

# IMELO

CONSULT | OFFICE | FLEET | SERVICES | PARTS

# IMELO

IMELO is a product range which is developed and produced over 15 years by the company IFEU (Institut für Entsorgung und Umwelttechnik GmbH), a company within the SSI Schaefer Group of Companies. The IMELO system philosophy is as simple as useful: From the Practise – for the Practise. Many solutions of the IMELO product line are laid out and developed in close cooperation with the end-users.

IMELO (Information Management Environmental Logistics) is set up by five major product lines:

**IMELO**  
CONSULT

**IMELO**  
OFFICE

**IMELO**  
FLEET

**IMELO**  
SERVICES

**IMELO**  
PARTS

- Advisory Services and Consulting
- Assembly & Distribution Management
- District and Route Planning

- On Board Units, Ident and Weighing Systems
- Service Solutions linked to bins
- Innovative Business-Concepts





# CONSULT

Definition and selection of the most optimal Waste Logistics under changing demands require sophisticated analysis and assessment of multiple parameters and influencing factors. The daily operational business often does not allow such specific and deep investigations of the required criteria. IMELO CONSULT has been developed to define a specific customized Waste-Logistics-Set-Up by the help of professional Advisory Services. Within the scope of individual and flexible customer oriented projects all relevant parameter for the Waste Logistics are collected and compiled to a performance and cost analysis.

The unique methods within IMELO CONSULT allow calculations of up to 500 parallel result threads in 5 variants with up to 10 waste streams.

## Relevant Input Parameter

- Area structures
- Number of inhabitants
- Waste amounts and Waste composition
- Bin / container systems and vehicles
- Collection frequencies

## Target Figures of the Consulting

- Number of bins / containers and vehicles
- Costs per inhabitant / year
- Costs per Waste stream
- Operative Waste Logistics costs
- Costs of Invest and Operation

## Your Benefit

- Transparent Tender Calculation Support
- Validation of existing Waste Logistics
- Neutral assessment of the specific situation by the help of professional Advisory Services
- Efficient modelling of new Waste Collection Concepts



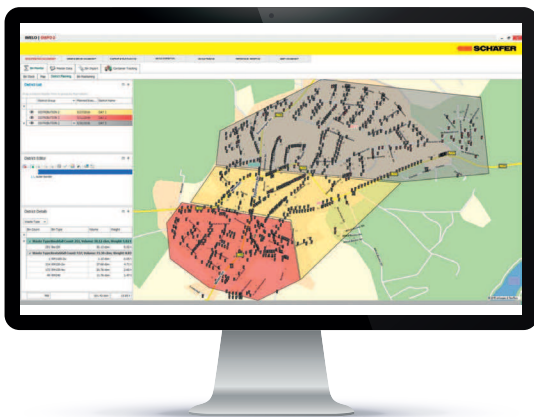
# OFFICE

Precise, efficient as well as transparent planning and controls of Waste Logistics processes is more important than ever before. The utilization of the right tools is one of the key factors for a successful operation.

The Productline IMELO OFFICE pays off by the practise oriented functionalities of the different software modules and thus is the optimal Planning and Controlling Tool for a modern Waste Logistics and electronic order processing.

## DISPO

With a decision for DISPO you decide which processes shall be controlled by IMELO. All data which are generated in DISPO can be transmitted to customer specific software interfaces for a further utilization of these data.

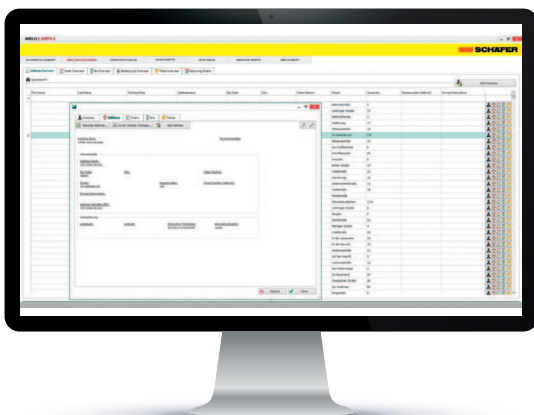
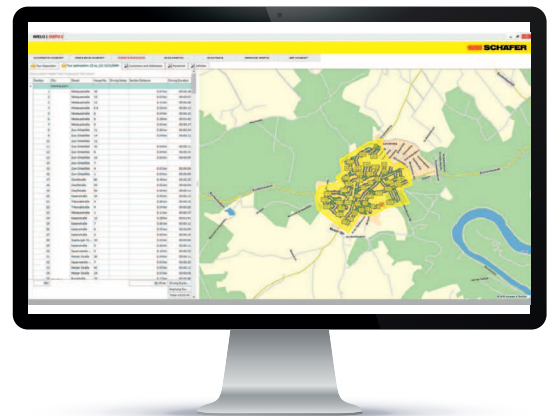


### Assembly & Distribution Management

- Integration of District Data
- Geo-Coding Process with Quality Check
- Address Data Management
- Delivery Planning and Management
- Delivery Routing
- Print Management for letters and labels

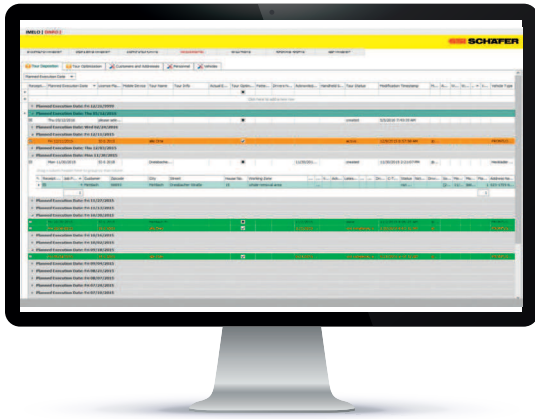
### District and Route Planning

- Efficient District and Route Planning by the help of visual planning tools
- Automatic calculation of bin / container numbers and volumes
- Streetside specific Route Optimization
- Reduction of inefficient collection routes by precise planning of the collection tours



### Order- and Asset Management

- Central Order Management module for Waste Logistics processes
- Integrated bin / container Management Tool (Claims, Amendmend Services, Bin Services, Black & Whitelist Management, Lost Reports)
- Address and Customer Data Management



## Vehicle Disposition

- Central Disposition of all vehicles
- Connection of orders and vehicles
- Optimal Vehicle Disposition by modern Navigation Tools
- Order Lists on single vehicle base
- Order Take Over from integrated order management or from subsystems

## Fleet Tracking

- Integrated Fleet Tracking with Live Mode Option
- Geo-Coded Telematics and Performance Data
- Event Tagging with Collection Information and optionally collected weights
- Layer Functions to reduce crossing of district borders
- Transparent Performance Data Report as single vehicle or fleet view



## DISPO ONLINE

DISPO ONLINE is the ready-to-go solution for an efficient Container Management and Filling Level Surveillance System. The direct access to different sensors in the field allows a transparent overview on the status of the various containers – available for all types of containers, depot containers, underground containers, skips etc.



Efficiency Optimization by optimal Fleet Management starts with a transparent overview on container locations.

The IMELO Filling Level Sensors and The IMELO Container Tracking Modules allow to automate a wide range of processes.

- Alerts on positions and / or filling levels
- Collection and filling level behaviour
- Forecast functionality on filling levels to be expected
- On Demand Planning of collections
- Order data transmission to IMELO DISPO
- Status Reports of the modules

# FLEET

The IMELO FLEET components are marked by robust and Waste Logistics proved technology. A modular and in widest range open system architecture allow an adaptation of various system and functionality components. Flexible On-Board Software Solutions guarantee for the efficient operation of the IMELO FLEET systems.

## On-Board Units

- Product Line of mobile and fixed mounted On-Board Units
- High reliability for daily operation
- Fast and powerful processors with large RAM
- Various System Software
- Daylight optimized multitouch displays in different sizes
- CAN BUS / Digital Interfaces and Central Docking Stations
- Optional with integrated color camera or bar code scanner

## Software solutions

- Safety Checklists
- Route Guidance and Navigation
- Order Management
- Weighing and Ident Management
- Event Tagging
- Performance Records



## RFID Ident Systems

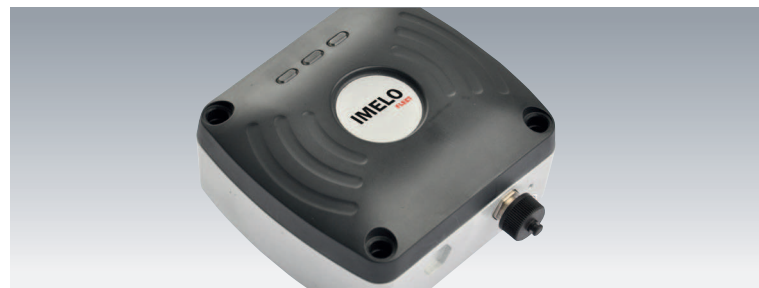
Modern RFID Ident Systems with all common frequencies for a transparent identification of bins and containers

### IDENT LF

- Multireader for reduced interfaces
- Flexible system architecture to adapt to various vehicle and body types
- FDX and HDX Modulation

### IDENT UHF

- RFID Antennas for flexible utilization (with integrated reader)
- Contactless reading process with a range of up to 5 m
- Optimal Ident Results, also under difficult conditions



## Weighing Systems

- Highly precise weighing results at constant vehicle performance
- Dynamic Weighing Systems with the proved DIGI SENS® technology
- Integration into new and fleet vehicles



# SERVICES

IMELO SERVICES – Professional and reliable Service Solutions for the Waste Logistics in a global network.

## Distributions and Retrofits

- Software supported Live Tracking
- Competent back up personnel
- Customer hotline during the distribution period



## Customer Service & Support

- Software and System Support made by experienced software developers and technicians
- Mobile Service Engineers for a prompt support
- Worldwide partner network



# PARTS

Hard- and Software components for all types of bins. The high availability of IMELO PARTS simplifies the decision. No matter if 50 or 50,000 transponders– LF, HF or UHF.

The variety is large and we will find the right solution for your application.

- Different types of transponder for bins and containers (Chip, plug, stick, label or plate)
- Handhelds for the bin distribution
- Highly precise and reliable Filling Level Sensors with direct interface to IMELO DISPO Order Management
- Active Container Tracking module with GPS and data transmission for transparent surveillance of the container locations
- Online Status Report of the modules in the field



