



Algar

Waste management optimisation

ALGAR is responsible for the reception, recovery and treatment of urban waste of Algarve, covering an area of 5 thousand square metres and more than 450 thousand inhabitants. The company was founded in May 20th 1995, by Decree-Law 109/95, provided for the creation of a Multi-municipal system for development, conception, construction and exploitation of a process of “selective collection, sorting and treatment of urban solid wastes in the Algarve”.

EXECUTIVE SUMMARY

Client: ALGAR – Valorização e Tratamento de Resíduos Sólidos, S.A.

Sector: Valuation and treatment of the urban solid waste.

Division: IT

Location: São João da Venda - Almancil

www.algar.com.pt

CHALLENGE

- ▶ Integrated Waste Management
- ▶ Operational Control
- ▶ Compliance with legal requirements

APPROACH

- ▶ To adopt an integrated waste management system, with multiple valences that satisfy all the specific requirements of this activity.

RESULTS

- ▶ Decreased consumption of paper (3%)
- ▶ Reduction in the number of setbacks on the application of taxes and other features /7%
- ▶ Increase of productivity (5%)
- ▶ Reduction in Back Office Works (30%)
- ▶ Cost-saving and processes traceability.

CHALLENGES

ALGAR has a large set of infrastructures which enable the company to cover the entire region of Algarve. In order to assure an efficient management of all these geographically dispersed infrastructures, the IT Department felt the need to improve the security of work stations and existing servers, reducing human intervention and allowing a greater back office support from the supplier.

“One of the main reasons that lead us to consider the acquisition of a new protection solution was the need to strike a service with better response capability and and came up with a viable solution for the problems identified, without denying the importance of the efficiency of the protection system.” IT Responsible

“**SIGER** solution provided by **Algardata** reduced many hours of work in Back Office (**30%**), allowing for a framing of data in real time, and even customized documents and reports.”

Hélio Viegas, Coordenador, ALGAR

APPROACH

An ideal scenario for ALGAR would involve, in a near future, the implementation of a protection system that could be totally managed from the IT office located at the company headquarters. This will mean a reduction on travelling costs causing no negative effects to the users.

Until now, there was no solution for waste management that fits the company's structure, whether it was at the level of operational control or at the compliance of legal requirements related to provision of information to numerous entities in the sector.

"There were held a large number of contacts, both personally and via Internet, with resellers and development companies, well known in the market, with the aim of finding the perfect solutions to meet our needs. Algardata was one of these companies to whom we launched the challenge to present their solutions."

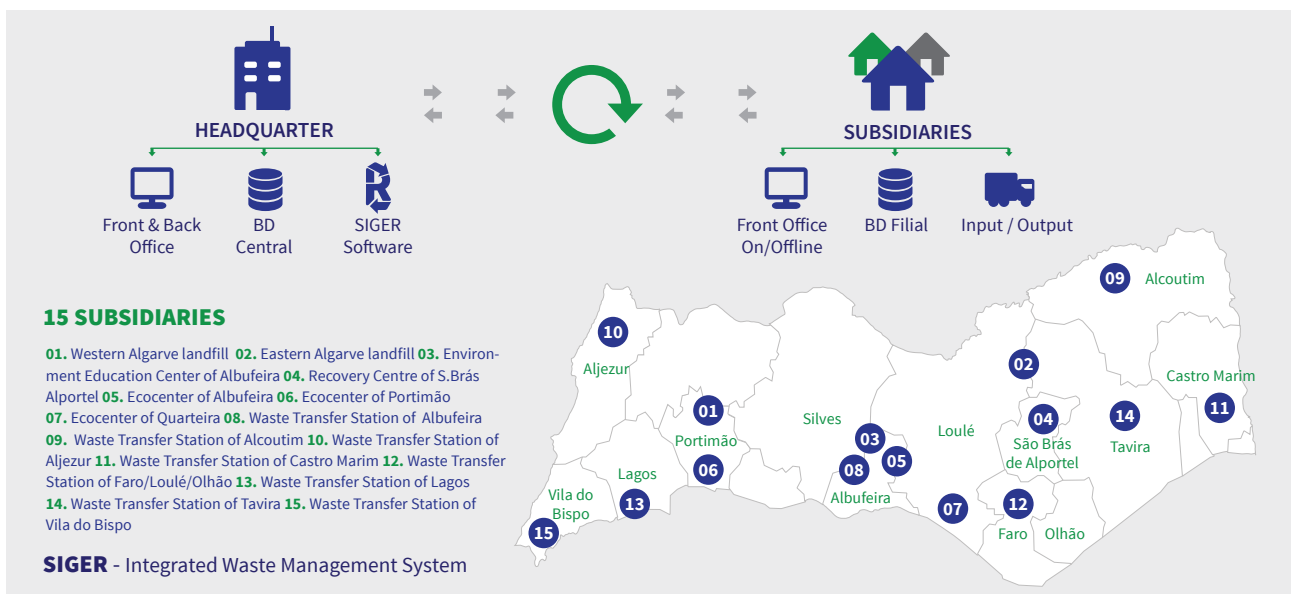
The solution that Algardata came up with consists in a waste management system with several features, among them, weighing and recording of all incoming and outgoing waste/items, as well as the recording of entries and exists of internal vehicles in the company's installations, where it was identified what procedure will be performed. This solution also allows the registration of the movement of non-company personnel.

ADVANTAGES

- ▶ Time reduction
- ▶ Costs saving
- ▶ Higher productivity
- ▶ Clients satisfaction
- ▶ Framework on data collection
- ▶ Customized reports and documentation
- ▶ Sales increases

IMPLEMENTED SOLUTIONS

- ▶ SIGER - Integrated Waste Management System
- ▶ Integration: ERP Software of Client Management – SAP



RESULTS

The system developed has eliminated the use of paper in 3%, reduced the occurrence of setbacks related to changes in rates and other features in 7%, diminish unnecessary repetitions in procedures for data validation in 10% and to avoid work interruptions in 5%.

A current programming language (.NET) was required, which led to a short time-out period, however, when started the project and all the analyses assigned to the entire waste process, the implementation and necessary adjustments were held on time. All the problems have always been accompanied by both companies with mutual understanding.

The implementation of SIGER led to a significant reduction in Back Office works (30%), allowed data framing in real time and even customized documents and reports. The main benefit is the fulfillment of every requirement and the custom development attended to the particular needs expressed, differentiated by an Offline and Modular execution.

This Integrated Waste Management Solution is based essentially on the system SIGER.

SIGER software works with the Front Office component installed in all ALGAR subsidiaries and also with the Back Office one which is installed in all headquarters workplaces. The Back Office module integrates with client's ERP, which is, in this case, SAP.

This system ensures a perfect operation of all the subsidiaries/headquarter of the company on a 24 hours basis, 7 days a week, allowing an operation in Offline mode and a secure and automatic data synchronization even when the communication fails.

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