IT Trends in Supply Chain

GPCA Supply Chain Forum, Bahrain

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Member of C1 Group

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Agenda

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- **Introduction, role of inconso**
- **Trends in Supply Chain – demands on IT systems**
- **Future proof IT systems in the Supply Chain**

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Excellence in Supply Chain Execution

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We optimize Supply Chain processes with tailor-made IT solutions

Consulting

- Process optimization
- IT consultancy

Software

- inconso products
- SAP solutions
- Individual solutions

Integration

- Test / implementation
- Change management
- EAI + technical integration

Support

- Lifetime partnership
- Support/hotline 24 x 7

for leading companies in manufacturing, retail and logistics services!

IT Solutions driving Supply Chain Execution

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	inconso Best of Breed	Integrated Approach with SAP
Transport Logistics	**Transport Management with inconsoTMS** Route Planning Tour Optimization Freight Cost Management	**SAP TM / SAP ERP TRA** Transport Management Integration of Optimization Engines Solutions for LSP
Intra - Logistics	**Warehouse Management** with inconsoLMS Yard Management Material Handling Integration of Warehouse Automation	**SAP EWM** **SAP LES / TRM** Yard Management and Site Optimization with SAP Partner Solutions of inconso

Customers who rely on inconso (excerpt)

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DAIMLER
MAGNA
TASNEE التصنيع
BLG LOGISTICS
PORSCHE
Audi
INA
SABIC Innovative Plastics™
سابك sabic
KUEHNE+NAGEL
Hengst FILTER
DHL
Emhart Teknologies
DEUTZ
STADA Arzneimittel
LOGWIN
Bayer
MERCK
ALTANA
EUROGATE
FIEGE The World of Logistics
SCHWARZ PHARMA Health is our passion!
Boehringer Ingelheim
AstraZeneca life inspiring ideas
ALFRED TALKE Logistic Services
DB SCHENKER

What makes us different:

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Partnership

We focus on long-term partnership and cooperation with our customers to establish the base for successful business.

Quality

Quality solutions and professional project completion are our top priorities. inconso is ISO 9001 certified.

Commitment

Over 360 highly motivated, fully committed IT and supply chain experts bring success to our projects.

Innovation

We understand modern technology and invest continually in the development of our products and employee training.

Success

With inconso solutions we help our clients being more successful. The success of our clients makes us successful: Profitable growth since inconso started.

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Supply Chain and Value Generation

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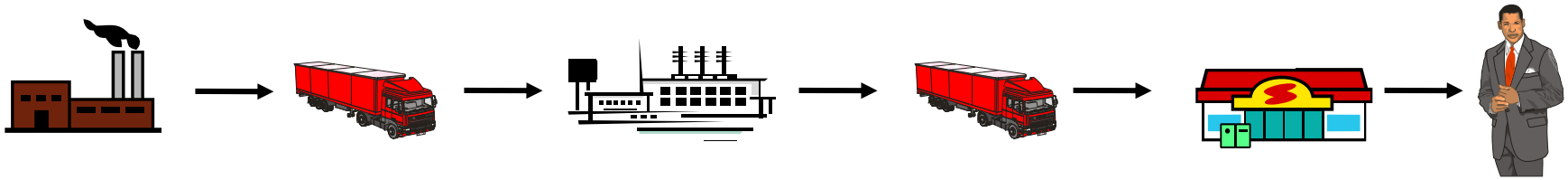

Supplier **Purchasing** **Manufacturing** **Distribution** **Retailer** **Customer**

Supply Networks in an Economy of Globalisation

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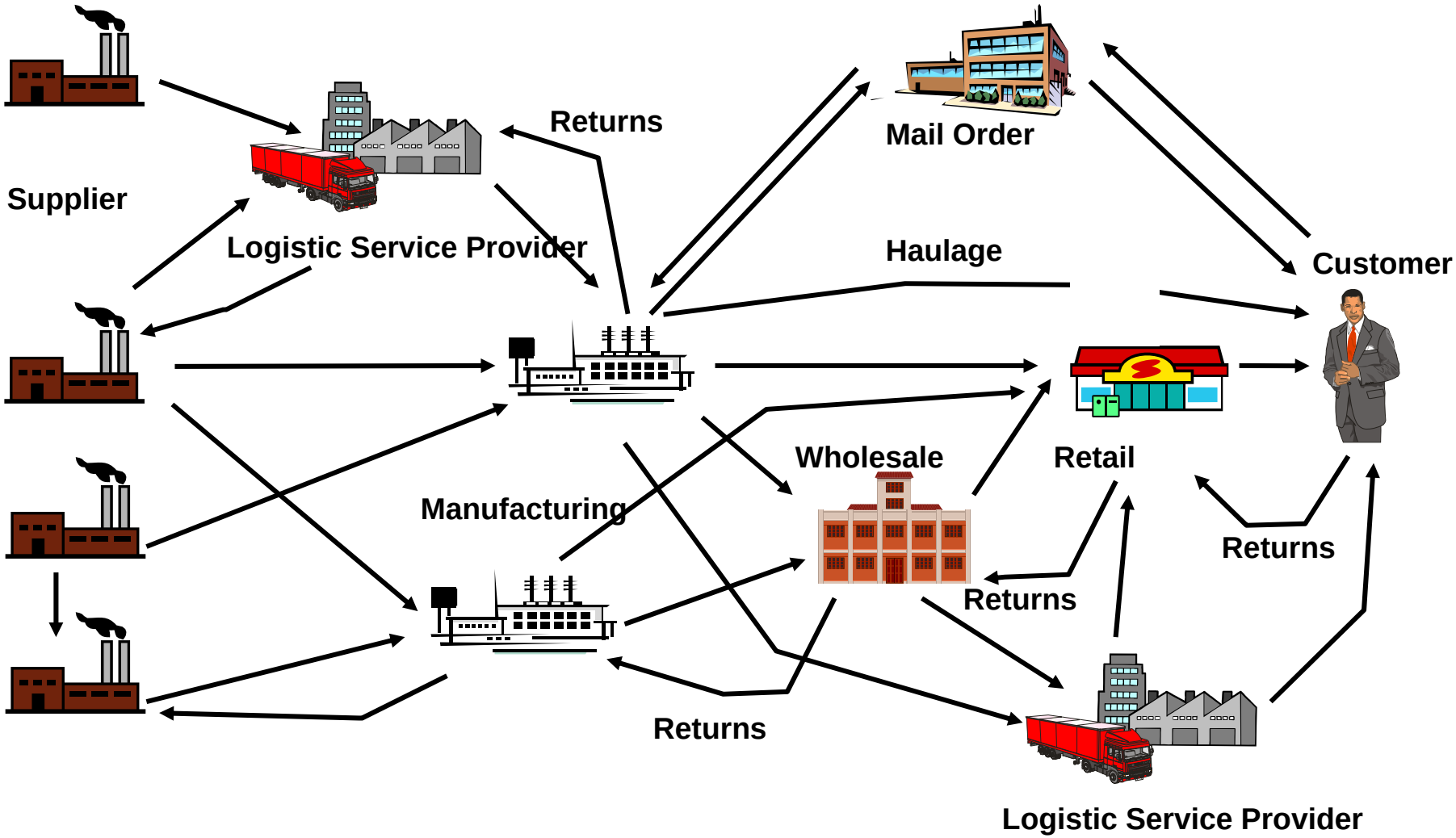

Supply Networks

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Major Challenges

- In most industry segments value generating chains are getting longer and more complex (more participants, crossing borders)
- Individual links can be replaced and are being replaced more often – increase in volatility (fragile Supply Chains)
- The interaction and business process integration increases
- Increase of delivery frequency with decrease in volume
- Tracebility, compliance and environmental concerns
- Continuous reduction of logistics costs

IT Systems for Supply Networks

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Key Requirements

- Flexibility
  - Swift response to changing requirements
  - Fast implementation of new processes
- Connectivity
  - Connection to partners (suppliers, service providers, clients)
  - Integration of external software packages
- Transparency and provision of information
  - Internally and externally (real time information, KPI etc.)
- Reliability
- Process and cost efficiency

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IT Systems for Supply Networks

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Status:

Lemma:

- **Dissatisfaction with today's IT systems for Supply Chain does not arise from lack of functionalities**
- **It arises from lack of integration**

- **Savings and potential for synergy can be achieved by IT solutions which:**
  - **Allow for seamless up- and downstream process integration**
  - **Generate a holistic view across the complete chain**

- **The degree of integration determines the efficiency of the individual process steps**

The Hubs and Spokes:

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Integrated View

- Intra Logistics and Transport Logistics are no separated domains any more
  - Intra Logistics has to provide data to allow for route planning and transport optimisation
  - Outbound processes in warehouses have to utilize data from Load and Route Planning
  - Workforce Management in warehouses with reliable data from Hauliers
- “Closing the Gap” by integrating hubs and spokes and by providing solutions for gap functionalities like Yard Management, which have been widely neglected in the past

Future proveness of Supply Chain IT Systems?

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IT-System

- Usage of standard software
- Connectivity and transparency
- Integration of bespoke solution segments
- Service Orientated Architecture

Provision of Solutions

- At competitive prices
- With short implementation times

Service Orientated Architecture (SOA)

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- **What does SOA stand for?**
  - **Composition of existing services to new services**
  - **Mapping of new business processes through combination of existing services**
  - **Distributed systems**

- **How does that work from a technical point of view?**
  - **Functionalities are defined in a descriptive language and can be accessed in a standardized way**
  - **Web services are provided with business content (Enterprise Services)**

Goal of Service Orientated Architectures

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- **Creating of IT landscapes which allow for cooperation of standardized components and which avoid monolithic structures**
- **Design of complex service orientated business applications**
- **Unison of business targets and information technology**

Summary

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- **Changing Supply Chain business requirements have changed demands on IT systems dramatically**
- **Collaboration and connectivity is key**
- **Service Orientated Architecture is a means to enable Adaptive Supply Networks**