Supply Chain Management and Cognitive Computing

Colonel Holger Draber

Bundeswehr Logistics Centre

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BwLogCtr bears the **responsibility** for the **logistic support** of the Bundeswehr in **Operations**, during **Exercises** and during **Routine Duty**.
"BwLogCtr in a nutshell"

**Structure**

- **Commanding Officer**
- **Depot Cmd**
- **Staff**
- **Chief Logistics Operations**
- **Medical/Pharmacy**
- **Supply Chain Management**
- **Materiel Management**
- **Maintenance Repair & Overhaul**
- **Movement & Transportation**

**Performance indicators**

- **2,0 Mio** Materiel disposions
- **1,0 Mio** Deliveries of shipments
- **150.000** Transports, intermodal
- **3,0 Mio.** Maintenance hours
- **44,5 Mio. €** Regional maintenance orders

**More than 80 locations in DEU/NLD/LUX**

**~ 8000 Personnel**
Understanding of SCM

**Commercial Supply Chain**

Focus: EFFICIENCY

- profit maximization/cost minimization
- customer satisfaction
- opt. degree of capacity utilization
- „just in time“ - unidirectional

**Defence Supply Chain**

Focus: EFFECTIVENESS

- security of supply/operational readiness
- responsiveness/adaptability
- log. demands on short notice
- bi-directional
- desired military effect
- reserves, redundancies
Managing the global Defence Support Chain

Requirements
- Resilience
- Robustness
- Transparency
- Flexibility
- Proactiveness

Focus on:
- Customers
- Workflow
- Process
- Aim
- Network
- Partners
- Management

Specification

Supply Chain Security / Safety

Military:
- Enemy Action
- Cyber Attacks
- Sabotage
- LOC Safety
- Hybrid Warfare
- Political Implications

Commercial:
- Obsolescences
- Supplier Base
- Economic Crisis
- Strikes
- Mergers & Acquisition

Risk

Environmental:
- Environmental Pollution
- Climate
- Weather

Risk

Focus on:
- Customers
- Workflow
- Process
- Aim
- Network
- Partners
- Management

Supply Chain Security / Safety

Management

•顾客
•工作流程
•过程
•目标
•网络
•合作伙伴
•管理

风险

环境

- 环境污染
- 气候
- 天气

风险管理

要求

- 韧性
- 坚固
- 透明度
- 灵活性
- 主动性

需求

- 客户
- 工作流程
- 过程
- 目标
- 网络
- 合作伙伴
- 管理
Future developments

- 3D PRINTING
- ROBOTICS
- BIG DATA
- Cyber threat

WHAT WE KNOW...

THE REST...
Digitization in Logistics

- efficiency in routine duty
- agile logistics
- quick in reaction & robust in mission
- digital Supply Chain Management
- digitization of inventories & distribution
- Cyber Security
- digitization maintenance

Cognitive Computing?
Disruptive methods and cognitive IT-innovations for Bundeswehr logistics

Content Analytics

Predictive Maintenance

Cognitive Computing

Social Media Analytics

Supply Chain Risk Management

- structured / unstructured data analysis (maintenance process)
- spare parts forecast for selected vehicles
- analysis of field reports
- analysis of manuals and service regulation
- usage of social media analytics results (e.g. SCM, war gaming...)
- ...

Working Groups

Supply Chain Risk Management

Predictive Maintenance

IBM Watson
Questions ?