



COSMO Environmental Services

The integrated solution for waste management and recycling based on Microsoft Dynamics 365 for Finance and Supply Chain Management



Highlights

- Extended mapping of business partners and relationships
- Contract management including mapping of industry-typical material and cash flows
- Order processing for incoming and outgoing material flows
- Container management (monitoring and business evaluation)
- Long- and short-term transport planning
- Integrated weigh scale solution
- Recording of sorting, recycling and production processes
- Seamless integration into the Microsoft product standard
- Mobility, process automation and evaluations through Microsoft Power-Platform

COSMO Environmental Services builds on the strengths of Microsoft Dynamics 365 Finance & SCM and extends them with the necessary functions to map industry-specific processes. We have been continuously developing **COSMO Environmental Services** for more than 15 years. The software is fully integrated into Dynamics 365. The goal is to use the Microsoft basic technologies, to achieve a high coverage of industry processes with the industry solution and thus to guarantee maximum flexibility.

The added values of the individual industries

Commercial and municipal waste collection

- Easily create long- and short-term contracts
- Efficiently handle collection and disposal activities
- Plan and execute transports
- Full transparency over the fleet, containers and finances

Recycling

- Planning and management of inbound and outbound shipments
- Comprehensive production planning functions with integrated preventive maintenance
- Keeping track of inventory and material quality
- Creation of material sales agreements incl. delivery tracking

Hazardous waste

- Hazardous waste tracking incl. chemical composition
- Management of waste profiles and material batches
- Mapping of legal classification systems

COSMO Environmental Services enables reverse logistics in ERP

- Incoming material but outgoing invoice
- Outgoing material but incoming invoice
- Drop shipments, intercompany and external forwarders
- Integration of stock posting, sales order and purchase order
- Order creation via call center, on demand, at the scale or automatically

Work order

The work order enables "reverse logistics" in the ERP system. Incoming material bookings can be charged and container services can be managed. With the work order, material, service and container for incoming and outgoing services can be combined as desired.

Finance and Operations Preview

Search for a page

FWR1

Save + New Delete Work order Manage Dispatch Shipment Invoice General Options

New Maintain Copy View

Direct delivery Remove direct delivery link Cancel From all Purchase totals Sales totals

All work orders

WO19001312 : Capone Demolition Ltd.

Lines Header Open order Created

Header

WORK ORDER

Business partner BP-010501

Order name Capone Demolition Ltd.

SALES ORDER

Customer account C-010501

Invoice customer C-010501

PURCHASE ORDER

Vendor account V-010501

Invoice vendor V-010501

DELIVERY INFORMATION

Site 10

Requested ship date 3/20/2020

Mode of delivery T10

REFERENCES

Contract identification

Partner reference

Lines

✓	E...	It...	Line	Linked to	Item number	Transaction type	Category	Product name	Quantity	Shipped quantity	Unit	Status	Container type	Container	Configuration	Wareho
			1		P-11001	Sales order		General waste collection / Gene...	1.00	0.00	ea	Open order	WB1100		WB1100	1010
			1.1	1.1	M-11001	Material input		General waste	1,000.00	0.00	kg	Open order	WB1100			1010
			1.2	1.1	S-11001	Sales order		General waste disposal fee	1,000.00	0.00	kg	Open order	WB1100			1010
			1.3		C-WB1100	Sales order	Contain...	1100 L Wheelie bin / 1100 L bin ...	1.00	0.00	pcs	Open order	WB1100		empty	1010

Line details

Related information

Service address

Address

Bad Fischau 1216/2
2721 Bad Fischau
AUT

open interactive map

Weight ticket

Transport overview

Contracting

Well-drafted contracts are sometimes complex and complicated, because usually the simple equation “material A will be delivered at price B” is not enough. Contracts in waste management are the basis for all types of orders and must precisely describe the services within an agreement.

COSMO Environmental Services includes the following scenarios

- Unlimited number of materials and services
- Definition of quantity, type and nature of materials, delivery or collection modalities
- Incoming as well as outgoing contract management
- Revenue and cost items in a contract
- Mapping of container services
- Status management and categorization of contracts
- Main and sub contracts
- Recurring services such as managing tours with calendars
- Integration of partners for e.g. drop shipments
- Contract offers and templates, service packages for easier contract creation

Transport & Logistics

Pickup and delivery routes are planned with a routine eye and experience, and yet spontaneity is often the order of the day. Those who have the upper hand in logistics have to keep an eye on many things:

- Which vehicles are free?
- And where are they currently parked?
- Which drivers have which certificates?
- Where do deliveries have to be made and where do they have to be picked up?
- How long does the driver need to get to point X and back?

COSMO Environmental Services helps make logistics management efficient

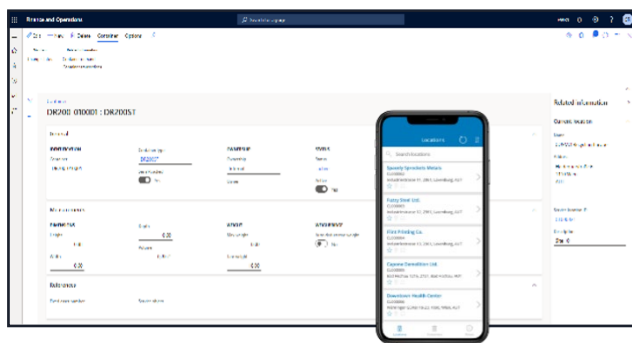
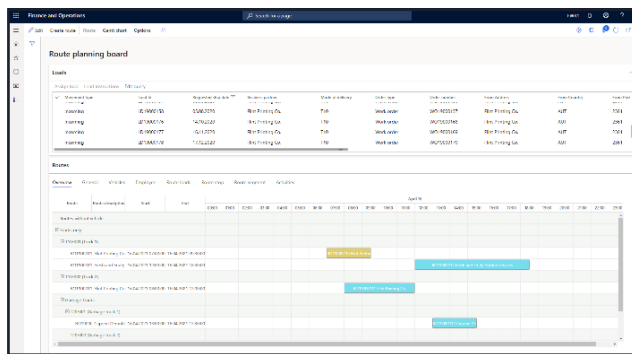
- Intuitive route planning panel
- Creation of routes for single or multiple loads
- Integration with order management
- Integration of estimated distances (incl. the time required)
- Freight cost calculation
- Carrier integration and vehicle planning

Tour planning

In addition to daily, operational route planning, recurring tours can be compiled and planned in advance over the long term. This is particularly relevant for the collection of commercial, household and municipal waste.

COSMO Environmental Services supports you in

- automatic creation of orders and tours
- automatic creation of internal stock transfers
- simple display of the calendar overview of planned tours
- assignment of addresses to a tour directly at the contract
- consideration of holidays and opening hours and simple manual rescheduling of planned tours



Container Management

It is important for the dispatcher to have a complete overview of all containers at all times. This includes containers at customers, suppliers, as well as at own storage locations. The following questions are relevant here:

- Since when has the container been at the customer's site?
- Where exactly is the container located?
- For which material was the container intended?
- Is a collection already planned?

COSMO Environmental Services supports container management in its short- and long-term planning

- Definition of container types
- Management of containers with and without serial numbers, RFID tags or barcodes
- Keeping container quantities in customer or supplier inventories
- Complete tracking of container movements internally, as well as between customers and business partners
- Handling of container-related services such as placement, emptying or container exchange

Monitoring of the material movements

The traceability functionality of COSMO Environmental Services enables the continuous tracing of materials, starting from the initial acceptance up to the final recycling.

This requirement is particularly important when dealing with hazardous materials and as a basis for legal regulations and notifications to authorities. In addition, management of the chemical composition and description of items/substances is possible. Individual batches can be traced and provided with attributes. This ensures the monitoring of the material flow from the origin to the end point traceability in different production steps such as splitting, mixing or sorting.

Weighbridge connection

Scale connection Incoming deliveries must be weighed quickly and reliably. Initial and secondary weighing on the weighbridge enables the unloaded weight to be recorded. Only on the basis of correct weight and material information can storage and deliveries be planned and coordinated. With the weighing module from COSMO Environmental Services directly integrated into the solution, all scales currently in use can be connected. The weighed quantities are posted directly in the orders and are immediately available for further processing.

Benefits

- User interface for the tasks of the weighmaster
- Integration of weighbridge
- Full overview of planned arrivals and departures at the weighbridge
- Weighing of single items up to complete truck loads
- Supports inbound, outbound, collective, subsequent, tour and check weighings
- Automatic weight distribution for tour weighings according to container volume
- Reclassification of material
- Management of rejected incoming material
- Support for quality-based deductions (e.g. moisture, contamination)

Typical industry billing models

Whether outgoing invoice or incoming credit note, incoming invoice or outgoing credit note: With COSMO Environmental Services, flexible invoicing of all goods flows is possible. The software creates all documents within one module, whether customer or supplier invoices. Thus, flexible invoicing of all flows of goods is possible with simultaneous performance control directly from the respective module.

Benefits

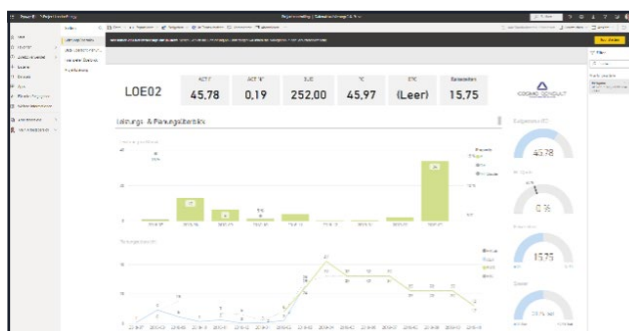
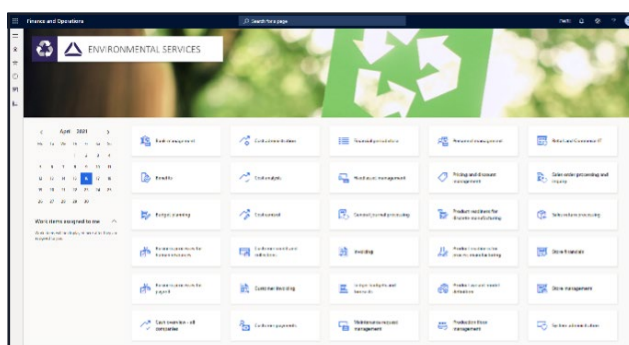
- Flexible and easy handling of invoice creation
- Automation of invoice creation
- Automatic creation of outgoing invoices and incoming credit memos

"We needed a partner who knows a lot about waste management. And we think COSMO CONSULT is the perfect partner for that. (...) It was the best choice among all ERP systems."

Martin Persson
IT Manager, Sysav Industri AB, Malmö, Schweden

Planning, Reporting and Analysis

Microsoft Dynamics 365 Finance and SCM contains a wide range of reports and evaluations, from purchasing, financial accounting, warehouse management and production to sales, these cover all common areas. In addition, COSMO CONSULT offers Business Intelligence (BI) reporting packages.



Hazardous waste

Particularly when transporting hazardous goods, the utmost care must be taken. This includes complying with legal regulations and carrying the required documentation. COSMO Environmental Services includes a strong foundation for hazardous materials, including integrated classification and labeling.

Benefits

- UN directives incl. dangerous goods classes
- UN numbers and packaging groups
- ADR and GHS labels and hazard texts

Multi-client capabilities

A large number of waste and recycling companies were historically formed by the merger of several specialized companies. In this industry in particular, this leads to sometimes complex corporate structures with branches, subcontractors, and internal activity allocation. With the flexible multi-client capability of Microsoft Dynamics 365, the product can be used for small, local companies as well as for large, international companies.

Benefits

- The mapping of regional and branch structures as well as internal departments and cost centers is easily possible.
- In addition, different currencies, languages and financial requirements can be covered in one system.

Recycling and sorting operations

Traditional waste disposal companies ceased to exist a long time ago. Rather, they have transformed into modern recyclers. Planning and control of co-products and by-products are therefore important requirements for the dynamic industry, which is expected to achieve high and pure quality of recyclates.

Benefits

- Clear overview of quantities and values of materials in stock
- Easy mapping of recycling, dismantling and mixing processes
- Complete integration into the Dynamics 365 FSCM Process Manufacturing modules

Austria • Chile • China • Columbia • Ecuador • France • Germany • Hungary
Mexico • Panama • Peru • Romania • Spain • Sweden • Switzerland

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