

Curriculum Design and Career Opportunities at the School of Forest Science and Resource Management



29.08.2007

SILVA Network Annual Meeting 2007, Freiburg:
Enhancing the attractiveness of the European forestry education

Curriculum Design and Career Opportunities

at the School of Forest Science and Resource Management

- Employability as factor of attractiveness
- The changed occupational image of a forester
- Adaptation of the curriculum
- Example: Sustainable Resource Management

“What’s the use of studying forestry at a specific university“?



Attractiveness as a matter of ...

relevance of subject

reputation

location

costs

service

campus

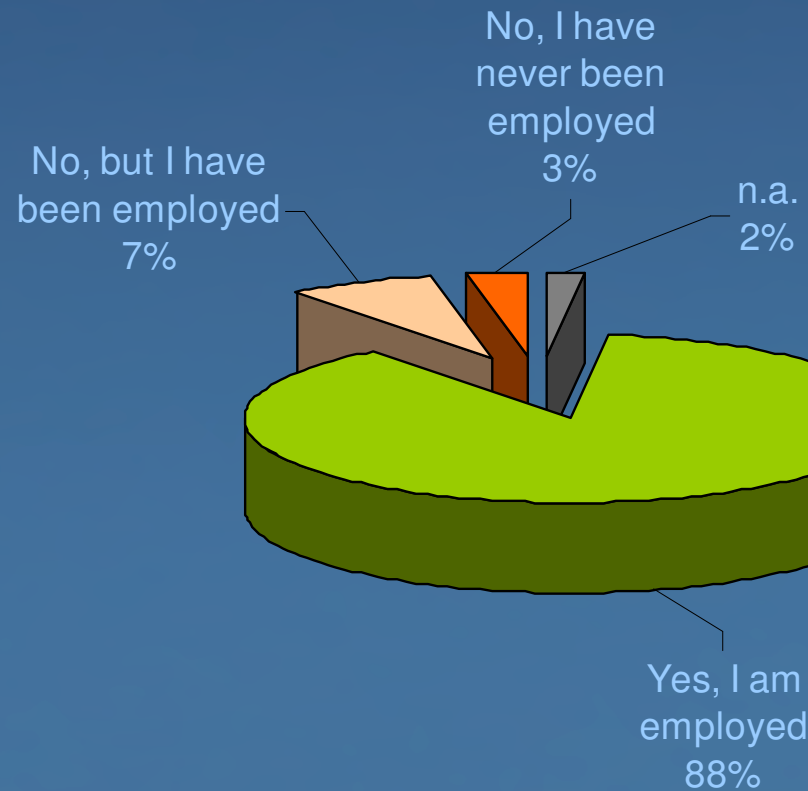
curriculum

personal preferences

employability



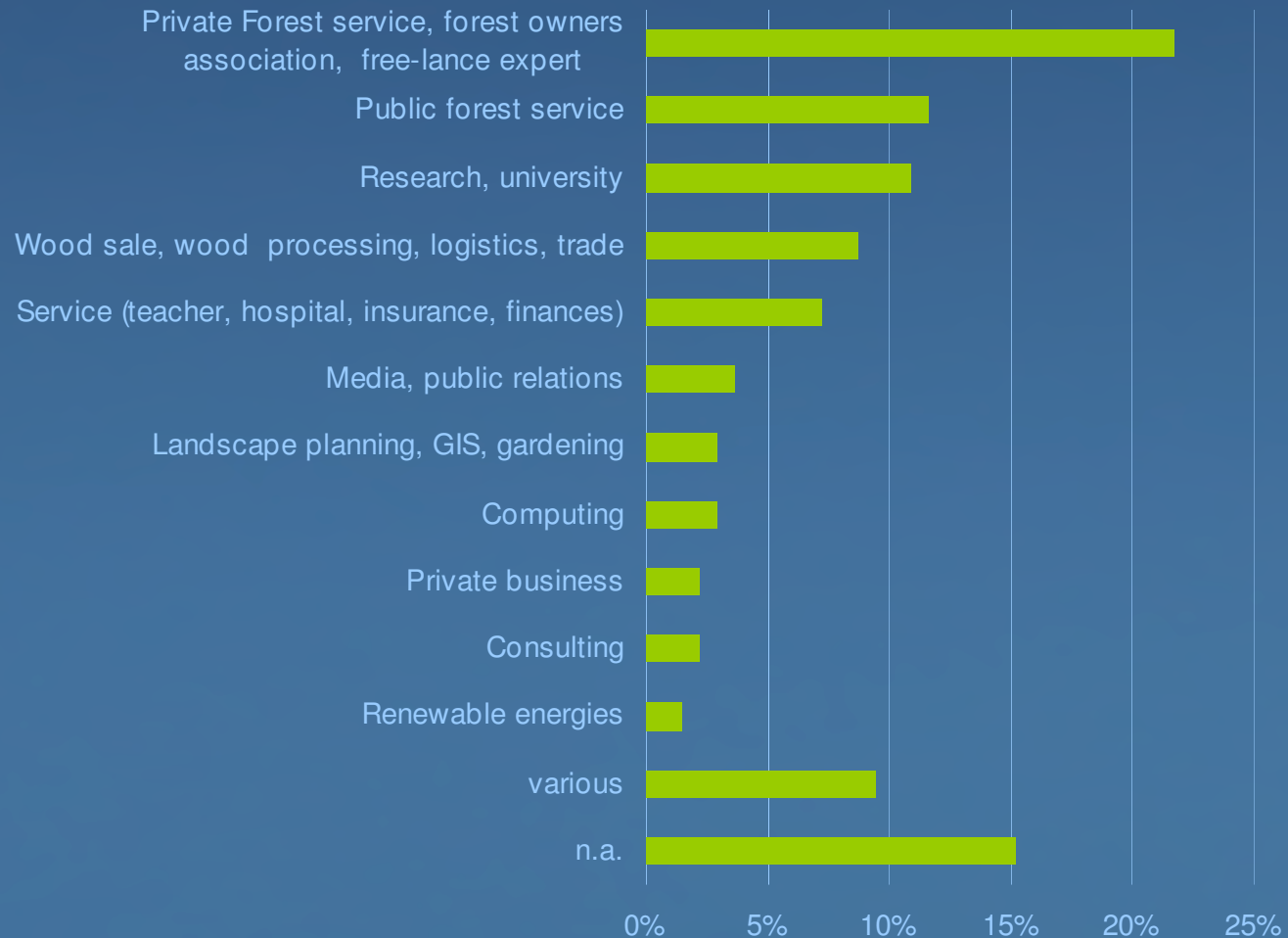
Are you employed at the moment? (N=157)



How to increase employment rate?

Survey among graduates of the Diploma programme Forest Science TU München (2006)

Which branch are you currently working in? (N=138)



Survey among graduates of the Diploma programme Forest Science TU München (2006)

The diverse occupational image of today's forester

(Sprossmann, 2001; Krott, 2001; Utschig und Kukuk, 2005)

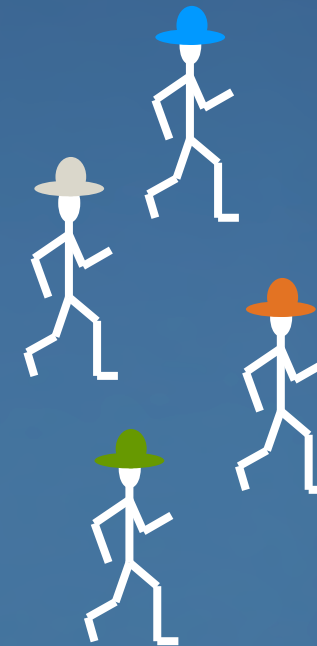
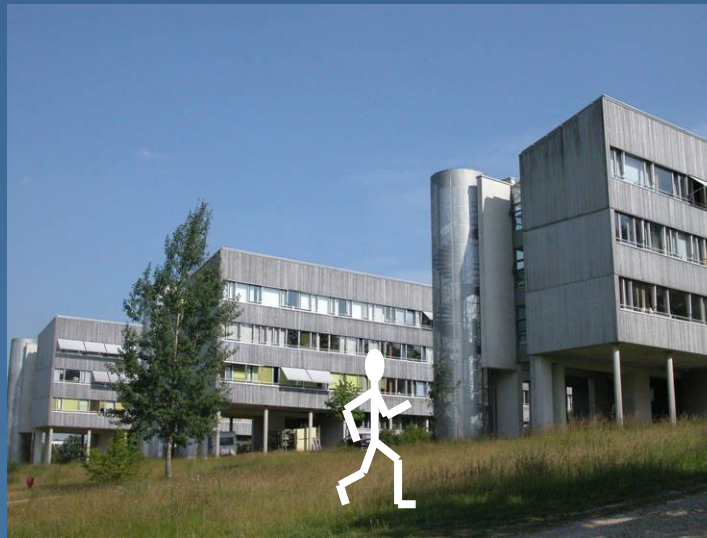


- **Public forest service**
- **Private forest service**
- **Other public authorities**
- **Nature conservation**
- **Wood industry**
- **Research**
- **International relations**
- **Regional planning**
- **Energy industry**



Adaptations to
forestry
programmes

Diversifying the established



Guiding principles for new curricula ...

Diversifying...

internationality

interdisciplinarity

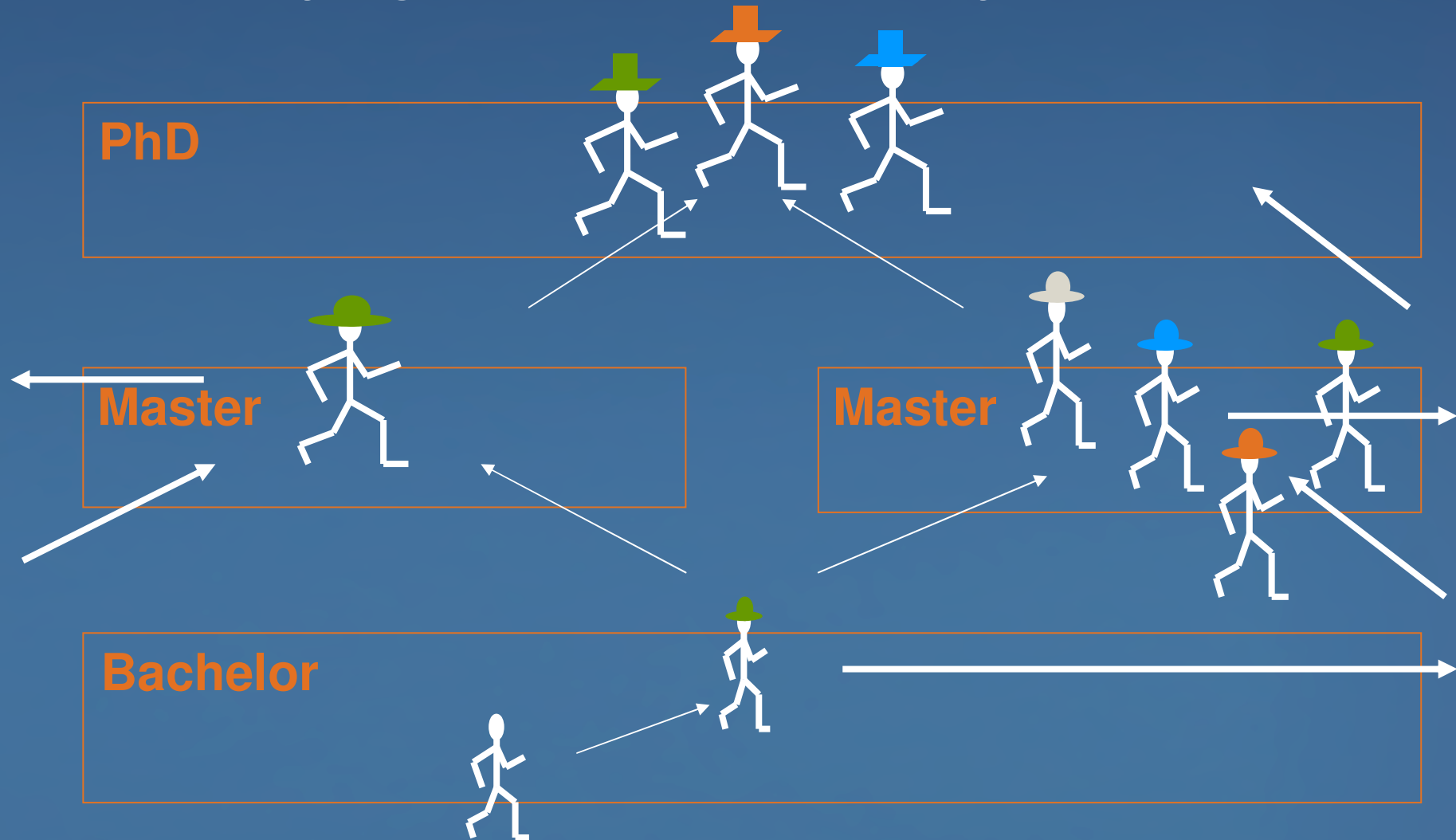
...the established

specialized generalists

sustainability



Diversifying: Bachelor/master system



Diversification: Bachelor/master system

PhD

interdisciplinarity

internationality

Master

Master

specialized generalists

Bachelor

sustainability

Study programs in München

PhD

**Sustainable Management
of Environment and Resources** (German/English)

Master

**Forest and Wood
Science** (German)

Master

**Sustainable Resource
Management** (English)

Bachelor

Forest Science and Resource Management
(German)



Master Sustainable Resource Management

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Master Sustainable Resource Management

Diversifying...

International subject matter

International students

Diverse degrees admitted

New areas of specialization

Focus on soft skills/key qualifications

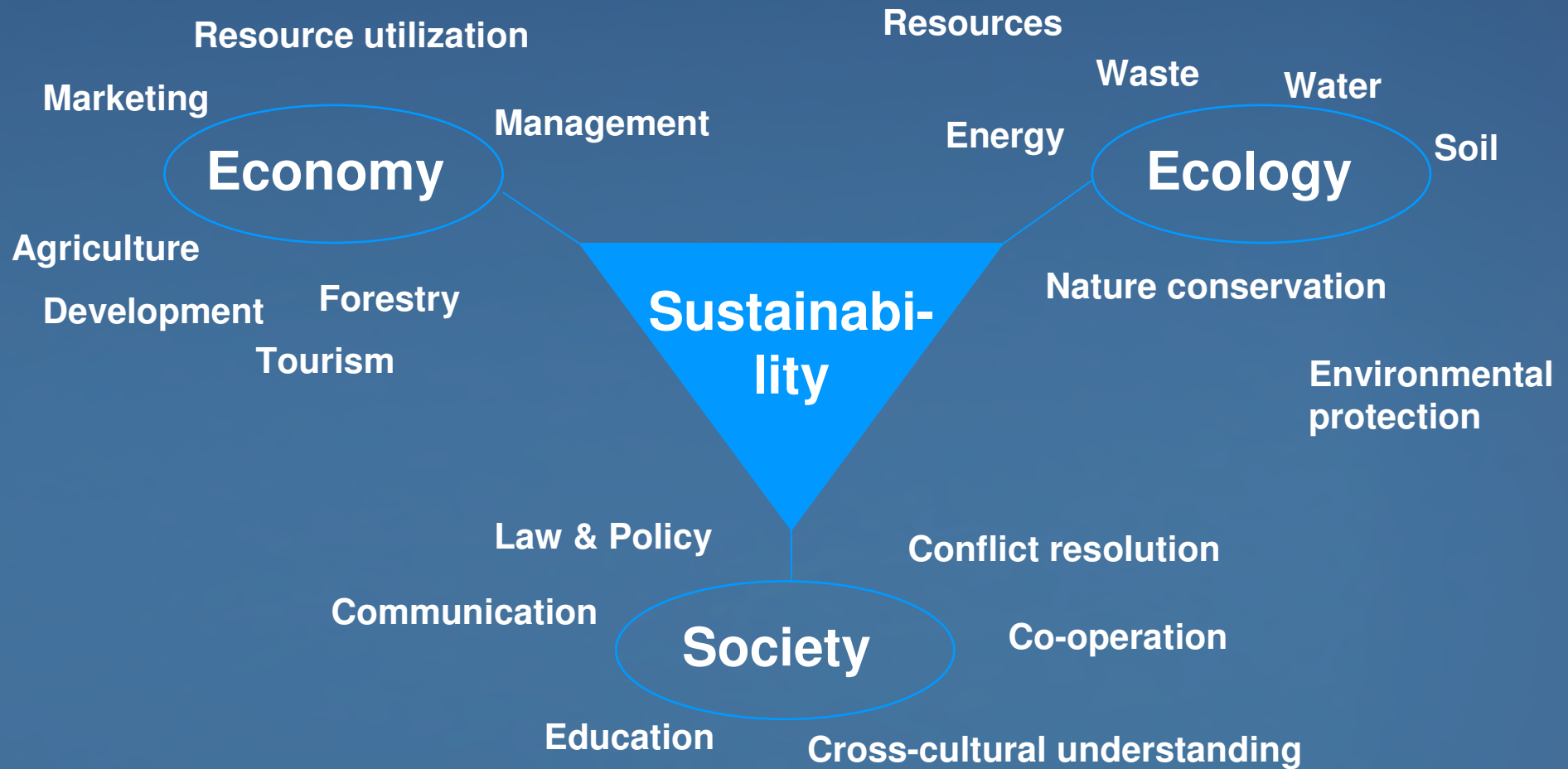
... the established

Management approach

Systems thinking

Sustainability as core principle

Master Sustainable Resource Management: Curriculum design



Master
Sustainable Resource Management: Curriculum design



Master Sustainable Resource Management

4 Summer	Master's Thesis					
3 Winter					Internship	
2 Summer						
1 Winter						

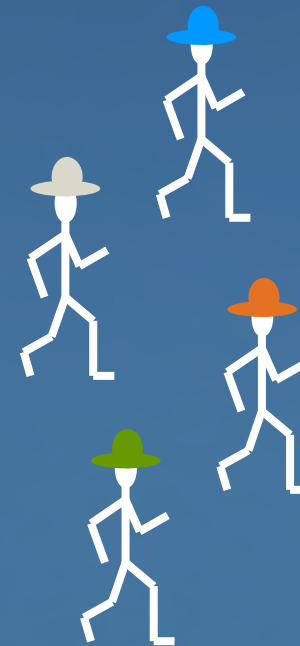
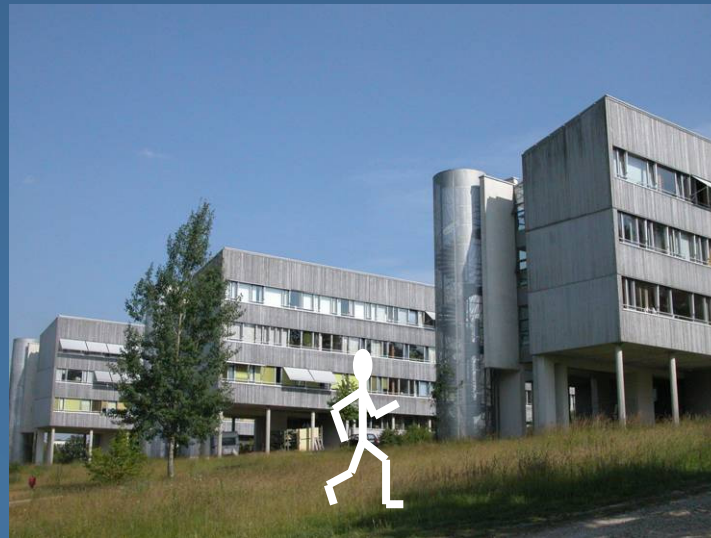
Compulsory module (basic concepts, methods, soft skills)
 Optional module (from 2 out of 8 elective fields)

Each module comprises a workload of 5 ECTS, each semester 30 ECTS

Degree:

**Master of Science (MSc)
in Sustainable Resource
Management**

Master Sustainable Resource Management



Master Sustainable Resource Management: Graduates



Rita from Nepal, Program Manager for SAMADHAN (Community Based Disaster Risk Management) Project, Dhanusha, Nepal:

"... you made us so capable to face the interview and all the challenges on how to make the personality bold to be a manager."

http://www.forst.wzw.tum.de/htdocs/srm_graduates.php

Master Sustainable Resource Management: Graduates



Feng Wei from China, Officer at the China Monitoring Center of Soil and Water Conservation in the Chinese Ministry of Water Resources, China:

"I found the experience in Freising helped me much in finding the job I am working in now. Thanks Freising, thanks to all the members of Sustainable Resource Management."

http://www.forst.wzw.tum.de/htdocs/srm_graduates.php

Master Sustainable Resource Management: Graduates



Nivedita from India/Germany, Environmental Consultant at WSP Environmental in Dubai, United Arab Emirates:

"The SRM course gives us a good taste of what is out there in the environmental/resource management field and provides the necessary "soft skills" which are essential to every person's career."

http://www.forst.wzw.tum.de/htdocs/srm_graduates.php

Master Sustainable Resource Management: Graduates



Annette from Germany, Energy Efficiency Campaigner at Greenpeace Switzerland:

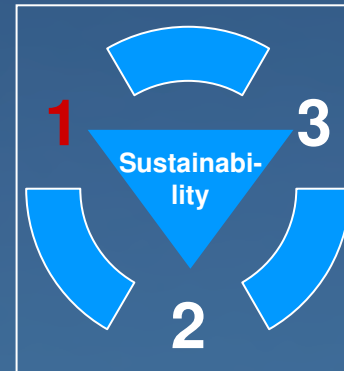
"... It's the combination of professional education on the one hand and learning about as well as applying the essential soft skills on the other hand which the SRM course provides and enabled us to start in the working life as Resource Manager. Especially what I learned about project management and communication helps me now to lead a project or a campaign from the start to the end."

http://www.forst.wzw.tum.de/htdocs/srm_graduates.php

Literature

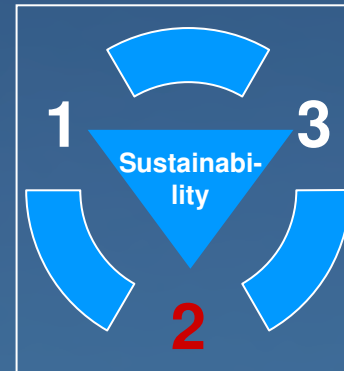
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Compulsory modules: Management Skills (1)



- Management of Human-Nature-Technology Systems
- Systems Analysis and Inventory Methods
- Project Management
- Environmental and Natural Resource Economics
- Information Management and Scientific Writing

Compulsory modules: Social Competences (2)



- Professional Communications
- Presentation
- Foreign Language
- Human Dimensions in Resource Management

Optional modules: Natural Sciences (3)

- **Landscape** Management
- **Renewable** Resources
- **Water** and **Soil** Management
- Sustainable **Agriculture**
- Management and Protection of **Forest** Ecosystems
- **Wildlife** and Protected Area Management
- Material and **Waste** Management
- Resource and Environmental **Economics**

