

### Purpose and Goals of HOCH-N-Education

The UN-Decade on ESD produced a multitude of pathways for and research on integrating Sustainability in Higher Education (HESD). Yet these innovations are still localized in particular universities, programs and disciplines. Main challenges are different disciplinary cultures whose potential and openness to integrating ESD differ greatly, limited resources, and necessary capacity building for teachers.

HOCH-N-Education asks:

**How can innovative HESD be further disseminated across universities in all disciplines and educational formats?**

#### Approaches to integrating sustainability in HE

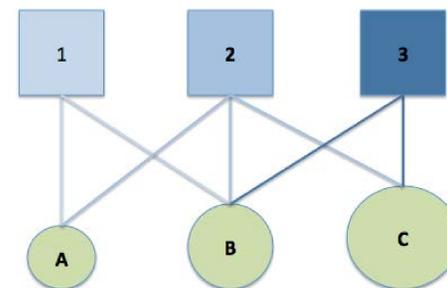
	Sustainability included as	Students opportunities	Teachers capacity building needed	Change necessary
<b>A: „Add On“ Entry level</b>	topic	exposure to SD	low	none
<b>B: „Weave Through“ Intermediate</b>	integrated in courses	engage SD as part of studies	medium	examination regulations
<b>C: „Built in“ Advanced</b>	reorienting curricula, innovative forms	comprehensive development of key competencies	high + external experts	examination regulations + institutional change

#### Educational formats for HESD

<b>1: disciplinary curricula</b> single courses or study programs focused on content and conventions of particular disciplines
<b>2: cross-disciplinary curricula</b> minors, certificate programs etc., open to students from different disciplines
<b>3: sustainability-curricula</b> sustainability-programs or disciplinary curricula with explicit sustainability focus

HOCH-N-Education offers

- a guidebook
- instruments for innovation based on empirical evidence, to foster opportunities for integrating HESD on different levels:



### An Image of Dynamic Interdependence

HESD Manifests at the Intersection of all University-Fields of Action

#### Each field contributes to HESD

**Education** develops interdisciplinary collaborations and real-world-oriented learning opportunities

**Research** offers research-based-learning, includes students in actual scientific practice

**Transfer** includes students in real-world projects; offers continuity of connections to local actors

**Governance** integrates sustainability criteria in accreditation and hiring; offers capacity building & resources

**Reporting** sets goals & indicators for HESD, and provides accountability in implementing HESD

**Operations** develops the campus as a real-world laboratory for sustainable living

#### HESD contributes to each field

HESD offers innovations in pedagogies and teaching-learning environments for all disciplines; attractive learning environments

HESD shapes innovative ideas for socially relevant research; improves mutual learning across disciplines & in transdisciplinary contexts

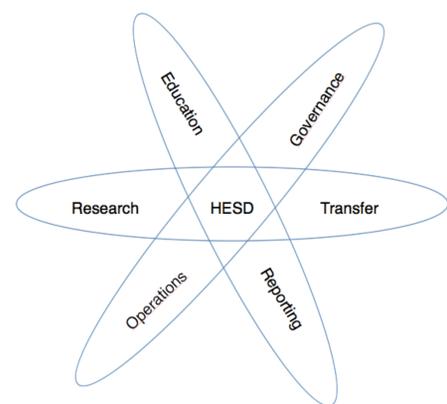
HESD provides impulses and contributions for societal innovation and functions as vehicle for transfer

HESD inspires transformation of governance structures, organizational innovation, and democratic participation in governance

HESD inspires development of reporting as transformative process and instrument for institutionalizing sustainable development

HESD provides arguments for green campus development, and collaboration with students/teachers on campus projects

HOCH-N-Education offers strategies for mutually beneficial collaborations



### A Matrix for education processes with HESD

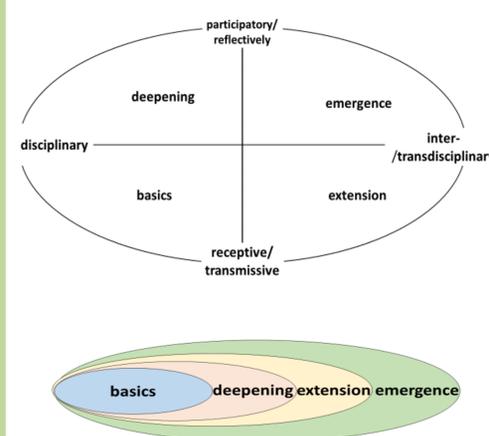
HESD Manifests in the Interplay of Different Educational Forms

- This Matrix serves as a visual-spatial representation of where and how teaching events are located in an educational “field of tension”: on the disciplinary – interdisciplinary/transdisciplinary axis, and on the receptive/transmissive – participatory/reflective axis
- The matrix visualizes both the diversity of teaching events at universities as well as the different requirements they entail
- Its function is to visualize the diversity of teaching events that contribute to HESD, and to provide a tool for assessing and creatively shape individual HESD-curricula
- The learning objectives of the individual quadrants differ in their goals and their modes of teaching and learning, knowledge transfer and –production
- All four quadrants have different requirements for teachers and students

- **Basics:** This form of knowledge transfer is predominantly disciplinary-receptive and serves to provide students with foundational knowledge in their discipline
- **Deepening:** Characteristic of this quadrant is the active learner, the participatory teaching-learning relationship is to be understood as a continuum
- **Extension:** The aim is to train students who can think and communicate across academic boundaries
- **Emergence:** the narrative of the knowledge hub serves as a basic description; foundations and experience in the other three quadrants are necessary to become fully fluent and productive in this quadrant

HESD-Curricula will differ in how they utilize and move across the quadrants, but they need all four.  
How does your curriculum fill this space?

Hoch-N-Education offers a Matrix for mapping transformative education



### Quality-Criteria and -Management in HESD – Orientation Guidelines

HESD seeks to enable students to participate in transformative processes towards more sustainable and just societies. To achieve this, it requires several components and an educational practice that emerges at their intersection. HOCH-N-Education develops orientation guidelines for quality criteria and -management in the process of reorienting curricula. Method: a systematic review of relevant literature, and research with best-practice universities, students, and teachers. Expected publication date: 11/2018

