



# RESPONSIBLE MANAGEMENT OF ENVIRONMENTAL COSTS »

## Environmental Commitment



**"With Atos Consulting's support, we have been able to innovate our responsible management model for products, in line with our Responsible Care Commitment with society. The ePack Pro solution tool has enabled us to internalise the environmental costs of our work, and improve our environmental management."**

Antonio Gascón. Information Technology Director

# ENVIRONMENTAL COMMITTMENT

## CHALLENGES

The plant in La Zaida, where different chemical products are manufactured, is constantly faced with industrial waste management issues. This challenge has brought its managers to computerise different processes involved in waste management, much of which is declared as hazardous waste.

Amongst the challenges that FMC Foret has tackled, in addition to facilitating hazardous waste control and follow-up as required by the Government, is the incorporation of environmental expenditure within the value chain of its products, in order to internalise these costs.

In short, in keeping with its environmental policy, FMC Foret decided to improve the environmental profit and loss account of its products, and to do this it was necessary to allocate environmental costs efficiently.

Therefore, in order to optimise the results of studies on waste minimisation, it was necessary to automate certain processes, thus contributing to subsequent use of data. Incoming waste, traceability until disposal, appropriate warehouse adjustments, supplies management with authorised waste managers and

transport carriers, recording of outgoing waste, and the preparation of all regulatory documents, all contributed to setting up an appropriate framework for subsequent use of data, thus ensuring a reliable environmental profit and loss account.

## SOLUTIONS

Atos Consulting offered FMC Foret a unique product, new to the market, that met all expectations.

ePack Pro, is a solution designed in the SAP R/3 environment. It totally integrates environmental issues within the business processes of waste producers such as FMC Foret. The fact that the application forms part of the leading ERP on the market, gives it strength and added value that is lacking in other "satellite" programmes that have been designed for environmental issues, which cannot be integrated with companies' business processes. ePack Pro not only provides answers to all waste management issues, but also offers directors another perspective and possibilities regarding managing companies that hold a commitment with the Environment.

The project was implemented over two months with a rapid return on investment.

ePack Pro offers functionalities that met the challenges needs faced by the customer:

**Set-up:** ePack Pro is designed to be set-up on an operating SAP platform. This means that it could be adjusted to the different needs of FMC Foret's plants, being either a simply management model like it is with non-management of waste stock (at accumulation points), or complex management processes with response to subtle and strict waste traceability criteria. ePack Pro is therefore a product that can be adapted to different needs, not only concerning a company as a whole, but also about the environmental issues of each and every plant.

**Master data:** ePack Pro permits integrated management in the SAP of Authorised Waste Managers and Carriers. Waste maintenance not only covers all the parameters related to stock management, but also the incorporation of all waste-related elements stemming from current legislation (EWL Code, tables in RD. 952/97 and RD. 833/98, waste characteristics and composition, origin of waste from a process or finished product, etc.).

**Legal requirements:** ePack Pro identifies authorised managers'

## FMC Foret

**FMC Foret forms part of the Industrial Chemical Product Group of FMC Corporation (USA). It has been present in Spain for more than a hundred years and is now one of the country's leading chemical manufacturers. From its head offices near Barcelona, the company manages and coordinates its seven production plants and distribution centres throughout the Iberian Peninsula, in**

**addition to its exports to the rest of Europe and worldwide.**

FMC Foret's chemical products also reach the Maghrib area (Morocco, Algeria and Tunisia), Egypt, Saudi Arabia, Turkey, Iran and South Africa, as well as the countries of Central and South America and Southeast Asia. These regions are served from the head office and through the

Company's branch offices and distributors in Casablanca, Algiers, Tunis, Cairo, Istanbul, Tehran, Dubai, Caracas and Manila.

FMC Foret's main aim on a global scale is to be the customers' most valued supplier. FMC Foret's entire commercial and marketing organisation is aimed towards this goal.

# “FMC FORET FULFILS ITS INNOVATIVE PROJECT WITH ATOS CONSULTING TECHNOLOGY”.

contracts and reflects two aspects that are necessary in all hazardous waste management: the commercial aspect, identifying price details, waste collection service logistics and subsequent waste processing; and the legal aspect, identifying the Acceptance Document, which is issued by the Government to authorise the manager to deal with the type of waste specified in the contract. ePack Pro is able to issue both the Application Form and the Acceptance Document.

**Waste adjustment:** if the company decides to manage its waste using stock control, and not just at accumulation points, ePack Pro manages incoming waste from the production line to the waste warehouse, recording all data required for subsequent traceability management.

Different reports can be used to draw up an inventory of stored waste stock, either using the internal waste code or by using the EWL code or other characteristic.

ePack Pro can label all managed waste based on the waste record held in the system. ePack Pro is equipped with an advanced alert system that notifies the Environment department of upcoming expiry of any stored waste, and it then sends to an authorised manager a request for collection. Expiry dates are set by the customer, who decides whether to use the legally established six-month period, or whether to apply shorter periods according to internal criteria.

**Waste transfer:** After requesting waste disposal in accordance with the contract in force, ePack Pro can then print the documents related to this request:

- > Notification of hazardous waste



## ePack Pro

ePack Pro is designed to be integrated in the SAP R/3 Materials Management (MM) and Financials and Controlling (CO) modules. All developments have been carried out in accordance with best practices and set-up profiles ensure zero collision with an SAP application that is already up and running. It complies with current regulations related to hazardous

waste management and all documents created by ePack Pro comply with these regulations.

A new paradigm: ePack Pro is the ideal tool for modern-day companies that are committed to the Environment. It provides the ideal framework for incorporating environmental issues in companies' computer systems.

transfer

- > Control and Follow-up Document
- > List of collection at warehouse
- > Dispatch note
- > Letter of Transport (Hazardous Goods)

An automatic alert process notifies the dispatches department that it is necessary to start activities to prepare and collect the batches identified in the outgoing process, prior to the waste manager's imminent arrival.

Finally, ePack Pro carries out the outgoing waste process, following one of the four options below:

- > Outgoing waste to authorised manager. This links up with the purchases module, in order to find out the cost of this process for the batch in question.
- > Outgoing waste to by-products. Waste that can be sold to other companies that are interested in this by-product. ePack Pro activates this option by linking up with the SAP R/3 SD sales module.

- > Outgoing waste to Recovery. Waste that is recovered as a raw material and reinserted in production chains.
- > Outgoing waste to Reuse. Waste that is reused at other company's internal cost centres.

All these options for outgoing waste can be performed from stock management by integrating the process with the SAP logistics processes, or if the waste is managed at an accumulation point, the action is carried out transparently, but always ensuring waste traceability.

### Documentation and reporting:

ePack Pro issues reports to facilitate using data that are obtained:

- > Traceability reports. These reports detail waste movement from generation in production chains until waste removal through one of the above options. The reports detail cost centres, processes and finished products that will form part of future waste minimisation studies due to their major waste generation.

# ENVIRONMENTAL COMMITTMENT

## Atos Consulting and the Environment

**Atos Consulting, the business consulting arm of Atos Origin, has developed a strategy for approaching and searching for technological solutions to the different environmental issues that companies face.**

Its investigational work looking for collaborative synergies between public and private sectors has resulted in the "White Paper on IT applied to the waste sector". Not only does this compile an inventory of

existing technologies, but also diffuses a Road Map to follow in order to solve electronic processing of environmental issues in Spain.

The ETER Project was developed from the Road Map, and the result is a common language for understanding all the public-private platforms related to environmental data processing: Environmental Electronic Exchange Language (E3L), has been approved and backed by 15 Regional

Governments that have signed an undertaking to accept E3L as the standard of reference in environmental data processing in Spain.

Atos Consulting has used this knowledge to develop tools for private companies that are committed to protecting and recovering the Environment. The Environment Pack product suite is one of these tools, and ePack Pro forms part of it.

- > Outgoing waste reports. These reports detail the degree of internal recovery of waste or the possible lack of processes for reusing or recovering waste.
- > Records book. In accordance with the regulations laid down by the different regional governments, ePack Pro issues a records book that can be presented before auditors that are sent by public authorities at any given moment.
- > Reports and cost distribution. ePack Pro provides the data required to distribute environmental costs incurred from waste, assigning them to the originating cost objects (cost centre, process, finished product), and obtaining a profit and loss account that will give the company an idea of the level of environmental cost levied by its products.

### BENEFITS

For FMC Foret, ePack Pro has brought a new perspective to environmental data processing in the company: economic data derived

from waste management are now duly assigned to the corresponding cost centres, production orders, process lines and to the finished product that originates the waste. This will clearly permit FMC Foret to obtain an enhanced level of communication with its customers, waste managers and with Public Administration.

As a result, therefore, Atos Consulting's solution means that all this information is now available for managing, negotiating and fulfilling the environmental challenges demanded by our society.

Below are some of the benefits offered by the Atos Consulting ePack Pro solution:

- > Cost savings in waste processing supplies management.
- > ePack Pro produces official documents (Notification of Transfer, Control and Follow-up Document, Letter of Transport, Records Book, etc.) without requiring any interface.
- > The possibility of assigning environmental costs to the finished

product or to the originating process behind the finished product.

- > Availability of transparent environmental information to different institutions and therefore to the general public, in compliance with the Aarhus Convention on "Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters".

## About Atos Origin

**Atos Origin is an international information technology services company. Its business is turning client vision into results through the application of consulting, systems integration and managed operations. The company's annual revenues are EUR 5.4 billion and it employs 50,000 people in 40 countries. Atos Origin is the Worldwide Information Technology Partner for the Olympic Games and has a client base of international blue-chip companies across all sectors.**