

Carnini, born in the '30 as a milk station, developed and broadened its business in the following years since to arrive at the beginnings of the '90 to diversify its activity and to offer different typologies of products derived from milk but not only: U.H.T. milk, butter, cream, yogurt, eggs, fresh cheeses, sandwiches, fruit juices, fruit pieces and salads. However the Carnini core business is represented by high quality milk that today represents 55% of the turnover.

It has about 4.500 customers situated in West Lombardia and East Piemonte, represented for 70% from the GDO and for the remaining 30% from the detail.

Featured for the freshness of its product, Carnini distribution is organized widespread in order to daily reach the points of sale and to optimize the distances and the delivery times.



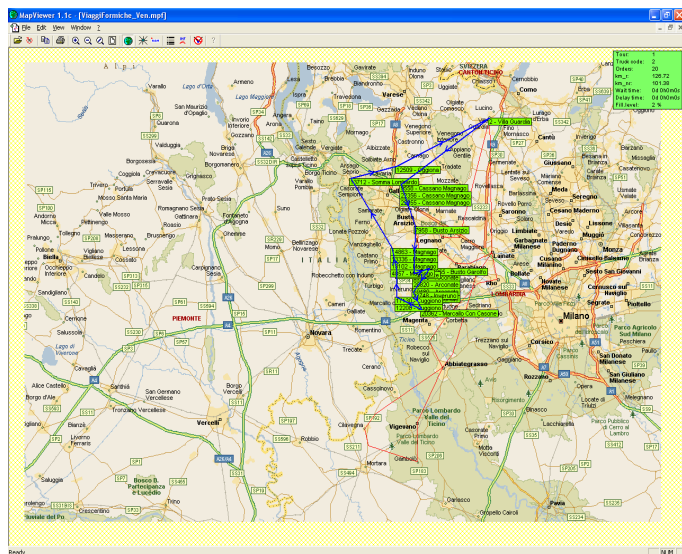
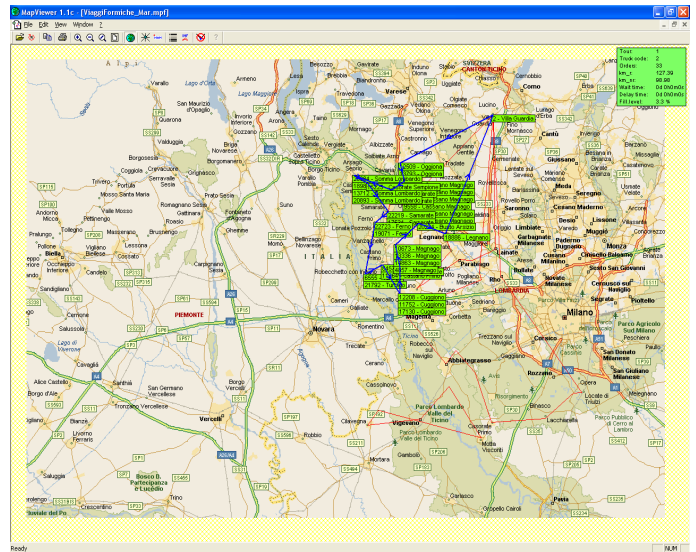
Carnini distributive process analysis



- Fleet of about 86 vehicles, part of property and part outside, all refrigerators and constantly monitored to safeguard the continuance of the cold chain.
- 4 depots and 1 logistic hub.
- 2 distributive lines with different features (distribution time windows, time of relationship with the customer, deliveries number...).
- Lack of a strict distinction between the two distributive lines.
- Static routes (repetitious).
- Customer relationship based on tempted sold.
- Absence of real orders.
- The same customer has to be served always from the same operator.
- Most of the loaded goods is not delivered.
- Periodic deliveries.
- Delivery time windows.

Based on historical data available and considering the particular features of the distributive process, Carnini, thanks to AntRoute, decided to reorganize the goods distribution itineraries minimizing the number of vehicles used.

The goal is to analyze periodically Carnini distributive process in order to find out margin of enhancement/improvements and to agree by the utilization of sophisticated technical of optimization to improve the fleet efficiency. The same technologies will be used as a simulation tool to evaluate the costs and the risks associated to alternate distribution sceneries.



Based on the distributive process analysis and from the available data, AntRoute minimize the number of routes for each distribution area of Carnini, maintaining the same frequency and the same visit days for each customer and respecting the delivery time windows. This result is reached thanks to the research of the best compromise between the minimization of KMs traveled on each route and the balancing of the customers number for each route.

AntRoute is an intelligent system that allows Carnini to automate and optimize the fix routes of goods distribution, reducing the incidence of transportation costs and increasing the vehicle routes and fleets efficiency.

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