

J.C. Penney

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The company J.C. Penney sells shirts through a network of local warehouses.

Formerly, it replenished sold items by stocking:

- Each warehouse stocks shirts for up to 3 month.
- Warehouses are supplied from regional storehouses that stock shirts for up to 6 months.

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Information Systems 2 / 1. What are Information Systems?

Nowadays, replenishing works completely different:

- At checkout each transaction is reported electronically to TAL Apparel Ltd. in Hongkong.
- TAL produces a new shirt like the one just bought and ships it directly to the local warehouse.
- TAL's application system uses the demand on different shirts in the past to predict the number of shirts needed in each store.
- TAL assigns article numbers and bar codes for easy identification of different shirts.

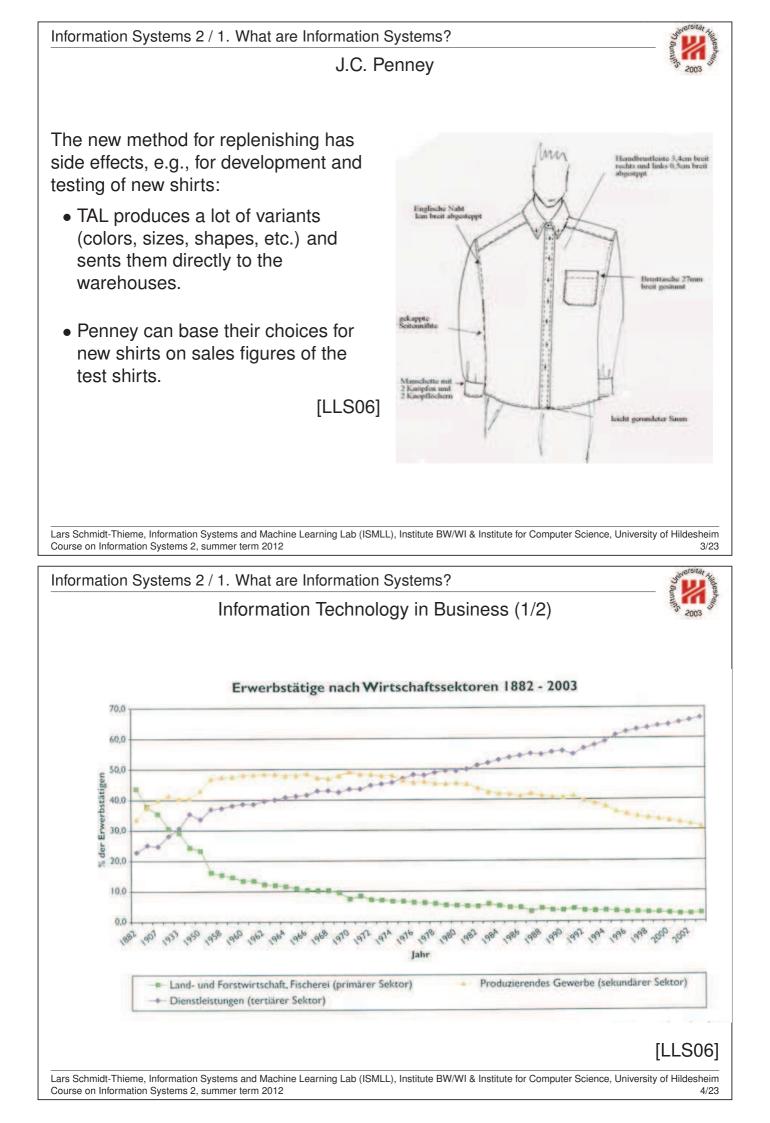


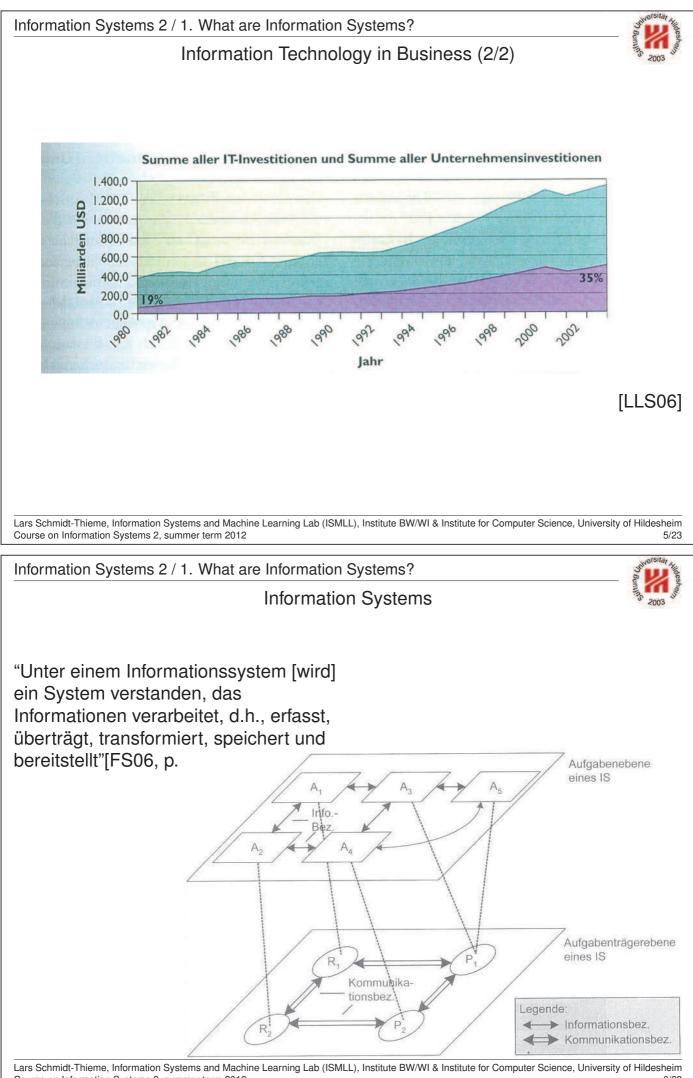
 TAL offers information about which shirts have been sent, when, and where they are right now.



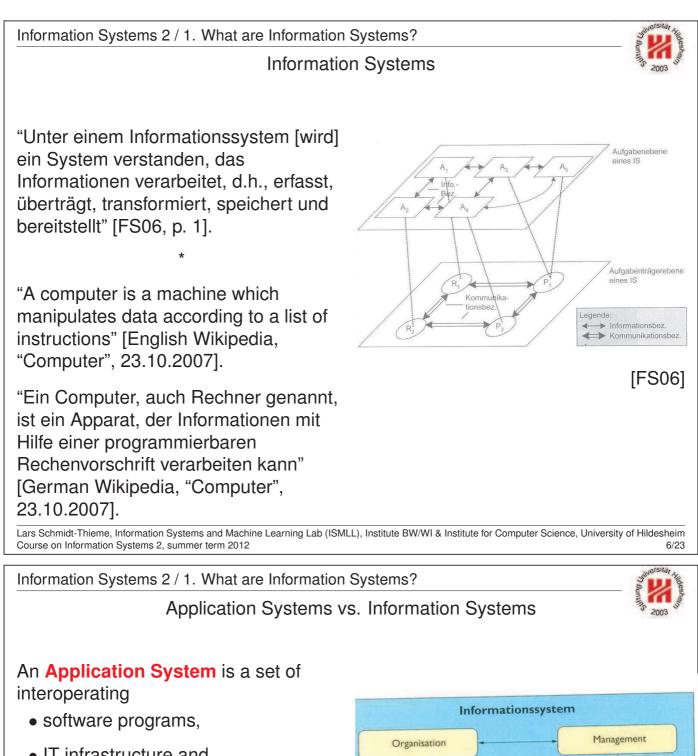








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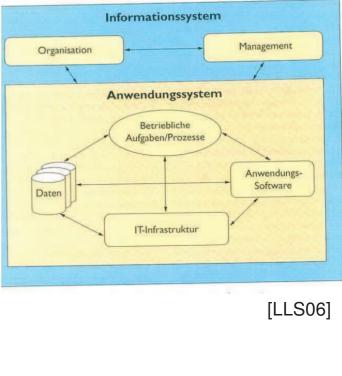


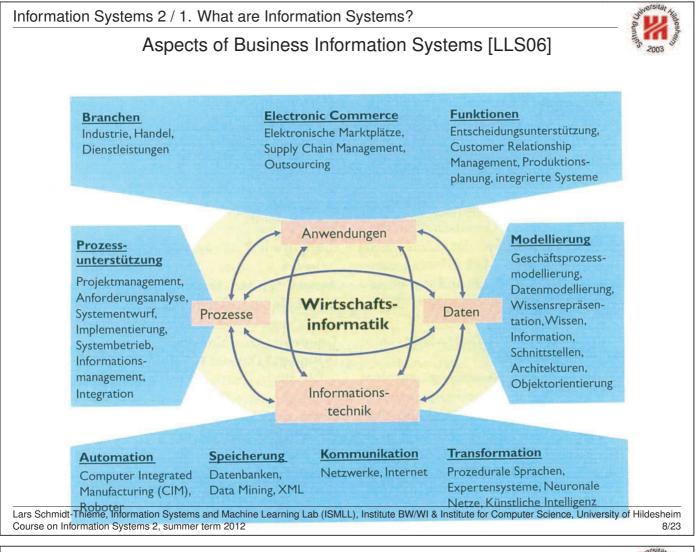
- IT infrastructure and
- data

that supports a specific business domain.

An **Information System** is an application system plus its business context, i.e., the organisation, people, etc. that use the system.

Application systems are **technical systems**, information systems **socio-technical systems**.





Information Systems 2 / 1. What are Information Systems?

Software usually not considered to be Part of an Information System

### 1. office software

— but, companies started to collect all their documents in document warehouses and index them by knowledge bases.

# 2. embedded software to operate a machine

— but, in many scenarios machines generate some output that may be of further interest and thus should be managed by an information system.

## 3. educational software

— but, some modern educational software no longer is a monolithic isolated stand-alone piece of software, but connects learners and teachers through an online platform.

# 4. entertainment software

# Information Systems Program Contents — GI Recommendation [fl03]

#### 1. Basics:

subdisciplines; relation to business management; law; behavioral sciences; computer industry.

# 2. Information and Communication Technology:

computer architecture; hardware, software, middleware and development platforms; networks; communication.

#### 3. Information Management:

information as agent of production; information supply; information networks; security; information system architectures.

#### 4. Business Information Systems / E-Commerce & E-Business:

information systems oriented at economics sectors; information systems oriented at

processes and functions; integration; electronic market places.

#### 5. Application System Development:

analysis, design, implementation, deployment; web-based systems; choice, customization and deployment of standard software; system integration.

#### 6. Data and Knowledge:

data models and data bases; data warehouse; knowledge representation and engineering.

#### 7. Disposition and Decision Support:

mathematical and statistical models and methods; operations research; artificial intelligence; methods of strategic management.

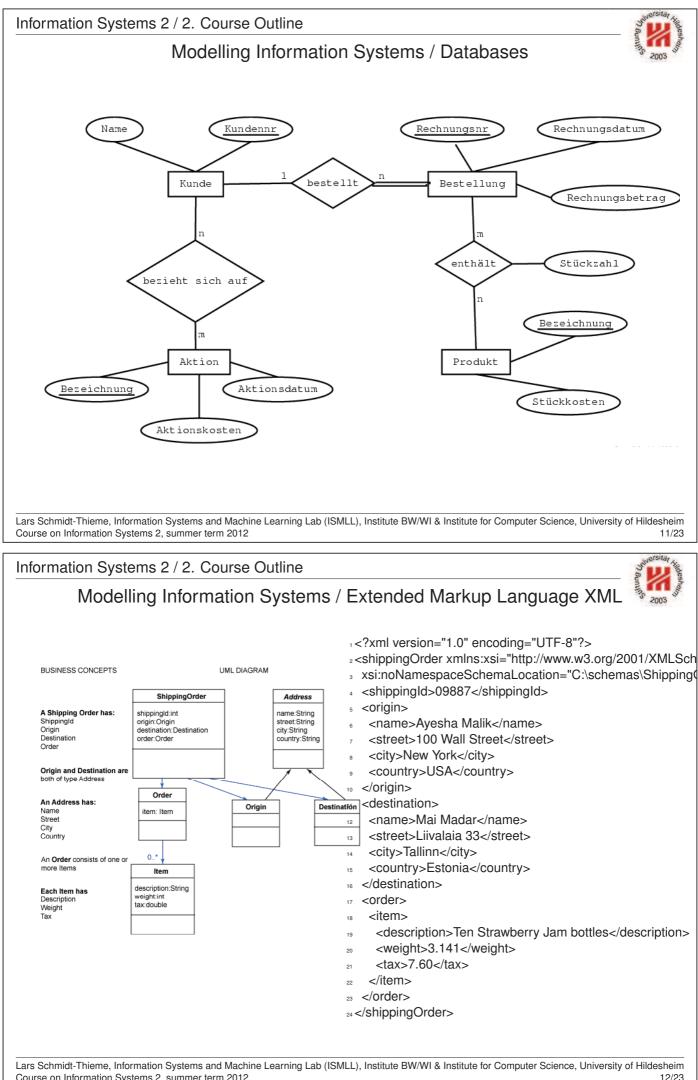
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#### Information Systems 2

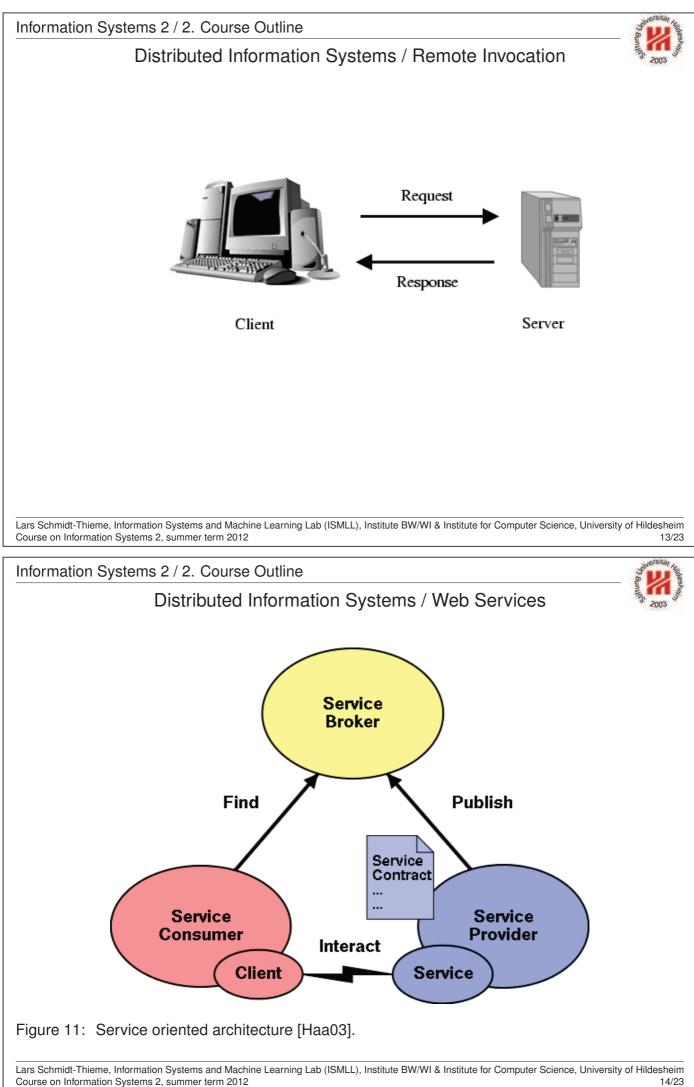


2. Course Outline

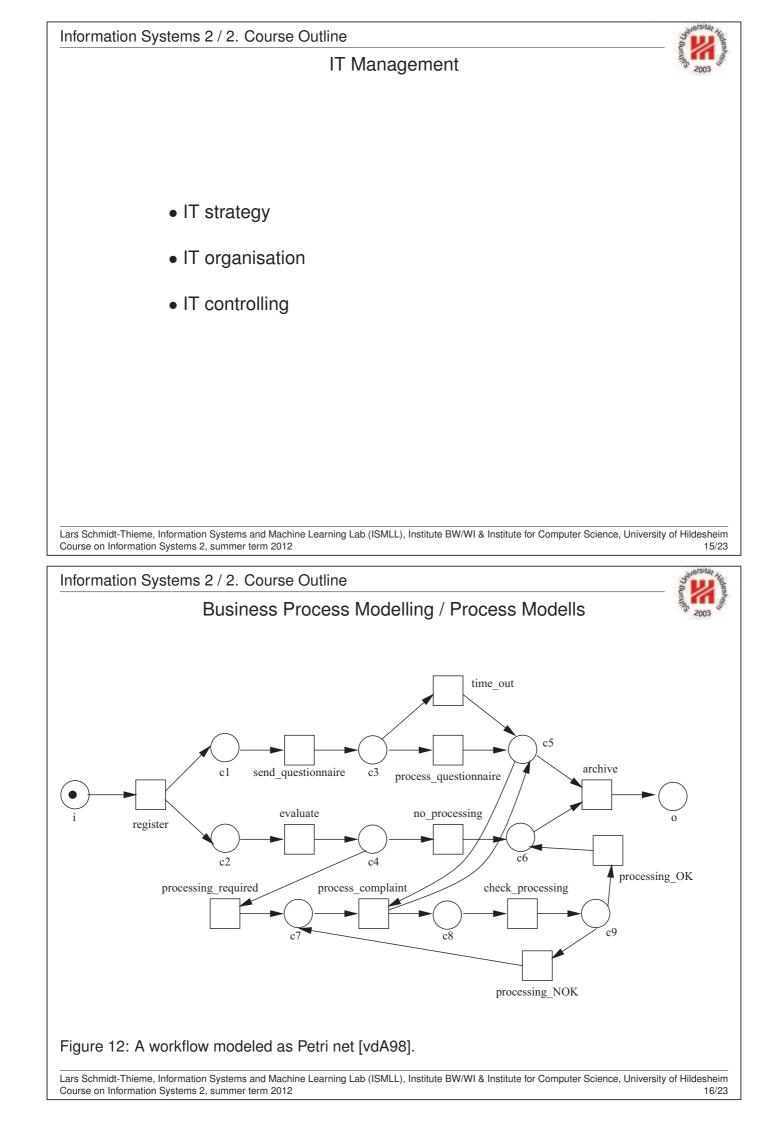
# 3. Organizational stuff

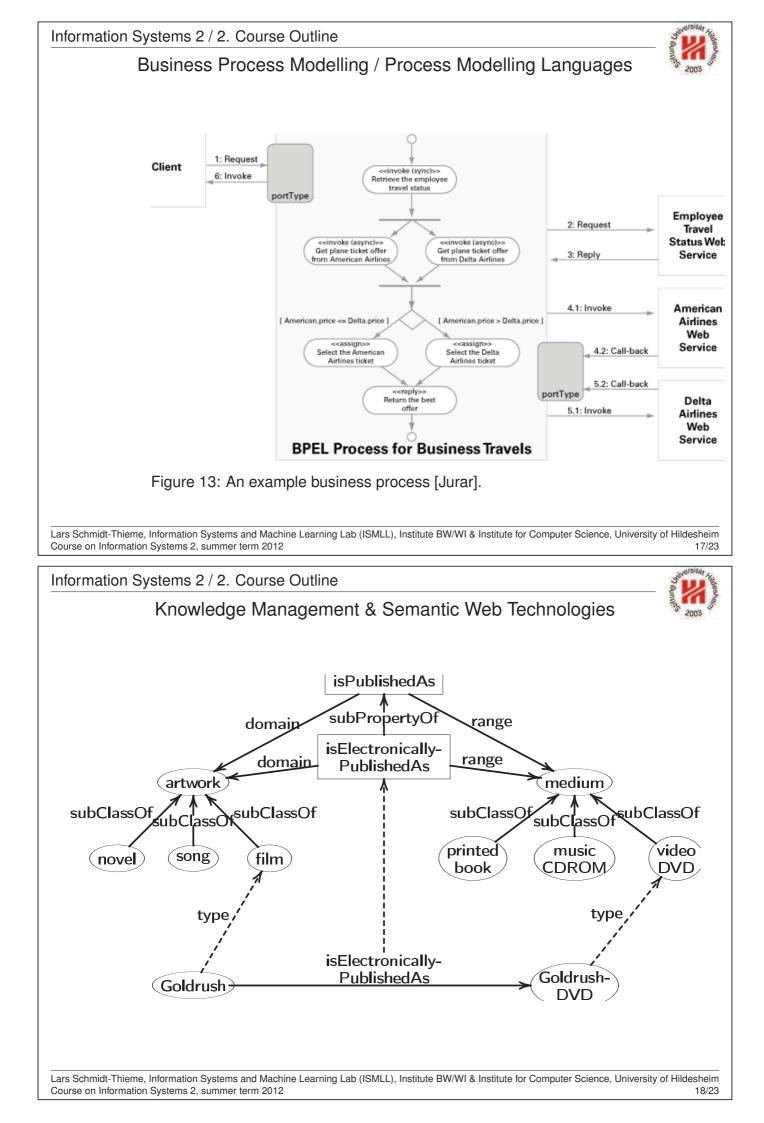


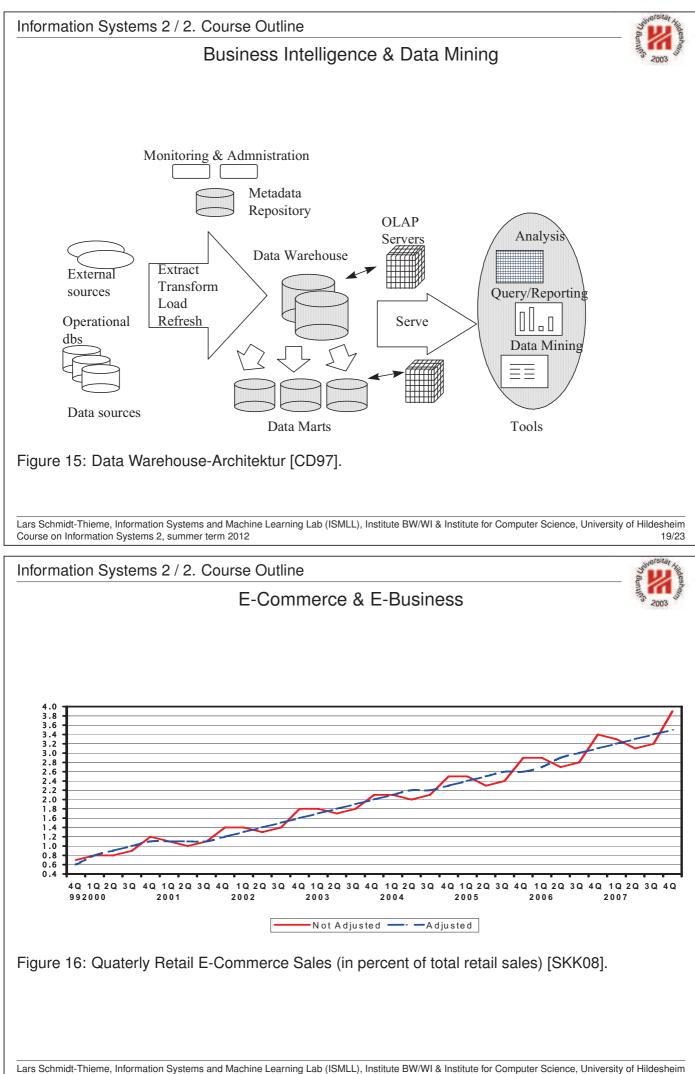
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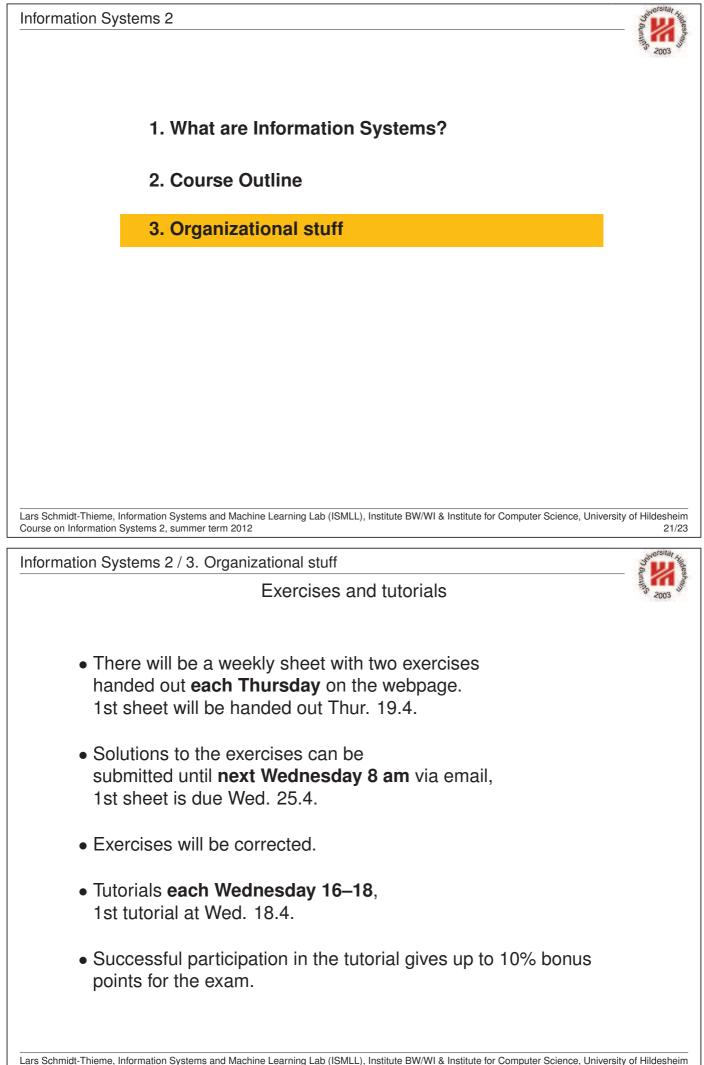
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Information Systems 2 / 3. Organizational stuff	Sourcessiter Hildes
Exam and credit points	2003
<ul> <li>There will be a written exam at end of term (3h, 5 problems).</li> </ul>	
<ul> <li>The exam covers only this course (IS2), (In the past, it also covered IS1; this is a separate exam now.)</li> </ul>	
<ul> <li>The IS2 course gives 6 ECTS (2+2 SWS).</li> <li>– ECTS = European Credit Transfer System</li> </ul>	
– 1 ECTS $pprox$ 30h workload (for the students)	
<ul> <li>180h: 14 weeks à 1.5 h lecture: 21 h</li> <li>14 weeks à 1.5 h tutorial: 21 h</li> <li>à 5 h solving exercises: 70 h</li> <li>à 4 h post preparation: 56 h</li> <li>once 16h exam preparation: 16 h</li> <li>total work load: 184 h</li> </ul>	
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Information Systems 2 / 3. Organizational stuff	Sound State
Information Systems 2 / 3. Organizational stuff Text books	2003 2003
	2003 UNA

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