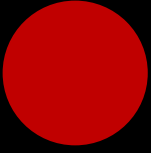




OPTIVO

The ultimate route optimization software to
empower last-mile companies



PREFACE

Like all logistics companies, we have a fleet of vehicles to manage: we have to decide which vehicle will go where, and which points it will have to visit. All this, trying to keep costs as low as possible.

But how to do it?

Manual planning, especially for those companies that can boast considerable experience, is certainly a good choice. However, it has two major problems:

1. It takes a long time
2. the resulting spin isn't as efficient as you might think

Investing in route optimization software guarantees the planning of laps in a matter of seconds, saves mileage and reduces the number of vehicles needed to fulfill all orders, consequently reducing CO₂ and other pollutant emissions.

In addition, it guarantees numerous other advantages:

1. Compared to manual programming, it allows you to reduce your management costs by up to 30%, ensuring a quick return on investment.
2. It allows you to "release" the planner, being able to allocate him to other activities.
3. What would happen if an order was suddenly canceled or one added? Typically, route optimization software allows you to manage the unexpected by quickly providing alternative routes.
4. It allows you to better predict costs, future workload and potential savings in advance.

Benefits at a glance



Savings

- ✓ Routes Optimization (up to 30% savings on total kilometers traveled)
- ✓ Greater efficiency of available resources (drivers, vehicles and planners), which can be assigned to different tasks



Customer Experience Improvement

- ✓ Accuracy in the planning of deliveries / collections
- ✓ Real-time and dynamic replanning of routes to manage urgent needs
- ✓ App dedicated to customers for order management



Environmental care

- ✓ Reduction of CO₂ emissions
- ✓ Greater impact on road traffic reduction



Risks reduction

- ✓ Automated calculation for the elimination of human error
- ✓ Ability to set specific constraints in compliance with industry regulations (eg. Driving / rest times)



Support in Process Management

- ✓ Real time monitoring of service quality
- ✓ Driver and route management with dedicated app
- ✓ Detailed analysis of the fleet's performance, including:
 - Kilometers traveled for each route;
 - Duration of each tour and arrival time at each point;
 - Transport costs (kilometer and hourly);
 - Fixed cost for non-owned vehicles;
 - Emissions of CO₂ and other pollutants.

Detailed features

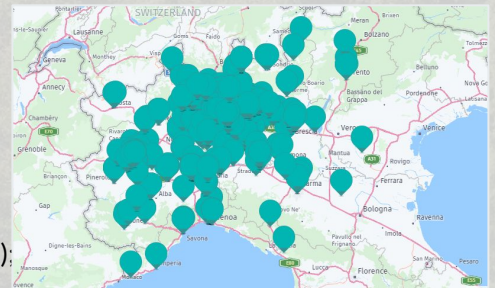
1. Routes Planning and Optimization

Logistics planning is the heart of Optivo.

You can choose which planning constraints to consider, set the objective function and generate your own optimized laps.

The **basic constraints** considered by the system are:

- Depots time window;
- Characteristics of the vehicles (capacity, number, starting and ending point, dispatch priority...);
- Delivery time window;
- Combined pickup/dropoff management;
- Priority order on customers to be visited;
- Mandatory pauses for vehicles (e.g: lunch break);
- Locations with maneuvering difficulties.



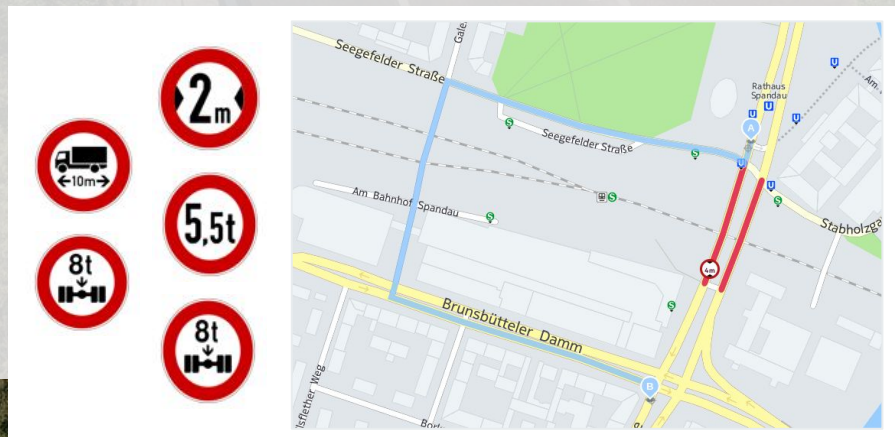
In case of additional constraints, our team will evaluate the requests offering the best solution for each specific need.

We can then provide an optimization that is based on:

- Minimum total distance traveled;
- Minimum total driving time;
- Minimum general costs (considering cost/km, cost/h and fixed cost for each vehicle);
- Minimum number of vehicles used.

Also, a dedicated module proposes routes for **heavy vehicles** considering the **truck attributes** and **historical traffic data** (speed pattern). It can be used to calculate the best route between selected stops also using alternative vehicles to the planned ones.

With the constraints available, it is possible to take into account the regulations in force by setting, for example, driving / rest times.





2. User-friendly

Optivo is designed to provide the user a simple and intuitive Experience while minimizing learning times.

- **Ergonomic interface and customizable settings**

Each user has his own profile and interface, which is designed on the basis of every single need, to be used in a simple and intuitive way.

You can view the list of laps, download them in Excel format.

The **visualization of the points on the map**, on the other hand, **allows a quick and simple perception of the existing geographical relationships** and provides direct support to the planning process.

- **Planning Efficiency**

Thanks to the power of its optimization engine, Optivo is able to manage even the largest instances and complex laps in just a few seconds, considering all the restrictions and constraints assigned by the user.

- **Data Import/Export**

The personal data, constraints and daily orders can be easily uploaded on the platform through an Excel file.

Also, the calculated routes can be downloaded in an Excel format in just a simple click, so they can be easily sent to drivers.

- **Multi-users**

Optivo allows you to work on the same database from different workstations. In the multi-user system it is possible to define rights and roles to create spheres of competence and guarantee access to specific functions for each user.

3. Calculation of transport costs

Optivo provides a precise and immediate calculation of fleet management costs thanks to the inclusion of 3 different types of costs:

- Cost per Kilometer (€/Km);
- Cost per hour (€/h);
- Fixed costs.

Depending on the type of fleet owned (proprietary, third party or leased), the same types of costs can also be attributed to subcontractors, based on their characteristics.

Starting from these parameters, the Software will be able to calculate any other type of cost required (e.g.: cost per vehicle exit, cost per kg transported, cost per weight-km traveled ratio, etc.)

4. Personal data and setting constraints

Our platform allows the distinction between a personal data section and a work section. The **personal data section** contains fixed information on:

- Deposits;
- Mandatory Pauses;
- Vehicles;
- Clients.

For each of these sections it is possible to set planning constraints, including:

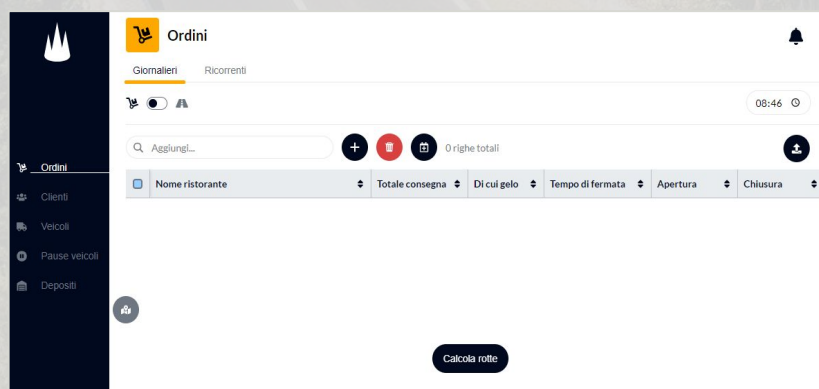
- Depots time window;
- Characteristics of the vehicles (capacity, number, starting and ending point, dispatch priority, up to 4 different capacity types, different types of costs, maximum driving time, maximum total time, maximum number of orders per route...);
- Delivery time window;
- Combined pickup/dropoff management;
- Priority order on customers to be visited;
- Mandatory pauses for vehicles (e.g. lunch break);
- Locations with maneuvering difficulties.

The **platform will be customized to the needs of each individual user**, allowing to choose which and how many parameters to consider.

Our algorithm has been designed in a versatile way, and this allows our team to easily evaluate and implement any other specific constraint.

The work section also allows you to upload and manage daily/weekly orders by inserting additional constraints for each individual order.

Once the data and constraints have been loaded, with just a simple click you can calculate the optimized routes and quickly analyze the obtained results.





Optivo Logistics

team@optivologistics.com

www.optivologistics.com

Roma

Via M. Lessona, 61
00134 Roma

+39 393 276 7088

Cagliari

Via Ospedale, 121
09124 Cagliari

+39 340 761 1867

Angrì

Via G. Matteotti, 10
84012 Angrì (SA)

+39 334 536 8119