



# Medical Waste Management

## Introduction:

Synertech's unrivalled expertise and experience in the design, development, installation and support of innovative radio frequency identification (RFID) business systems and information management solutions enables the company to offer a fully integrated management system that delivers performance-enhancing benefits associated with key aspects of Hazardous Waste handling, vehicle movement and process compliance.

## Traxsense:

Synertech's Traxsense software platform brings to life innovative, automated monitoring and tracking solutions by providing clients with dashboards and analytics to easily track all assets and to monitor business performance indicators. Smart sensor enabled assets are transformed into intelligent data sources. These smart assets are connected in real-time which provides organisations with controlled and auditable IOT information. Traxsense not only provides for immediate management decisions, but it also harnesses the power of data analytics for business optimisation.

## Background:

Due to its nature and the severe consequences leading from lack of control, the Medical Waste industry is highly regulated and calls for accurate data on process conformance. Businesses need to be able to show the trail up until destruction of the material in near real time and keep historical documented proof.

Synertech assists organisations with Automated Identification and Data Capture (AIDC) tracking and tracing technology that augments sound engineering controls.





As a subset of Synertech's Hazardous Waste Management, the solution interfaces with the organisation's Medical and Bio-Medical Waste collection scheduling and invoicing system(s) in order to provide a comprehensive tracking automation for the organisation's legal obligations to demonstrate automated records for the collection, weighing, transport, storage, and disposal of Medical and Bio-Medical Waste.

Through Synertech's Traxsense software platform and a variety of hardware options, the Medical Waste disposal lifespan is automatically tracked with real-time visibility. By tagging the waste container with RFID labels, providing each transport vessel with its own unique identifier, complete cradle to grave traceability becomes reality. The use of this technology helps to ensure compliance with local legislation as well as the standards set out by ISO 14001 with specific regard to the management of the storage, labelling, transportation, and records keeping of medical waste material ensures accountability whilst reducing paper usage.



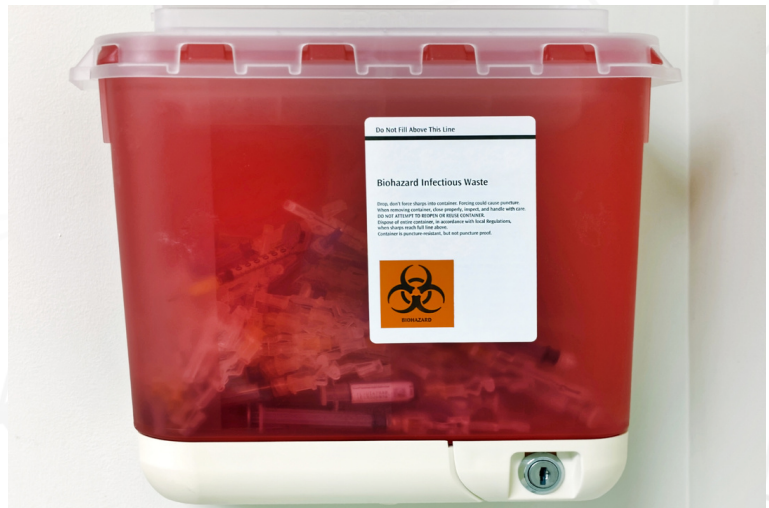
## Solution Overview:

Based on our Traxsense software platform and a variety of hardware options, provides automation in the process, and real time visibility of the process. By RFID tagging the waste container, providing each transport vessel with its own unique identifier, complete cradle to grave traceability becomes reality.

Through its lifespan of transactions, the container is not only tracked as it moves through fixed portals, but mobile RFID readers provide the ability to deploy to large fleets expanding the reach to virtually anywhere. GPS coordinates are associated to each transaction and the sign on glass ability, ensures accountability whilst reducing paper usage. Through our revolutionary technology, the system automatically attaches the weight received from a scale to the waste container.



The RFID based solutions that Synertech provide are more than just a hardware or software system. They are engineered on a set of components, specifically selected on pre-defined criteria. As a base, all system components are taken into consideration to adhere to both local and international standards.



## Business Benefits:

- Real time & automated data reporting
- Live Dashboards providing a quick accurate overview for effective management
- Live exception reporting and alerts when process deviation occurs
- Improved process control
- Increased data accuracy through automation, minimising human error
- Compliance control traceability and visibility
- Paper reduction
- Optimization of human capital and fleet resources

## Key Figures:

- Web based platform provides access from anywhere to virtually unlimited users
- In-house software development and manufacturing ensures configuration for any client's unique requirements
- Multiple AIDC devices and IOT sensors feeding data into the system for rich data
- Integration with already existing systems
- Real-time process visibility leading to analytics for Business Intelligence

## After-Sales Service:

- Warranty – All systems are backed by a 12-month Warranty on materials and workmanship commencing from date of delivery
- Maintenance and support - A range of technical support and maintenance options are available based on formal service level agreements
- Training - Various training options are available ranging from comprehensive classroom training to on-the job training. All systems are provided with training documentation

