

# Dual Curricula – Study and Work Practice in Agriculture and Food Safety

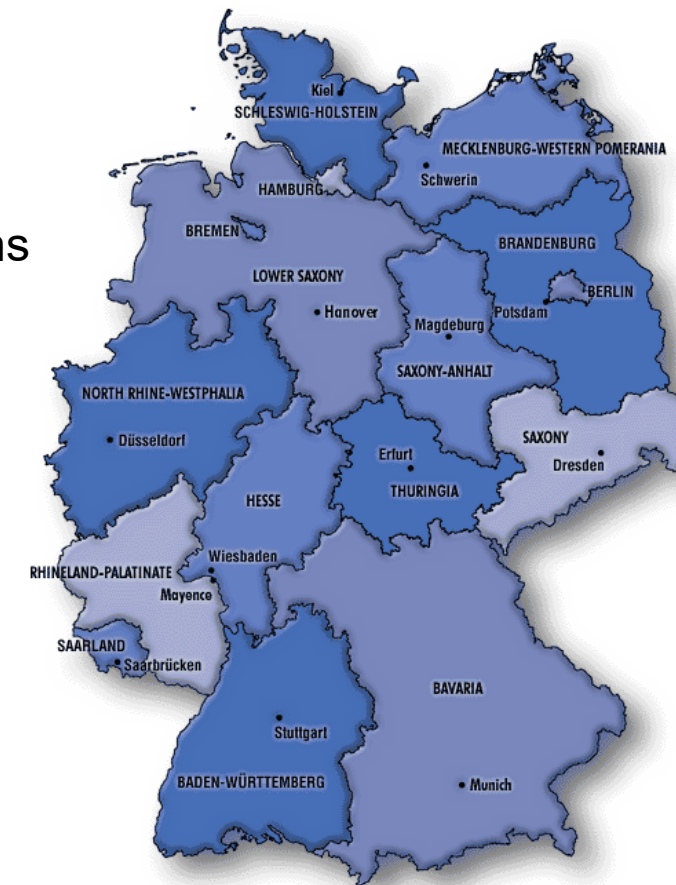
**1st international workshop: Dual Studies  
Examples of Dual Studies in Germany and at NGU**

16<sup>th</sup> April 2021, Online in Zoom

# Dual Studies (Cooperative Education) in Germany

## Background:

- Basic Model: Dual Vocational Education and Training System:
  - Combination of apprenticeships in a company and vocational education at a vocational school (Germany, Austria, Switzerland) for > 350 professions
  - Duration: 3 years, 2 years with university entrance qualification
- 1974: Foundation of “Cooperative Universities” (Berufsakademien) in Baden Wuerttemberg (Stuttgart, Mannheim)
- Subsequently similar Universities have been established in other Federal States (Saxonia, Bavaria, ...)
- 6 Types:
  - Work Integrated Learning Programmes
  - Vocational Training Integrated Learning Programmes
  - Job Attendant Learning Programmes
  - ....



# Dual Studies (Cooperative Education) in Germany

## Concept:

- Cooperative Studies (Work Integrated Learning Programmes):
  - Combination of 2 'learning locations': university and company
  - Typical Bachelor programme:
    - Duration 3 years, 210 ECTS (162 university modules, 48 ECTS practice modules)
    - alternately: 3 months university, 3 months company, 3 months university ....
    - Degrees, depending of discipline:
      - B.A. (Bachelor of Arts)
      - B.Sc. (Bachelor of Science)
      - B.Eng. (Bachelor of Engineering)
  - Study places are provided by the partner companies
    - Contract between company and university
    - During practice phases students get paid by partner companies

# Baden Wuerttemberg Cooperative State University (DHBW)

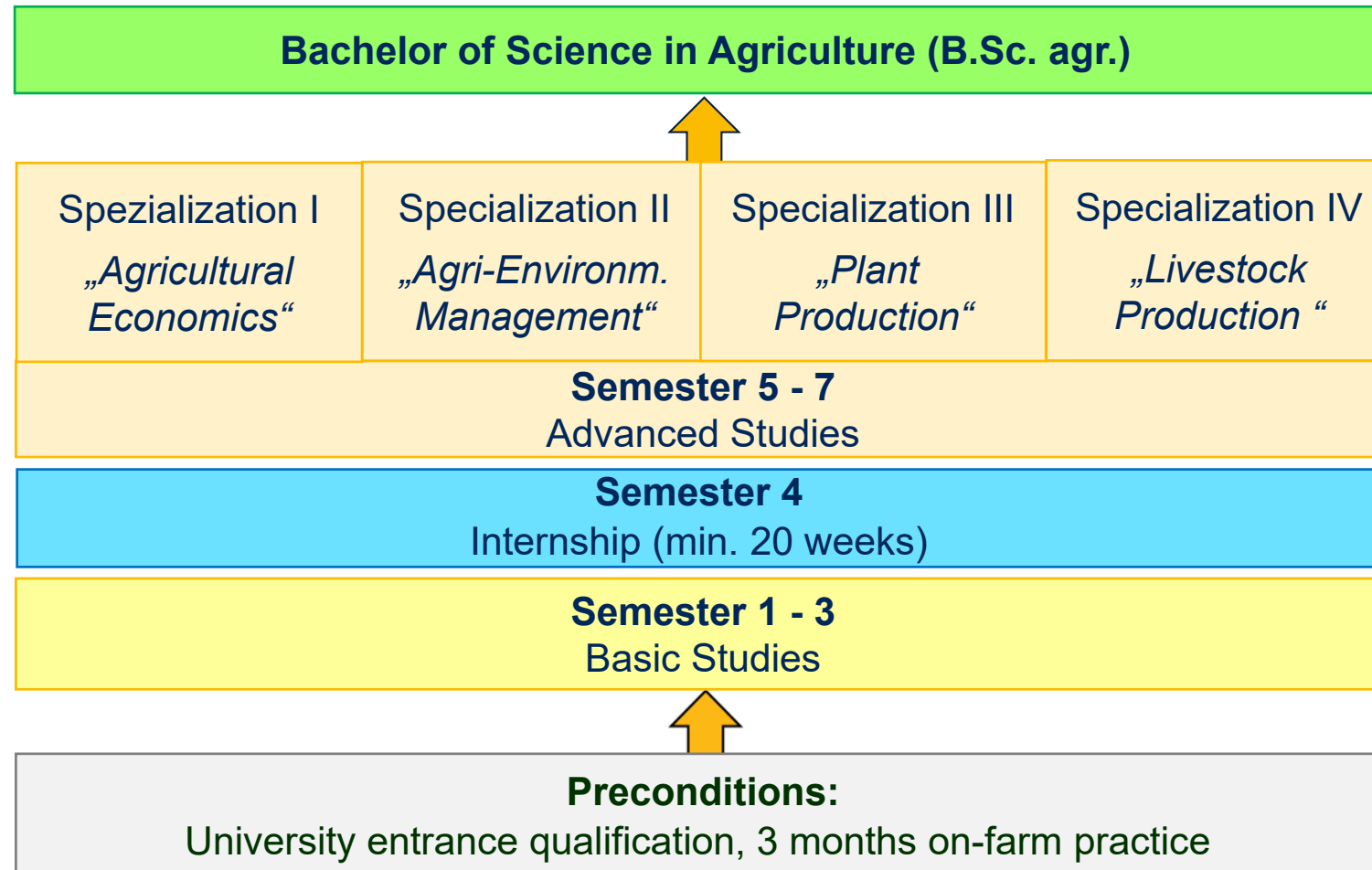
- 2009: Integration of independent „Cooperative Universities“ into „Baden Wuerttemberg Cooperative State University (DHBW)“
  - 9 Branches (former „Berufsakademien“)
  - > 34 000 students
  - > 9 000 partner companies)
- > 100 study programmes in 3 disciplines:
  - Business
  - Engineering
  - Social work
- Advantages:
  - High practice content of academic study programme
  - Industry becomes directly involved in academic education
  - Students usually get employed by partner companies after graduation

# Dual Studies in Agricultural Sciences

## Concept:

- Vocational Training Integrated Learning Programmes
  - Professional qualification (Skilled Agricultural Worker) + academic degree (B.Sc. agr.)
- offered by 4 Universities of Applied Sciences in Germany
  - Neubrandenburg, Nuertingen, Triesdorf + Weihenstephan, (Bingen)
- Benefits:
  - Students receive 2 degrees
  - Increased practical experience
  - Total duration of education reduced by 1 year
    - 4.5 years instead of 5.5 years
  - Increased demand for vocational training in agriculture

# Bachelor Programme in Agricultural at NGU



# Bachelor Programme in Agricultural Sciences at NGU

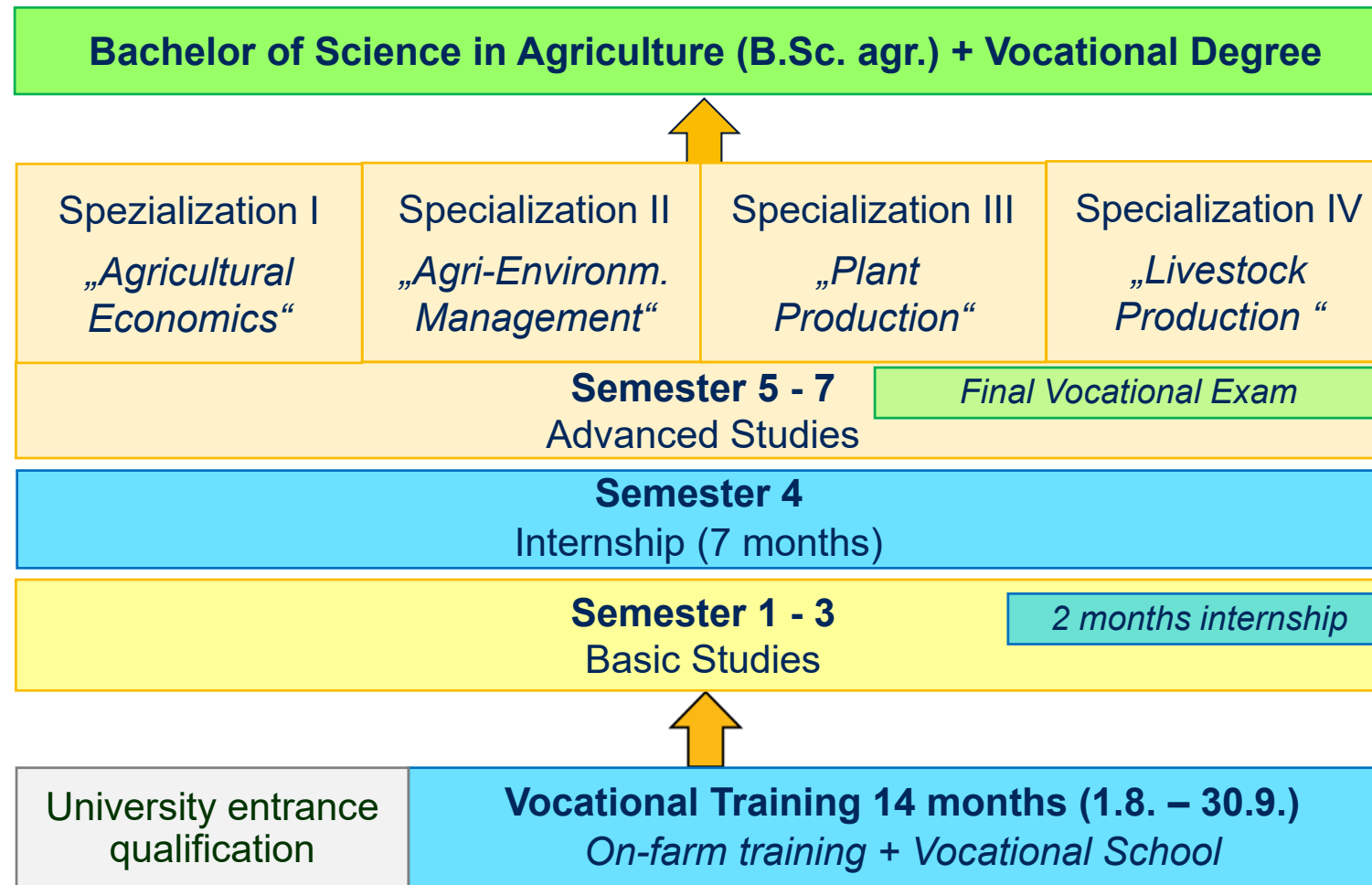
Sem.	Modules (5 credits each)					
1 WiSe	Botany and Ecology	Mathematics and Physics	Basics of Animal Sciences	Basics of Economics	Accounting and Statistics	Genetics and Chemistry
2 SoSe	Basics of Plant Production	Basics of Animal Husbandry	Soil Science & Plant Nutrition	Phytomedicine & Plant Breeding	Sustainable Development and Digitization	Practice Project
3 WiSe	Controlling	Animal Breeding & Animal Health	Animal Nutrition & Feed Science I	Basics of Agr. Mechanisation	Technology in Animal Husbandry	
4 SoSe	Practice Module (8 days)	Internship (min. 20 weeks)				
5 WiSe	Production Economics	Marketing	Applied Ecology	Agricultural and Environmental Law	Investments and Finance	Elective Module 1
6 SoSe	Project Modul	Mechanisation	Crop Production Systems	Specialization Modul 1	Specialization Modul 2	Elective Module 2
7 WiSe	Specialization Module 3	Specialization Module 4	Specialization Module 5	Bachelor Thesis (4 months)		Oral Bachelor Exam

# Dual Studies in Agricultural Sciences at NGU

- Since 2012 as Vocational Training Integrated Programme
- 14 months on-farm training + vocational school
  - Students have to sign contracts with a farm and state administration
  - Students receive salary according to VET-regulations
- 3.5 years Bachelor studies including additional internships
- Identical study modules for “dual” and “regular” B.Sc. Programme
- Final Vocational Exams (theoretical and practical) after 3<sup>rd</sup> study year
- ~ 10 % of Bachelor students in Agriculture
- also available for ‘Equine Management (B.Sc.)’



# Dual Studies in Agricultural Sciences at NGU



A stone archway with a central sculpture and two lanterns, set against a background of trees and a building.

**Thank you very much  
for your attention!**