



Universität für
Bodenkultur Wien



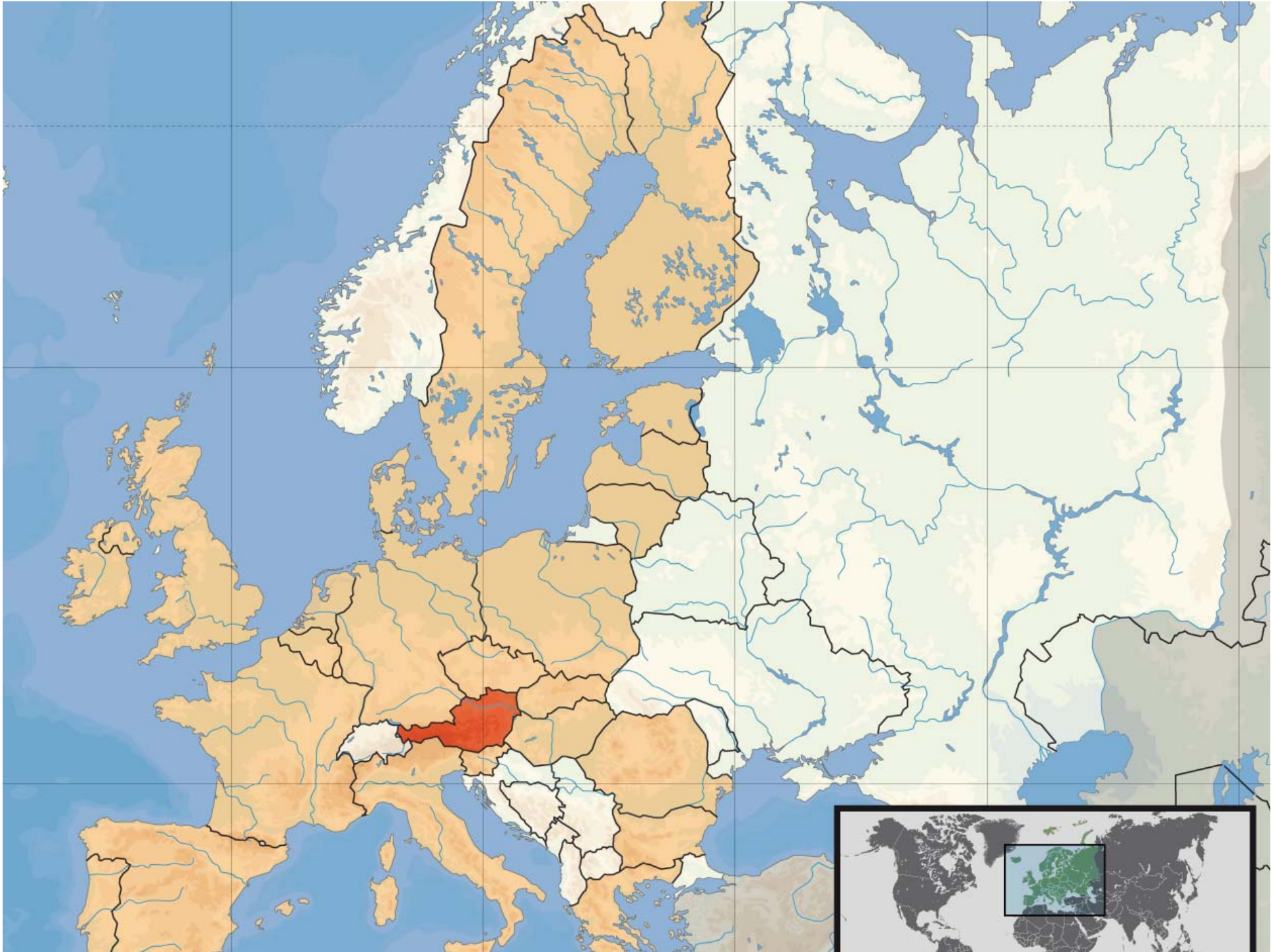
Material Science & Processes

Universität für Bodenkultur Wien
Department für Materialwissenschaften
und Prozesstechnik

Forest Products Education and Training in Austria

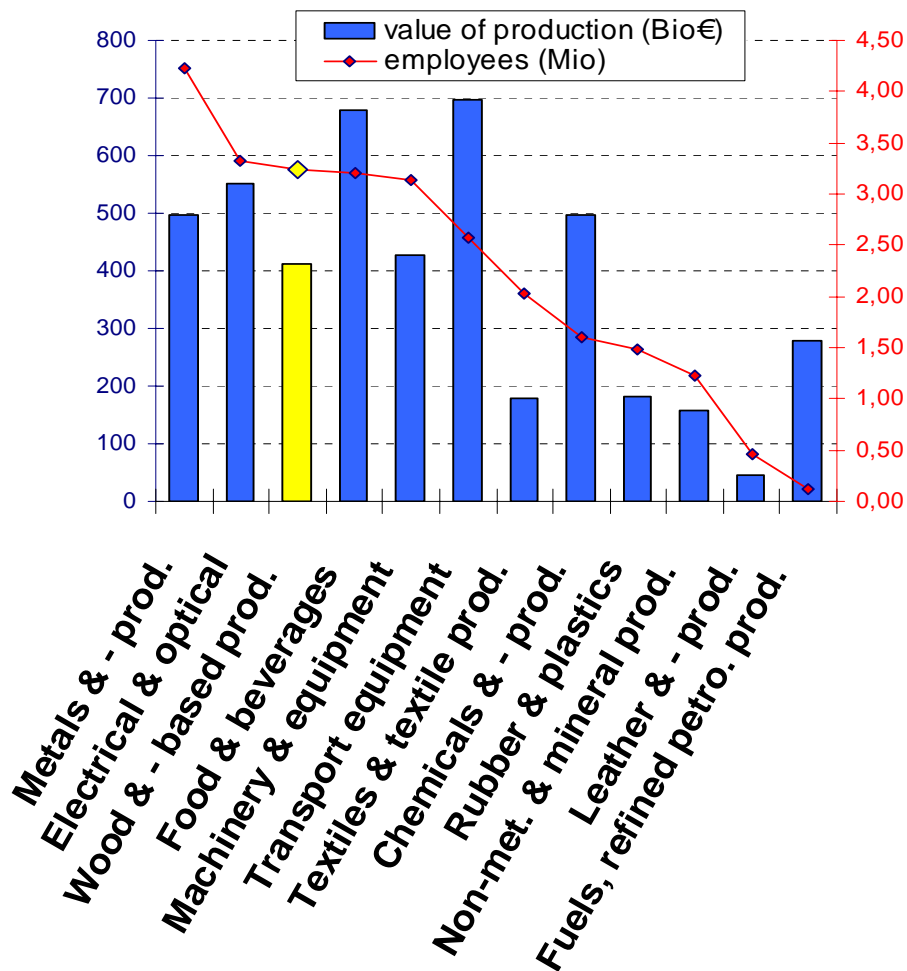
Alfred Teischinger, Rupert Wimmer
Universität für Bodenkultur/BOKU Vienna





The forest-based sector Austria/ Europe

Industrial sectors EU(15) 2001



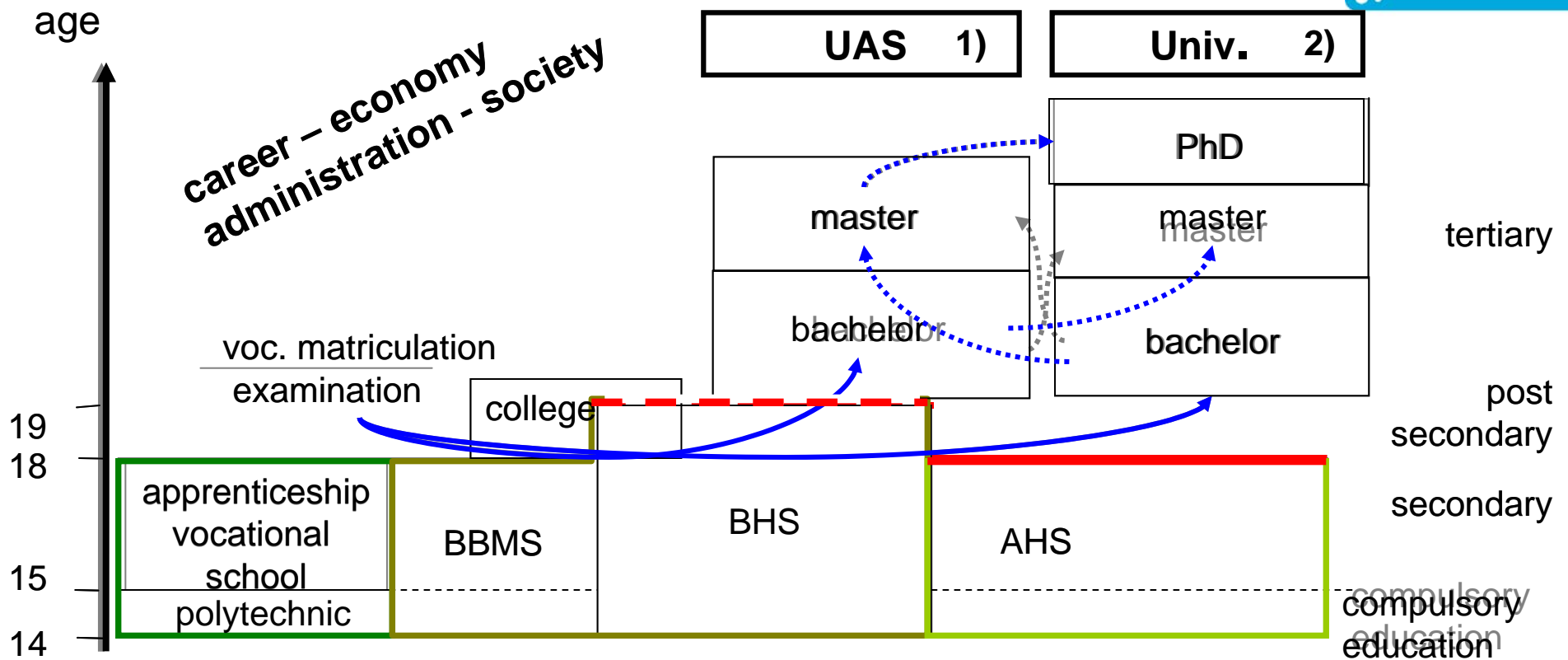
Europe:

24% of the territory
 3rd in employment: 3.5 million persons
 12 million forest owners
 Production value: ~ € 400 billion
 Share of EU-manufacturing: 8%
 (comparable to automotive, textile, food, and chemical industries)

Austria:

47% of the territory
 Employment: 250,000
 Production value: € 10 billion
 Contribution to GNP: 4.3%
 Export rate: 70%
 Export surplus: € 3.31 billion
 (about same as tourism)

Structure of secondary and tertiary education



- BBMS medium-level secondary technical and vocational college
- BHS higher-level technical and vocational colleges
- AHS academic secondary school
- matriculation a. diploma exam
- matriculation exam

- 1) University of Applied Sciences
- 2) University

Universities

- **Wood and Natural Fibre Technology**, materials and processes, BOKU Vienna
- **Pulp and Paper Technology** (process engineering), University of Technology, Graz
- **Structural Design in Wood** (incorporated in Civil Engineering and Architecture at following Universities)
 - University of Technology, Vienna
 - University of Technology, Graz
 - University Innsbruck/Civil Engineering
- **Bioenergy**, University of Technology, Vienna

Universities of Applied Sciences (UAS)



- Wood Technology and Design with Wood, UAS – Salzburg
- Civil Engineering courses in **structural design in wood**, offered by various UASs

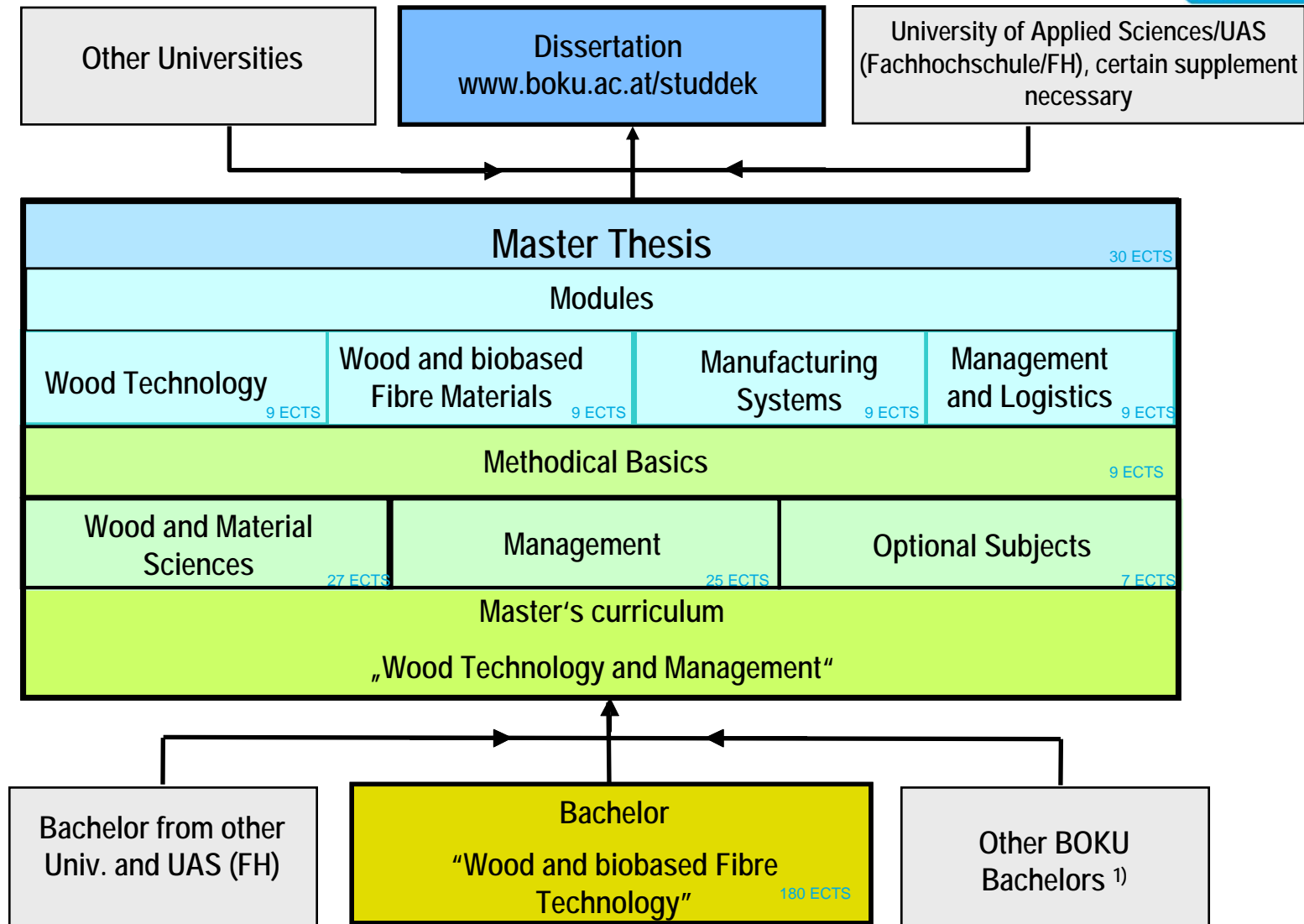
The Bologna Jungle



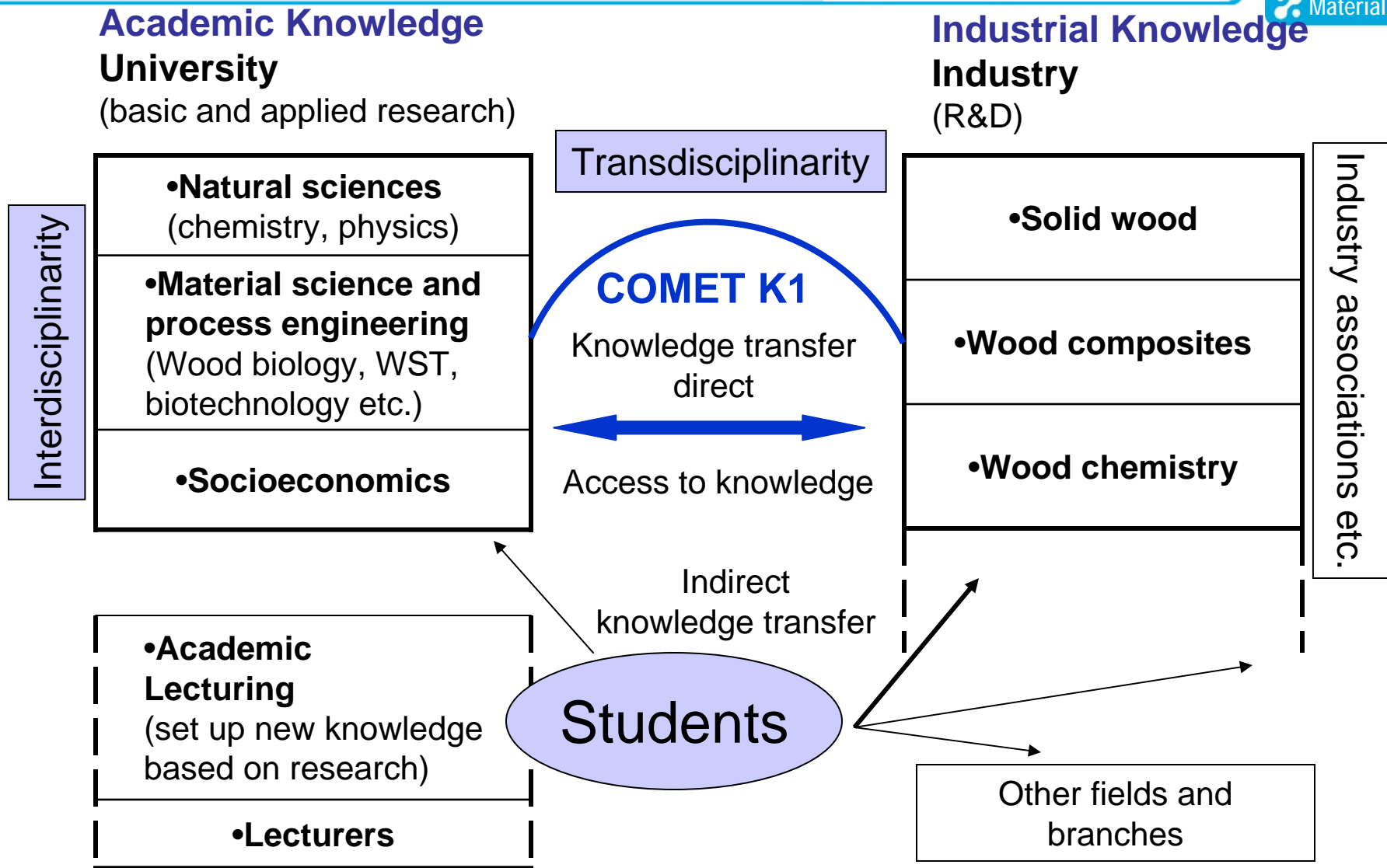
Austria: 6 (BA) + 4 (MA) semester model

- Bachelor UAS: berufsausbildend
- Bachelor Univ.: berufsqualifizierend
- Master UAS: vocational, applied
- Master Univ.: research driven lecturing
- Dissertation: scientific work xxxx

Structure BOKU Curricula „Wood & Fibre



Bridge to industry through the Competence Centre COMET K1



Post graduate training on the rise

Recently initiated „post graduate courses“:

- **Structural Design in Wood** (Urban Wood, Modern Wood („überholz“), Sustainable Wood etc.)
- **Renewables Based Technologies** (NAWAROS)
- **Renewable Energy**
- **Management in Wood Industries**
- **Pulp and Paper Technology**

Significant changes affecting education

- Environmental awareness
- Bio...Bio-based, bio-degradability, biotec..
- Nano..Nanomaterials, nanocoating,..
- Wood and other materials
- Composites on the rise
- Language skills, internationality, soft skills
- Entrepreneurship, (project) management

...so today we have

- More programs than ever
- More places offering education than ever
- More students than ever
- More graduates than ever
- More publications than ever
- More industry cooperation than ever
- More money than ever
- More future than ever

