

Optimized production planning tool

Summary

Profile type	Company's country	POD reference
Technology offer	Spain	TOES20250218009
Profile status	Type of partnership	Targeted countries
PUBLISHED	Commercial agreement with technical assistance	• World
Contact Person	Term of validity	Last update
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General Information

Short summary

A Spanish Information Technology (IT) company offers a cutting-edge optimization tool for sales forecasting, production planning and procurement. The tool integrates a fast and powerful statistical analysis of the sales record of each company's product with business information and the state of the supply chain to provide an optimized production and procurement plan. The company is looking for partners to establish license agreement or commercial agreement with technical assistance.

Full description

Demand forecasting is a key process in managing the supply chain and it drives all the activities related of the planning process. When the demand forecast is not accurate, decisions based on it can lead to operational errors with negative consequences over the whole production process as surplus of capacity and inventory or stock-outs, production downtimes, etc., causing a negative impact on customer service and costs.

A Spanish IT company offers a new cutting edge optimization tool for sales forecasting, production planning and procurement. The tool is integrated with the client's management system to calculate a tight demand forecast based on the sale record and qualitative information of the market. Without statistical knowledge, the user can obtain the outcome of powerful statistical analysis in real time and in a simple and visual way. It is an optimal solution for answering to the following questions: Which products should I produce or buy? Which quantity? When should I

produce or buy them?

This optimized production planning tool generates a sales forecast report by means of an exhaustive statistical analysis that, automatically and without user intervention, determines the best forecasting method for each item by detecting patterns of behavior, seasonality, cycles, or trends. The tool shows the results in a simple way, facilitating the decision-making and planning process as well as the operational management.

The optimization system can be used in any manufacturing industry or sector (food, plastic, automotive...).

The company is mainly looking for partners with sales forecasting and production planning needs. Different types of co-operation are possible: license agreement or commercial agreement with technical assistance. The company will offer his knowledge and technical advice during the deployment of the product in final client. Moreover, the company will assist and collaborate in the implementation of the product according to client's needs.

Advantages and innovations

Based on the demand forecast, the tool can generate an optimized production and procurement plan through the application of mathematical models that consider factors such as lead times, stock availability, purchase and production orders and production in progress, the minimum lot size, deals, costs associated with purchasing, production, and storage, etc. As a result, the user receives a detailed report with the products to buy and produce, when and in what quantity, to meet the expected demand and maintain high levels of reliability.

Its main features are:

- Make sale predictions / forecasts by means of powerful statistical calculations
- Management of new products
- Management of business information (trade actions, competition, etc.)
- Allows parameterization by product
- Analyzes and automatically categorizes the portfolio of products
- Dynamic calculation of safety stock based on historic data record and forecast
- Optimized production and procurement planning
- Evaluation of batches according to procurement, production, and stocking costs
- Performs calculations for thousands of items in minutes
- Integrates and complements the functionality of your ERP
- Users can have profiles with different views and rights

The main advantages of the optimization tool described are:

- Calculation of sales forecasts, consumption and dynamic safety stock based on advanced statistical methods
- Control and reduction of stock levels and stock outs in warehouses
- Adjustment of production and purchase plans to demand
- Lower supply chain control and management costs
- Lower inventory costs and reduced risk of obsolescence
- Management of auxiliary products
- Fast and flexible: Calculate forecasts and plans for thousands of products in minutes
- User friendly and adaptable to different productive and commercial sectors
- Easy to use: Statistical knowledge is not required
- Connectivity and adaptability to ERP systems and any data source
- Support system to decision making

Technical specification or expertise sought

Stage of development

Already on the market

Sustainable Development goals

- **Goal 9: Industry, Innovation and Infrastructure**
- **Goal 12: Responsible Consumption and Production**

IPR Status

IPR granted

IPR Notes

Partner Sought

Expected role of the partner

Type of partner sought: industry / company.
Activity of the partner: manufacturing, sales and/or distribution.
Role of the partner: final client, with sales forecasting and production planning needs.

Type of partnership

Commercial agreement with technical assistance

Type and size of the partner

- **Big company**
- **SME 50 - 249**

Dissemination

Technology keywords

- **02008003 - Logistics**
- **02003004 - Supply chain**
- **01004003 - Applications for Transport and Logistics**
- **02003005 - Information processing & Systems, Workflow**
- **01004012 - Operation Planning and Scheduler System**

Targeted countries

- **World**

Market keywords

- **02007001 - Systems software**
- **08006001 - Process control and logistics**
- **02007007 - Applications software**
- **02007003 - Operating systems and utilities**

Sector groups involved

- **Digital**
- **Energy-Intensive Industries**
- **Agri-Food**