Trends and Concepts in the Software Industry II
Development Experience on Enterprise Cloud Platforms

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Introduction 06th November 2020
Best-run Businesses Are 

Intelligent Enterprises 

Are Integrated Enterprises
The Intelligent Enterprise

Sales and Distribution

Material Management

Finance

Human Resources

Enterprise Resource Planning
The Intelligent Enterprise

Customer Relationship Management

Human Resources

Enterprise Resource Planning

Workforce Management
The Intelligent Enterprise

- General Procurement
- Customer Relationship Management
- Human Resources
- Enterprise Resource Planning
- Workforce Management
The Intelligent Enterprise

- General Procurement
- Customer Relationship Management
- Travel & Expenses
- Human Resources
- Enterprise Resource Planning
- Workforce Management
General Procurement
Customer Relationship Management
Travel & Expenses

Enterprise Cloud Platform
• Extend
• Integrate
• Data-to-Value

Human Resources
Enterprise Resource Planning
Workforce Management
Enterprise Cloud Platforms
From On-Premise to the Cloud

- Extend
- Integrate
- Data-to-Value

You manage
Service provider manages

Slide 10
Enterprise Cloud Platforms (Recap TuK I)
Target-Actual Comparison on SAP Cloud Platform

Chart 11
Enterprise Cloud Platforms
Target-Actual Comparison on SAP Cloud Platform

1. Neo: The legacy at customers
2. CF: Back to the Future
3. Steampunk: ABAP in the Cloud
4. Cloud-native Development
5. Kyma: Function as a Service

Chart 12
Based on your study of a real customer scenario, what are drivers and hurdles when developing on an enterprise cloud platform and how could the development experience be improved?

- How are developers currently supported on enterprise cloud platforms?
- What tools, tutorials and examples are available?
- What are use cases for developing on an enterprise cloud platform?
- How does development in the cloud differ from former development and what is the impact for the customers?
Trends and Concepts in the Software Industry
Goals and Learning Experience

Participants will

- Learn about **fundamental principles** behind enterprise cloud platforms
- Become familiar with real business and **how a cloud offering can transform their use cases**
  - Understand the need for customer-side development on cloud-based enterprise applications
  - **Requirements analysis, problem-solving, and consultancy** (for your customer and SAP)
- **Work hands-on** and write, test, and deploy code for cloud-based systems
- Improve teamwork, self-organization, presentation and **pitch skills**
Trends and Concepts in the Software Industry
Seminar Schedule

- **Enrollment Deadline:** 20th November
- **Kick-off Workshop:** 26th / 27th November
- **Group Work & Prep:** 26th / 27th November
- ** Intermediate Presentations:** February
- **Block Week:** February / March (Depending on Prof. Plattner’s Availability)
- **Deadline Documentation Submission:** tba
## Trends and Concepts in the Software Industry
### Overview of the Seminar

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<th>Pre Phase</th>
<th>INTRODUCTION</th>
<th>06.11.2020</th>
<th>Introduction and information session</th>
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| 2-DAY KICK-OFF WORKSHOP | 26.11. & 27.11.2020 | • Expert Sessions  
• Hands-on Exercises  
• Preparation for case studies |
| SELF DEPENDENT GROUP WORK & EXERCISES | December  
January  
February | • Your own schedule  
**Case studies, identify positive experiences and issues in your cases**  
• User and Expert interviews + further desk research  
• Synthesis of results  
• Your own schedule  
**Build your own cloud native App** |
| INTERMEDIATE PRESENTATIONS | tba | **Present your insights**  
• Short presentation and discussion |
| Block Week | SEMINAR WEEK BUILDING & PRESENTING A SOLUTION | Feb / Mar 2021 | • Presentation: case studies and insights, initial prototype ideas  
• Expert sessions: technology aspects  
• Ideation and Implementation of a prototype  
• Test / evaluation with case study contacts  
• Final presentations  
• 5 days |
| Post Phase | DOCUMENTATION | tba | **Document your work**  
• Written report  
• Video or screencast to experience your prototype |
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Prerequisites

- Mandatory
  - **Motivation** to deep-dive into technical aspects of a modern cloud platform and learn directly from customers about enterprise applications

- Beneficial
  - Basic knowledge about cloud native development, enterprise data management, and modern database systems.
  - Attendance of Trends and Concepts in Software Industry I
  - This knowledge can easily be acquired through reading and watching the recommended materials
Trends and Concepts in the Software Industry

Grading

- 6 ECTS (IT-Systems Engineering MA: ITSE-Analyse; ITSE-Entwurf; BPET; OSIS; Data Engineering MA: DATA; Digital Health MA: SCAD; APAD; Cybersecurity MA: IDMG)

- Engagement to discussions, the project and teamwork, exercises, intermediate presentations (30%),
- Project results and final presentation (40%),
- Documentation of the results (30%)

Pre-Enrollment open now:
https://forms.gle/5CfY3ukaubfNDFte8

Enrollment until 26th November
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HPI Campus II
Villa, Room: V-2.18

Please enroll:
https://forms.gle/5CfY3ukaubfNDFte8