COPERNICUS Alliance Conference 2016 15 September 2016 at BOKU, Vienna, Austria

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Working towards a robust reference framework to strengthen integration of sustainable development in university teaching

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- MISSION: make sure that sustainable development is integrated in teaching at universities (as well as in research and operations)
 -> adaption of the system, not revolution
- 2. CHALLENGE: How can fundamentally *independent* faculty staff/institutions be encouraged to integrate sustainable development in their teaching when they are *overburdened* with duties, work in highly *competitive* disciplinary research environments, and face *decreasing security* of funding?
- 3. Criteria for assessing progress and increasing recognition would help! PURPOSE:
 - 1. Self-evaluation: am I on the right track as a teacher?
 - 2. Support progress in department/faculty: what steps are needed to integrate sustainable development in our curricula? and what innovative potential do these steps contain for our discipline?
 - 3. Increase recognition within the university, strengthen university's reputation: how can the added value of integration be justified within the system?

Our rationale for transformative learning and engaged science

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You're suffering from parasites; cosmetics won't be enough to cure you.



No... We need a major transformation... and change agents.

Universities prepare such change agents...

... but their current reference frameworks impede transformation.



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Four degrees of integration (see Sterling and Thomas 2006):

1) denial (*no change*)

2) 'bolt-on' approaches (education about sustainability)

3) 'build-in' approaches (education for sustainability)

4) and finally curriculum redesign (sustainable education)

- Degrees 3 und 4 require a **competence orientation** in teaching, as well as **transformative learning**.
- The dominant science paradigm built on a fact/value dichotomy and a competition model makes it difficult to adopt such an orientation; there's an increasing need for a **new understanding of science and teaching,** and for **institutional change**...
- BUT: we also need to encourage and allow for **progress at all levels**! *All* progress is welcome and constitutes a step towards transformation...
- A sound and robust reference framework can help

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- Sustainable development (SD) in University's strategy (2014-2021)
 - Performance mandates for the Faculties and Centres (since 2013)
 - Vision for education: no student should leave the University without having heard at least once about SD (but this has been communicated to all only since 2016)
 - (Required) implementation: at least 2 hours per curriculum should be devoted to SD
 - **Support:** 2 projects, using a combined top down and bottom up approach
 - Online <u>Guidelines and Tools</u> for integrating SD in teaching
 - ESD Competence-Enhancing Support for faculty staff as multipliers

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The University's Guidelines and Tools for integrating SD into teaching (*Leitfaden*)



Foundations (Grundlagen):

- Sustainable development (SD) according to the United Nations
- Tension between scientific understanding and value orientations in the university setting
- SD in research, education, and operations at the University of Bern
- Education for sustainable development (ESD) at the university level
- Educational content, skills, and appropriate teaching and learning arrangements for ESD

Special Foci (Vertiefungen):

- 1. Concepts, instruments, instructions, tips, and examples
- 2. Case studies
- 3. Further assistance (workshops, coaching, ...)
- 4. Teaching materials (slides, videos,...)



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CDE CENTRE FOR DEVELOPMENT AND ENVIRONMENT In addition to the Guidelines and Tools...

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- 4 Consultation Workshops (2014-2015)
- 1 Early Adopter Workshop (2016)
- 1 High-level workshop with deans
- 7 Coachings on demand: with deans/faculty representatives
- 3 Link Workshops

As of 2017:

- Professional development (1 module for teachers)
- Continuation of coaching and tailored link workshops
- Website with updated tools, interactive options, assessment tools,



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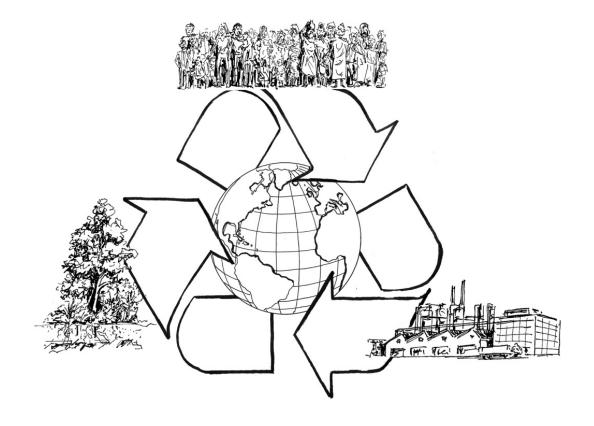
What shall do we now?



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1. Discuss criteria for self-assessment of early adopters

- 2. ... for supporting the integration process in institutions
- 3. ... for a university's monitoring + incentive system



Or do we want to achieve only one of the 3 outcomes?



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- Discuss the purpose(s) of a reference framework (10 mins)
- Decide whether 1 or 3 Outcomes
- Work on the 3 outcomes;

step 1: individual wildcards for each of the Outcomes (10 mins)
step 2: mutual organisation and negotiation of ideas (20 mins)
step 3: further examples (10 mins)
step 4: develop the reference framework together (20 mins)

- Envisage possible future collaboration (5-10 minutes)

OUTCOME 1: Criteria enabling disciplines and approaches to recognize their relation to social-ecological systems and commit to an SD orientation

OUTCOME 2: Criteria for assessing the progress of departments' reflection and implementation processes leading to integration of SD in teaching

OUTCOME 3: Criteria for institutional support of a university's monitoring and evaluation of SD orientation in teaching



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