



Dwars denken loont

ADAPTO for e-commerce

24-04-2014 Material Handling Forum

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Market Trends

- Increased Supply Chain agility
- Reduced order size (e-commerce)
- Reduced order leadtime (e-commerce)

Impact on DC design and deployment

- Fast system deployment required
- Design based on growth forecast?
- Duration of beneficial use?
- How to safeguard investment against uncertainty?







Start now, adapt later!

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Scalability



Availability



Cost-efficiency



Maintainability



Sustainability

> ADAPTO customer benefits





Scalability

Storage capacity

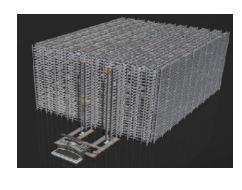
Extend racking as and when required

Throughput

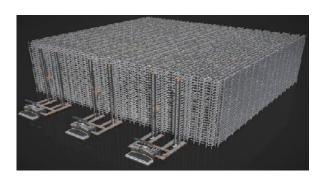
- Workstations
- Shuttles
- Lifts

Layout flexibility

• Modular components fit in any building shape







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Availability

System availability

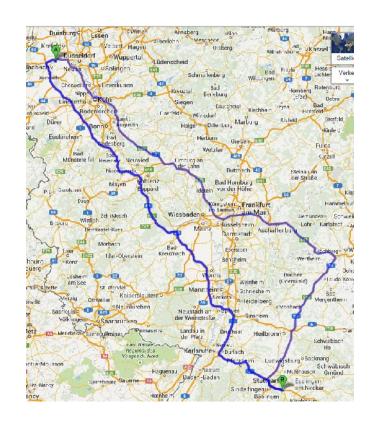
- Every product accessible by every shuttle
- Multiple routes leading to each product

Product availability

- Product availability always ensured
- Products are within manual reach

Fast troubleshooting

Service zones and maintenance platforms







Cost-efficiency

Investment

- Fast deployment
- Designed for changing business drivers
- Start now, adapt later!

Building cost

- Upto 20% smaller footprint
- Optimised storage density

Operational cost

- 50% lower maintenance cost
- Lowest energy cost per double cycle

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Maintainability

Off-line maintenance

- Ergonomic maintenance workstation
- Repair and planned maintenance without disturbing operations
- Adding /removing shuttles to/from running system



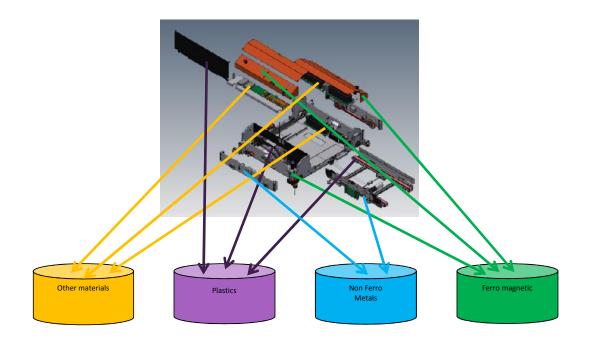
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Sustainability

- Minimal energy consumption
 - Low moving mass
- Material recycling
 - Designed for sustainability
 - High level of reuse/recycling
- Shuttle refurbishment
 - Extend shuttle lifetime
 - Deply shuttles across multiple systems



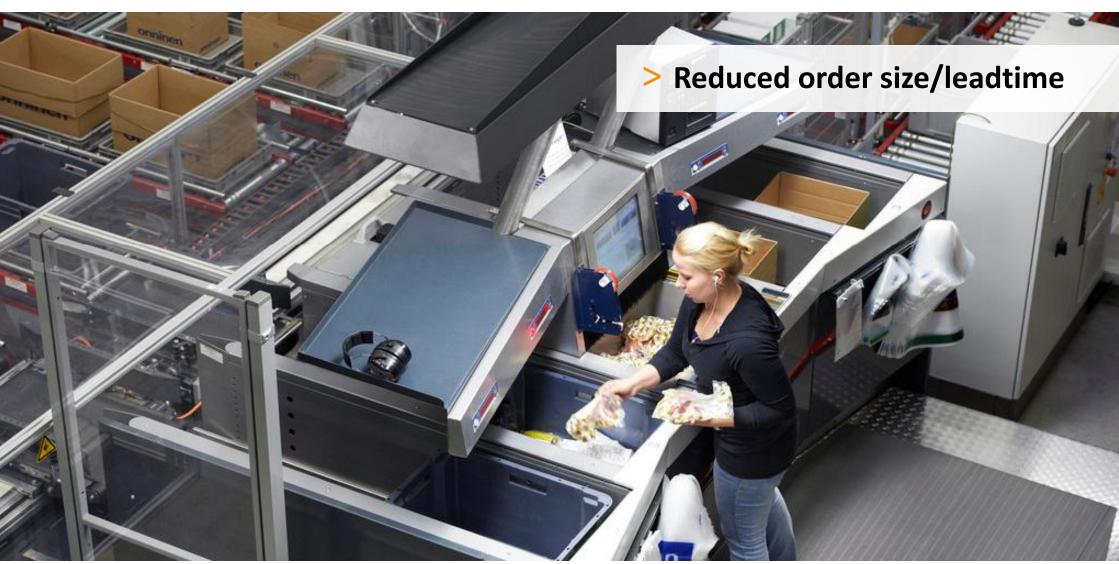
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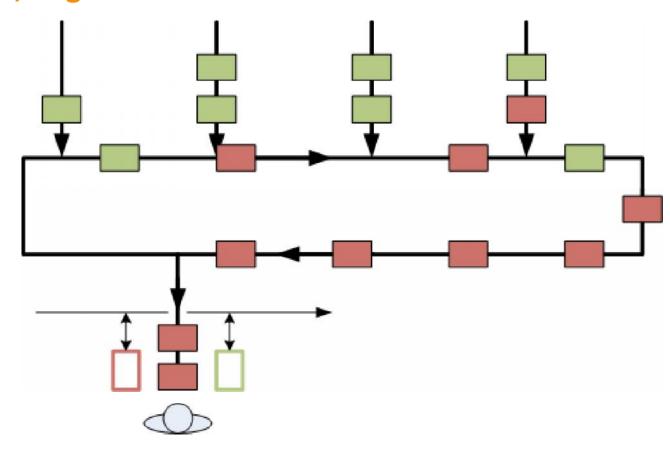








Goods-to-man, large orders

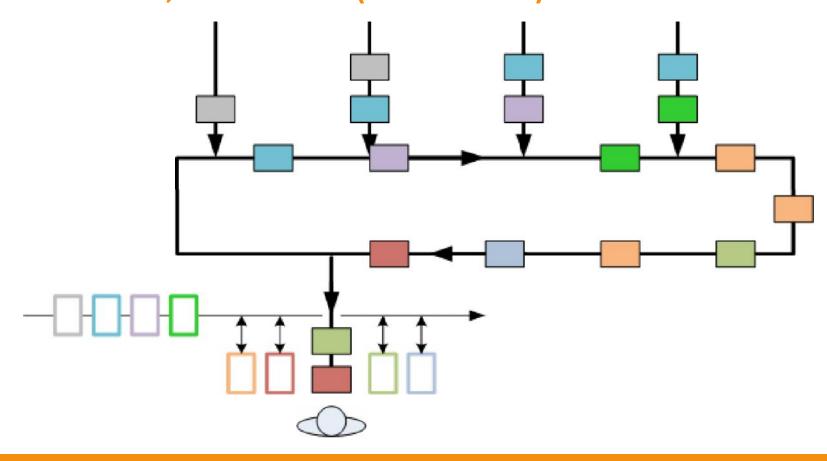


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Goods-to-man, small orders (e-commerce)



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Aisle bound systems, sequencing

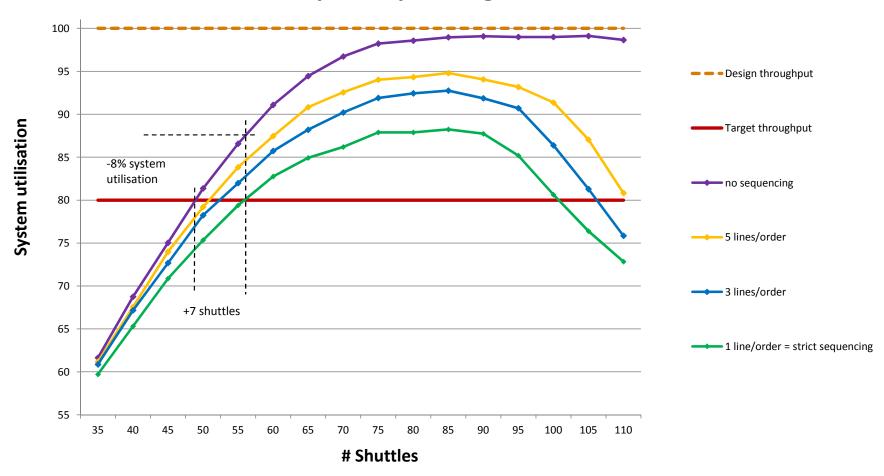


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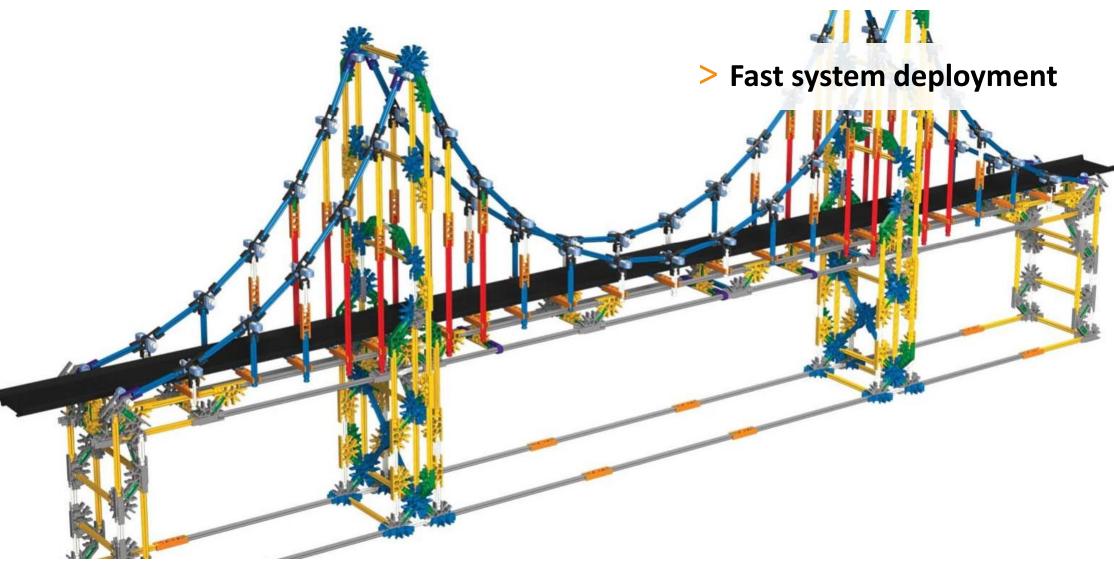
Adapto Sequencing



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VANDERLANDE