

WHEREHOWS

WHERE TO STORE, HOW TO HANDLE

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Creating value in warehouse



Approach



Material-handling, storage & orderpick systems



2

Warehouse planning / (re)-design



3

Multi-channel & e-commerce integration



4

Audits / Benchmarks / Performance management



5

Dashboards / KPI-reports / Supply chain analytics





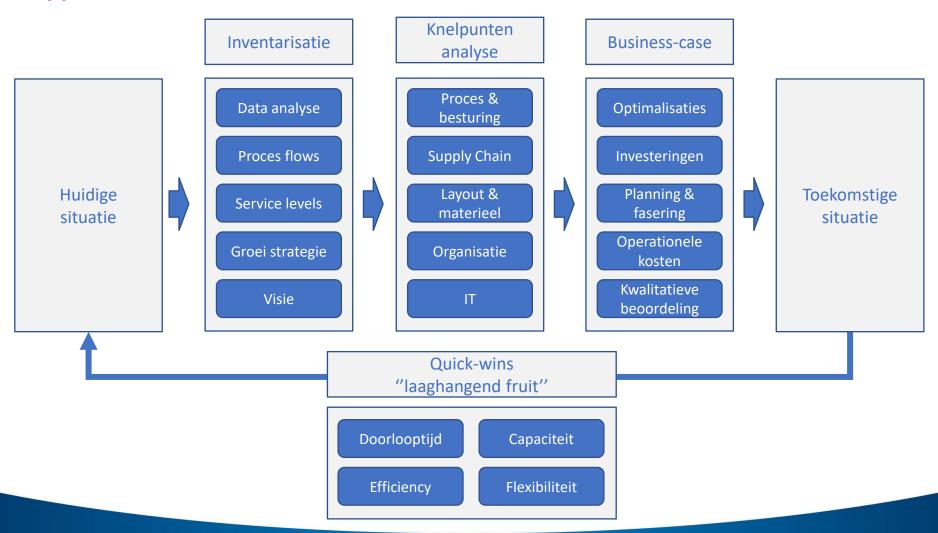
Feasibility study/second opinions warehouse automation



Project Scope

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Approach



Planning (re)design projects



Approach

Goals

A logistics concept which includes:

- Processflows and Material Flow Diagram
- Layout of the new building
- Applicable (material-handling) systems
- Visualization of logistics flows
- Required people and resources
- Investments and cost indications
- Processcontrols and required IT systems



Planning (re)design projects



Approach

Plan of action

The project consists of the following activities:

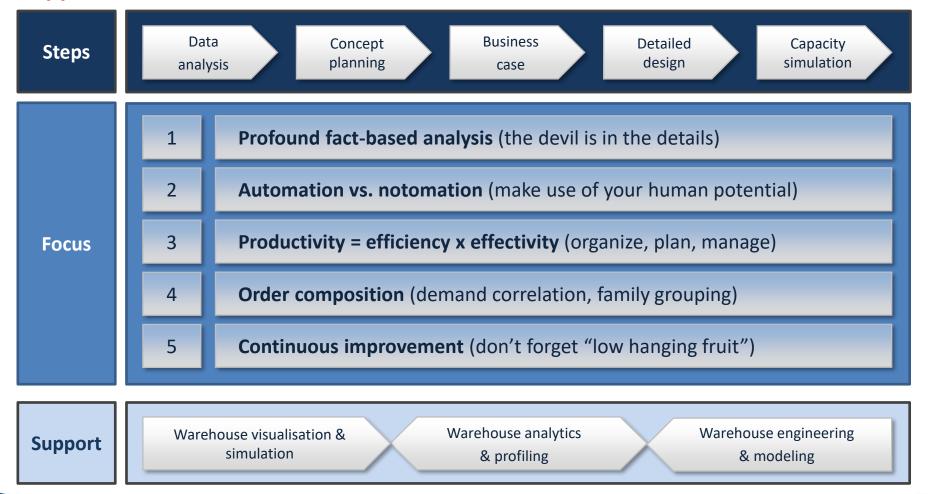
- Workshop about the current and future operation
- Analysis of historical data
- Elaboration of logistics processes and flow charts
- Design of a logistics concept with multiple scenarios
- Choice of preferred scenario based on quantitative and qualitative arguments
- Final presentation of the results



Combining data and practical know-how



Approach

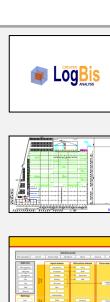


Using a complete professional toolbox



Approach

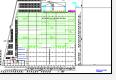




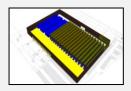




BI, Business analytics, Datamining

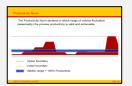






Warehouse Layout design (2d/3d)



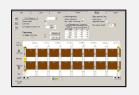




Resource & cost modeling



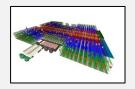




Racking, trucks, cranes, AGV configurators







Animation & simulation automated and conventional warehouses

Hyper Analyzer



Support: Warehouse analytics



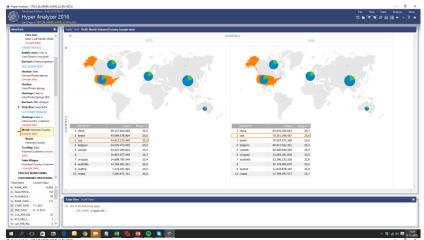
Warehouse Analytics

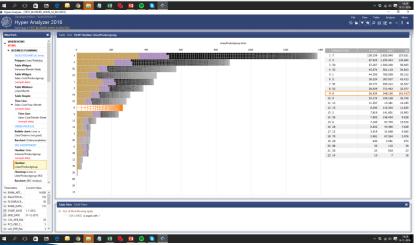
Order Composition / Item Activity / Demand Correlation / Process Relations / Sales Forecast / Seasonality Distribution / Stock Variability

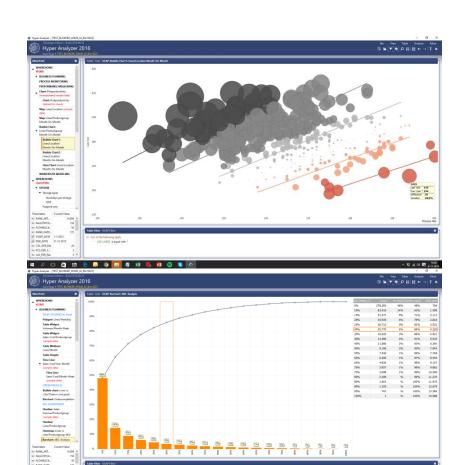
Advanced graphs, (heat)maps etc



Support: Warehouse analytics







Mapping warehouse layouts

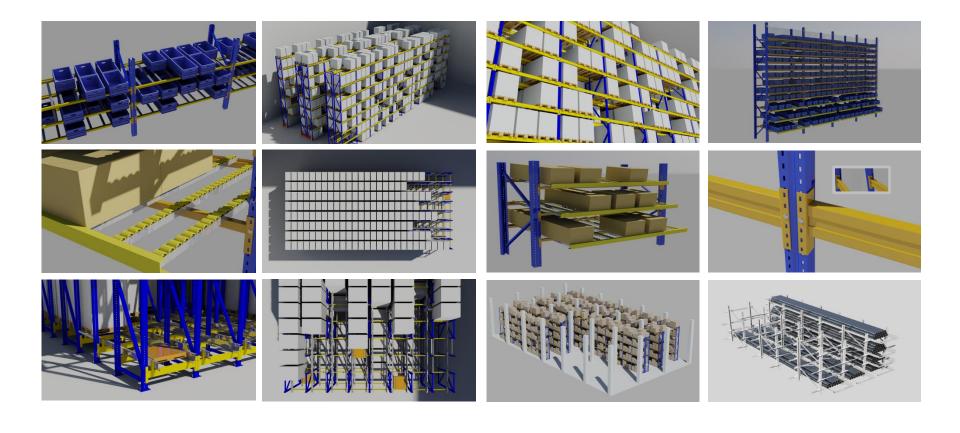


Support: Warehouse analytics



3D library

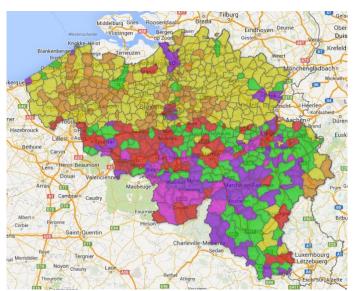




Geocoding and mapping



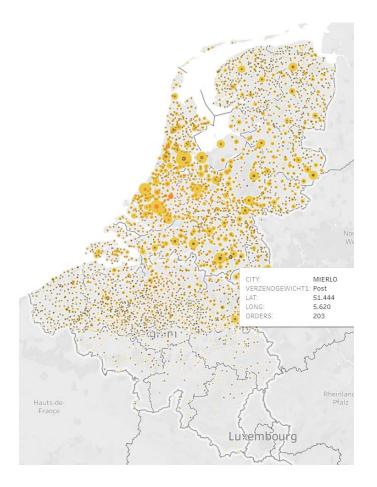


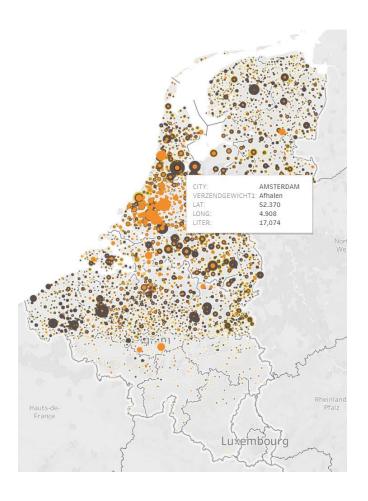




Geocoding and mapping

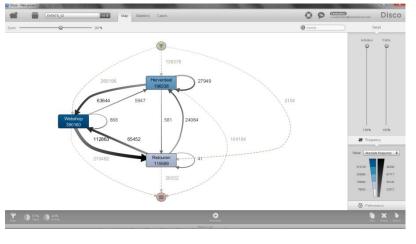


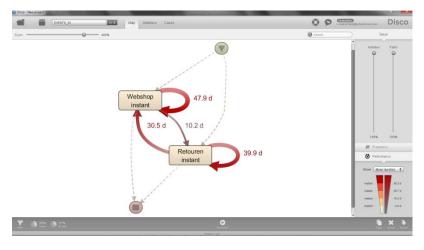


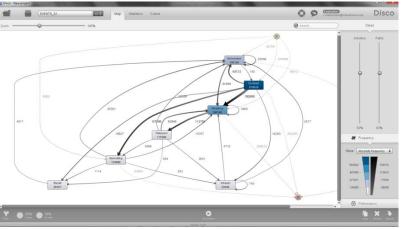


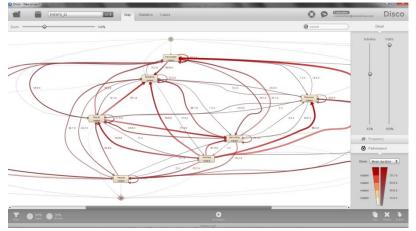
Process mining

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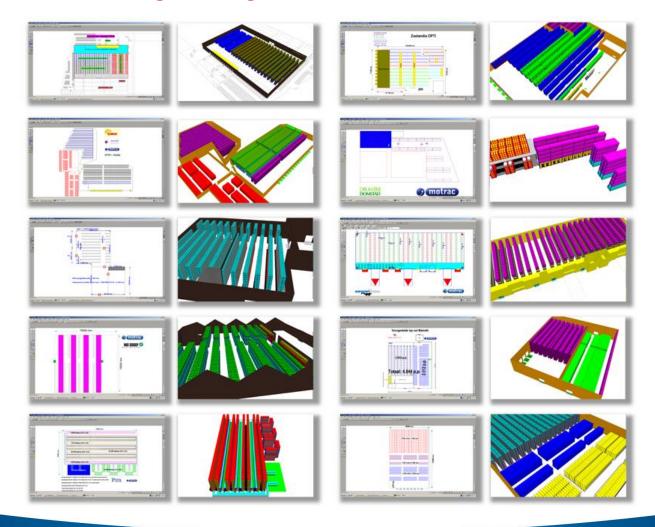




Layout planning

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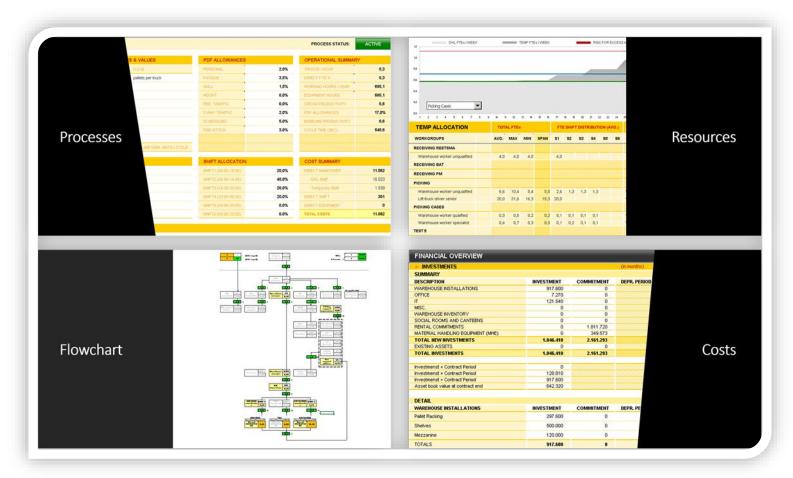
Support: Warehouse engineering







Support: Warehouse engineering



Material Flow Diagram

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Support: Warehouse engineering

