



Royal Netherlands Army



Materieellogistiek
Commando
maakt missies mogelijk



DiManEx

Change Management the Biggest Challenge in Transition to Digital Warehousing

Royal Netherlands Army

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MALI 2014





Status

- Roadmap AM
- Operational 3D printing
- Strategic perspective
- Implementing existing organization



Change Management, Biggest Challenge in Transition to Digital Warehousing



The Change Management - and Value Chain Challenge

Current formula brought



Complexity



Inefficiency



Risk



Unpredictability

Rethink Your Traditional Approach



Supply Chain
Optimization

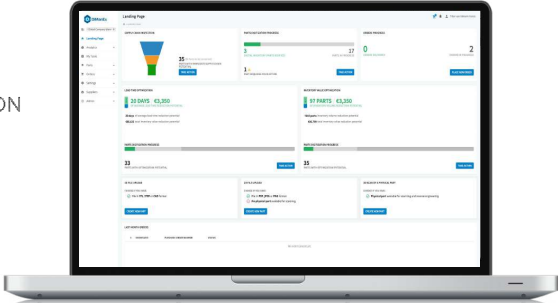
Eliminating
Waste



Building Resilient
Supply Chains

Mitigating Risk

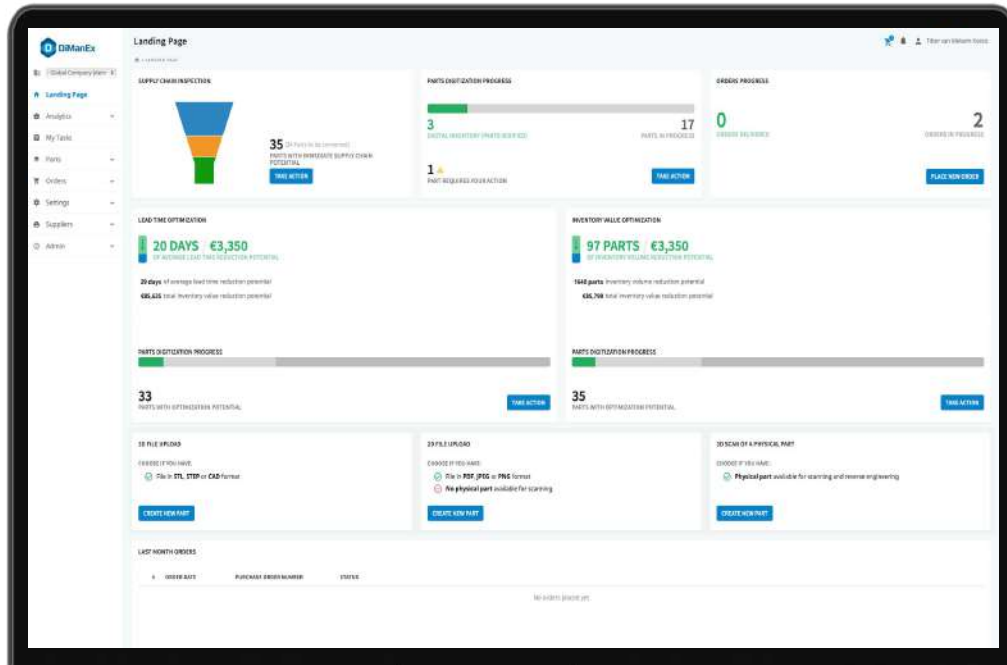
Analyze, Digitize and Deliver in **ONE** Platform ...



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Digital Warehouse



Actionable Supply Chain Insights



Automated Workflow

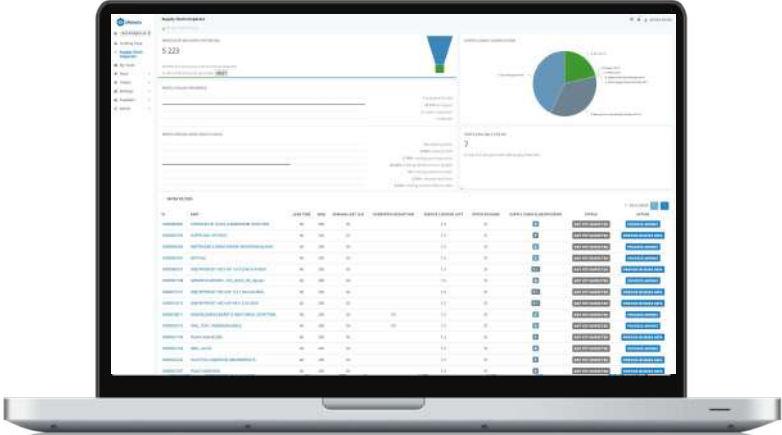


On Demand 3D Manufacturing



Scalable End2End Fulfillment

Cooperation Demonstrated Immediate Value and Potential



+

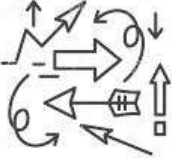
Key Benefits and Immediate Value



Increasing
Up-Time



Reduction
Working Capital



Fix
Unpredictability



Shorter
Lead Time



No
Minimum Order Quantity



Elimination
Waste

The Change Management - and Value Chain Challenge

- What are the Change Management - and Value Chain Challenges?
- How do we Capture the Value of the Opportunity?



Unless You Move the Lamp Post, You will not Capture the Value of the Digital Warehouse

- Business Objectives and Individual Targets don't sync up
- Latency in Supply Chain is "solved" by stocking up warehouses (60-80% not moving)
- AM is seen as a Technology rather than an integrated approach to Supply Chain
- Supply Chains of OEMs contribute to the Challenge



Key Learnings in Cooperation

CHANGE MANAGEMENT

Successful: **i)** support and Sponsoring from senior management, **ii)** clear roadmap, **iii)** focus on process, **iv)** well defined deliverables, **v)** involvement of key stakeholders

- **Down Select.** Data driven assessment of 1000's of parts shows the *Value of AM* in the **Supply Chain**, driver for a **proactive approach**
 -
- **End-to-End workflow.** Success factor, platform connects the dots every step of the way from **part assessment to part delivery** (*point of need manufacturing*).

- **Digital Inventory.** Securing Availability and Mitigating Risk of Supply. Additional benefit to MoD; accessible **at Army Base, during Mission** and supported by **the Industry**.

VALUE CHAIN

- Exploring collaboration models with suppliers / OEMs





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DiManEx

Supply any part anywhere

Move the Lamp Post and Capture the Value of Your Digital Warehouse



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Additional Information Available

Click on the Images to Download the Document

3D printing at Ministry of Defence

From weapon holders to complete systems
Within less than 20 years, it's possible to create advanced, customised, 3D printed parts from any material. At Ministry of Defence, this helps to increase delivery times and increase deployability. The AM Centre coordinates the 3D printing in the UK and you will find the way to go.

What is AM?
AM stands for Additive Manufacturing, meaning the built up process of layer by layer printing & the best material for the job.

Phase 1: Collecting knowledge
0-2 Yr.

Small, building up the amount of digital content needed to create an object.

Handover with customers

Establish AM Centre from the beginning. The AM Centre serves the various parts of defence and defence industry throughout.

Building products and infrastructure

Phase 2: Applying 3D printing
2-5 Yr.

Can which requirements need to be met? Compatible to current large equipment and assembly different parts.

Centralised database with design

Build Change Data

Working together with the industry

AM Centre coordination
The AM Centre coordinates the various knowledge and resources from all 3D printers.

Phase 2: Everyone at Ministry of Defence prints
5+ Yr.

As possible to use 3D printing wherever you are in the field. The network of 3D printers is used to create different parts.

Centralised procurement

Supplying of materials

Collaboration

The AM Centre leads the AM Centre across the UK according to needs by Ministry of Defence and other defence organisations.

Ministry of Defence



Koninklijke Landmacht

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