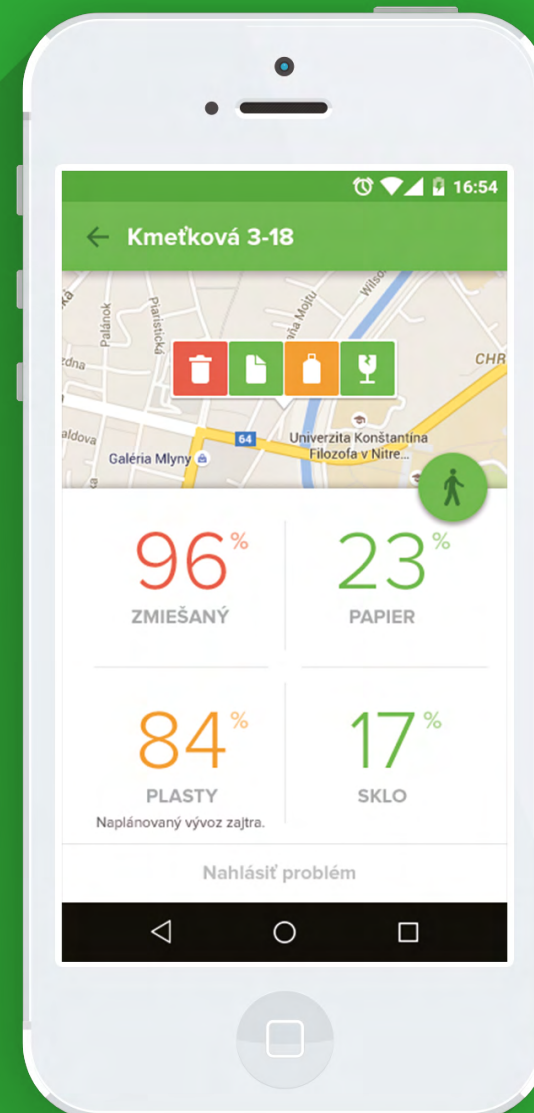


INTELLIGENT WASTE MONITORING

waste:it®



Communal services are one of the most important services for residents. This service, when working well is almost invisible, but immediately visible when it is inefficient. Each provider of communal services attempts to deliver in the highest quality and efficiency.

The current situation is best described by the conclusion that *we are picking up the containers and not the waste*. Most waste pick up is done without available information about the amount of waste currently held by containers.

If the operator of the communal service knew the amount of waste in each container, he could optimally plan the removal of only the containers that are truly full and avoid unnecessary costs and time spent on handling empty or nearly empty containers.●

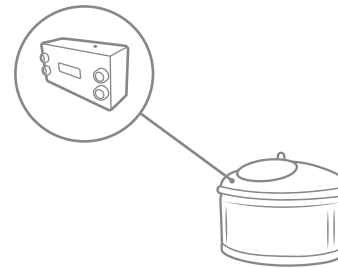
Solution

Waste:it provides a modern and user friendly solution that delivers the continuous monitoring of waste levels in containers via *waste:it ultrasound sensors* built into each container. Information is transferred via mobile internet to safe storage and then displayed to communal service operators *using the mobile application: waste:it*. The solution can be fully integrated into the existing information systems currently used by the customer.

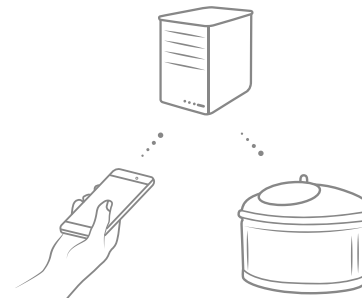
Waste:it sensors are available in Double and Single version

Double sensor is recommended for big capacity containers, and its life cycle may last over 5 years. Measuring with double sensor is „double-ensured“ as one sensor controls the other and it basically totally minimizes any potential outages.

Single sensor can be used for container of any capacity (even in small containers of 120l). Single sensors are controlled with 1 master sensor, which is able to manage up to 60 sensors.



Waste:it provides a modern and user friendly solution that delivers the continuous monitoring of waste levels in containers via waste:it sensors built into each container



Information is transferred via mobile internet to safe storage and then displayed on mobile devices handled by communal service operators (tablet / smart phone).

Main benefits

- ✓ Information regarding the amount and approximate weight of the waste in containers
- ✓ Overview about the actual level of waste in each individual container
- ✓ Efficient and faster planning of waste removal routes
- ✓ Ability to plan and control the most optimal waste removal route
- ✓ Immediate feedback from the communal service operators about the status of each containers location and enables decisions to be made in real-time
- ✓ Access to the statistics and trends enables service providers to plan the waste management even more effectively (for example: the evaluation of seasonal removal trends)
- ✓ Significant cost reduction
- ✓ Fast investment return
- ✓ Deployment possible in a few days
- ✓ Deployment of the solution could immediately yield up to a **15 - 30% cost savings** (depending on the distance between container locations and number of sensors installed within the area of waste management)

Waste:it application

Solution is fitted with user-friendly application which displays detailed information about the container locations and levels in each location in a structured or graphical way at a per-container level of detail. The application enables the effective planning of waste removal and optimization of the route.

Naturally, the application includes detailed reporting, early notifications and additional features enabling immediate communication on damages, changes at the location and other important information between the driver and the provider/headquarters. The application is available on the Android and the IOS platform.



Visualization of the waste:it application - the local resident point of view (current status of the waste level display, and damaged and out of order containers display)



Pricing

Final pricing is always customized, reflecting specific customer's requirements (e.g. number of container locations, the distance between them etc.).

There are two basic approaches available:

Buying waste:it solution

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Customer becomes owner of the sensor and all related HW

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Final pricing is customized

Leasing waste:it services

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Customer regularly pays for using the HW and the maintenance

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Price starts from 3,50 EUR/month per single sensor

There are two alternatives for route navigation to waste collection:

Google maps

—

Any route suggestions and navigations are generated from generic google maps data

Sygic fleetwork

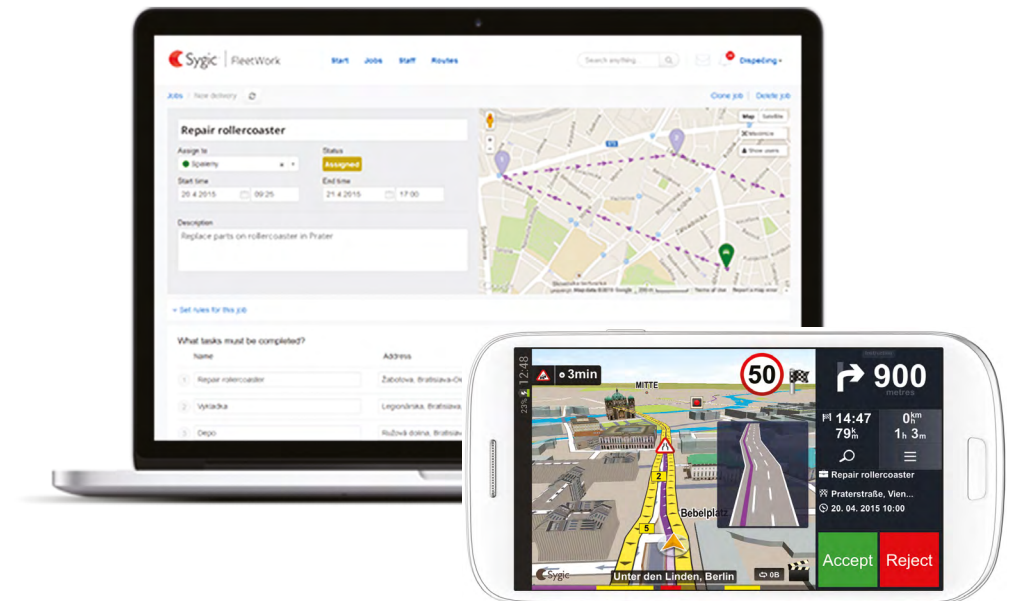
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Professional navigation bundled with web based fleet and workforce management, ideal for professional providers of communal services and waste management suppliers

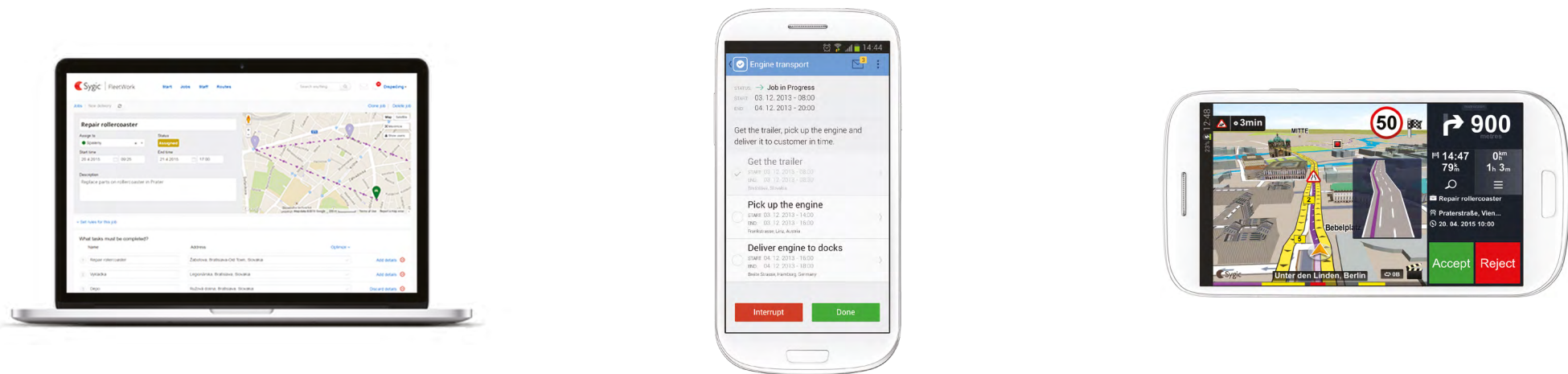
Sygie FleetWork

Waste:it sensors are easy to integrate with Sygie FleetWork, professional navigation bundled with a planning and workforce management solution. Sygie FleetWork has the ability to optimize itineraries and find the most efficient routes to collect full bins, saving municipal providers money, time and other resources. Optimized itineraries are dispatched directly to drivers, who are guided by a professional turn-by-turn navigation.

Sygie professional navigation allows drivers to avoid routes unsuitable for trucks, cargos and hazardous materials. Dispatchers can track and monitor the drivers in real time with Sygie FleetWork web application and generate various reports and statistics about job execution. Sygie FleetWork makes it easy for fleets to benefit from the high operational efficiency that sophisticated IT solutions can deliver without wasting their budget on additional tracking hardware and difficult software implementation.



3 components in 1 fully integrated package



❶ Desktop app for dispatching and tracking

The desktop application is used by Dispatchers to create Jobs with tasks, optimize job itineraries and dispatch them to available drivers. This is the control station for tracking, monitoring and reporting. All data are stored securely on a cloud. There is no need to install anything. All you need is a web browser and online connection.

❷ Android application for drivers and field workers

The mobile application is used by drivers to receive jobs, navigate and collect reports and communicate with the office. Thanks to GPS and an online connection, dispatchers can track their drivers' positions and Job status online in real time.

❸ Offline navigation with real time traffic

Professional Sygic GPS Navigation software with the option to turn on TRUCK features for specific routing that automatically avoids roads not suitable for trucks or special cargoes. Sygic Navigation offers real-time warnings about traffic jams and the duration of the delays.

Features



Plan

Get a real time overview of your orders and available drivers on the map. Create jobs and plan optimized itineraries for each driver.



Dispatch

Dispatch jobs and itineraries directly to your workers phone based on their current positions and availability.



Navigate

Automatically navigate your drivers to their destination, saving time and money with professional Sygic Navigation and real-time traffic.



Report

Monitor and track data for routes, workers and job status for easy control and management.



Integrate

Use our easy to implement API to get connected with your ordering or optimization systems.

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waste:it

Let's pick up the waste, not the containers

Contact

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Thank you!

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