

# Maximize your loadings, decrease costs, and reduce emissions

Enterprise software solution maximizing the efficiency of cargo handling.

OptiFit is an intelligent software solution built on top of the Optimus 4.0 platform and searching through millions of loading plans. OptiFit maximizes loaded volume while considering cargo weight, dimensions, stackability, respecting legal safety constraints like longitudinal and vertical stability, and evaluating your business's specific needs.

## Business needs addressable by OptiFit

### Better parcel fill rate

OptiFit optimizes the sizes of parcel types you use to minimize the parcel's void space and save the filling material and reduces so-called shameful boxes. It also optimizes how larger orders are split into multiple parcels to minimal the resulting parcel volume.

### Truck and container loading maximization

This application optimizes how to load items from your warehouse into a truck or a shipping container. OptiFit also ensures that the load will not get damaged during the transport by an intelligent loading sequence.

### Easy rescheduling and prediction of needs

OptiFit easily changes schedules and plans for cargo handling at any time. The application can consider the load currently in the warehouse, the weekly load, or dynamically reschedule everything. Based on historical data, we can adjust the system to predict what shipments or parcels will need to be sent and when.

## Key benefits



### Reduction of total transport costs

OptiFit maximizes the use of space, whether it is goods packed in boxes, transportation, or storage. The space saved represents reduced costs at all stages of the logistics process.



### Loading optimization in a minute

OptiFit searches through millions of loading plans. It selects the best one aligning with the preferred parameters and requirements in seconds.



### CO2 reduced

Thanks to more efficient loading and parcel filling, you can also utilize your trucks and transport more efficiently and significantly reduce CO2 emissions.



### Optimized void-fill-ratio

By optimizing the parcel sizes, OptiFit optimizes the void-fill ratio by at least 30% and reduces packaging materials costs.

## Main technical features

### Modular architecture

We can easily customize the platform to solve your specific problem, including company-specific policies and rules.

### Easy-to-customize solution

A library of standard rules and constraints applicable to logistics can be tailored to your specific needs. Our experts are ready to analyze to define the complete requirements for the optimization and tailor OptiFit specifically to your needs.

### Easy to use REST API

The platform can be accessed by other systems easily through a rich and extensible REST API.

### On-premises, cloud, or hosted options

We provide you with the best applicable solution. We can deploy OptiFit to any major cloud provider (AWS, Azure, etc.).

### Easy connection to your digital ecosystem

The system can connect to your databases or existing systems for smooth integration into your existing business processes.

## How we deploy OptiFit

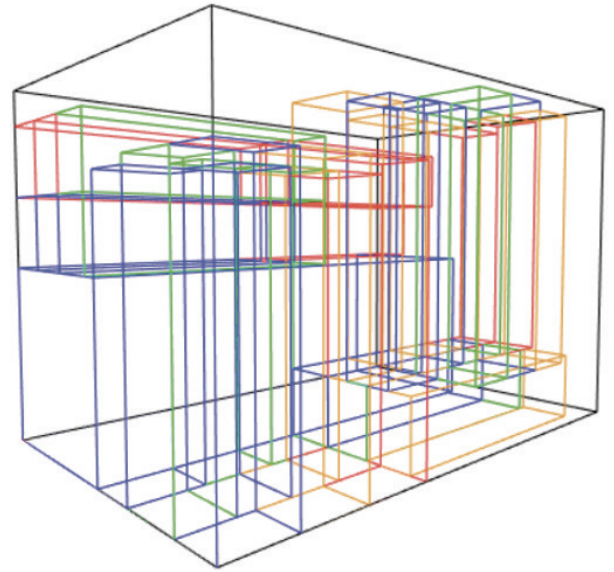
- 1.** **We collect** all business rules, metrics, and criteria with your domain experts.
- 2.** **We apply** your requirements to OptiFit to design a unique, domain-aware model tailored to your needs.
- 3.** **We connect** the platform to your data, and we customize the graphical user interface to control the system.
- 4.** **We integrate** the system into your infrastructure and your processes.
- 5.** **We provide** continuous maintenance and support.

## Case study

### Optimized parcel size reduced the void-fill ratio and saved packaging materials.

Maximized space utilization saves companies considerable costs in many ways - from loading containers, the number of trucks shipped, and packing orders into boxes. We have helped more clients with this challenge, including a large health and beauty manufacturer. The aim was to reduce the void space in parcels leaving one of their distribution centers and thus minimize so-called "shameful" shipments (almost empty boxes).

We developed a tool that optimizes the number of parcels and their dimensions using historical data as a reference. By optimizing the parcel sizes, we reduced the void-fill ratio by 33% and saved more than 10% on packing material.



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