



LYNCXX Waste Management

LYNCXX Waste Management system calculates the optimal route for waste collection trucks based on filling sensor data from inside the containers. Our solution ensures that waste containers are emptied in time, resulting in a cleaner city for its residents, while being highly customizable to meet customer needs. Driving an optimal route means that less waste trucks are deployed and a reduction in mileage, leading to more efficient and sustainable waste collection.



Implementation

Avalex contracted ARS T&TT to optimize waste collection in Dutch municipalities near Delft by implementing the LYNCXX Waste Management solution. The goal was to minimize transport costs, prevent traffic problems and overflowing waste containers. Historic data and fill rate data from sensors in underground waste containers are used to determine optimal collection times, while LYNCXX optimizes route planning based on actual fill rate data, historical patterns and physical restrictions.



Features

Sensor data collection

Collects filling sensor data from the waste containers to calculate the optimal route for waste collection trucks.

Optimal route planning

Calculates the most efficient, sustainable route based on actual fill rate data, historical patterns, and restrictions.

Local constraints consideration

Software considers local constraints: road closures, weight restrictions, and time windows to plan routes.

Vehicle route planning

Plans the availability of waste collection vehicles and personnel to ensure timely and efficient operation.

Self-learning system

Dynamic and self-learning, adapts to the actual traffic situation.

Advantages

Improve the local waste management with an innovative approach that increases the efficiency of operations, reduces costs, and promotes sustainability.

REAL-TIME DATA

Collects real-time data from sensors in the underground waste containers, allowing for timely and efficient waste collection.

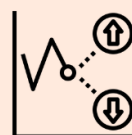


EFFICIENT OPERATIONS

Solution optimizes waste collection, reducing collection time and ensuring that waste containers are emptied in time, resulting in a cleaner city for its residents.

SELF-LEARNING SYSTEM

Solution is dynamic and self-learning, adapting to actual traffic situations and continually optimizing waste collection routes.



PREDICTIVE ANALYTICS

Our system utilizes predictive analytics to forecast future waste collection patterns, allowing for proactive planning and optimization of the routes.



Benefits

Sustainable solution

- Reduced environmental impact of vehicles
- Increased community support, brand reputation

Increased cost savings

- Optimize collection routes, reduce vehicle deployment
- Significant cost savings over time: 10-20%

User friendly

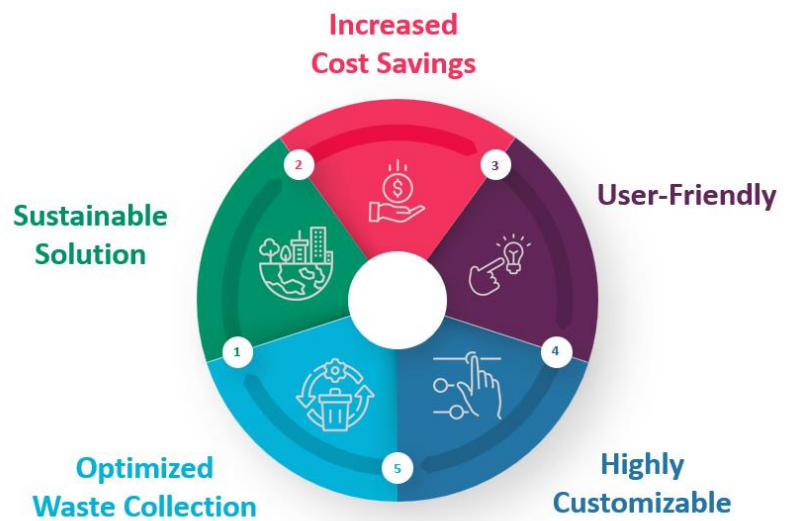
- Easy-to-use features, minimal training required
- Improved overall efficiency and productivity

Highly customizable

- Tailored to specific needs and requirements
- Improved operational efficiency and increased customer satisfaction

Optimized waste collection

- Optimized waste collection routes and real-time monitoring
- Cleaner streets, enhanced health and safety



Contact us today to learn more about how ARS can help optimize the waste management operations.

About ARS T&TT

ARS Traffic & Transport Technology (ARS T&TT), headquartered in the Netherlands has been providing intelligent traffic and transport technology solutions to businesses and government bodies for over twenty years. We are an active player in our home market of the Netherlands, with a particular emphasis on meeting the growing international demand for innovative transportation solutions. Our mission as an independent 'Intelligent Transport System' (ITS) solutions provider is to rapidly expand our leading position in the fast-growing smart traffic and transportation markets. We believe continuous improvement and innovation enable us to achieve this mission.

For more information, contact us: info@ars.nl



100+
Projects



8
Countries



24
Years of experience



350+
Employees

