



# Degree Programme Agricultural Engineering (Campus Triesdorf)

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Teaching Area: Agricultural System Technology  
Dean of Studies

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# Basic Human Needs



# Strategies

Hunting



Animal production

Gathering

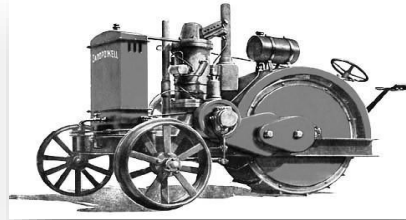
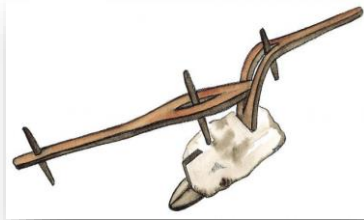


Plant production

Animal husbandry and cultivation of crops  
= Agriculture

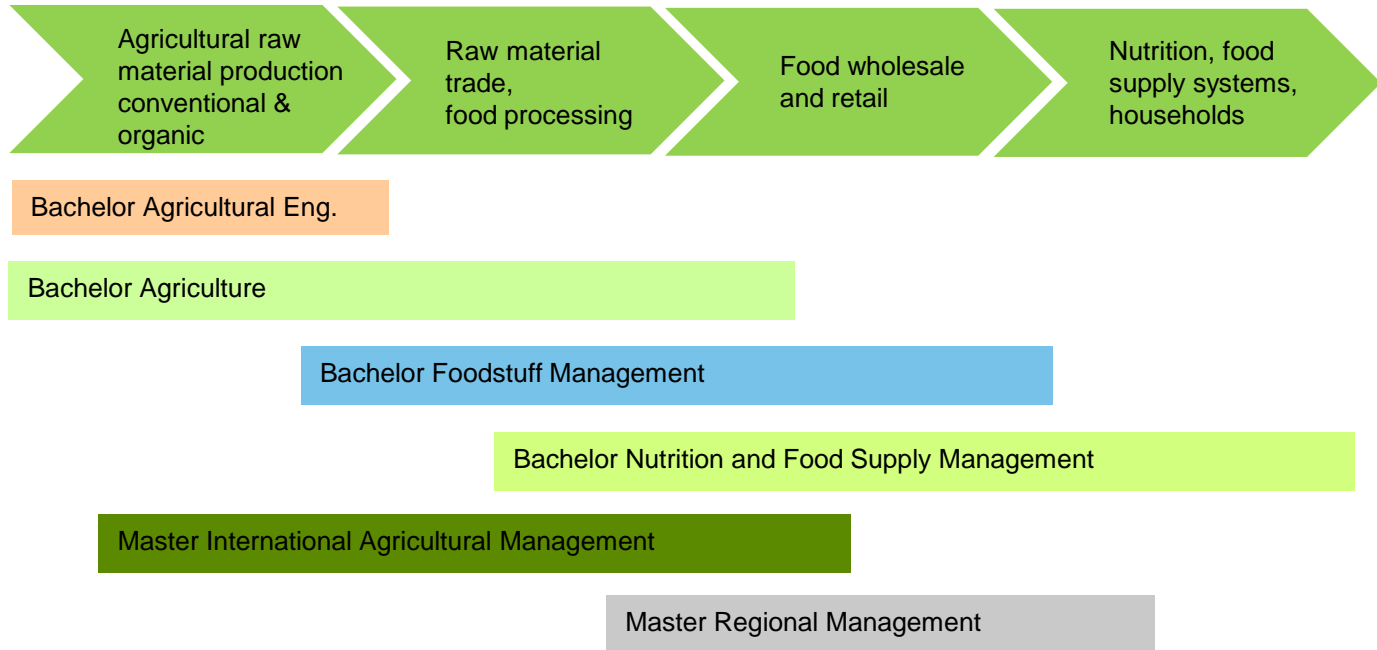
Sources:  
<http://www.weltderwunder.de/artikel/gegrillte-vogelspinne-und-gemahlene-steine-allesfresser-mensch>; <https://www.waz.de/region/rhein-und-ruhr/oetzi-walk-wandern-wie-in-der-steinzeit-id11012329.html>

# Implementation: Tools and Auxiliary Means



**Tools = Agricultural Engineering**

# Degree Programmes along the value chain (Campus Triesdorf)



# Triesdorf from Space



# Staff



Professor Dr.  
**Hariolf Kurz**  
*Agricultural  
Machinery  
Technology*



Professor Dr.  
**Peter Breunig**  
*Marketing,  
Market Theory*



Professor Dr.  
**Ulrich Groß**  
*Agricultural  
Engineering and  
Processing  
Technology*



Professor Dr.  
**Patrick Noack**  
*Agricultural System  
Technology  
Dean of Studies*

# Fields of Work: Agricultural Engineering

## 1. Working in the management of

- agricultural engineering companies
- contractors or
- machinery rings

## 2. Technical sales and distribution

- technical and sales advisory
- key account management
- special consulting in new technical fields of application

## 3. Research & Development

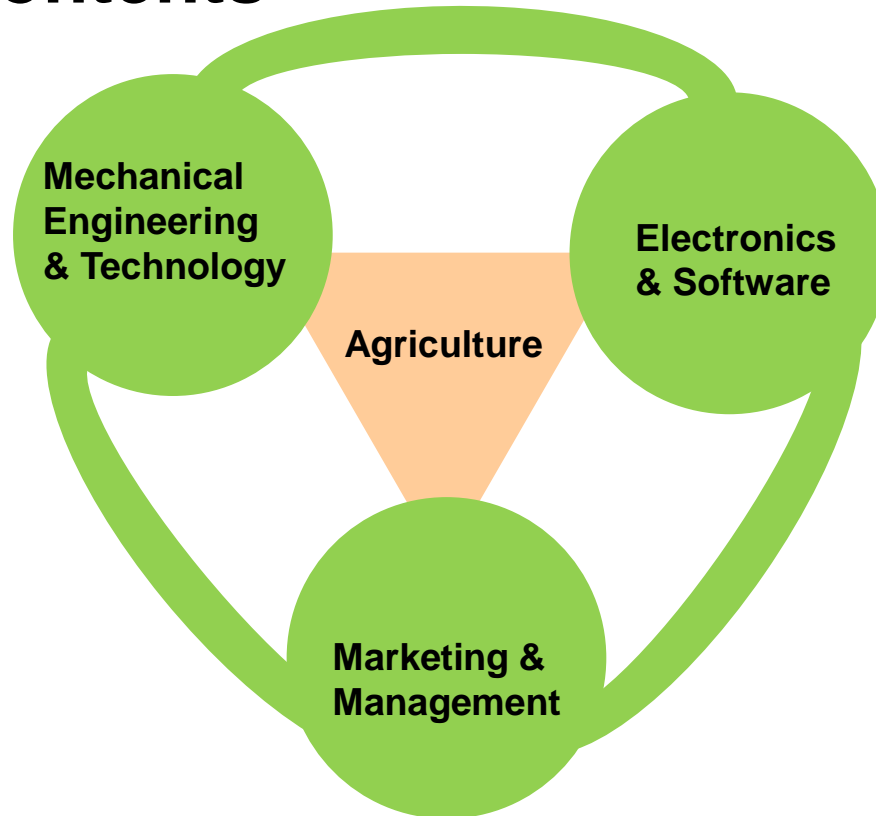
- working in development
- field testing
- introduction of new agro-technical offers
- technical testing
- research

## 4. Communications

- Technical Press
- Public Relations



# Study contents



# Course of studies (dual-study)

## Advantages of the dual-study programme Agricultural Engineering

- very high level of practical experience
- early attachment to potential employers
- excellent job opportunities
- continuous remuneration from the 3rd/4th semester onwards

BACHELOR'S DEGREE COURSE	1 <sup>st</sup> semester 01.10. – 14.02.	APPLICATION AT COOPERATING COMPANY
	2 <sup>nd</sup> semester 15.03. – 31.07.	
	2 month practical*	PRACTICAL
	3 <sup>rd</sup> semester 01.10. – 14.02.	
	1 month practical	
	4 <sup>th</sup> semester 15.03. – 31.07.	
	5 <sup>th</sup> semester = practical semester 01.08. – 28.02. 7 month practical	
	6 <sup>th</sup> semester 15.03. – 31.07.	
	2 month practical	
	7 <sup>th</sup> semester 01.10. – 14.02.	BACHELOR'S THESIS IN COMPANY
ACADEMIC QUALIFICATION: BACHELOR'S DEGREE	2 month practical*	

# Our cooperation partners for internships



# Requirements for the study programme

- A-Levels (German Gymnasium or equivalent)
- Advanced Technical College Entrance Qualification (Technical Secondary School)
- Subject-related Higher Education Entrance Qualification (Secondary Vocational School)
- under certain conditions also:
  - Master craftsman (farmer, winemaker, animal keeper, animal farmer)
  - State certified technician for agriculture
  - State certified economist for (organic) farming
  - Journeyman with work experience
- 6 weeks preparatory internship
- Restriction on admission!

# Application

- Apply for HSWT until **15 July** online at:

**<http://www.hswt.de/studium/bewerbung.html>**

- Begin of study only in the winter semester (01 October)

- Further information and addresses:

- **<http://www.hswt.de/studium/studiengaenge/at.html>**

- Student advisory service:

Prof. Dr. Hariolf Kurz

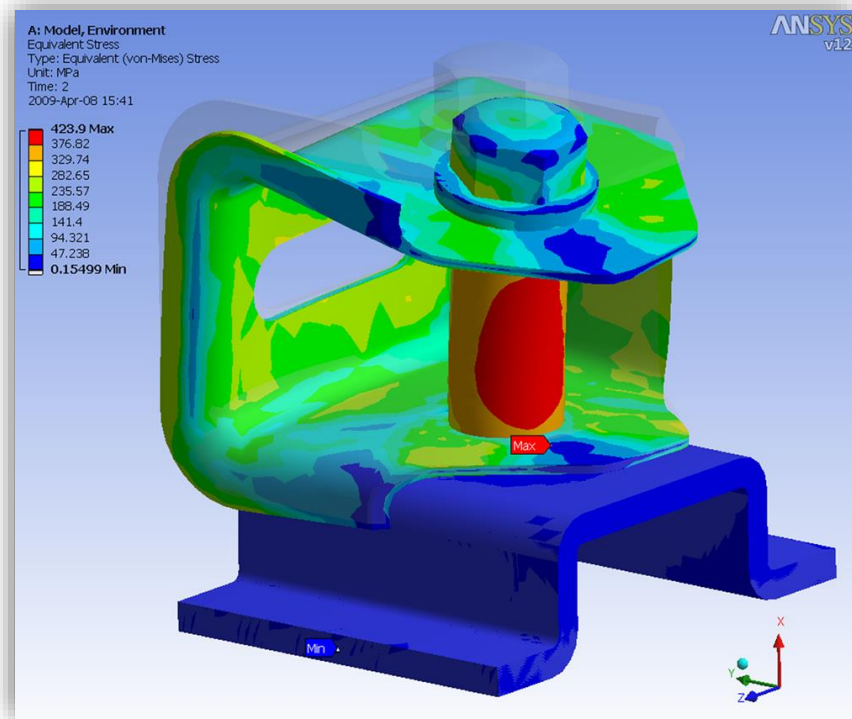
Tel: 09826-654 244

email: [hariolf.kurz@hswt.de](mailto:hariolf.kurz@hswt.de)

# Why Triesdorf?

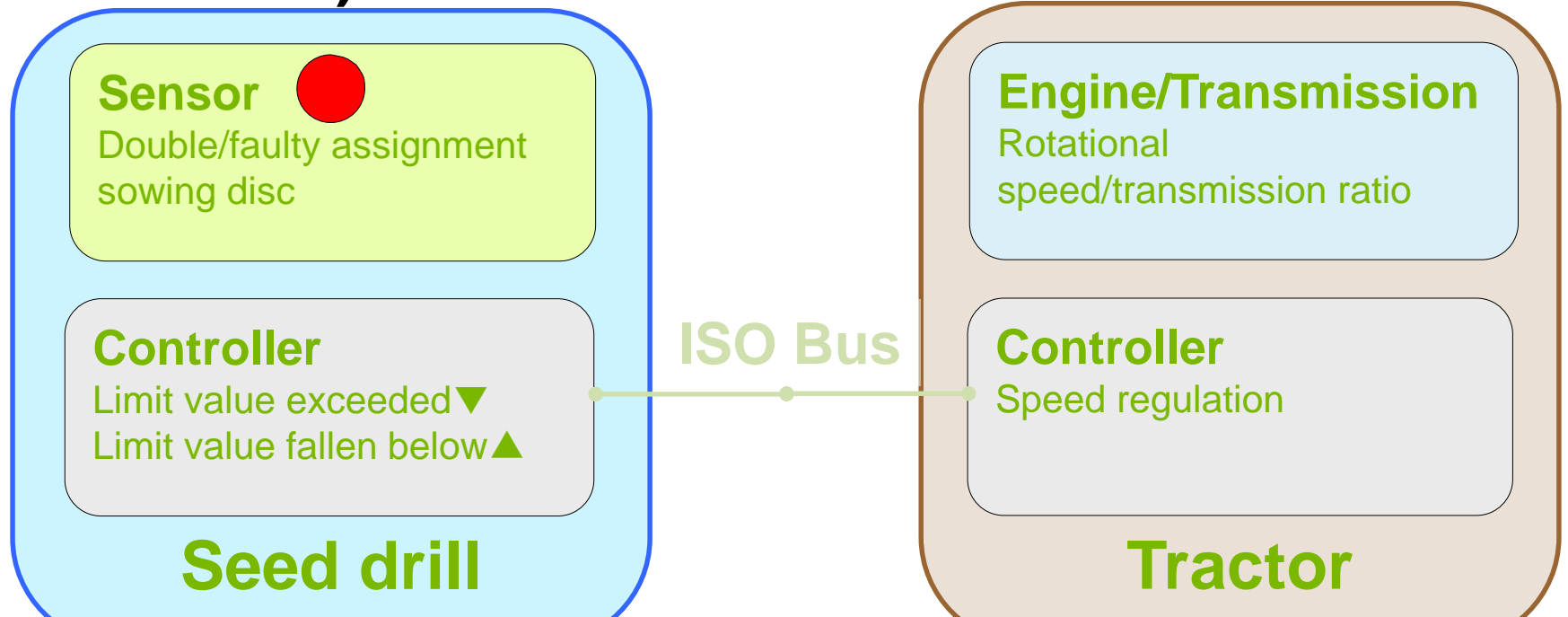
- **Training Centre** for Agriculture, Nutrition and Environment which is **unique in Europe**, ca. 3000 pupils and students
- The **proximity of several training institutions** creates synergy effects (e.g. land machinery school, test material, seed breeding):
- „Performance through networking“
- Graduates from Triesdorf have **excellent opportunities on the job market!**
- **Short duration of studies** and **low drop-out rate!**
- Low **cost of living**
- Attractive **leisure offers**

# FEM Simulation – Load analysis



Source: <http://blog.gergelytakacs.com/post/15564795621/learning-ansys>

# Example TIM: Device steers tractor (company Horsch)



16 km/h instead of 14 km/h, 6m distance: **550 ha instead of 500 ha** Maize sowing at 20% Turnaround time



# Sensor system in agriculture



Laser



Camera

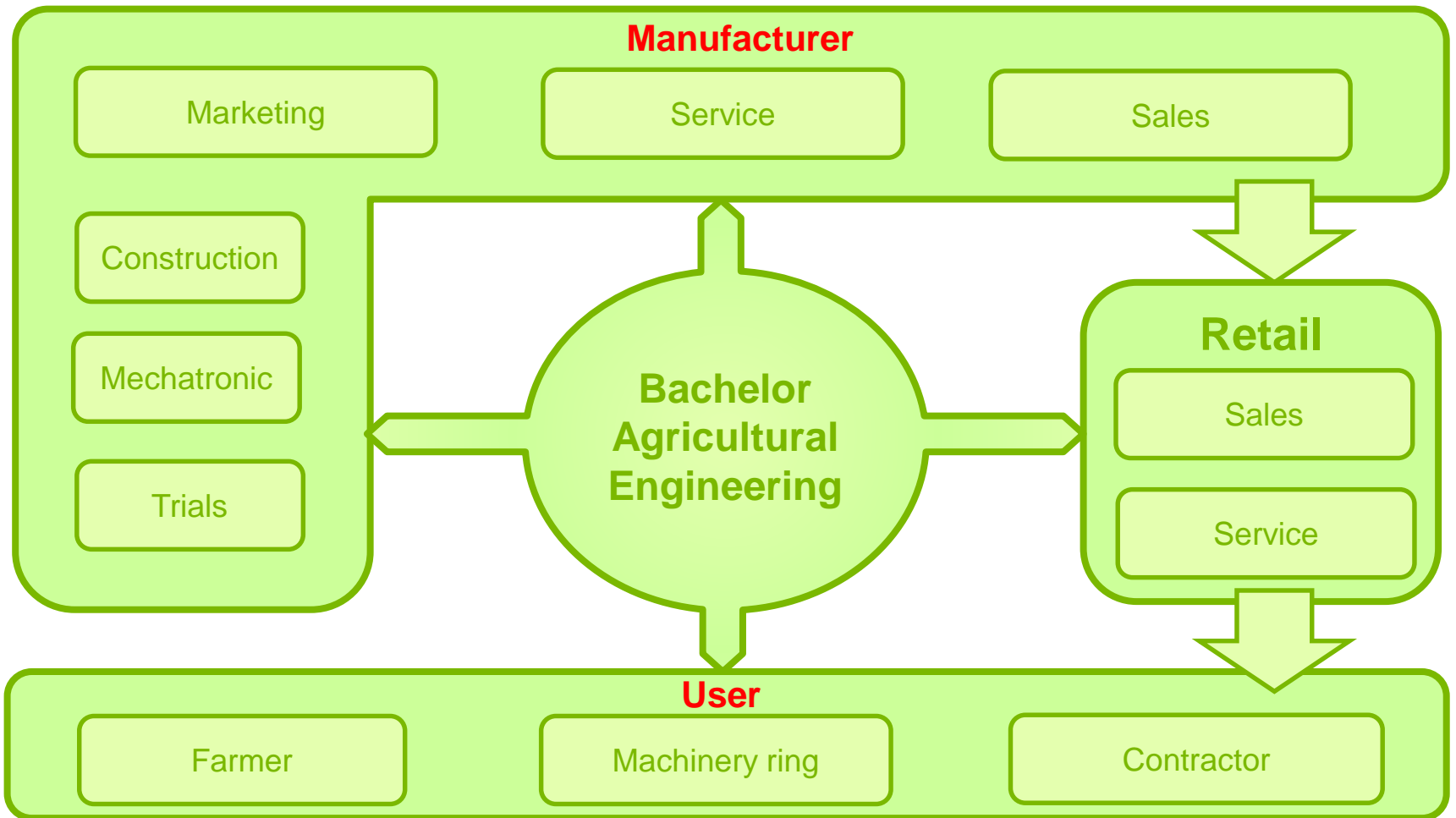


Spectral



Ultra sound

[claas.com](http://claas.com), [norac.ca](http://norac.ca), [thtechnology.co.uk](http://thtechnology.co.uk), [fendt.com](http://fendt.com)





**WEIHENSTEPHAN · TRIESDORF**  
University of Applied Sciences

**Thank you for your attention.**

*Applied Sciences  
for Life*