

**SIMPLE, VISUAL AND INTERACTIVE**

A visual simulator to analyze your data, give a visual representation and guide you to optimize the warehouse

## Environment

- Manual picking environment
- **High Mix, Low Volume**
- Great complexity (in process and flow)
- Integrating a large human capital component

## Human Benefits

- Easily identify problems and create various solutions
- Accelerate the **decision-making** process and increase **collaboration**
- Reduce the **arduousness** of the work
- Increase of the **agility** by anticipating the variation of load and reacting against unplanned events
- Involve the teams thanks to the easy to use

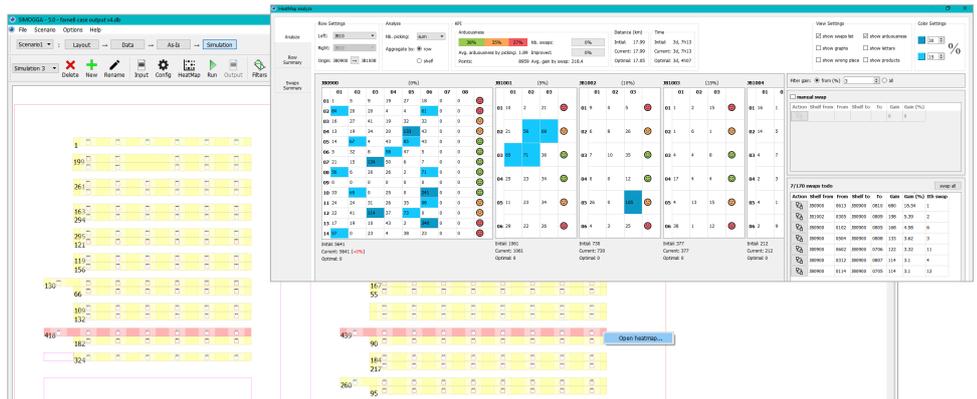
## Users Benefits

- Support the **Lean team** by quantifying the benefits of the improvement suggestions (Costs/Benefits analysis)
- Support the **logistical team** by offering a global view of the warehouse (flows and product rotations) and its efficiency
- Support the **strategy** by simulating picking strategies before implementing the best one (thanks to the comprehensive and operational parameters)
- Support the **business controller** by offering visual KPIs (efficiency by sectors, by operators...)

## About

SIMOGGA Analytics is a software solution specifically dedicated to the warehouses, to improve the efficiency of the site. Feeding on the data from the WMS our ERP, it transforms these huge amount of data in a visual representation to **easily achieve complex analysis and take the right decision anytime**.

This solution has been designed with field people for field people (Logisticien, Improvement team, Business controllers...) to **simplify their work** and make them more agile and flexible. It combines a flow optimisation module and a simulation module to bring the best results, but these results are always given in a visual way to facilitate the analysis and the understanding.



## Business value

It is a major enabler of achieving overall efficiency by allowing logistical companies to visualize, quantify and optimize their entire warehouse – by taking each constraint and specificity of the site into account. SIMOGGA's easy to use graphical user interface allows the involvement of different stakeholders to **build solutions together** to facilitate the change management process. The visual and interactive interface makes it possible to quickly identify area(s) to find the **best potential of improvement**. The user is guided in its improvement search through various KPIs.

Because the demand constantly evolves and the data changes during the different periods, SIMOGGA Analytics will offer you the possibility to be reactive and become proactive by taking into account your forecasts.

The speed and the efficiency of the analysis allows the user to regularly improve his site. By uploading the last period of picking, **SIMOGGA Analytics** will propose a few **quick wins** (weekly, monthly...) with the best potential and the real achieved gains will be observed during the next period. The user can decide the speed to at which sets in place the proposed improvements.

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Decrease arduousness by **20 to 70 %**



Decrease the analysis management time by **50 to 75%**



Increase the **throughput, resource usage**



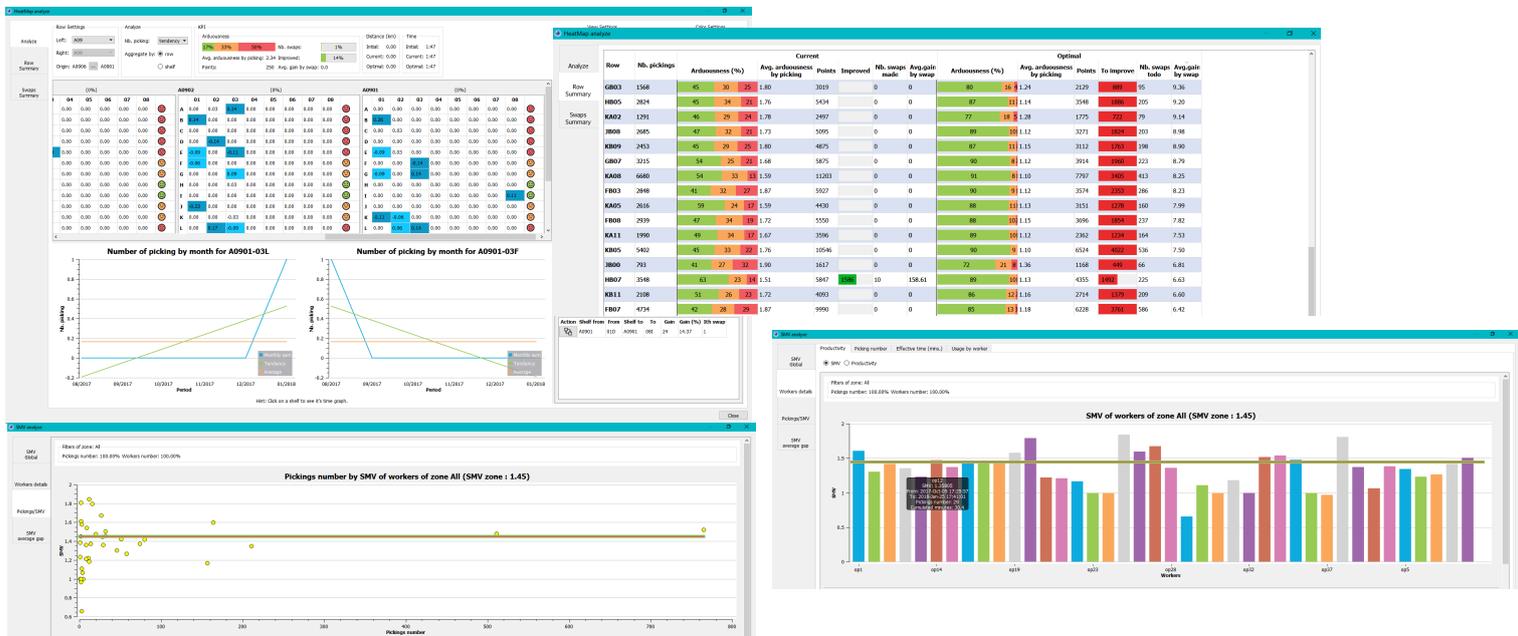
Improve the **flexibility and operational agility**



Increase the **efficiency** of each actor

## Simulate to achieve a consensus

- The customer extracts their data from an ERP/WMS (or another database) to fill in an Excel sheet to be transformed into an "xml file"
  - The data can be directly collected or changed through the SIMOGGA user interface
  - The design of the layout is build in the **Layout view** to define the different storage and product location
- The data and its reliability can be validated thanks to the visual view of flows and storages
- Based on the historical picking data, the user creates the As-Is situation with SIMOGGA to analyse the current KPIs
  - The **As-Is view** offers the flow analysis and an evaluation of all the KPIs (Arduousness, kilometers, efficiency...)
  - The transport time is computed by the simulator (based on the layout) to extract the real picking time (by zones and workers)
- The user is guided in SIMOGGA to reach improvements and simulate various scenarios to generate an efficient warehouse
  - A **"quick compare" scenario** interface to test and validate the changes in the warehouse (Product location, layout modification, picking strategy, demand variation, new products, new investment...)
  - A high **interactivity** rate to capture the input of the operators and create a consensus
- The improvements can be spread over time and follow the reality on the field by inserting new data



## Analysis/Results Features

- Create easily and quickly the **layout** with thousands of stock locations (based on templates)
- Create your own **filters** (by products, machines, operators, product families)
- Simplify the **flow analysis** using filters to decrease the complexity
- Analyze the **aisles congestion** and remove it by changing the layout
- Create **product families** (Product Flow Analysis, ROC, Similarities)
- Quickly identify **product locations** with low, medium or high rotation
- View detailed information on each Location/Product/Worker (usage and the evolution over time: Average, Tendency, Variation...)
- Visualize highlighted row concentrating the **best improvements**
- Quantify the **required human resources** to reach the goals
- Compare **multiple KPIs** (Arduousness, kilometers, product rotation, Potential of improvements, standard picking time, etc.)
- Show multiple **graphs** representing each KPI
- Quickly compare **multiple scenarios**, data and results
- Modify all parameters of the schedule on the fly
- Export files and results in CSV, JPG, PNG

## About us

We develop visual, simple and interactive solutions to facilitate the organisational improvements of production/maintenance sites and warehouses. Human oriented, our softwares allow to create together the solutions for tomorrow.