

WWF

WWF Switzerland

Agenda

- Introduction round
- Topics relevant to sustainability
- Learning objectives and competencies
- I. Work on your own course and exchange
- Appropriate teaching/learning approaches
- II. Work on your own course and exchange
- Consideration of the students' perspective
- Consideration of the perspective of practice partners
- Integration level
- III. Work on your own course
- IV. Questions and Closing round







Study program:

Course/module:

- Topics relevant to sustainability:
- Learning objectives and competencies:
- Appropriate teaching/learning approaches:
- Consideration of the students' perspective:
- Consideration of the perspective of practice partners:
- Scope and Integration level:

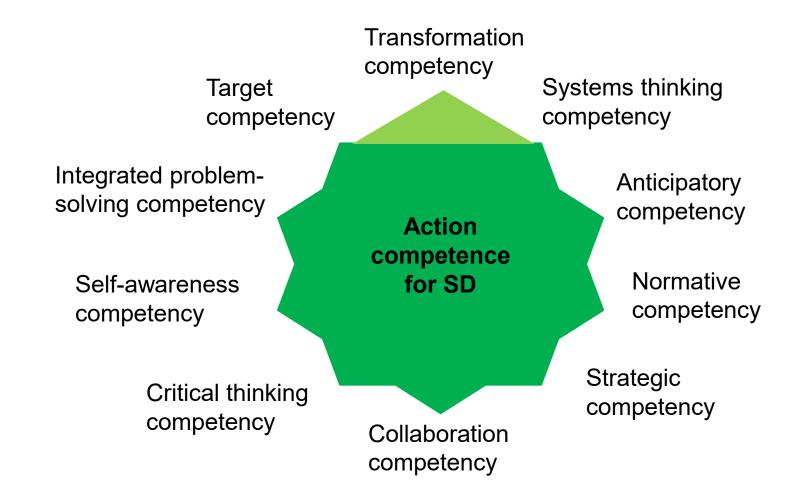
Sustainability relevance – select one or two topics



- Reference to one or more SDGs?
- Relevant for the future?
- Controversial topic or difficult dilemmas?
- Relevant for the professional future of students and the non-university world?

Select one or two key competencies





Source: UNESCO (2017): https://unesdoc.unesco.org/ark:/48223/pf0000247444 and after Wülser et al. (2011): file:///C:/Users/szy/Downloads/Wuelser_et-al_2012_Framework.pdf

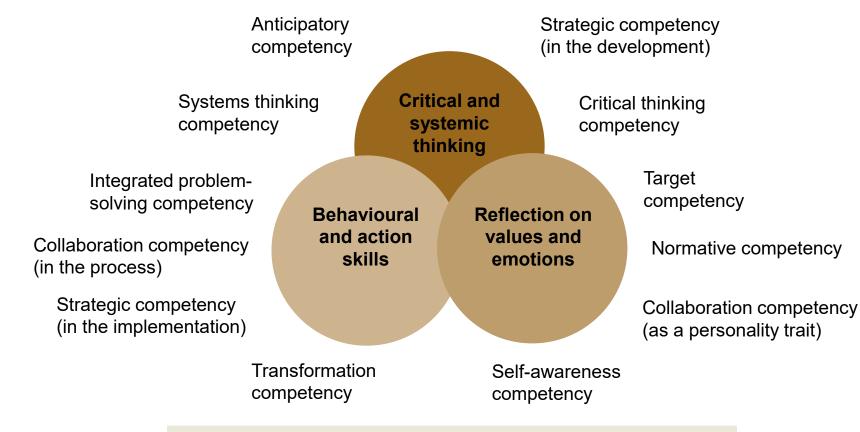
Work on your own course Step I



- Topics relevant to sustainability
- Learning objectives and competencies

Assignment to a competence area

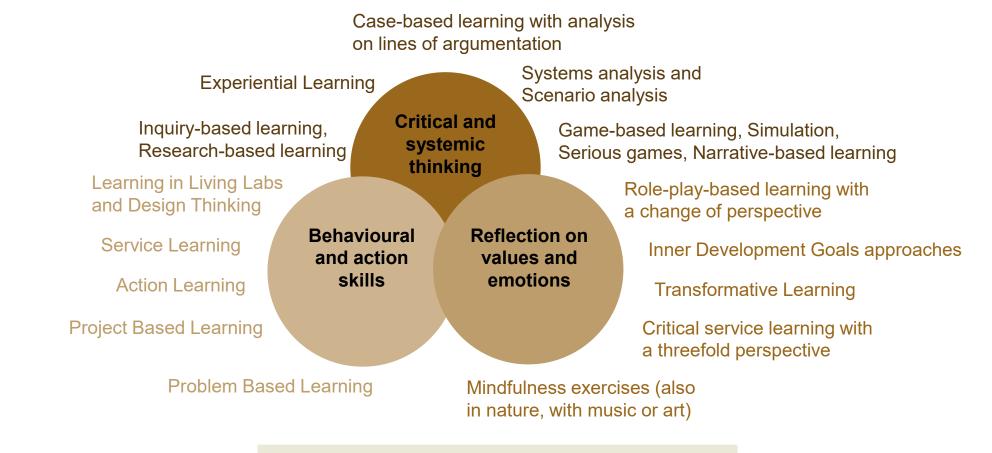




To simplify matters, the ten key competencies can be assigned to three areas of skill. These correspond to the core of the UNESCO outcome dimensions (cognitive, socio-emotional, behavioral).

Select a teaching and learning approach





! Teaching and learning approaches often promote several areas of skill. The assignment only means that one learning approach is particularly suitable. !

Overview: Competencies and teaching and learning approaches



Teaching/learning approaches to promote critical and systemic thinking Systems thinking competence Anticipatory competence Strategic competence Critical thinking competence	 Inquiry-based learning, Research-based learning Experiential Learning Case-based learning with analysis on lines of argumentation Systems analysis and Scenario analysis Game-based learning, Simulation, Serious games, Narrative-based learning
Teaching/learning approaches to promote reflection on values and emotions Normative competence Collaboration competence Self-awareness competence Target competence	 Role-play-based learning with a change of perspective Inner Development Goals approaches Transformative Learning Critical service learning with a threefold perspective Mindfulness exercises (also in nature, with music or art)
Teaching/learning approaches to promote action skills for sustainable development Strategic competence Collaboration competence Integrated problem-solving competence Transformation competence	 Problem Based Learning Project Based Learning Action Learning Service Learning Learning in Living Labs and Design Thinking (also for Start-up foundation, Socio-political engagement, and other real-world projects)

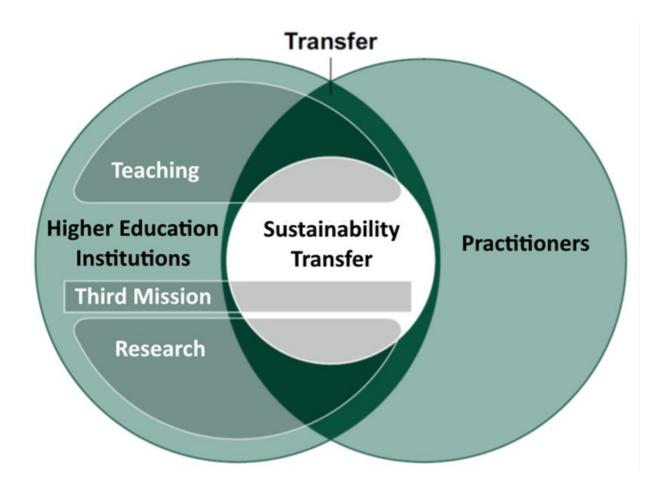
Work on your own course Step II



• Appropriate teaching/learning approaches

Transdisciplinarity: Third Mission and sustainability transfer





Third-Mission-Philosophy: benefits for all



Students

- Promotion of specialized knowledge and action skills
- Expansion of the personal network
- Reference for the CV
- Experience of self-efficacy and fun in learning together

Higher Education Institutions

- Practice-oriented teaching/learning methods
- Networking and joint learning with practice partners
- Practice-relevant research questions
- Image promotion

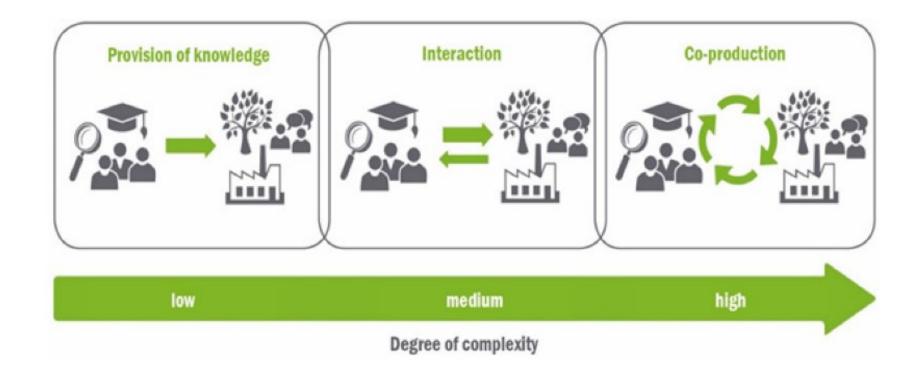
Practice Partners

- Project support by the students
- New ideas and approaches by students
- Access to academic expertise
- Future volunteers or employees



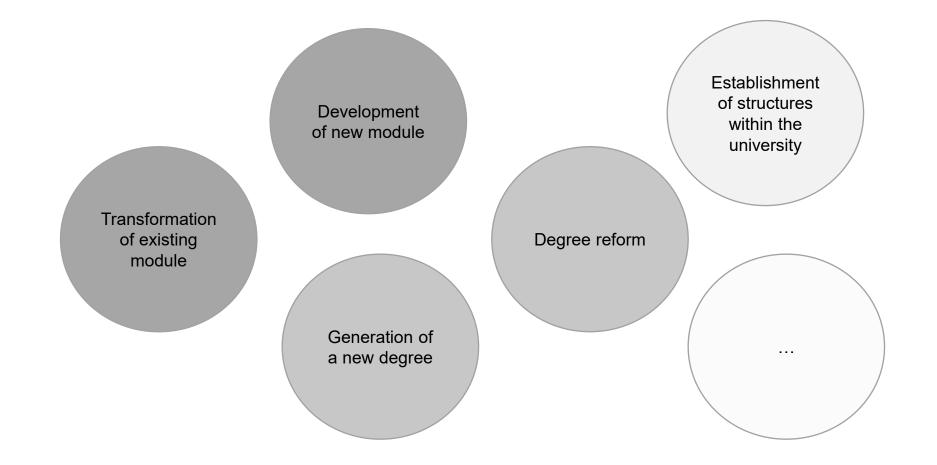
Transdisciplinarity – complexity of collaboration





Transdisciplinarity – scope of project and transdisciplinarity





Transdisciplinarity – level of ESD-integration



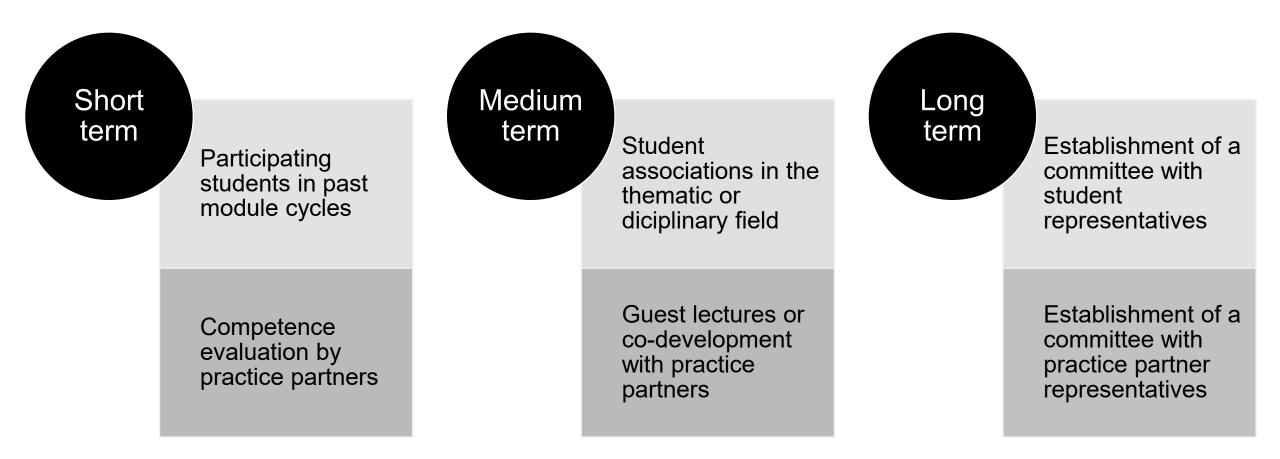
No Integration: ESD is not integrated into the study programme

Add on: ESD is added to the existing study programme, without substantial change to the study programme Weave Through: ESD is integrated into the existing study programme in a way that substantially changes the study programme. ESD is fully weaved through the whole content of the programme and is not viewed in an isolated way **Built in**: ESD as a whole concept is totally implemented into a study programme. There is a reorientation of existing content and approaches to benefit sustainable development

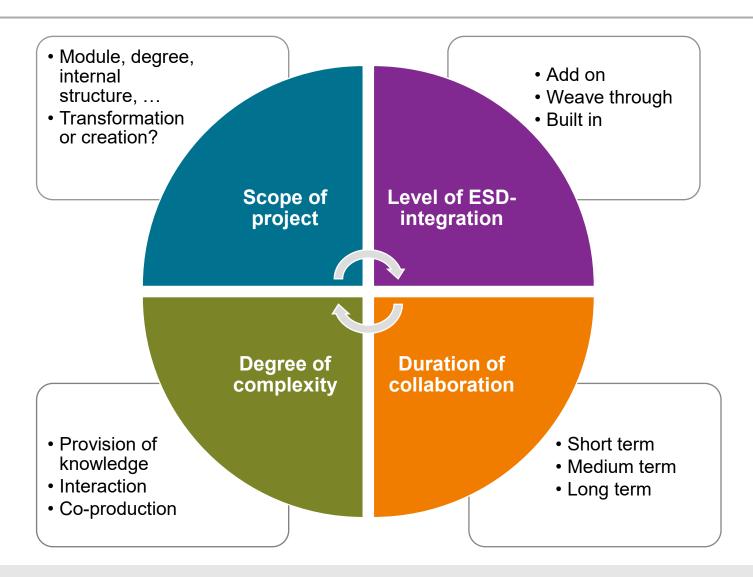
https://wiki.dg-hochn.de/images/4/4c/Hoch-n-leitfaden-lehre-2020-neu.pdf

Transdisciplinarity – duration of collaboration





Summary: Opportunities to involve students and practice partners at eye level



Work on your own course Step III



- Consideration of the students' perspective
- Consideration of the perspective of practice partners
- Scope and integration level

Collaboration with non-academic players



Established organizations can be helpful for longer-term cooperation with non-university stakeholders: they have a lot of experience in the practical field, can help develop projects and arrange suitable local practice partners. Some competent and committed organizations for cooperation:

- For collaboration with students: <u>Focus Sustainability</u>, <u>VSS-UNES-USU</u> or local student associations
- For collaboration with start-ups and sustainability initiatives: <u>One Planet Lab</u>, <u>Impact Hub</u>, ...
- For collaboration with civil society: ask us!



Resources: University transformation, teaching and Curriculum Change



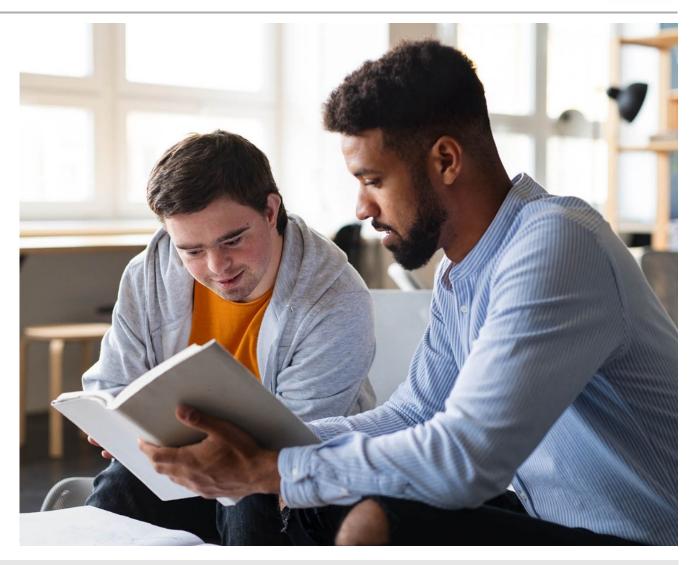
DG HochN (2022): Sustainable Development by and with Universities: Recommendations for Action

Molitor H. et al. (2024: Designing future-oriented curricula. A practical guide for the curricular integration of higher education for sustainable development. Nachhaltigkeit an Brandenburger Hochschulen

Netzwerk n: Good-Practice-Sammlung (German)

SDSN (2020): Accelerating Education for the SDGs in Universities: A Guide for Universities, Colleges, and Tertiary and Higher Education Institutions

Sustainicum Collection: Teaching Resources



Learning in Living Labs (real-world laboratories)



"Living labs are open innovation ecosystems in real-life environments using iterative feedback processes throughout a lifecycle approach of an innovation to create sustainable impact. They focus on co-creation, rapid prototyping & testing and scaling-up innovations & businesses, providing (different types of) joint-value to the involved stakeholders. In this context, living labs operate as intermediaries/orchestrators among citizens, research organisations, companies and government agencies/levels."

- Living labs are the most far-reaching approach of the "Third Mission" and an excellent learning opportunity for students.
- In the interaction and co-design process, all learners, including lecturers and practice partners.
- A wide variety of competence-promoting approaches are possible: Research-based Learning, Problem-based Learning, Project Learning, Service Learning, ...

<u>Wikipedia</u>



References to the Third Mission: Living Labs for sustainability

A few notable examples from other countries:

- MIT Office of Sustainability
- UBC SEEDS Sustainability Program
- <u>Université Grenoble Alpes Campus en</u>
 <u>Transition</u>
- <u>Universität Hamburg Kompetenzzentrum</u> <u>Nachhaltige Universität</u>
- Universität Graz RCE Graz-Styria <u>(Regional Centre of Expertise on</u> <u>Education for Sustainable Development)</u>
- <u>University of Copenhagen Sustainability</u> Science Centre
- Lund University LUCSUS
- <u>University of Manchester</u>





Contact

If you have any questions or concerns, please do not hesitate to contact us:

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