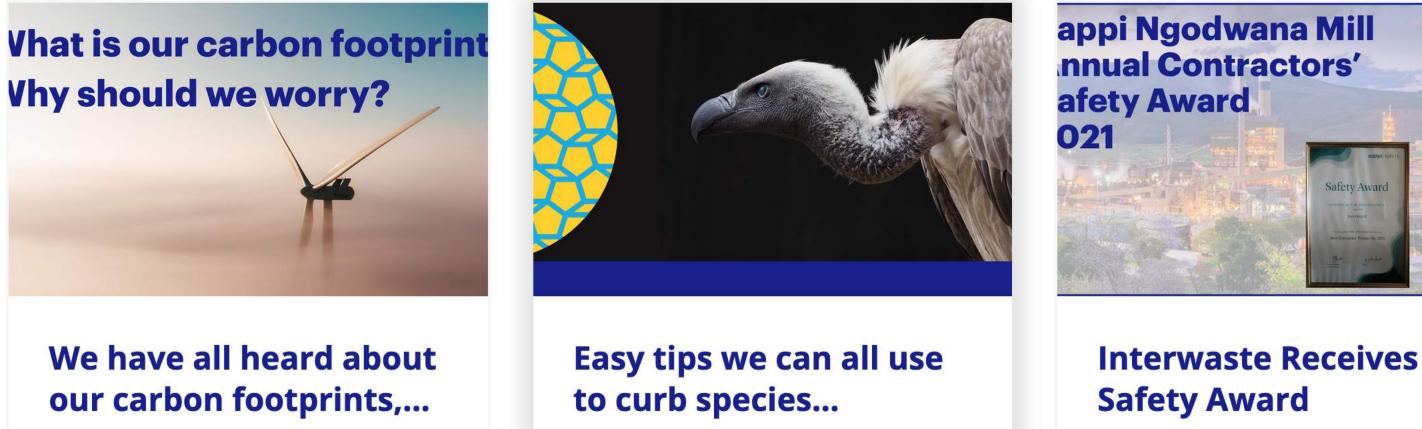
• Offering solid and liquid waste treatment services for client on their sites or through one of our own treatment processes • Working with strategic partners to extract valuable commodities from waste • Collecting and transporting waste utilising a wide mix of specialised waste handling and logistics vehicles

• Providing clients with skilled staff and the relevant equipment / containers to separate and manage their waste on their premises

Case studies & insights

• Designing and implementing the innovative, compliant and cost effective solutions for each waste type

• Ensuring the safe handling, treatment and disposal of waste through specialised processes and licensed facilities.



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We know our natural resources are

declining at a rapid rate and this of



INTERWASTE Let Interwaste solve your waste management problems.

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