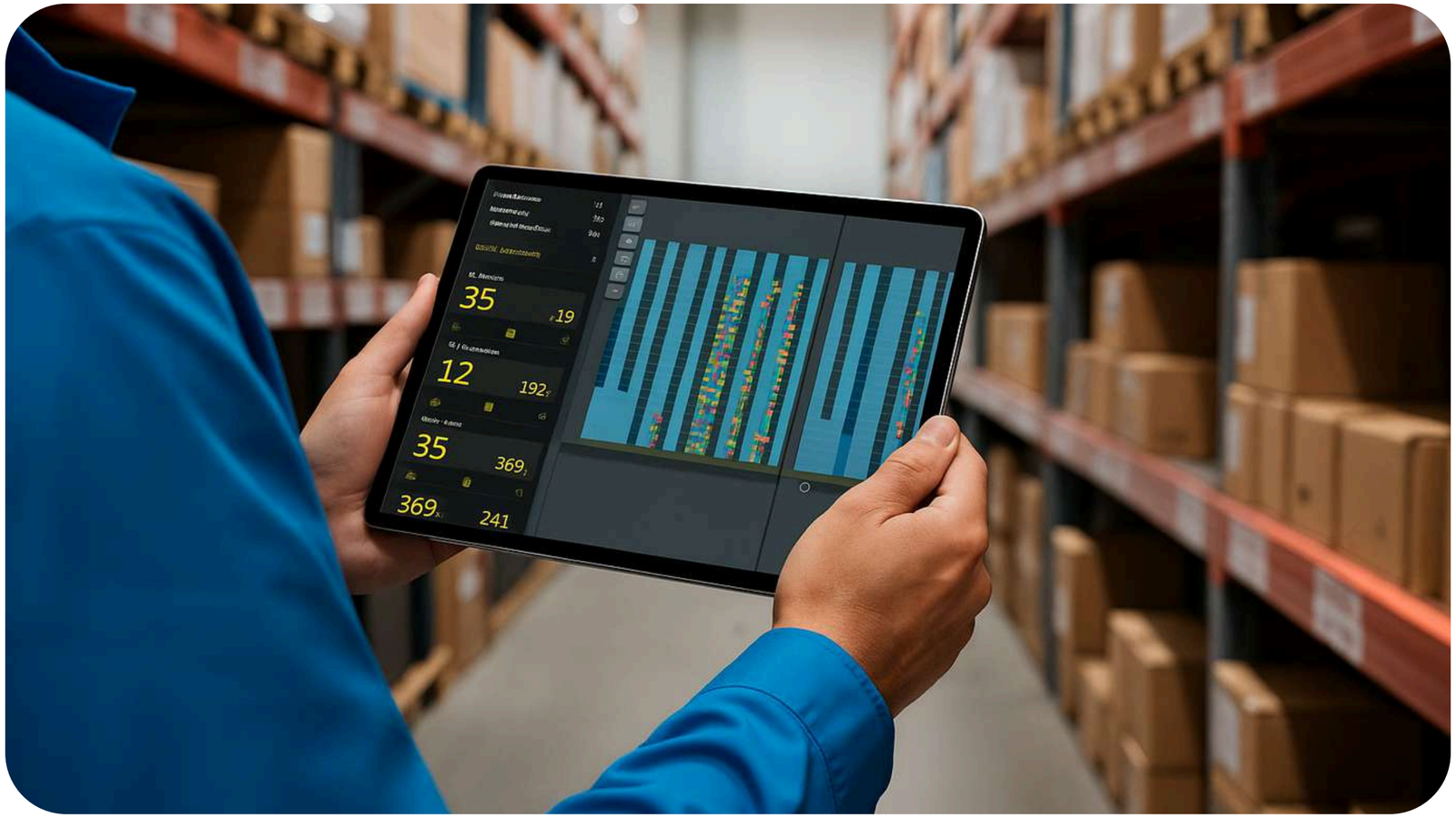
Digilo



Details about Digitwin

“Make the best of your warehouse data”

proprietary & confidential Digilo GmbH

The problem with tracking warehouse performance

Warehouse performance is influenced by many variables - workload, staffing, layout, routes and peak situations. Yet, daily decisions are often made **without full visibility**.

Unclear performance during peak seasons:
Lack of real-time visibility makes it difficult to understand if operations are under control when volumes increase

No transparency on local performance issues:
What happened in a specific aisle or zone remains unclear, making root-cause analysis slow and imprecise

Inability to measure the impact of changes:
New picking routes or layout changes are implemented without knowing if they truly improve performance

Inefficient workforce planning:
Uncertainty about how many pickers are really needed per wave leads to overstaffing or missed targets



The solution: Digitwin

Offered by Digilo in collaboration with Warebee, **Digitwin** empowers you to optimize your operations, make informed decisions and lead your teams more efficiently.

Digitwin learns from your **WMS/ERP data,** monitors real-time operations and helps to forecast the future. Leveraging **Artificial Intelligence** and **Machine Learning**, it allows you to discover hidden inefficiencies, forecasts bottlenecks and provides recommendations to improve your processes.

Visibility & compliance: Gain warehouse visibility and automate compliance monitoring, reducing operative risks

Real time analytics: Analyse your warehouse performance, drilling down into the principal cost contributors

Planning by simulating: Optimise future volumes and resources availability

Optimise for the future: Continuously optimise your warehouse with AI, make better planning decisions, drive your costs down

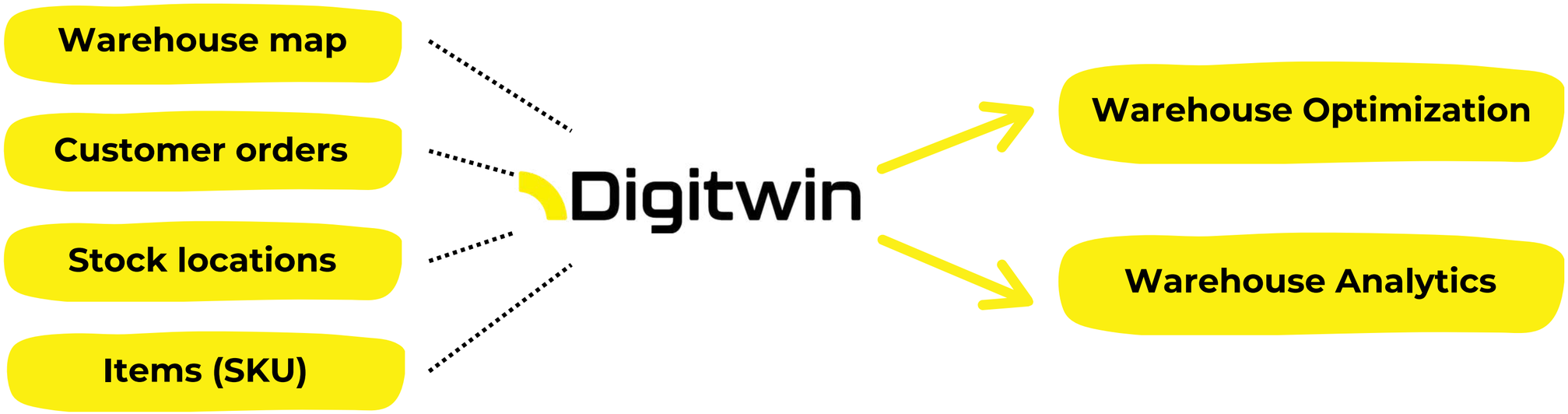


How does Digitwin work?

Import WMS Data
Upload your **WMS data** using a simple import wizards. Only need locations, orders, stock and items

Digitwin
We create a **digital copy** (digital twin) of your warehouse and operations

Analyse and Optimise
You can **visualise, analyse, check compliance and optimise** your warehouse in a matter of minutes

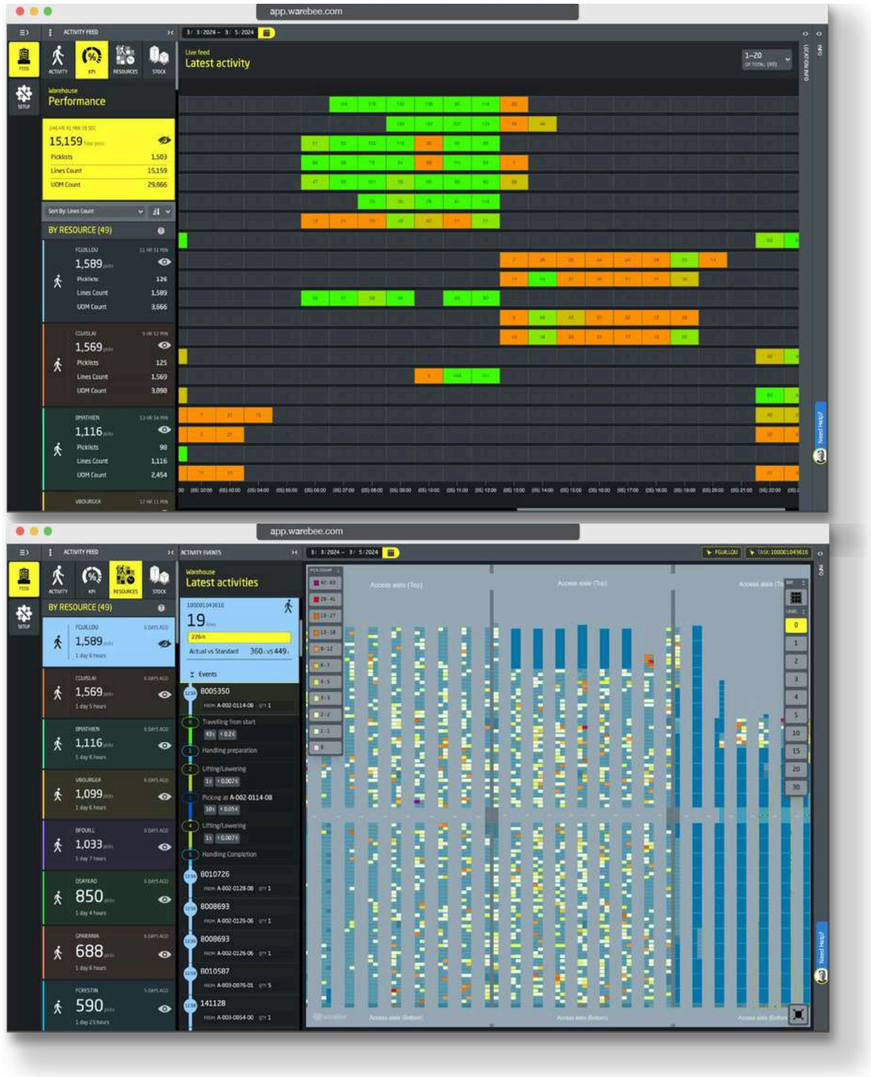


Visualise with Digitwin

What is the current resource productivity?
Accurately measure resource productivity in real-time (anonymised), identify bottlenecks and resource shortages

Where are the fast movers vs “dead stock”?
Visualise fast movers, congested locations and “dead stock” to save picker’s walking/driving distance

Is the warehouse compliant?
Get alerts on non-compliant activities



Plan with Digitwin

How many FTEs do I need for the next shift, day, week?
Assign the correct labour quantity per floors, zones or picking methods to start the shifts optimally (wave picking)

How the warehouse operational areas will be utilised?
Unloading area, aisles, loading area

Would we fulfill the orders on-time?
Simulate impact of changes in labour on service levels and throughput



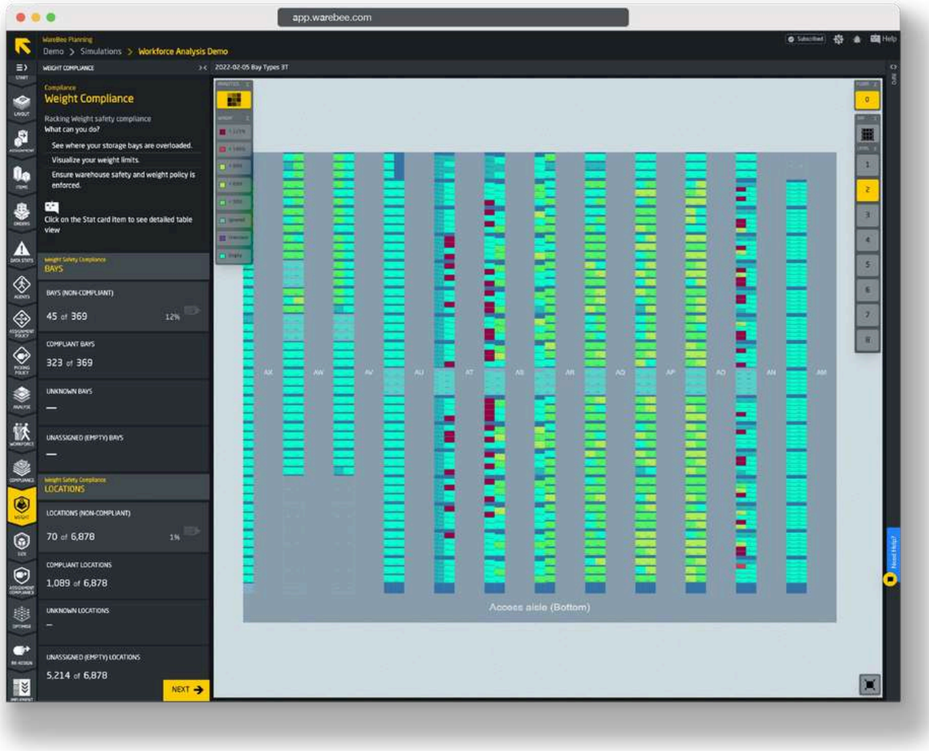
Audit with Digitwin

Are you storing dangerous goods according to the policy?
Maintain compliance storing dangerous goods correctly, COMAH, Allergens, and any custom policy

Are your bays weight compliant?
Eliminate rack collapse from overweight

Where are your oversized items?
Identify blocked locations by oversized pallets

Is your WMS setup implemented correctly?
Review your WMS setup and implementation

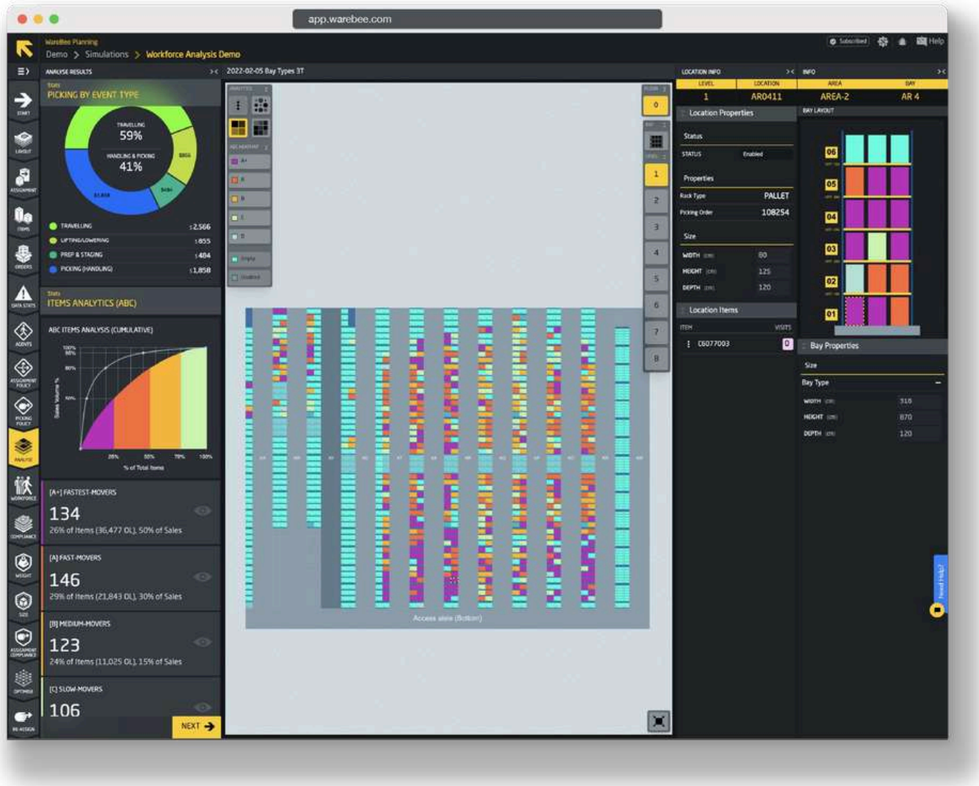


Analyse with Digitwin

What is my “Cost To Serve” per order?
Know your “Cost To Serve” per order

How do my picking methods impact cost?
Compare picking methods and its impact on productivity, resource utilisation and costs.
Activity Based Costing breakdowns and more

What is the ROI of investing in Digilo’s or other partners’ smart solutions?
Make data driven decisions about investments and process changes



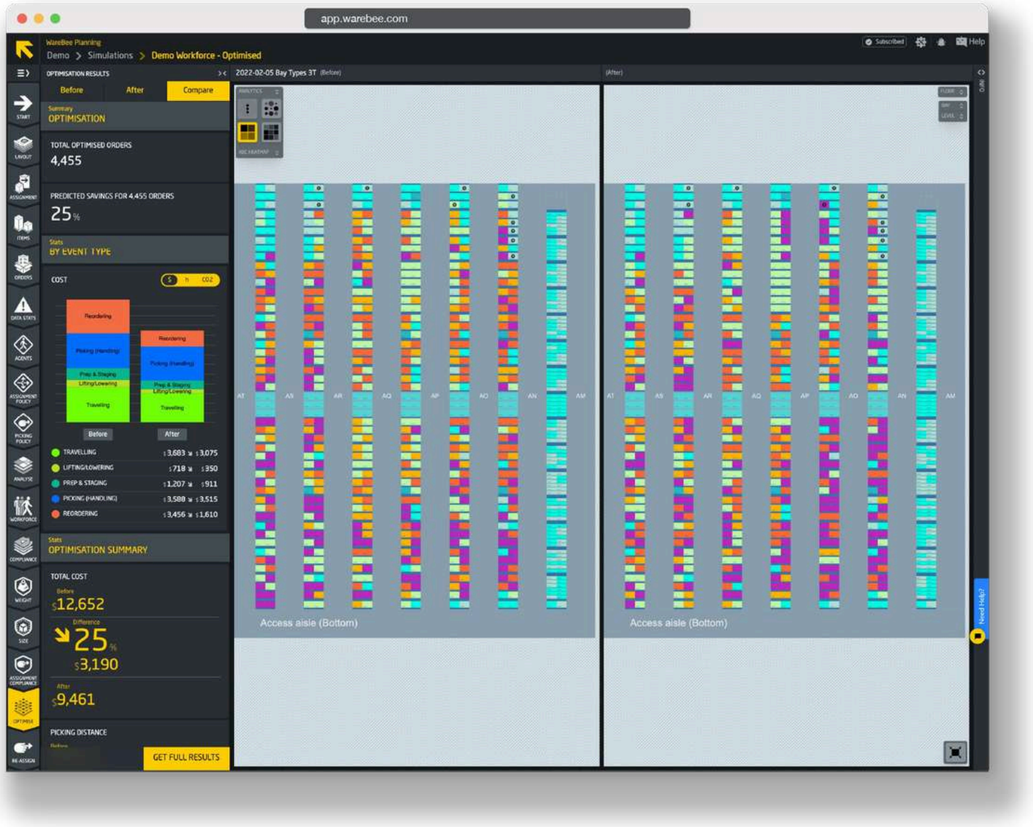
Optimise with Digitwin

What is the optimal picking location assignment?
Improve picking productivity by up to 20%

How to pick “Heavy to Fragile”?
Eliminate damage to stock and unstable pallets

Which items should I move first?
Maintain warehouse performance weekly (Warehouse Fitness)

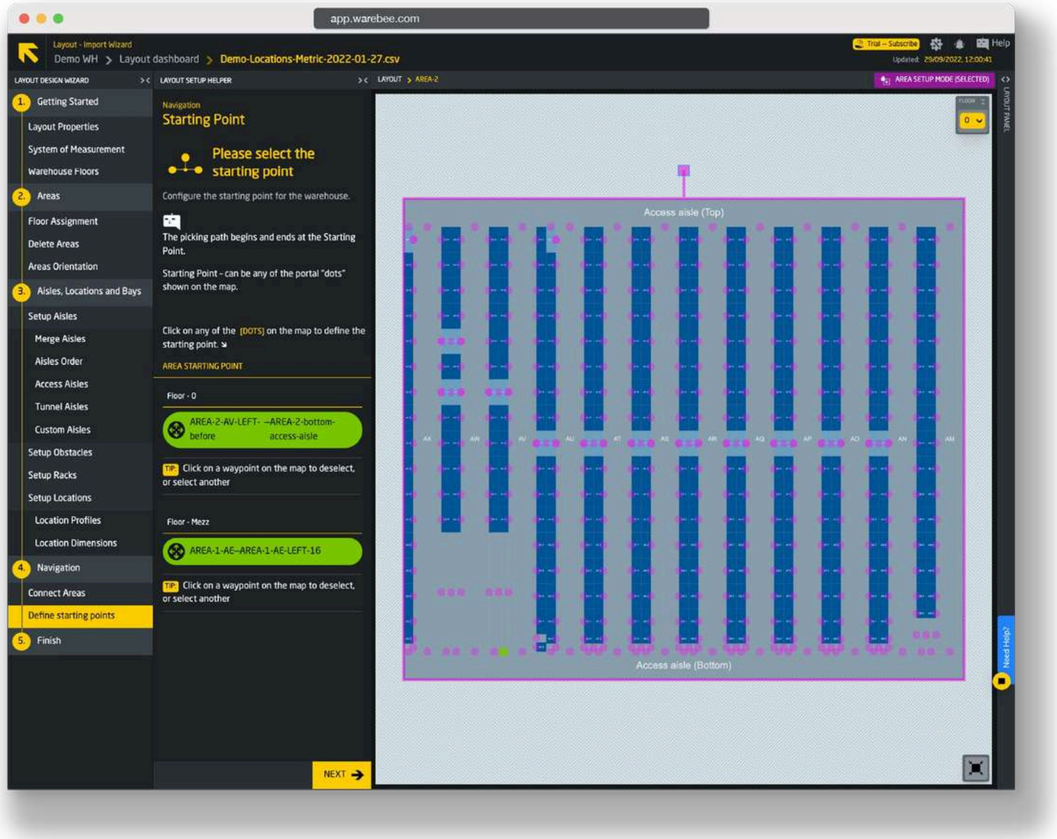
Considering doing “Shop Friendly”
Align the warehousing picking with the aisles in the retail stores for faster in-store replenishment



Simulate with Digitwin

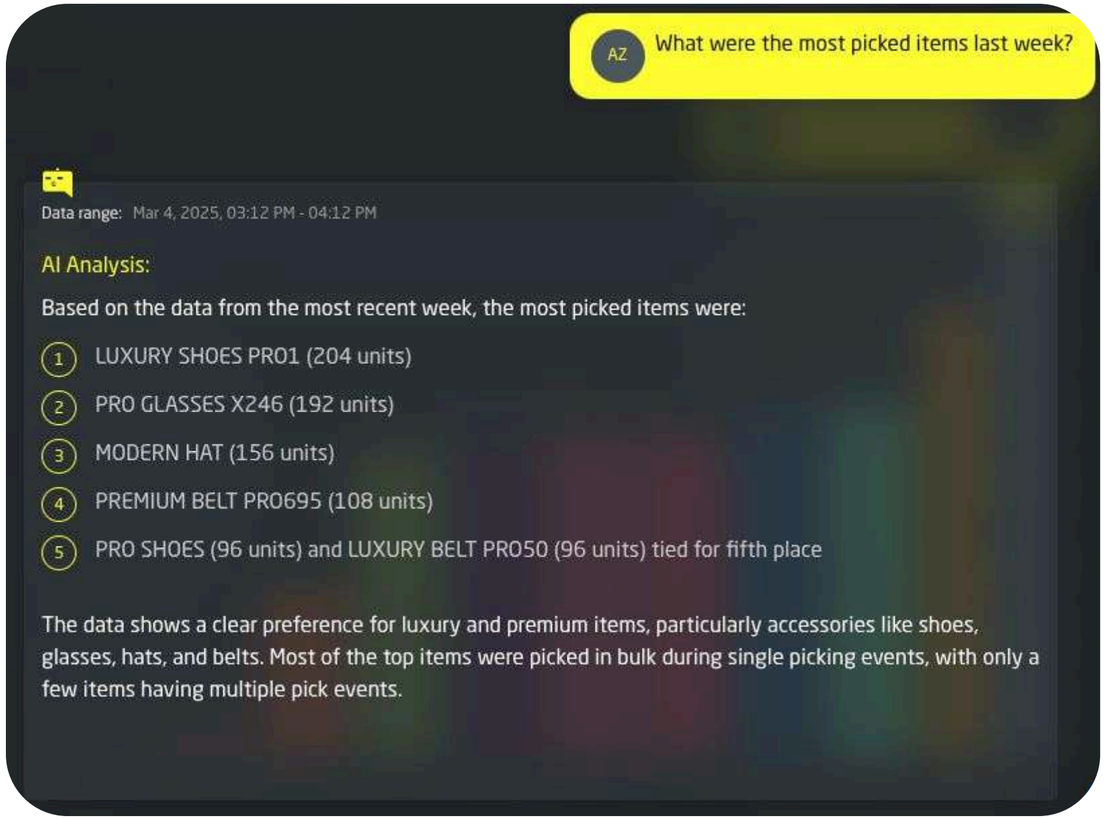
How to create warehouse layout in hours?
No need for location coordinates, just export the location data from WMS/ERP.
Our AI will guide you through all the steps

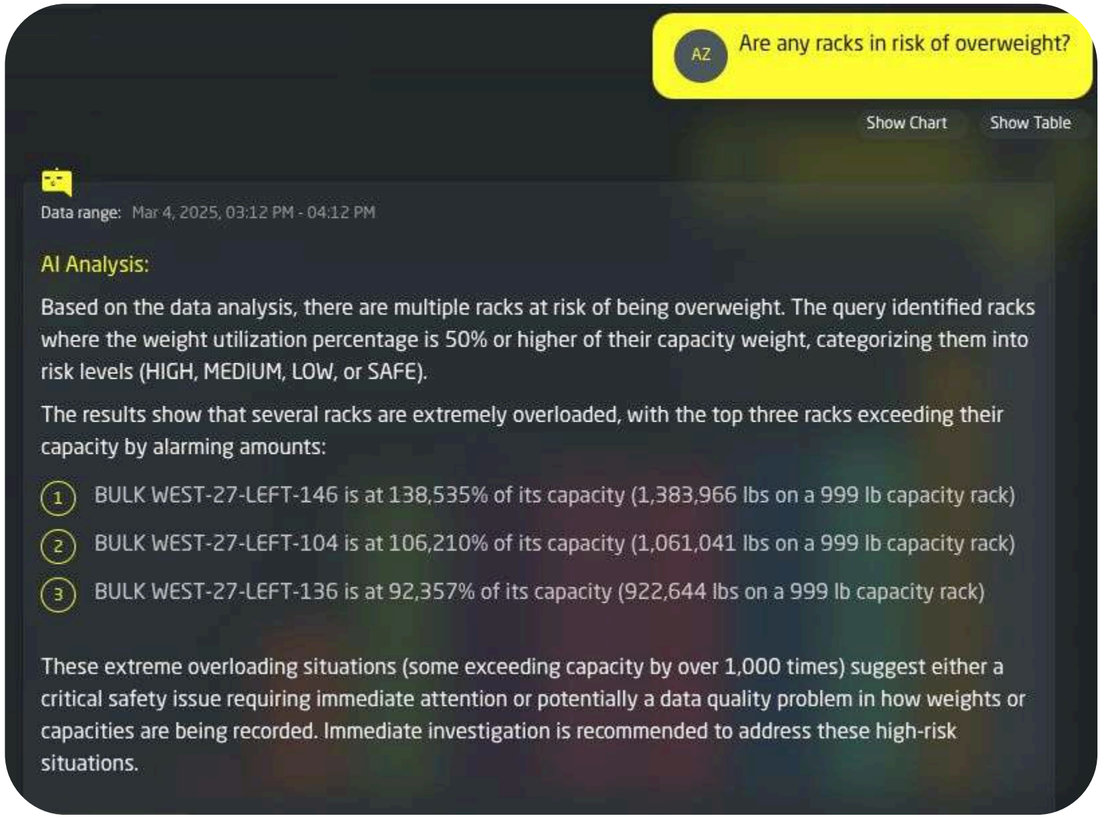
How to experiment with different Racking types, Aisle width, or new warehouse process?
The design tool will help you visually explore all the options



Digitwin - AI agent

Our digital twin comes with an AI agent. Use it to identify compliance issues, measure leading and lagging indicators, schedule resources and areas, plan labour capacity - and much more. Just ask.





Digitwin - features overview

Visualise & Plan

Get actionable insights. See your warehouse from multiple perspectives.

- **Layout Designer**
  Easily create your warehouse layout in minutes.
- **Allocate**
  Instantly see your stock and plan for new items, or better plan dynamic/chaotics storage zones.
- **Aisle and Bay Views**
  Analyse your aisles and bays in a visual way.
- **Picking route visualisation**
  See your pickers path through the aisles.
- **Location data issues**
  Quickly identify data issues, fix the WMS / ERP data.
- **Capacity, Occupancy and storage density analytics**
  Plan and Optimize for better storage density.
- **Heat Mapping**
  Visualise your warehouse in different perspectives.

Analyse & Forecast

Warehouse analytics to measure performance: cost to serve, CO2, space and resource utilisation.

- **Order picking cost**
  Understand your "cost to serve" on the order level.
- **CO2 Footprint**
  Report accurate CO2 footprint of every warehouse activity.
- **Velocity (ABC+) Analysis**
  See where your fast movers placed and the Dead Stock, Analyze velocity and more.
- **Congestion Analysis**
  Identify traffic bottlenecks on location and aisle levels.
- **Replenishment Analysis**
  Realise replenishment overhead on your operations.
- **Workforce and equipment utilisation**
  Compare labour and resources utilisation, Plan and forecast the next shift, Wave Picking and more.
- **Stackability**
  Find where your heavy items are crashing the fragile ones.

Audit

Audit warehouse compliance and map the risks to stock and operations.

- **Pallet racking weight limits**
  See if your storage bays are overloaded.
- **Your storage policies**
  Configure your own policies and validate that items are stored accordingly.
- **Dangerous Goods (HAZMAT/COMAH)**
  Store dangerous goods according to the regulations.
- **Fire Safety**
  Minimise fire risk by storing stock correctly, get alerts.
- **Fair Trade storage policies**
  Report Fair Trade compliance saving inspector's visit.
- **SLA and Labour**
  Forecast the picking capacity required to allocate labour resources optimally and fulfil the SLAs.
- **Weight, Size and Volume**
  Find where you store air, and safety issue.

Optimise & Simulate

Improve warehouse throughput and resource utilisation by re-slotting warehouse locations.

- **Optimal picking route**
  Shorten movement time to increase picking productivity.
- **Balance your labour, Minimal congestion**
  Balance workload by zone, floor, aisle, etc..
- **Optimal compliance**
  Maintain compliance while optimising performance.
- **Strategic Slotting**
  Seasonal Slotting optimisation features.
- **Tactical Dynamic Slotting (daily)**
  Run dynamic slotting to continuous improvement, limit number of moves.
- **"What-If" simulations**
  Estimate the impact of upgrading to smart solution?. Changing layout or demand volatility?
- **Lowest CO2 footprint**
  Optimise for reduced Carbon footprint.

See Digitwin in action



[WATCH VIDEO]

Digitwin - interface with WMS/ERP

Digitwin works **completely independently** from your WMS / ERP.

It only requires regular exports from your database (eg. once a day).

Importing the data can be done either manually or automatically. In case of an automation, several options (SFTP, API, Snowflake, etc.) are possible based on your IT preferences.



Digilo

DIGITIZE LOGISTICS

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