ELTE GROUP

SOLUTIONS SUPPORTING
WASTE MANAGEMENT

Solutions for hookloaders and skip loaders

Static weighing system on loader crane

Mobile aplication- CONTAINER APP

Static waste weighing system

RFID manual identification system

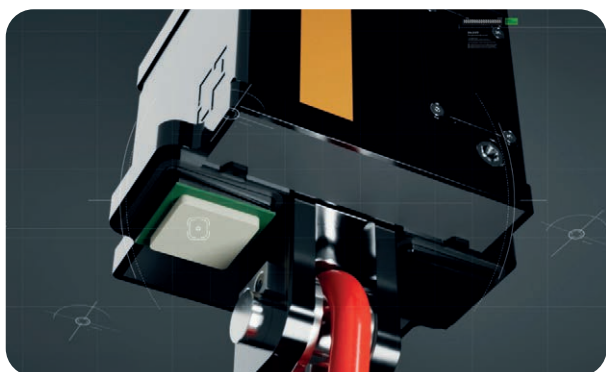**Automatic container identification**

Video monitoring

Waste container positioning system

EVERY KILOGRAM MATTERS

STATIC WEIGHING SYSTEM ON LOADER CRANE

The wireless static weighing scale for loader crane (HOOK) is a solution for weighing collected waste, enclosed in a compact housing and thanks to an automatic RFID reader, allows containers to be identified during weighing.

KEY FEATURES:

- Wireless communication with the receiving module;

- Rechargeable, replaceable battery;

- Universal top handle for integration into the factory hook mount;

- Wired and/or rechargeable battery power supply;

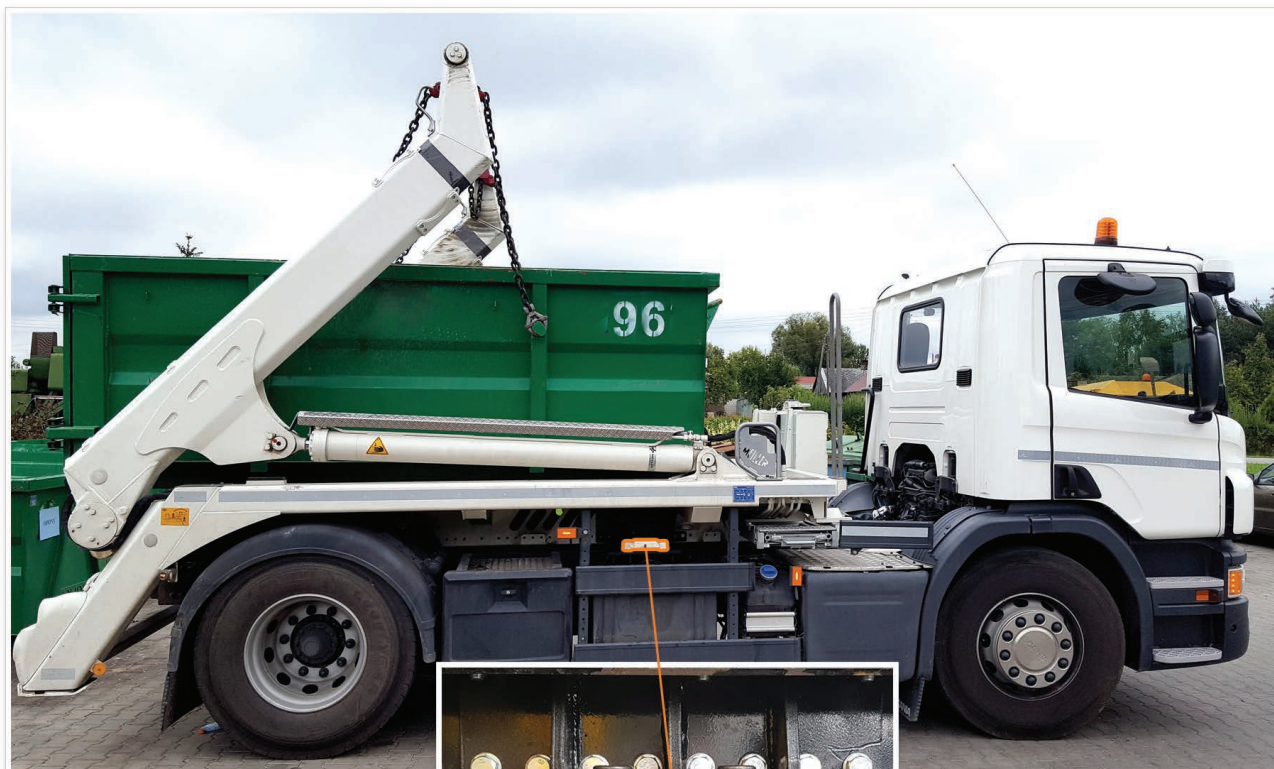- Swivelling hook - 360 degrees.

STATIC WASTE WEIGHING SYSTEM

Static waste weighing system has been designed as a solution for static weighing of municipal waste. Static weighing can be automated, but it is necessary to temporarily stop the emptying of wastebins and/or waste containers.

L.P.	Weighing time	Loader side	Weight [kg]
1	10:57:37	2	236.0
2	10:57:42	1	450.0
3	10:58:41	1	331.0
4	10:59:32	1	410.0
5	11:00:02	2	87.0

List of weighing results

Erase weighing memory   Assign weight   Cancel

Example of loadcell

Location of loadcells in the weighing system for a garbage truck

AUTOMATIC CONTAINER IDENTIFICATON

The container module was developed to solve the problems associated with managing and tracking inventoried containers.

ADVANTAGES:

- Container location;
- Visualisation of container locations on a map;
- Planning of container routes;
- Identification of container placement and retrieval activities;
- History of container collection.

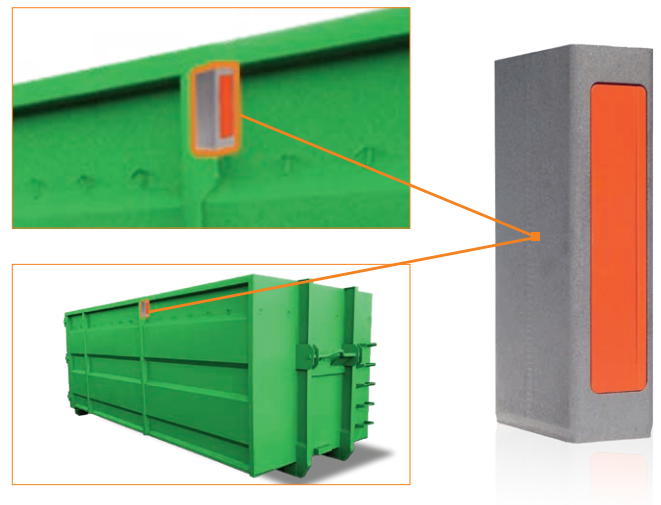## BASIC FEATURES OF THE TRACKER:

- CONTAINER IDENTIFICATION USING UHF TECHNOLOGY - detection of unauthorised containers;
- IDENTIFICATION OF CONTAINERS USING IMAGE ANALYSIS AND INTELLIGENCE ALGORITHM - detection of unauthorised containers and cooperation with terminals for visualisation and handling of orders by the driver;
- MANUAL IDENTIFICATION OF CONTAINERS;
- DEDICATION CONTAINERapp application enabling identification of container loading and unloading operations, working with NFC transponders.

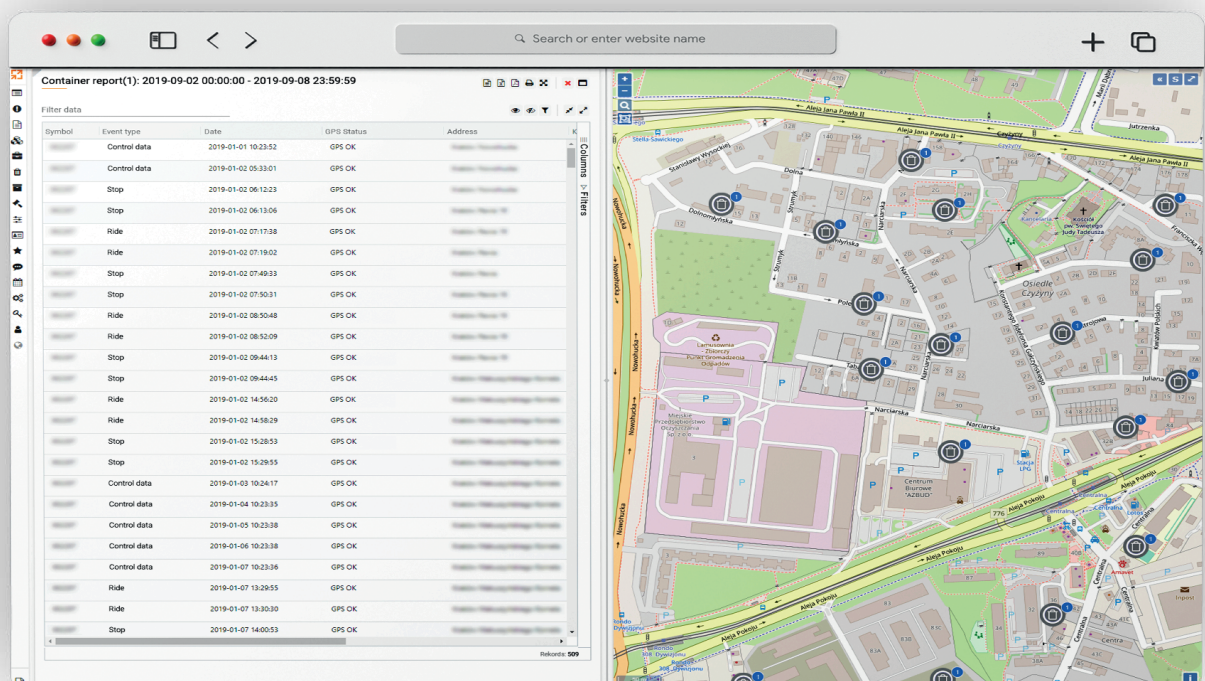# WASTE CONTAINER POSITIONING SYSTEM

Waste container tracker (Con Box) system is the waste container tracker, a modern device with built-in batteries designed to monitor the container location. In addition to the power supply module and GSM and GPS modules, the tracker is equipped with a sensor which detects the container loading and unloading operations. It is also possible to configure the data transmission frequency individually.

BASIC FEATURES OF THE TRACKER:

- TRANSMISSION OF THE CONTAINER LOCATION DATA - once a day and following every loading and unloading operation (standard configuration);

- INNOVATIVE POWER SUPPLY - long battery life (battery replacement availability);

- HOUSING DESIGN - allows you to fix the tracker on the container and to replace the battery without damaging the tracker.

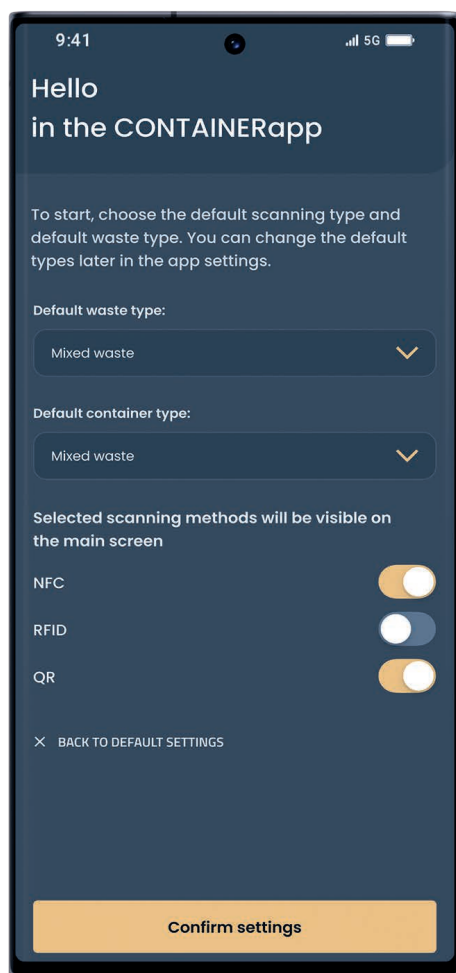- Example of installation of the waste container tracker

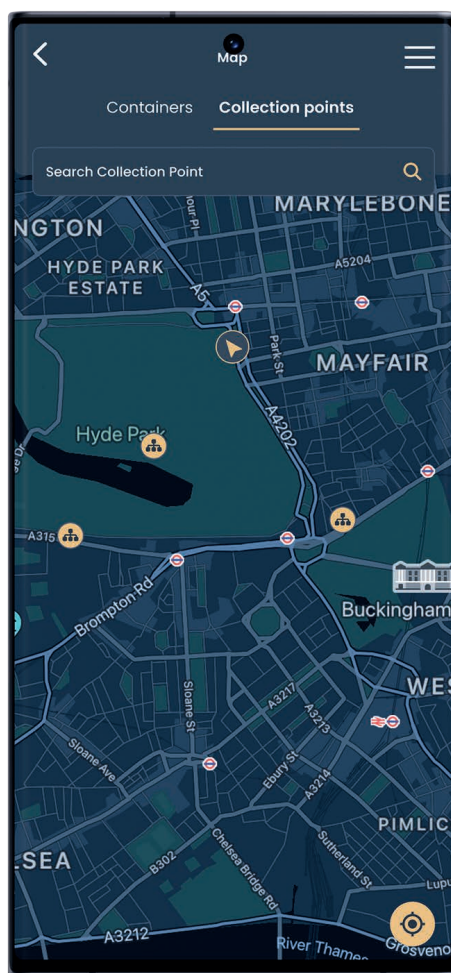- Report on the locations where containers were loaded with a view of the container location on a map
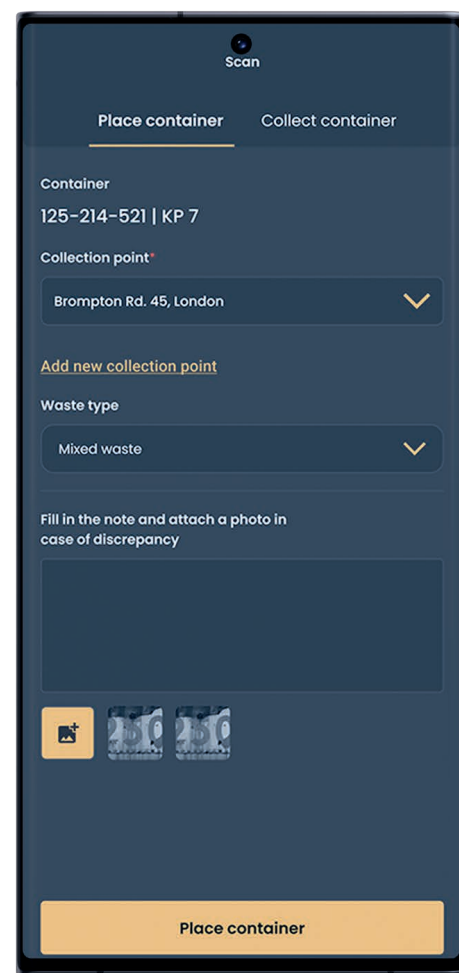
MOBILE APLICATION - CONTAINER APP

CONTAINERapp streamlines container handling processes, including streamlining, receiving, transportation and inventory. A single database helps the process run smoothly and seamlessly.

CONTAINER
app

Start screen

Map - export points

Adding a waste collection point

RFID MANUAL IDENTIFICATION SYSTEM
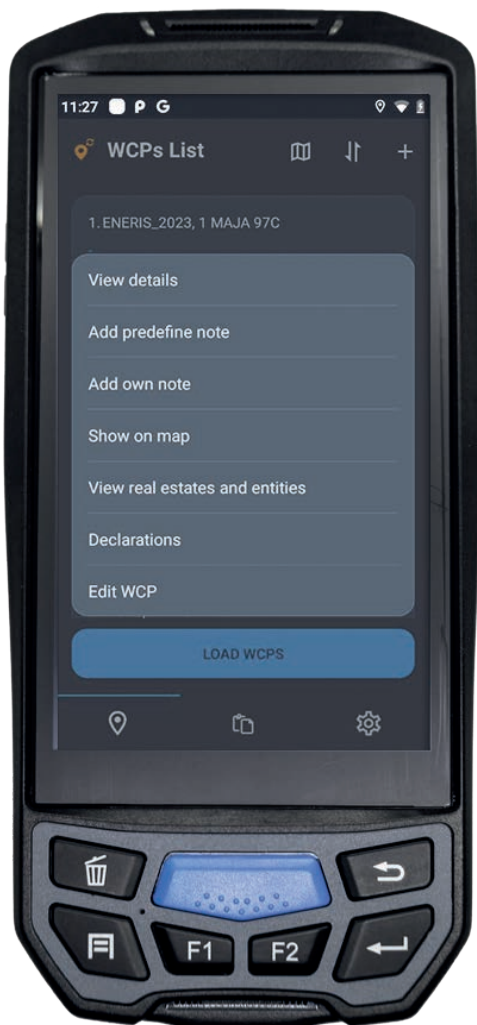
EXCLUDES DOUBT AND GIVES CONTROL

MANUAL RFID IDENTIFICATION is a modern approach to bin and container management. In addition to RFID reading, our handheld readers allow the use of other identification technologies such as barcodes and QR codes.

COODY 1.0 ■

■ **Check USB**

■ **RFID data collector**

PHOTOBOX

This is the new generation of image recording - the Photobox is a digital recorder that saves images from cameras installed in the vehicle along with location data on data storage.

■ **Photobox**

BASIC FEATURES OF THE PHOTOBOX:

- ■ image recording in the form of photos or videos;
- ■ configurable quality, resolution and frame rate;
- ■ automatic transmission of recorded images.

■ **Example of cameras used**

PHOTOBOX 360°

Digital video recorder working with ICHI software to recording on a data storage.

Photobox 360° ■

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