

LOGISTICS, PRODUCTION & RETAIL (LPR)

MASTER ORIENTATION DAY

STEFFEN HÖHENBERGER

PURPOSE OF DOMAIN TRACKS

OVERVIEW



Method Tracks Objectives

- In a total of 5 tracks, you study relevant methods which are applicable to a wide range of application fields (**method tracks**)
 - For instance, process modeling techniques (PM track) are relevant for almost all industries, as processes are essential business corner stones
 - The same e.g. applies to mathematical (BI) or software development skills (ISD) which are used to develop solutions for multiple functions or industries

Domain Tracks Objective

Domain tracks allow you to gain knowledge on the application of methods (e.g. studied in other tracks) in a **specific application field of IS**

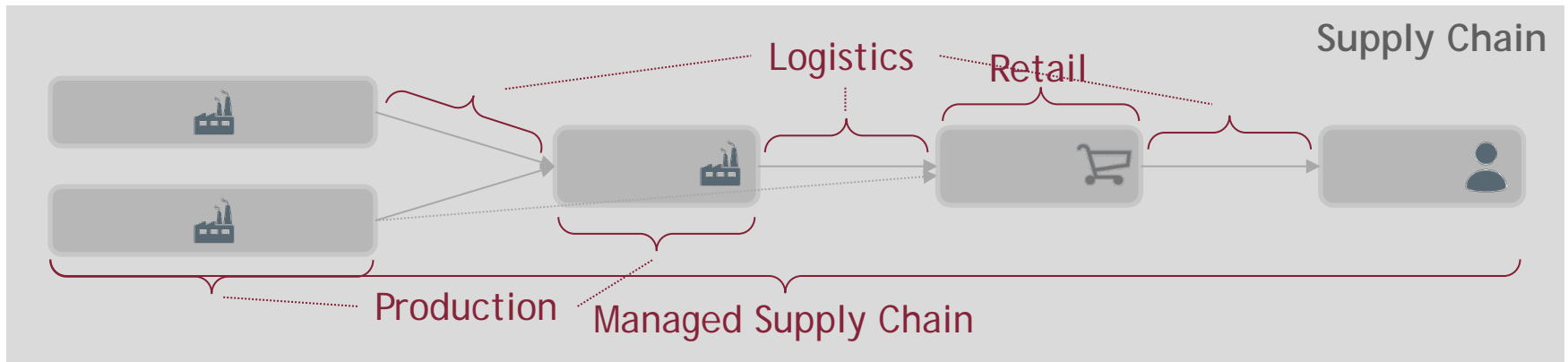
- Application fields of IS are, for instance, specific business functions or industries seen in real-life organizations
- Currently, the IS Master Program offers you the chance to explore the domain “Logistics, Production and Retail” in a corresponding track

LOGISTICS, PRODUCTION AND RETAIL


TRACK OVERVIEW



Motivation




Building Blocks (Lectures)



PPC
Production Planning & Control



SCM
Supply Chain Management



Ret
Retail



Logistics, Production & Retail

Production Planning and Control

PRODUCTION PLANNING AND CONTROL

OVERVIEW



Basic Data

Learn about the management and controlling of manufacturing processes, central documents and data structures as well as useful tools and techniques.



Winter Term



Lecture & Tutorials



100% Exam

Motivation

- Accurate production planning and control is necessary to achieve higher levels of productivity for:
 - Creating higher quality products
 - Delivering better customer value and service
 - Achieving shorter delivery times
 - Reducing labor and material costs
- Current challenges are the energy transition (establishing a “greener” production) and the smart factory (usage of sensors for smart products and smart services)

PRODUCTION PLANNING AND CONTROL

CONTENT

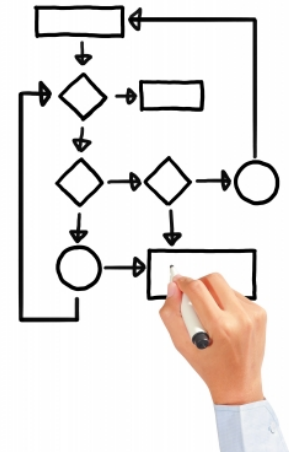


Building Blocks (the course will ...)



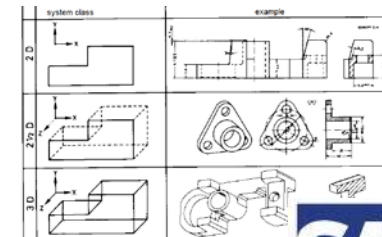
Present...

- theoretical knowledge on production planning and control
- an overview of concepts and methods linked to typical problem statements in the manufacturing industry



Convey...

- practical application of production planning and control techniques
- skills on IT tools that support PPC tasks





Logistics, Production & Retail

Supply Chain Management and Logistics

SUPPLY CHAIN MANAGEMENT & LOGISTICS



OVERVIEW

Basic Data

The SCM course elaborates on networks of companies, focusing on the coordination and optimization of the flows of material, information and finances between them.



Winter Term



Lecture, Tutorials & 2 Case Studies



60% Exam; 40% Cases

Motivation

- Products and services are nowadays created by a **network of organizations**
 - Companies **cooperate** for specific products and market segments
 - The same companies **compete** in others
 - **Individualized products and services** are a major competitive advantage
- Competitiveness of supply chains can be improved twofold:
 - **Closer coupling** of involved companies and **improved coordination** of flows
- To achieve this, companies must
 - **overcome organizational barriers, adjust their individual strategies, and accelerate decision making through the use of information systems**

SUPPLY CHAIN MANAGEMENT & LOGISTICS

CONTENT

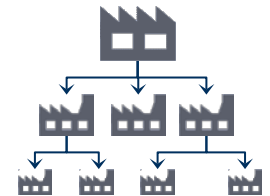
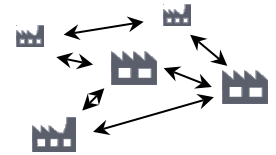


Building Blocks (the course will ...)



Present...

- different types and structures of Supply Chains and Supply Chain modeling techniques,
- procedures and methods for designing, planning and controlling Supply Chains,
- as well as IT systems used in these different areas



Convey...

- practical skills in Supply Chain Design by work on a case study in cooperation with 4flow using their tool "4flow Vista", and
- practical skills in Supply Chain Planning (network and inventory planning) by work on a case study with SAP SCM (APO).





Logistics, Production & Retail

Retail

RETAIL

OVERVIEW



Basic Data

The Retail course highlights the importance of retail as an important sector for the economy and presents business processes and data structures according to the Retail-H reference model.



Summer Term



Lecture, Tutorials & Study Work



100% Exam

Motivation

- Retail in Germany
 - 450 billion Euro annual turnover
 - 50 million customers per day
 - >3 million employees
 - Retail, wholesale, mail order, online retail
- Raising challenges
 - Period of consolidation, regulation and heavily increasing competition
 - Rapidly growing e-commerce market
- Business process management in retail is steadily gaining importance

RETAIL

CONTENT

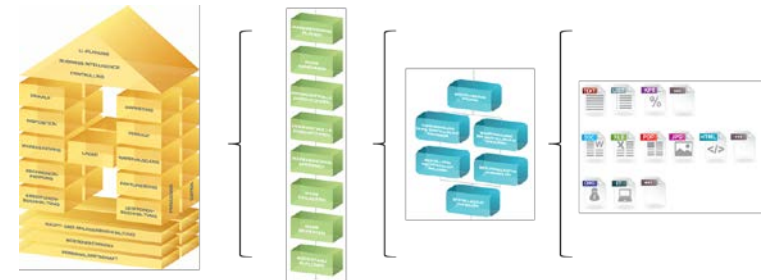


Building Blocks (the course will ...)



Present...

- business processes and data structures following the Retail-H reference model
- ERP-system selection and implementation



Convey...

- apply domain specific techniques for business process modeling and data modeling
- gain practical insight into IT-challenges in retail by work on business process management and ERP-related case studies

