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## Foreplanner

### DESCRIPTION OF THE INVENTION

The present invention relates to a system for the Supply Chain Management and Optimization. ForePlanner is an Optimization tool both for Demand Forecasting and for global Planning for Inventory, Production and Procurement.

ForePlanner combines advanced statistical models and business data, providing a graphic and easy to understand interface with all the information.

ForePlanner works with mathematic models to solve the problem of inventory, procurement and production planning in a global and optimized result, providing realistic solutions to satisfy demand and optimizing operational costs (inventory, production and procurement) while taking in account logistics and production capacities and limitations (inventory, production y procurement).

### APLICACION BUSINESS SECTORS

Any company may require foresee short, medium and long term demand. From traders to big manufacturers a forecasting system is required. Traders have to purchase and store those products customers will demand. Big manufacturer need to dimension their manufacturing lines, equipment, shifts, etc., and stock and purchase raw material and components, in order to be ready to produce on time those products market will demand.

Either if we provide products or services, necessary a demand forecast and a resource planning exercise is always necessary to be ready when our products or services are finally requested.

Obviously, the more complex the system, the more in need of an optimization tool. Wide variability in our product portfolio, short lead times, long supply times, offshoring of suppliers and/or customers, operations complexity, etc. are characteristics that maximize the advantages of using ForePlanner.

Therefore, the business sectors of application would be:

- Industry
- Distribution
- Logistics

### TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

The technology provides the following technical advantages and business benefits:

- Demand forecasting is a key issue in supply chain management. An accurate forecasting **avoids errors and operational over costs**, such as overstock in unneeded products, spare capacity, stock outs, etc.
- Production and procurement planning is usually done by hand or using spreadsheets. Very often, the strategy used is based on producing and buying quantities fixed by experience. These practices generate production and procurement plans very far from optimality, leading to, in the short term, overstocks, and, in the medium term, stock obsolescence.
- An optimized planning allows **reducing production and procurement costs, reducing stock levels, avoiding over costs related to emergencies** (extra shifts, express transport, ...), **avoiding stock outs** and, consequently, **improving the service level**.



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- Moreover, ForePlanner is a **simulation system and a decision making tool**, integrating in an only tool demand forecasting and production and procurement planning. The impact of any action in any link of the supply chain is evaluated in the whole chain, helping to make decisions that produce a **global benefit** and ease the **synchronization among operations, suppliers and customers**.

### STATUS DEVELOPED OF THE TECHNOLOGY

ForePlanner is a software developed and tested by the Instituto Tecnológico de Informática. It is installed in customers from a variety of sectors and sizes. ForePlanner is under continue evolution, including every year the improvements achieved through the research done in the ITI and the inputs and experience from our customers.

### INTELLECTUAL PROPERTY RIGHTS

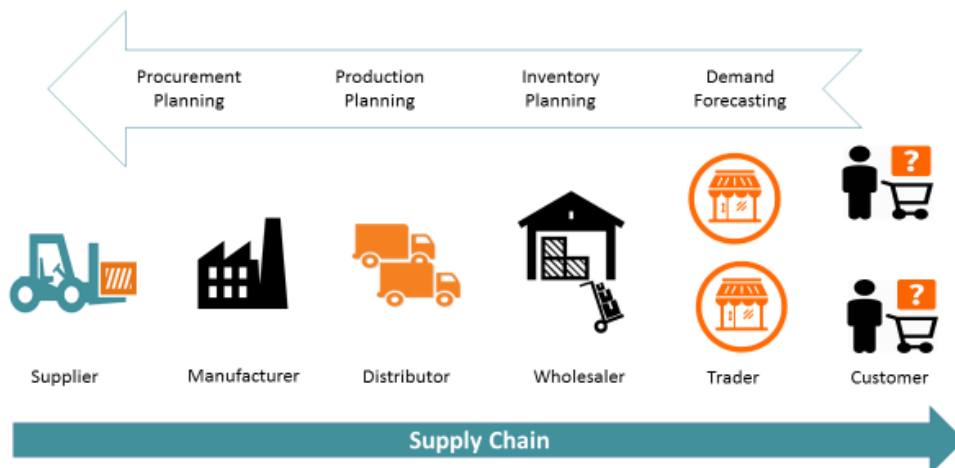
By licence

### COLLABORATION SOUGHT

Companies interested in the following systems of cooperation:

- Agreement about patent license to implementation and to use of technology.

### RELATED IMÁGES





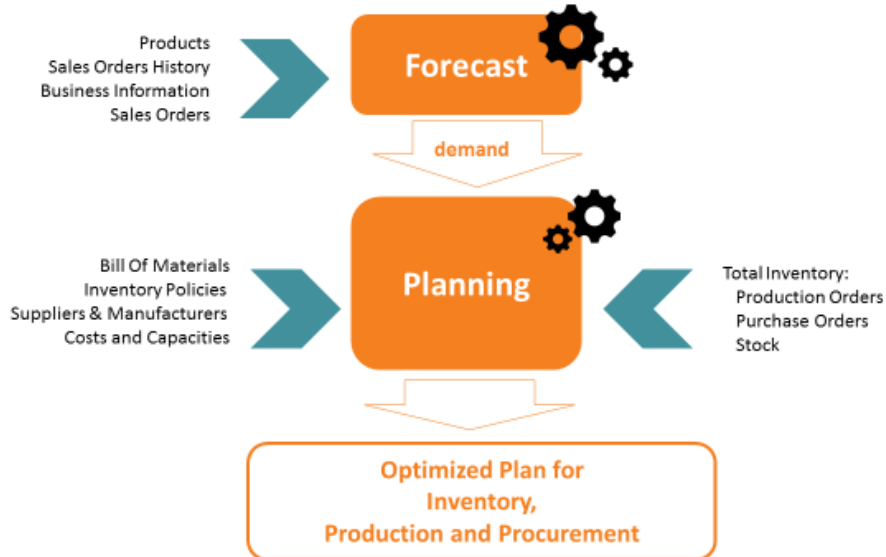
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