

# Course Introduction

**Prof. Dr. Dirk Riehle**

**Friedrich-Alexander University Erlangen-Nürnberg**

**COSS A01**

Licensed under CC BY 4.0 International

# Course Learning Goals

- Understand ...
  - The software industry and its players
  - Commercial open source startups
  - How to spin-out from a university
- Learn how to ...
  - Analyze and design a business model
  - Get an open source project off the ground
  - Turn a research project into a startup

# Course Content

## 1. The software industry

- The software industry
- Software products
- Software vendors
- Business models

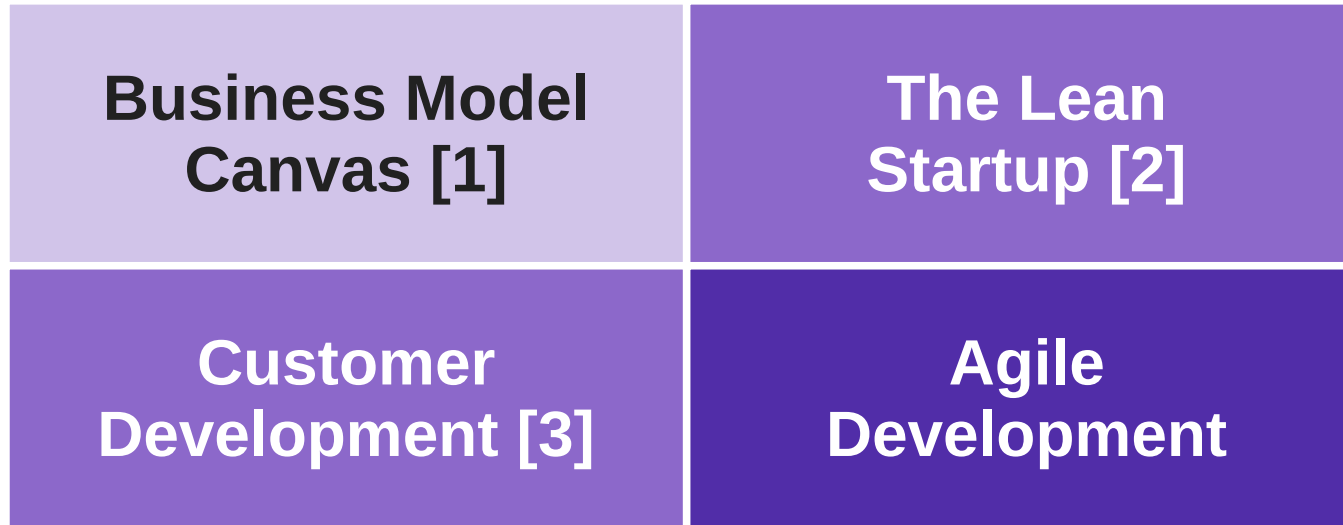
## 2. Commercial open source

- Open source software
- Open source projects
- Commercial open source
- Cloud computing strategies

## 3. University spin-offs

- Software startups
- Research vs. startup
- The university spin-off
- Fundraising

# Practitioner Literature Base of the Course



**With cleaned-up terminology, and as applied to commercial open source**

[1] Osterwalder, A. & Pigneur, Y. (2010). Business Model Generation.

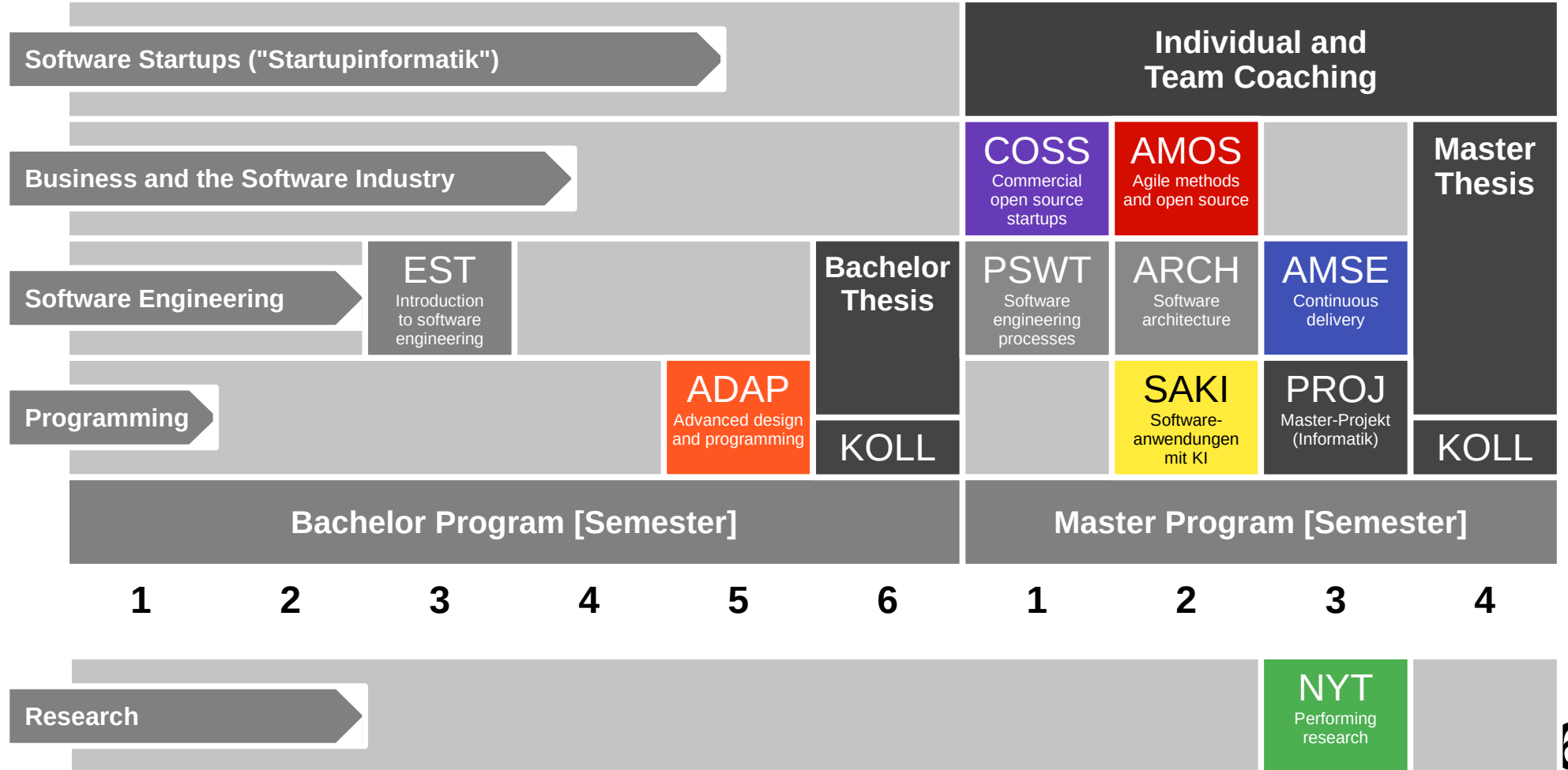
[2] Ries, E. (2011). The Lean Startup.

[3] Blank, S., & Dorf, B. (2012). The Startup Owner's Manual.

# Skills Required for Course

- Required ...
  - Basic business understanding
- Familiar with ...
  - N/A
- Expected of student
  - Self-study where necessary
  - Team work for project

# Course Position in Curriculum



# Courses and Modules

		Courses (Lehrveranstaltungen)		
		OSS-COSS-VL	OSS-COSS-UE	Total ECTS
Modules	OSS-COSS-VUE	X	X	5

VUE = Lecture + exercise (Vorlesung + Übung)  
PROJ = Project

# Course Grading [1]

- Lecture-time contributions = 50% of total grade
  - Class quizzes = 20%, graded [0..10]
    - Administered for each video lecture
  - Homework = 20%, graded using [0|1]
    - Three homework submissions during course of semester
  - Presentation = 20%, graded using [0|1|2|3]
    - Three presentations in class
  - Final report = 40%, graded using [0..10]
    - Three sections (out of nine) for each of the three roles
- Oral exam = 50% of total grade
  - If both you and we agree on not having an oral exam, it can be dropped
    - If there are questions about a student's performance, we will not drop the oral exam
    - If the oral exam is dropped, the semester contributions become 100% of the grade

[1] Also see <http://osr.cs.fau.de/teaching/course-resources/grading-schemes-and-scales/>



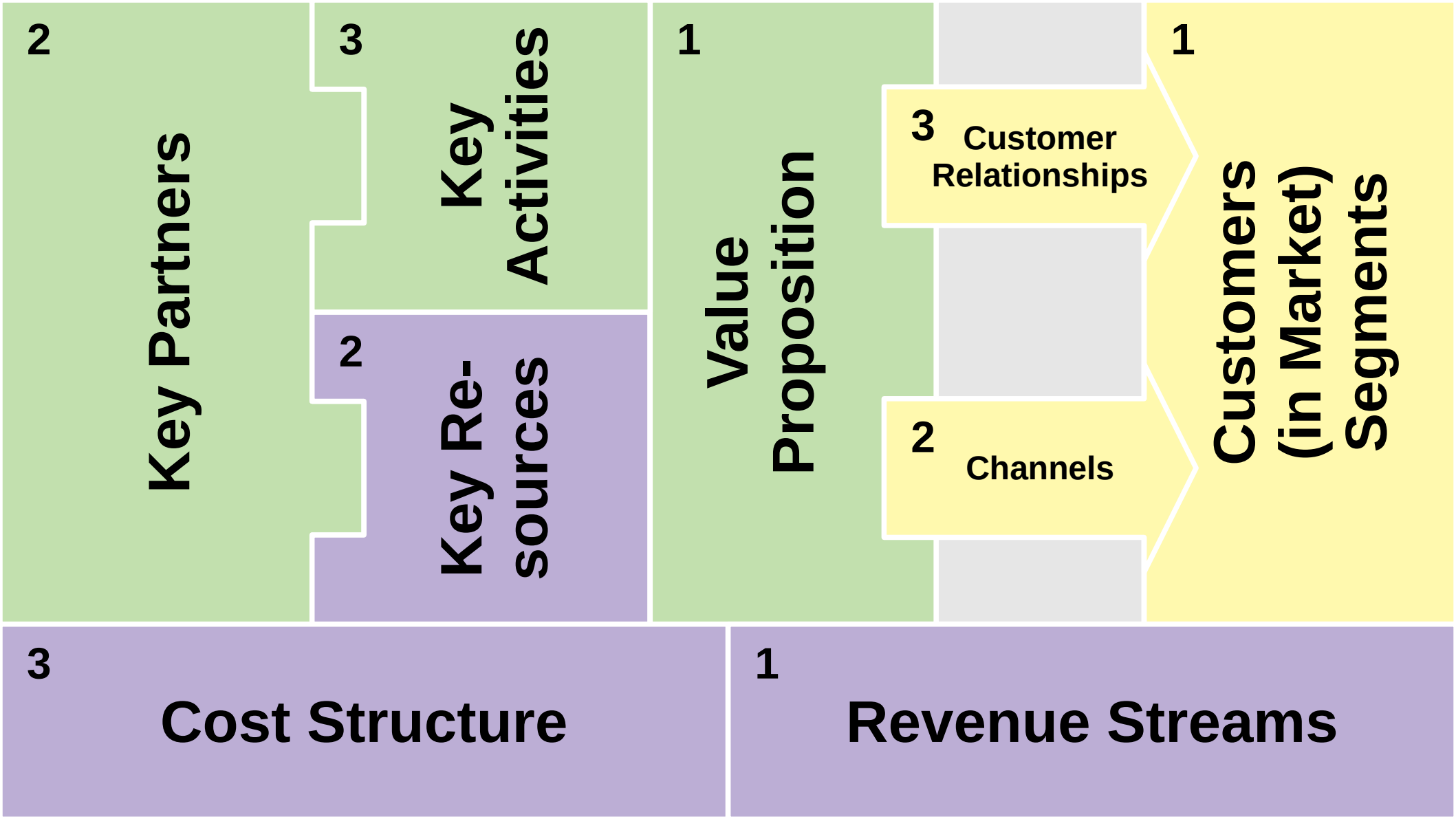
# Class Quizzes

- Each class session starts with a class quiz
  - A quiz will test your understanding of last session's lecture(s)
  - A quiz typically has 5 questions and will last 10 minutes
  - The overall quiz is graded using [0..10] scheme (10 points in total)
- A class quiz will open precisely when class starts
  - The quiz is administered automatically through StudOn
  - It is your job to have reliable Internet access etc.
  - There is no way to make up for a missed quiz
- Please see the StudOn quiz FAQ <https://bit.ly/2JpgjnQ>

# Course Homework [1]

- Student teams design a business model as course work; consists of
  - Three homework submissions during semester
  - Graded explanation of homework in exercises
  - Compilation and presentation in final report
- Student teams consist of three people, each playing one role
  - “Hustler” (sales and marketing)
  - “Designer” (user experience)
  - “Coder” (software engineering)
- Student teams choose one of (most likely) three projects to work on
  - Students pitch a project idea (optional)
  - Students prioritize available projects
  - We decide, if necessary, with backup

[1] Also see <https://bit.ly/2Mu8IFy>



# Homework Schedule Overview

## 1. Homework bundle 1

- a) Customers (in market) segments
- b) Value proposition
- c) Revenue streams

## 2. Homework bundle 2

- a) Channels
- b) Key partners
- c) Key resources

## 3. Homework bundle 3

- a) Customer relationships
- b) Key activities
- c) Cost structure

## 4. Final report

# Receiving a Grade for the Course

- If you want to receive a grade
  - You must register through the course registration system during the registration period
- If you cannot register through the course registration system
  - Please follow these instructions: <https://wp.me/PDU66-2bx>
- Otherwise: No grade

# No Oral or Written Exam [1]



[1] If both you and we don't want to

# Course Language [1]

- Class
  - Lecturer: English
  - Student: Choice of German or English
- Homework
  - Instructor: English
  - Submissions: English

[1] See <http://osr.cs.fau.de/2012/03/10/english-or-german-deutsch-oder-englisch/>

# Course Communication

- Announcements by email (through course management system)
- Please ask your questions using the FSI Forum for this course
- For email, use the teaching team alias from the **Course Organization** doc





# Course Information

- See **Course Organization** doc at <https://oss.cs.fau.de/oss-coss-course>

# Thank you! Questions?

[dirk.riehle@fau.de](mailto:dirk.riehle@fau.de) – <http://osr.cs.fau.de>

[dirk@riehle.org](mailto:dirk@riehle.org) – <http://dirkriehle.com> – [@dirkriehle](#)

# Credits and License

- Original version
  - © 2020 Dirk Riehle, some rights reserved
  - Licensed under [Creative Commons Attribution 4.0 International License](#)
- Contributions
  - None yet