Embedding Transformative Learning in HEIs and Adapting Quality Assurance – Are We Ready?

University of Glasgow, Centre for Educational Development and Innovation (CEDI):
Sustainability in Learning & Teaching Seminar Series

Anne B. Zimmermann, 31 October 2022
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COPERNICUS Alliance; Legacy17; saguf ESD Working Group

We know what the challenges of sustainable development are...

- “wicked problems”
- “VUCA”

- Challenges taken up by the global community in the 1970s after wake-up calls, and formulated as goals
  - 1987 Brundtland Report
  - 8 MDGs (1990-2015) and Rio conferences (1992 etc);
  - 17 SDGs (2015-2030);
  - UNESCO #ESDfor2030:
  - And now: the 5 IDGs
Higher education has a key role to play in achieving the SDGs

- Deliver (systemic) knowledge and understanding of volatility, complexity, uncertainty, ambiguity (VUCA)
  - Huge production of scientific articles
  - IPCC Reports
  - Global Sustainable Development Reports, etc.
- Develop warning systems, technical solutions, but also socio-political solutions, etc.
- Work at the science-policy interface

- Interact with society to serve it better
- Educate scientists, enable them to develop “sustainability competences”
  - Most recently: Green Comp (Bianchi et al 2022), 4 areas:
    1. *Embodying sustainability values*
    2. *Embracing complexity in sustainability*
    3. *Envisioning sustainable futures*
    4. *Acting for sustainability*
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What are the next steps in HE?

1. Change our understanding of science
   - Inter- and transdisciplinarity
   - Overcome the “fact-value split”
   - More self-reflexive scientists
   - Move away from commodification towards “commonification” (Wals 2021)

2. Deliver to society in a way that is different from “knowledge transfer”
   - Science doesn’t “know best” what society needs
   - Favour knowledge co-production
   - Employability not top outcome

3. Adapt our teaching: move away from knowledge transfer (first-order learning) to an enabling approach (second- and third-order learning)
   - Empower students to learn how to learn, be self-reflexive, critical, relate to all beings, etc.
   - Empower students to become change agents
   - Create spaces for interaction with society
   - Work with students
Questions to the audience

Go to www.menti.com and use the code 4353 4275

1. Are any of these changes taking place at your universities?
2. How complete is the process of change in scientific and teaching approaches? Sterling’s scale from: (Sterling 2021, Sterling and Thomas 2006, Sterling 2011)

<table>
<thead>
<tr>
<th>Degree</th>
<th>Institution</th>
<th>Curriculum</th>
<th>Learning model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimal</td>
<td>Accommodation</td>
<td>Bolt-on (about sustainability)</td>
<td>Conformative (doing things better)</td>
</tr>
<tr>
<td>Medium</td>
<td>Reform</td>
<td>Build-in (for sustainability)</td>
<td>Reformative (doing better things)</td>
</tr>
<tr>
<td>Complete</td>
<td>Transformation</td>
<td>Curriculum redesign (as sust.)</td>
<td>Transformative (seeing things differently)</td>
</tr>
</tbody>
</table>
This is the dominant institutional reality in Higher Education…
… with clear, but single perspectives and corresponding perceptions of the Other:

Natural science perspective

Social science perspective

Actors’ perspectives

…but the knowledge developed is not appropriate for sustainable development and does not lead to transformation
Changes begin when you start seeing things differently, e.g. in interdisciplinary and transdisciplinary collaboration.

...this can lead to transformative learning (and sometimes to changes in behaviour)
“Transformative learning involves a deep structural shift in the basic premises of thought, feelings, and actions. It is a shift of consciousness that dramatically and permanently alters our way of being in the world.

(Morrell & O’Connor, 2002, p.xvii)
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Transformative learning as a process

- **State A**
  - “stable” comfort
  - “The up to now”
  - Old meaning perspective & being

- **Liminal state**
  - “fluid” discomfort
  - “The in between”
  - State A: no more
  - State B: not yet

- **State B**
  - “stable” comfort
  - “The new”
  - New meaning perspective & being

Taking the risk: moving out of the comfort zone

Integrating: “new”
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What it requires...

Source: Förster et al 2019: Transformative teaching in Higher Education for Sustainable Development: facing the challenges

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Conditions for embedding transformative learning in HE

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HEIs: brick and mortar institutions

Main buildings of the University of Bern, Switzerland (© UniBE)
Eight propositions for transformative learning and teaching (TLT)

1. Higher education has fundamental potential for TLT.
2. Sustainability requires value-oriented TLT.
3. Sustainability-oriented TLT in higher education requires a reflexive examination of normativity.
4. Emotions require targeted attention in sustainability-oriented TLT in higher education.
5. Normativity and emotionality constitute challenges for science-based university teaching.
6. Safe teaching-and-learning arrangements are needed to facilitate TLT processes.
7. It is necessary to professionalize sustainability-oriented TLT and clarify relations with established university pedagogy.
8. Further research on sustainability-oriented TLT in higher education is needed.

Source: Bornemann et al 2020: Sustainability-Oriented Transformative Learning and Teaching in Higher Education (saguf.ch)
Questions to the audience

1. Have you already tried to introduce normativity and emotionality in your science-based HE teaching?

2. What were success factors (+), what were stumbling blocks (−)?
1. Combined top-down and bottom-up approach
2. Work with a Theory of Change and a clear understanding of who to involve, in what, and when
3. Distinguish between 4 target groups
4. Provide targeted support for all those who are interested, integrate them in the process of developing further support (honest appreciation!)

Trechsel et al. 2018: Mainstreaming ESD at a Swiss university
Support from the Inner Development Goals (IDGs)!

• Meant to complement the SDGs, considered to be a clear plan. Gap between plan and action!
• Because we lack “the inner capacity to deal with our increasingly complex environment and challenges. Fortunately, modern research shows that the inner abilities we now all need can be developed.”

<table>
<thead>
<tr>
<th></th>
<th>Being — Relationship to Self</th>
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<tbody>
<tr>
<td>2</td>
<td>Thinking — Cognitive Skills</td>
</tr>
<tr>
<td>3</td>
<td>Relating — Caring for Others and the World</td>
</tr>
<tr>
<td>4</td>
<td>Collaborating — Social Skills</td>
</tr>
<tr>
<td>5</td>
<td>Acting — Driving Change</td>
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Real transformation also requires a change in Quality Assurance (QA)

- 2020 COPERNICUS Alliance conference: on “How can we assure quality and transformative learning for sustainable development?” (see resources)
- QA processes: a mirror enabling HEIs to reflect on what their core values are: do they meet them? Do these inner values compare with outer values? (Grolimund, 2020)
- Essential for HEIs to work with QA specialists: accreditation as institutional lever!

- What does this imply for QA frameworks? See Janssens et al 2022:
  - TL for SD approach not explicitly mentioned in QA frameworks but opportunities are there
  - HEIs must work with QA agencies because (E)SD has been forgotten
  - Critical role of networks
  - Embedding transformative learning: will increase integration of sustainability
1. Assessment and in particular self-assessment: part of the learning process

2. Learning outcomes related to transformative learning can rarely be defined as “measurable”

3. Don’t focus on whether transformation has happened! (Mälkki & Green 2014). Instead: assess how the process worked

4. If ECTS or other measurements are needed: be creative!

5. But avoid measuring anything that could be understood as a manipulative learning outcome (e.g. learner’s new insights and perspectives: valid as experience, not measurable)
A tool for thinking about assessment of, for, and as learning

Mehlmann et al, 2021: [Online transformative learning, an ongoing enquiry](http://example.com).
More resources [here](http://example.com).

Earl & Katz 2006: Rethinking Classroom Assessment with Purpose in Mind
Manifesto: “Lifelong Learning for Transformation” – 4 key requirements

1. Everyone can and should be enabled to contribute to transformations towards sustainable development.

2. Cosmetic changes won’t do: we educators need to be open to radical changes in our thinking, feeling and acting. Individually and collectively.

3. Transformative learning processes can and must be implemented everywhere in society.

4. Learning environments and learning processes need to be shaped for transformative learning in a conscious and competent manner.

For each of the 4 key requirements: 2-4 core messages, each of which will have explanations.

Original version: in German, due to be online on 2 Dec. 2022; English version to follow.
Practice-based and collaborative development of insights and tools

1. Online Transformative Learning project, resources here: [https://hostingtransformation.eu/projects/](https://hostingtransformation.eu/projects/)

2. TRACCs: Transformational, Cross Cutting people skills for the SDGs (project; will be running an **HE pilot in Lüneburg**, at Leuphana University, from 6-8 December, with a focus on the skill set “Decision making” – [Registration](https://hostingtransformation.eu/projects/) still open!)


4. Toolbox offered by Transformation Hosts International: [https://hostingtransformation.eu/toolbox/](https://hostingtransformation.eu/toolbox/)

5. What about resources you know of or have developed?
Many thanks to you all!

And many thanks to my colleagues and friends at:
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References


References


