

See your warehouse. Then run it better.

We build a live digital twin of your warehouse from your WMS and our sensors, find where the time goes, test better ways to pick and store on your own orders, and put the winner to work on the floor.

IN THE PICTURE

-  Picks per rack bay, after slotting
-  Fast movers, near the depots
-  Slower movers, further back
-  One planned pick route

MODEL. DIAGNOSE. IMPROVE. MEASURE.



Model

We build the twin from your layout and WMS: locations, stock and orders. UWB tags show how people and forklifts really move.



Diagnose

Pick density, travel per line, congestion and empty forklift runs, from your own data.



Improve

We test routing, batching, slotting, scattered storage and peak plans on your real orders, before a box moves.



Measure

The winner runs in Logidot Operative. The same sensors measure the before and after.

WHY IT PAYS

Published research

Manual picker-to-parts warehouses

55%

of operating cost can be order picking¹

50%

of a picker's time is travel, by estimate¹

Our reference DC

Simulated on a reference DC²

28%

less walking per line from slotting

70%

less walking per line, 8 orders a trip

Combining the levers

Published: Schiffer et al. (2022)

30%

and more over standard practice

Storage, batching, routing and zoning decided together, in online retail warehouses.

¹ de Koster, Le-Duc and Roodbergen (2007), European Journal of Operational Research 182(2). ² Northgate, a modelled reference DC: see page 2. Schiffer, Boysen, Klein, Laporte and Pavone (2022), Management Science 68(10).

Pictures: Northgate, drawn in 3D from the study data.

WHAT WE OPTIMISE



Flows and inventory

Where every pick happens, how far each line walks, which stock is misplaced.

2 weeks of UWB capture shows real travel and dwell

Travel is about half of a picker's time in published estimates.¹

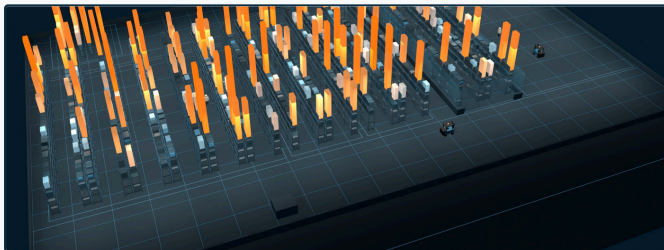


Slotting

Fast movers to the golden zone near the depots, in moves you can afford.

28% less walking per line than the as-is layout²

Published: ergonomic slotting cut cycle time by up to 21%.⁴



Before: the as-is layout. Busy bays spread over the floor.



Picking strategies

Discrete, batch, zone or wave, within your trolley or cage limits.

70% less walking per line, 8 orders a trip²

Published: batching heuristics 7.5% to 20% shorter tours than first come, first served.³



Scattered storage

Copies of fast movers in several aisles, tested on your orders first.

12% on a random floor, about 1% when well slotted²

Published: it pays for the small, varied orders of online retail.⁶



Routing

Routes on the real walking graph of your floor, re-planned live in Operative.

11% less walking per line than bin order²

Published: S-shape routes 7% to 33% longer than optimal.¹

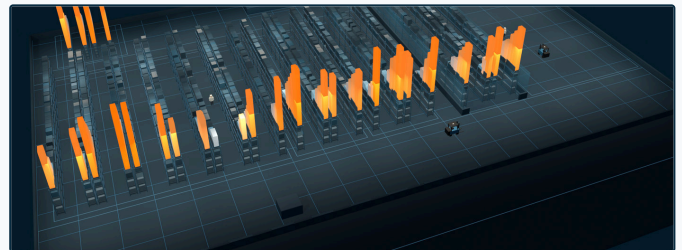


Seasonality and peaks

Peak changes what is fast. We plan the moves before it arrives.

80 moves won back a third of the peak's extra walking²

Published: robust re-slotting up to 9.6% better than greedy moves.⁵



After ABC slotting: busy bays at the depot end of each aisle.

Simulated on a reference DC

Bar height and colour: picks per rack bay over 1,200 orders.

HOW A STUDY RUNS



Connect

Your WMS, by export or our live connector, and your layout.



Capture

UWB tracking of your pickers and forklifts, for two weeks.



Test

Scenarios on your real orders, ranked by walking saved.



Roll out

The winner runs in Operative, measured by the same sensors.

Data we need: your layout or CAD drawing · the location master · 12 months of order lines and stock movements · item sizes and weights · permission to tag pickers and forklifts. Connectors: Oracle WMS Cloud, SAP, Odoo and the open API.

² Simulated on a reference DC: Northgate, a modelled distribution centre (100 x 62 m, 1,868 pick faces, 480 items, three depots), 1,200 orders on Logidot's production route planner. Results will differ on real sites.

¹ de Koster, Le-Duc and Roodbergen (2007), European Journal of Operational Research 182(2).

³ Henn, Koch and Wäscher (2012), in Warehousing in the Global Supply Chain, Springer.

⁴ Larco, de Koster, Roodbergen and Dul (2017), International Journal of Production Research 55(21).

⁵ Kofler, Beham, Wagner and Affenzeller (2015), Studies in Computational Intelligence 595.

⁶ Weidinger, Boysen and Schneider (2019), European Journal of Operational Research 274(2).

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