



Filling Skills Gaps in Blue Industry by Radical Competence Boost in Engineering VET

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RADICAL Filling Skills Gaps in Blue Industry by Radical Competence Boost in Engineering VET

Benefits of Industry-Higher Education cooperation in Germany and Spin-offs for Europe

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Objectives

- ❖ Analyse European academic-industrial cooperation models in (Sales) Engineering degrees
- ❖ Create a basis for the development of the new ENGINE model at TUAS
- ❖ Only organisational and administrative aspects are subject of this study: the ENGINE model's pedagogic program is not subject of discussion here
- ❖ The content of the new degree remains identical with the existing Bachelor of Engineering in Industrial Management and Engineering



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Higher-Education-Industry Cooperation in Germany

- ❖ 1970ties: Start of cooperative educational programmes in Germany
 - Dual Study Programs (Duales Studium, Duale Ausbildung)
 - Definition: Cooperative study program with extended internships close to or equivalent to an journeyman's educational program
- ❖ 2006: Start of "Hochschule Dual" in Bavaria
 - Type 1: Associated Study Program
 - Type 2: Dual Study Program

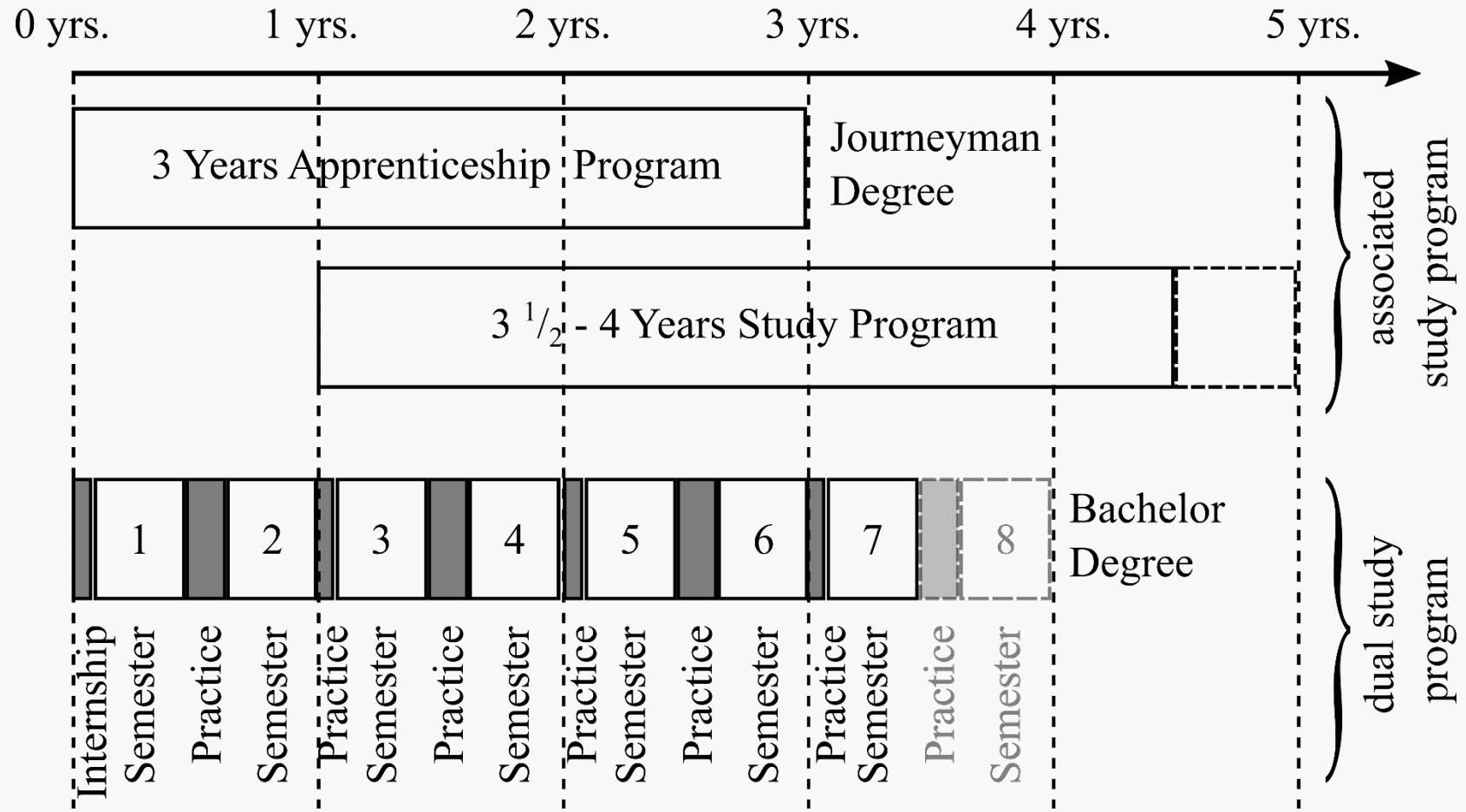


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The two Bavarian Programs

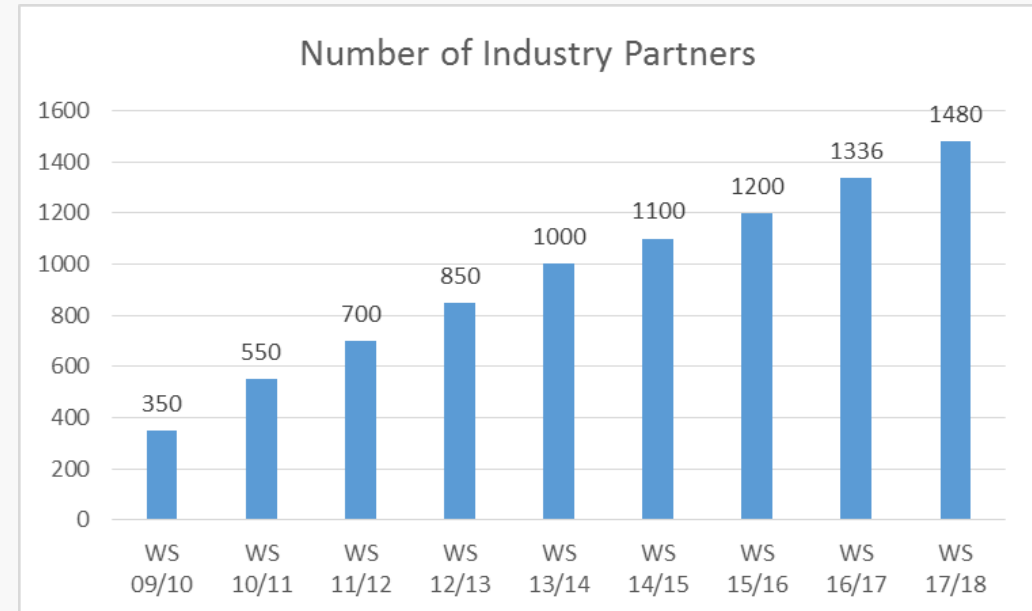
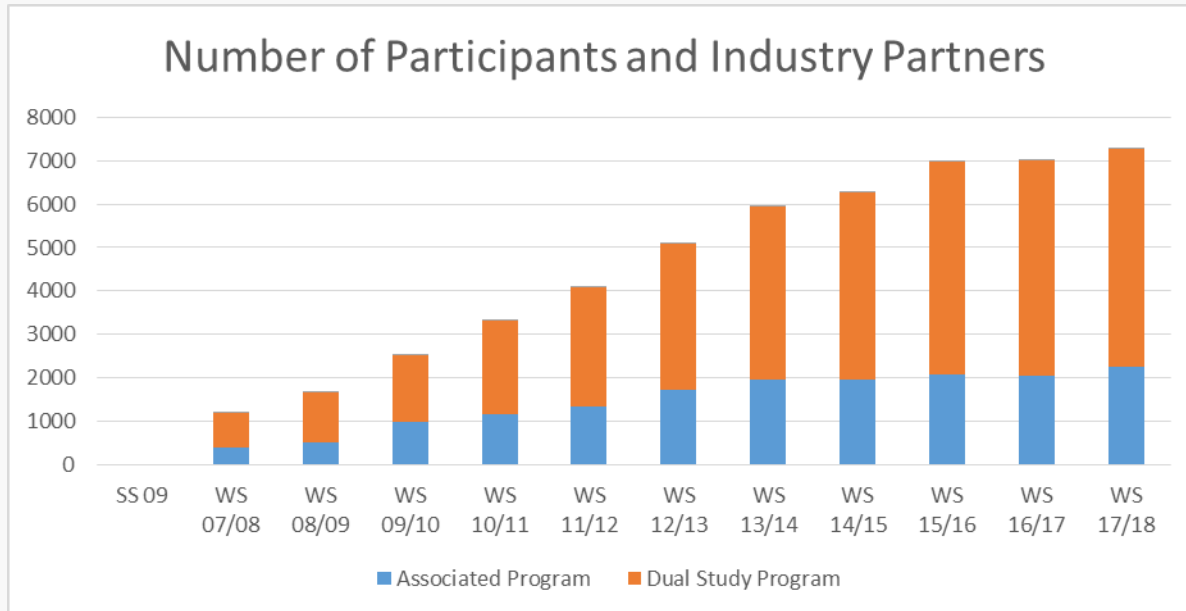


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Benefits of Higher-Education-Industry Cooperation in Germany

❖ The numbers in Bavaria are impressive and speak for themselves



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Benefits of Students and Industry Joining Dual Programs

❖ Students

- Payments
- Safety (contract)
- Motivation
- Potential first employer well known

❖ Industry Partners

- More Employees with higher education
- Safety
- Saving cost for seeking employees
- New employee well known and already trained



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Reported Benefits

- ❖ Associated Study Program: Two Grades
- ❖ More than 50% of technical UAS Students in Germany receive unlimited employment contracts
 - ➔ Indicator for good employability of such students
- ❖ Youth unemployment is less for people with tertiary education and industry contact
 - ➔ Higher employability of education+industry-cooperation
- ❖ Students learn at academic level solving real-world problems at the same time



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Summary: Spin-offs

- ❖ Different well tested models one can learn from
- ❖ Lower youth unemployment rate
- ❖ Higher employability
- ❖ More academic staff in the industry
- ❖ Students can study and get salary at the same time
- ❖ “On the job” Bachelor study program
- ❖ Associated Study Program: Two Degrees within just five years possible



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