



UiO : **Faculty of Medicine**
University of Oslo



Centre for Sustainable Healthcare Education (SHE)

Tony Sandset, Research Fellow

SHE

Centre for Sustainable
Healthcare Education



"Sustainable Healthcare Education: More Than Green Healthcare"

Sustainable Healthcare Education: What is it?

- Provides high-quality healthcare for all, without compromising the ability to meet the health needs of the next generation.
- This includes the prevention of illness, leaner care pathways, treatments with a lower carbon footprint where they exist, and an energy-efficient infrastructure.
- ‘choosing wisely’ – reducing over-diagnosis, and over-treatment in the healthcare sector (‘kloke valg’)

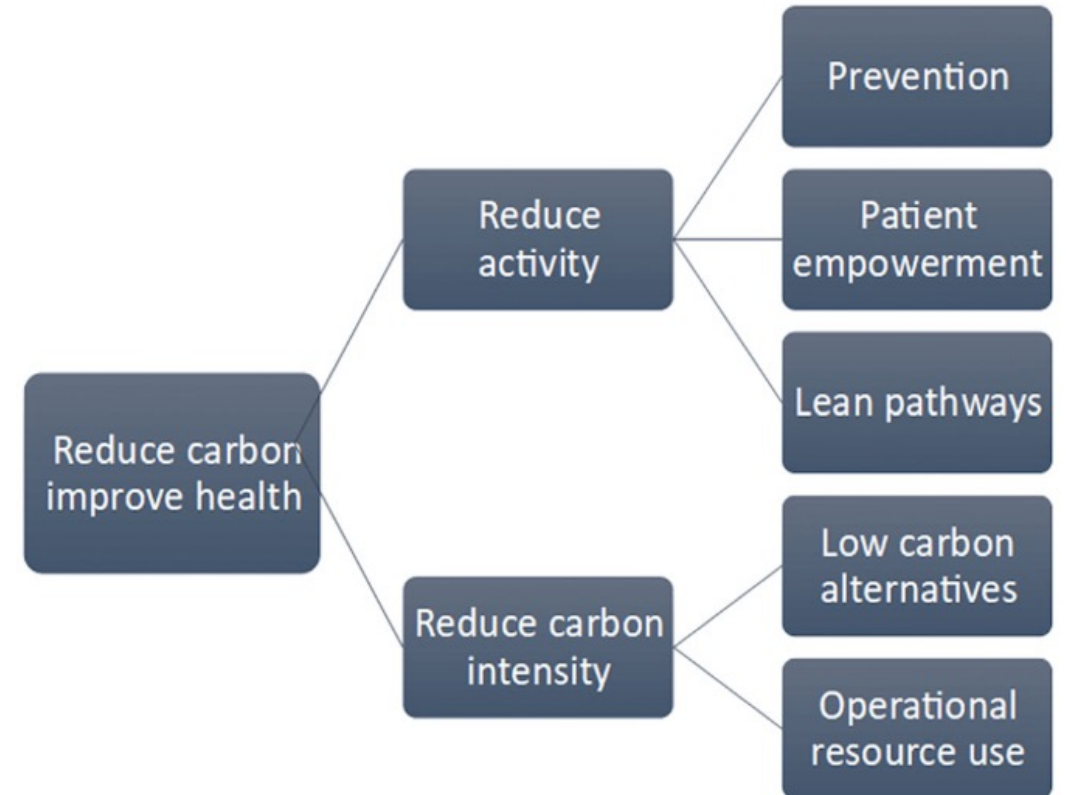


Figure 3. Sustainable quality improvement framework (with permission from Mortimer et al. 2018).



Focuses often on 'green healthcare systems' and reduction of climate foot print of the healthcare sector

Also: focuses on the interconnectedness between human health, environmental health, and animal health

Often also focuses on the effects of climate on human health and subsequently how to gear ourselves for this (heat waves, shifting climate = migration of vector borne diseases, etc.)

However: we at SHE want to go beyond this – sustainability is about so much more! Climate is one aspects

True sustainability is also about equity and social justice – critical thinking and political change

Centre for Sustainable Healthcare Education (SHE)- Mandate

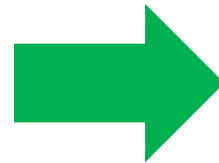
Status as Centre of Excellence in Education (started in 2020, 5+5 yrs)

- Develop and provide research-based education in the area of the centre;
- Test innovative ways of working with research based education including digital resources;
- Inspire student involvement and student ownership to education;
- Spread knowledge and practice about education in the area of the centre;
- Situate the work of the centre in an international context.

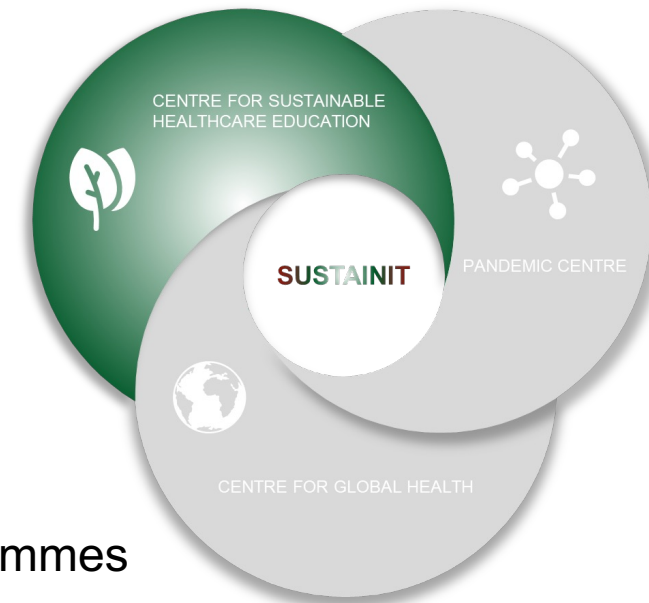


**CENTRE FOR
EXCELLENCE
IN EDUCATION**

IOSLO



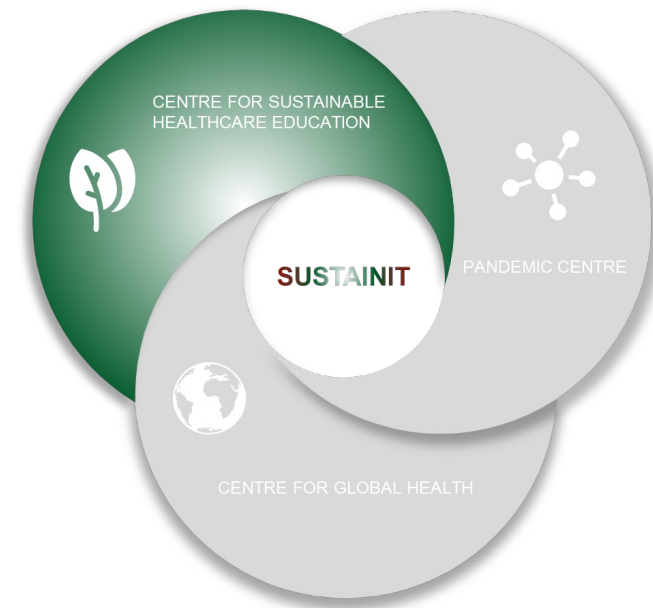
- ☐ Courses and programmes
- ☐ Resources and tools
- ☐ Student-led initiatives and student leadership programmes
- ☐ Exchange programmes, regular seminars (SHEtalks), conferences, publications
- ☐ Close collaboration with Cirlce U., international guest professors



Centre for Sustainable Healthcare Education (SHE) – Courses & Programmes

- ❑ Run or contribute to running 6 courses at BA and MA level (5 new courses to be launched 2023). Examples:
 - Climate Change and Health (MD & MA)
 - Power and knowledge in healthcare (MD & MA)
 - TEAMS seminar (co-funded by SHE, MD & nutrition)
 - Circle U. Summer Schools in Democracy, Global Health & Climate
 - Erasmus project with new BA course: Critical Concepts in Global Health (Circle U. and UiO)

- ❑ Honours Certificate in Education for Sustainable Development (20 ECTS)
- ❑ Involvement in Master in public health and epidemiology (sustainability specialization)



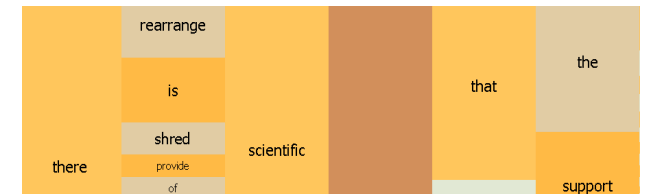
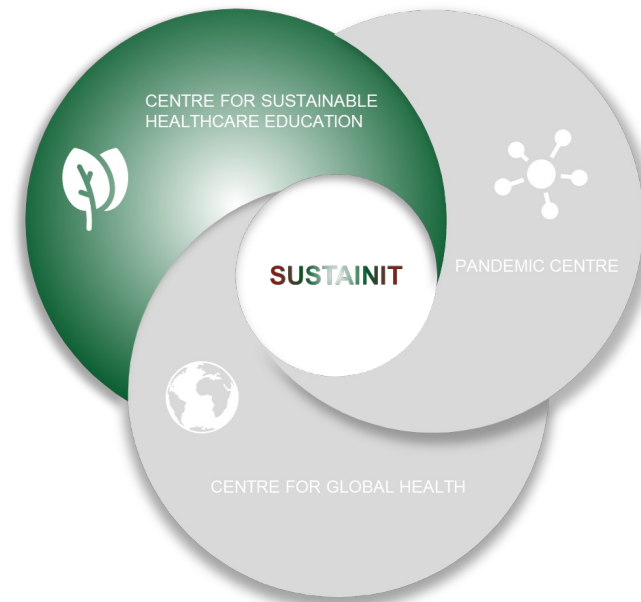
Centre for Sustainable Healthcare Education (SHE)- Resources & tools

- ❑ Oslo Medical Corpus (OMC) - A digital platform for data-driven learning in health

The OMC is a large database of texts of different genres accompanied by a novel, open-source analysis and visualization interface aimed at exploring and understanding conceptual paradoxes and challenges. Designed for being used in *datathons* (collaborative problem-solving based on data).

- ❑ Climate Health Toolkit

This student-led toolkit is the result of a nationwide project led by SHE, which aimed to map current teaching initiatives and develop new initiatives in collaboration between medical schools throughout Norway. It includes standardized learning outcomes for all medical specialties, as well as PowerPoint presentations and potential student assignments related to climate and health.



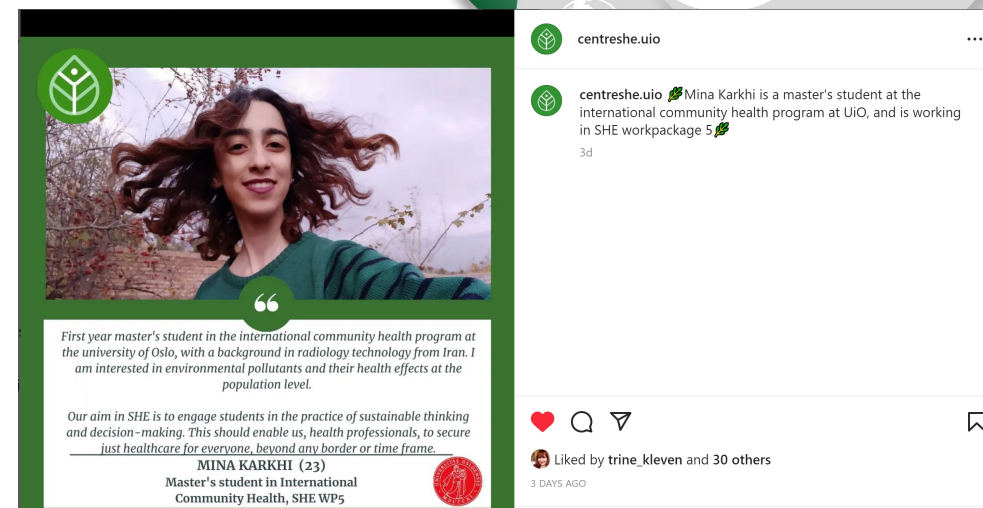
Centre for Sustainable Healthcare Education (SHE)- Student-leadership schemes

❑ SHE Student-Leaders Scheme

A group of 4-5 students take part in all aspects of the centre's operations, including course and program development and management, creation of educational resources and tools, project planning and execution, and sharing project results.

❑ Students for Choosing wisely

A leadership programme designed to empower 15 students per cohort to lead projects related to the sustainable use of health resources, with the goal of countering overtreatment. Educational part + supervised project assignment. Collaboration with Legeforeningen.



The poster has a green background. At the top, it says 'Student for kloke valg' with a speech bubble icon. Below this, it asks 'Vil du arbeide for et bærekraftig helsevesen?' (Do you want to work for a sustainable healthcare system?). The main headline is 'Medisin- og ernæringsstudenter søkes til et nasjonalt program om medisinsk overaktivitet!' (Medical and nutrition students are sought for a national program on medical overactivity!). The text continues: 'Studenter for kloke valg er et frivillig program med oppstart september 2022 rettet mot medisinsk overaktivitet: overutredning, overdiagnostikk og overbehandling. Som del av programmet vil du delta på nasjonale konferanser om medisinsk overaktivitet og samlinger med ledende klinikere og studenter fra hele landet. Du vil også få en veileder som vil hjelpe deg til å utforme og gjennomføre et individuelt prosjekt med fokus på enten forskning, kvalitetsforbedring, formidling eller undervisning knyttet til medisinsk overaktivitet og bærekraft i helsejensesten.' At the bottom left is a QR code with the text 'Mer informasjon og søknadsskjema via QR-kode!'. At the bottom right are logos for SHE (Centre for Sustainable Healthcare Education) and 'Gjør kloke valg'.

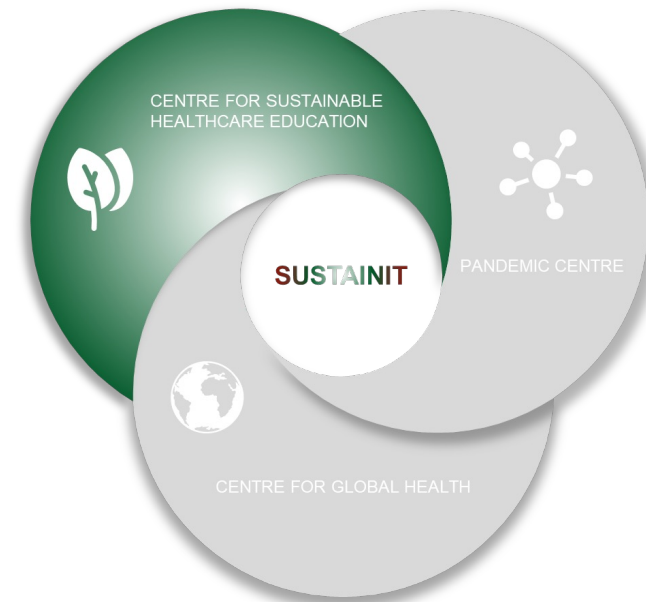
Centre for Sustainable Healthcare Education (SHE)- Scholarships & seed funding

❑ SHE Scholarships

SHE offers student scholarship that provide students with the opportunity to realise their own education or knowledge dissemination projects, preferably in partnership with a faculty member.

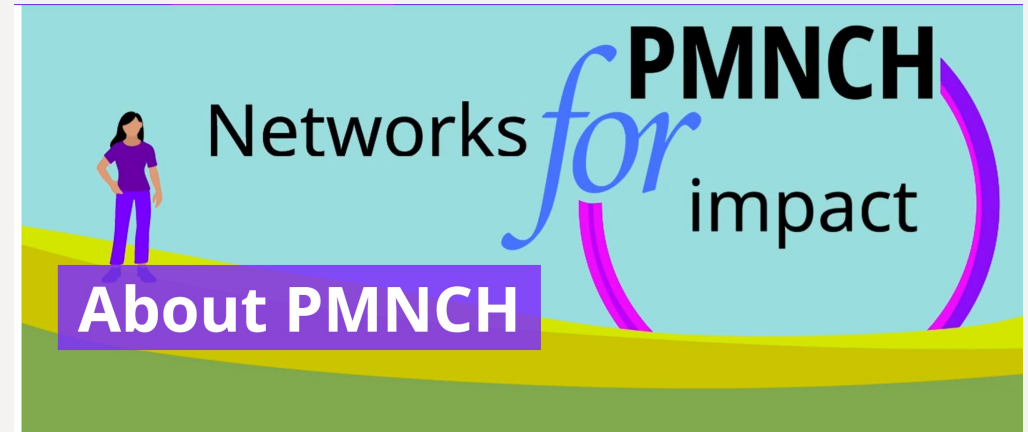
❑ Sustainable, evidence-based decision-making in Norwegian municipalities

The program offered scholarship to 20 students in GP practice to write and reflect on cases from their practice that involved sustainability dilemmas. These cases were collectively analyzed to foster normative and critical thinking competencies.



Centre for Sustainable Healthcare Education (SHE)- Exchange programmes

- SHE-WHO (PMNCH) exchange programme
 - **The Partnership for Maternal, Newborn & Child Health (PMNCH)**
- A group of 10 students will be offered the opportunity to intern with PMNCH, an initiative under the WHO that focuses on the health of children, adolescents, and women. The interns will be assigned to track the progress towards achieving the Sustainable Development Goals (SDGs) in three selected countries for each area of PMNCH's focus, based on desk studies.



Established in 2005, PMNCH is the world's largest alliance for women's, children's and adolescents' health and well-being, with +1,300 partner organizations working together through 10 constituency groups: partner governments, donors and foundations, NGOs, adolescent and youth groups, private sector organizations, health professional associations, academic and research institutions, global financing mechanisms, inter-governmental organizations, and UN agencies. PMNCH is hosted by the World Health Organization, based in Geneva.



UiO : **Faculty of Medicine**
University of Oslo



Guiding principles for teaching

SHE

Centre for Sustainable
Healthcare Education

Sustainable healthcare decisions



Decisions made in a broad social context

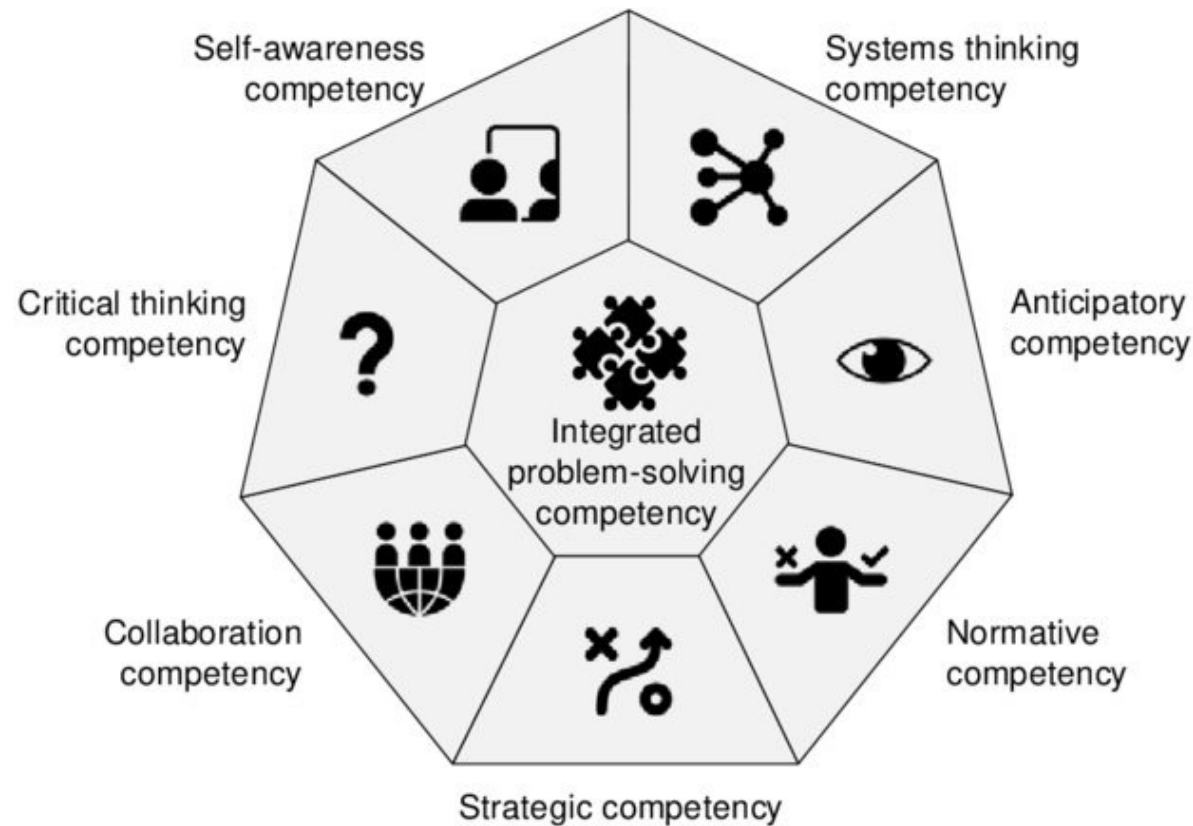
Anchored in principles and values that cut across the sustainability goals

Takes future resources and needs into account

Based on assessments of complex – often contradictory – considerations and different understandings of sustainability

Pays critical attention to sustainable development as a political term that some countries and institutions have more power to define than others

Competencies for Sustainable Healthcare Education: Based on UNESCO's key competencies



Anticipatory competence

- **Anticipatory competence** is the ability to collectively analyze, evaluate, and craft rich “pictures” of the future related to sustainability issues and sustainability problem-solving frameworks.

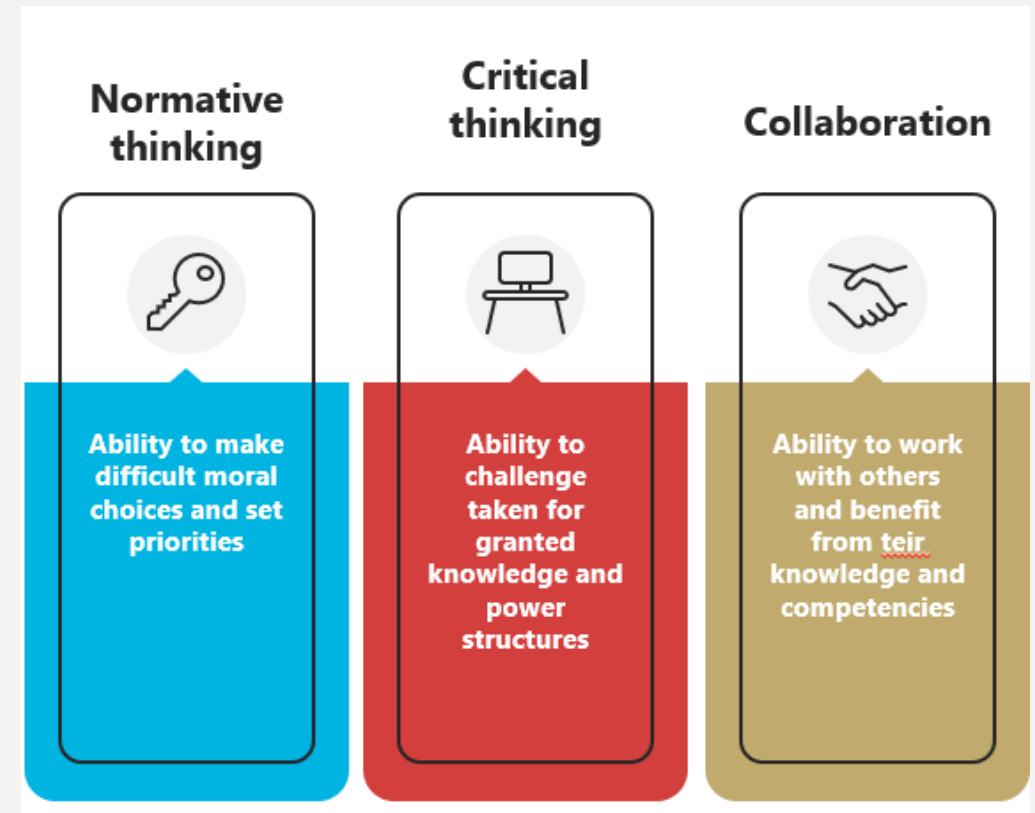


Systems-thinking competence

- **Systems-thinking competence** is the ability to collectively analyze complex systems across different domains (society, environment, economy, etc.) and across different scales (local to global), thereby considering cascading effects, inertia, feedback loops and other systemic features related to sustainability issues and sustainability problem-solving frameworks.



- **Normative competence** is the ability to collectively map, specify, apply, reconcile, and negotiate sustainability values, principles, goals, and targets; often time in conflict with local needs, wants and values
- **Collaboration competency:** *the abilities to learn from others; to understand and respect the needs, perspectives and actions of others (empathy); to understand, relate to and be sensitive to others (empathic leadership); to deal with conflicts in a group; and to facilitate collaborative and participatory problem solving.*



Integrated Problem-Solving Competency



Values-thinking Competency



Map, specify, apply, reconcile and negotiate sustainability values

Systems-thinking Competency



Analyze complex problem in current state and its history

Strategic-thinking Competency



Develop sustainability transition strategies

Futures-thinking Competency



Create future non-intervention scenarios

Craft future sustainability visions

Intrapersonal Competency / Mindset



Implementation Competency

Implementation Actions



Iterative process

Collaborate in each step of the problem-solving process

Interpersonal Competency



Sources: Wiek et al. 2011, Wiek et al. 2016
© Icons: Warren et al. 2014

SHE educational concept map

