

WASTE DISPOSAL AND RECYCLING OPERATIONS MANAGEMENT

ENABLE GREATER ENTERPRISE AND PROCESS VISIBILITY AND CONTROL

Waste disposal and recycling companies must manage complex operations and juggle the challenges of customer demands, legal issues, and pressure to cut costs. SAP software helps connect and coordinate your business for greater control over operations and a sharper edge in a highly competitive environment.



Waste disposal and recycling firms need to deliver services effectively and efficiently, provide quality customer service, meet deadlines, control costs, and maximize revenues. To meet those goals, you need to plan jobs and routes efficiently and establish and coordinate communications with multiple fleets and drivers in the field. At the same time, you run a gauntlet of environmental and other regulations at the municipal, state, federal, and even international level.

To run smoothly in this challenging environment, waste disposal and recycling companies need to make communication and information technologies a fundamental part of the enterprise. But many companies suffer from a lack of coordination throughout management, operations, sales, human resources, and people in the field. Crucial data is stored in separate, disconnected “silos,” or needlessly duplicated and rife with errors caused by manual and repetitious data-entry procedures and systems.

Companies like yours need accurate, timely information on all aspects of the organization available to those who need it, with software solutions that are seamlessly integrated to manage process flows and data. SAP has the answer. The SAP Waste and Recycling application, along with applications for route and district management, mobile order management, and legal requirements, integrates with the SAP ERP application to help you streamline operations, reduce costs, and meet compliance responsibilities.

You can plan routes more effectively and communicate with crews in the field to respond to changing circumstances – from a customer cancellation to an unexpected storm.

Together, these applications give you access to and control over accurate, up-to-date information on crucial business processes. SAP ERP plays a critical role by closing the loop for front- and backoffice operations – seamlessly integrating financial accounting, controlling, logistics, and other key processes. With SAP ERP, you can create and manage quotations, contracts, and orders through standardized interfaces and role-based access and functionality. And it’s all based on accurate, up-to-date information for pricing models, discount structures, margins, service delivery information, and customer history and credit checks.

Enterprise-Wide Visibility and Control

With communications and IT in sync across your organization, you can create and implement business strategies, make mission-critical decisions, and optimize enterprise operations. SAP software facilitates your business in the following areas:

- Planning routes and districts
- Enabling communication and data exchange between, crews, depots, and the head office
- Complying with regulatory requirements

More Effective Route and District Planning

Your team faces day-to-day challenges posed by planning scheduled jobs, combining and balancing regular contract work with one-off jobs, and responding to customer requests and changes. Operations managers need optimal assignment of equipment and crews, meeting schedules and deadlines while ensuring that vehicles operate at maximum efficiency by covering the shortest distances possible. Yet customer satisfaction is always paramount.

Compounding these logistical challenges is the hard truth that fuel and human resources are among your biggest cost factors – and the price is only going up. The answer is to find a way to reduce operational costs. The solutions enable you to accomplish that while maintaining your competitive stance and delivering to customer expectations.

The SAP Dispatching and Planning application by PROLOGA enhances your ability to plan routes and districts in the short, medium, and long term. With the user-friendly, integrated display, you can plan and compare scenarios. You can adapt to the different planning requirements of jobs ranging from single-order items with only one or two days of lead time, to regularly defined operations such as container service and street cleaning.

An interactive digital map interface integrates core data that includes the locations of waste generation sites, disposal facilities, depots, and transfer stations – so you can optimize route and district planning. The application even allows you to make changes and adjustments while deliveries are underway, increasing flexibility and efficiency.

You can also analyze data and processes, helping you continuously improve processes and operational practices. Planning functionality is transparent and replicable. And you can calculate, monitor, and customize key performance indicators to ensure that standards and regulatory compliance requirements are met.

Better Communications Across the Distributed Enterprise

Asset management has a direct impact on your bottom line. You have to find an effective way of maximizing the value of widely distributed assets such as vehicle fleets and crews. Many companies, however, are not sufficiently connected to these distributed assets. Common events such as traffic, vehicle breakdowns, or urgent new orders throw a wrench into operations – and many companies find it difficult to recover before these disruptions negatively impact their customers.

The SAP Mobile Order Management by PROLOGA helps you manage critical assets more effectively. By facilitating communications and the real-time exchange of important data, the software helps you keep in constant contact with your fleet and crews out on the road. When the inevitable breakdown occurs or a last-minute order must be delivered, schedulers and controllers can respond effectively by altering schedules and changing jobs as needed. This keeps operations flowing as smoothly as possible – maximizing the efficient use of your valuable assets and keeping your customers happy.

Data collection is automated – thanks to transponders, bar codes, automated weighing, and other technologies. This streamlines operations, reduces the costs associated with manual paperwork, and frees your crews up to concentrate on their primary functions. It also serves as the foundation for greater analytical capabilities because mobile asset data is shared with the enterprise in real time. Instead of waiting for vehicles to return, depot managers have pertinent data at their fingertips to make informed decisions in real time – while crews are still in the field. Moreover, this data can be stored and leveraged across the enterprise, from accounts receivable to human resources, to help you fine-tune processes and improve business strategies and tactics.

Facilitated Regulatory Compliance

The subject of environmentally friendly waste management is complex, a political hot-button issue of great concern to a broad spectrum of interests. Waste management companies face complicated – and growing – regulatory compliance issues. You must navigate a dizzying array of municipal, state, national, and international legislative requirements regarding the collection, transportation, and disposal or recycling of waste materials.

The SAP Material Flow Management and Legal Requirements Foundation by PROLOGA supports your efforts in this crucial area with integrated functionality that not only facilitates compliance, but minimizes administrative efforts and costs. The solutions account for metrics such as waste type, weight limits, vehicle requirements and restrictions, disposal locations and methods, and so forth – and provide accompanying reports.

Regulations change, of course, and the solutions will help you keep abreast of new and changing requirements. And you'll have the documentation needed for authorities and your customers.

Optimized and Coordinated Operations

With SAP software for waste and recycling management, you'll realize the following benefits:

- Improved, transparent, and replicable planning with the user-friendly, role-based integrated interface and display, including interactive digital mapping functionality
- Increased customer satisfaction and efficiency due to improved communications and higher speed and quality of mobile order realization
- Better analytical capability and increased visibility across the enterprise through the integration of accurate real-time data
- Key performance data calculation and restriction monitoring
- Cost reductions through better fleet and crew optimization
- Complete, integrated professional and regulatory compliance support

Find Out More

To learn more about how SAP solutions can help you optimize your waste and recycling management processes, contact your SAP representative today or visit www.sap.com.



Summary

SAP solutions for waste management and recycling enable you to plan routes and districts, manage and communicate with far-flung fleets and personnel, and adhere to regulatory requirements. The solutions provide enterprise-wide visibility and help your company operate efficiently and control costs.

Business Challenges

- Accommodate different planning requirements for regularly scheduled and single-order jobs, and short lead times
- Deal with equipment and personnel on the road affected by unpredictable events such as traffic, weather, and changing customer requests
- Coordinate management, operations, sales, HR, and people in the field
- Adhere to the growing number of regulatory requirements at the municipal, state, federal, and international level

Key Features

- **Integration** – Seamless integration of financial accounting, controlling, logistics, and other key processes
- **Standardized and role-based access and functionality** – Accurate information for pricing models, discount structures, margins, service delivery information, and customer history and credit checks for creating and managing quotations, contracts, and orders
- **Interactive digital map interface** – Core data that includes locations of waste generation sites, disposal, facilities, and the like for optimized route and district planning
- **Mobile order management** – Automated data collection that streamlines operations, reduces costs, and enables analysis
- **Compliance management and reporting** – Support for meeting legal requirements by accounting for metrics such as waste type, weight limits, disposal locations, and so forth, with accompanying reporting functionality

Business Benefit

- Transparent and replicable planning
- Reduced administrative costs through paperwork elimination
- Tightened operational costs through more efficient use of assets and personnel
- Improved customer satisfaction thanks to improved communications in the field
- Increased enterprise-wide visibility through integration of accurate real-time data

More Information

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