



GREENING THE UNIVERSITY CURRICULUM MODEL AS TOOL FOR SUSTAINABILITY TRANSITION

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V4 Green Universities, Green Workshop, September 22, 2020

- Visegrad Fund
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Sustainable University

Systematic and comprehensive integration of sustainable development principles in all fields of activity of the educational institution

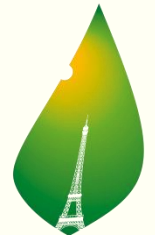
Management, administration and operations

Educational programs and educational process

Cooperation with stakeholders

Local and national priorities

International initiatives of education for sustainable development



Transformation of education on the basis of sustainability aim



- Universities must meet the demands of modernity, evolve as dynamic institutions, "laboratories of social innovation", which are always one step ahead of any social change
- The latest approaches to the management of educational institutions are an integral part of the transformation of education on the basis of sustainability
- There are many “success stories” of the which have achieved the greatest success in the field of transition to sustainability

Promote research on sustainable development

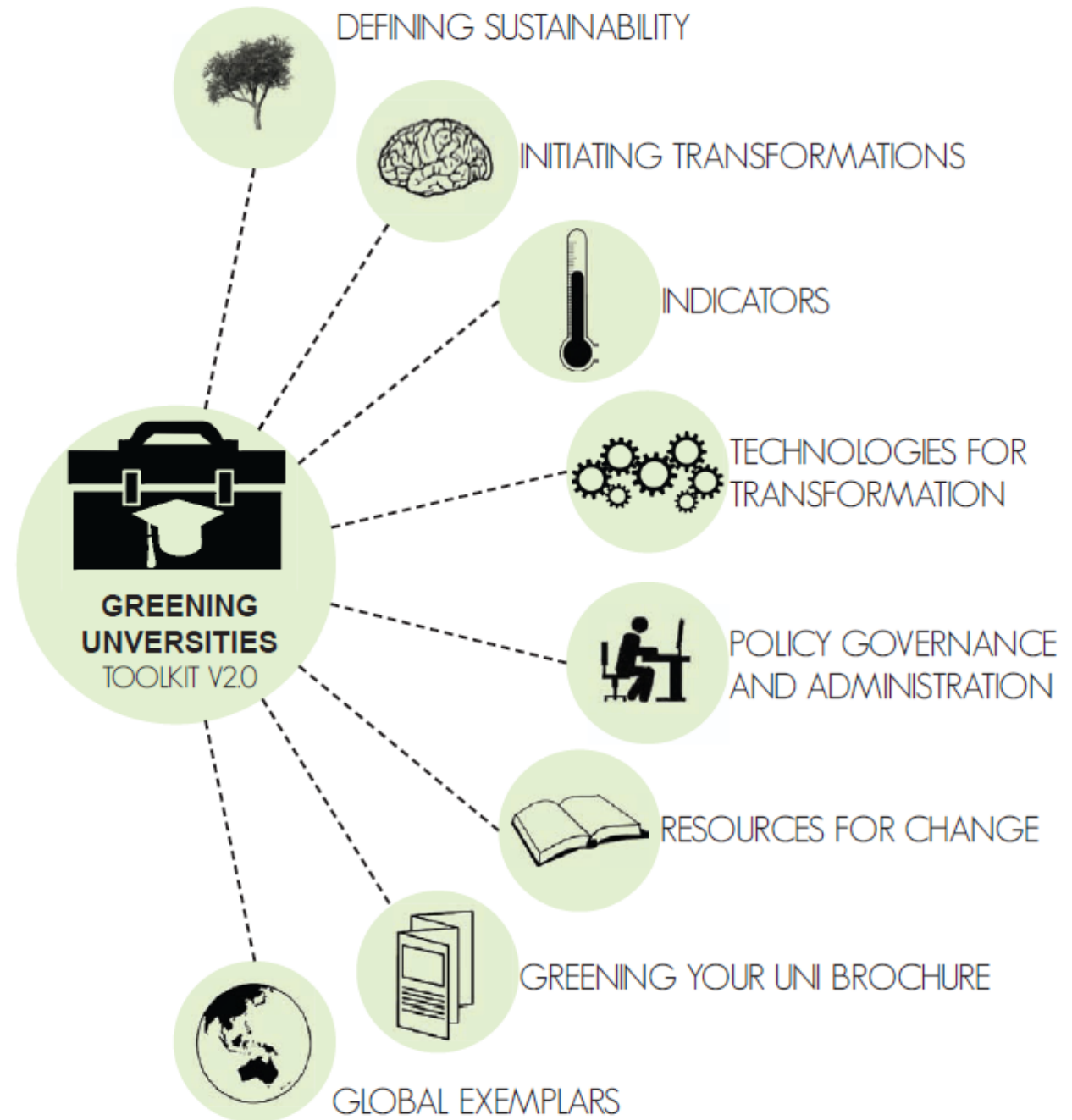
Develop green campuses

Declaration on the Commitment of Educational Institutions to Implement Sustainable Development Practices, Rio + 20

Support the efforts of local communities to implement sustainable practices

Build cooperation on the exchange of results of international networks

Which steps are needed to create a "sustainable" university?



UNEP, 2014

Educational networks for sustainable development

- The movement of the world towards sustainability is largely due to the unification of educational institutions into international networks, which actively promote the exchange of experience and dissemination of best practices from all over the world:
 - *Baltic University Program (1990),*
 - *Association of University Leaders for a Sustainable Future (1992), Environmental Association for Universities and Colleges (1996)*
 - *The Association for the Advancement of Sustainability in Higher Education (2005),*
 - *Australasian Campuses Towards Sustainability (2006),*
 - *Higher Education Sustainability Initiative for Rio+20 (2012).*



International networks and initiatives

Support from



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1. Historical background and concepts
2. Energy and Climate
3. Resources
4. Urbanisation
5. Production & Consumption
6. Life, Food and Fibres
7. Mobility
8. Welfare & Life Style
9. Politics
10. Economics
11. Change
12. Education

Contents of the BUP Sustainable Development Course

1. Historical background and concepts

- 1a. Stories of societies which succeeded or collapsed
- 1b. The UN process - from Stockholm to Johannesburg
- 1c. Understanding sustainable development
- 1d. What we believe in - our values and sustainable development

7. Mobility

- 7a. A culture of mobility
- 7b. Means of mobility – technology and systems
- 7c. Freight
- 7d. Policies and management of mobility

8. Human welfare and sustainable life style

- 8a. Demography and population change



Greening of Education: Ukraine's Contribution

DESCRIPTION

SDGS & TARGETS

DELIVERABLES & TIMELINE

RESOURCES MOBILIZED

Description/achievement of initiative

IIAREP and partners commit to cooperate with Ukraine's Ministry of Education to disseminate the greening of education concept at the national level. We are committed to introducing the programs of greening of education throughout Ukraine by 2014, when the "Decade of Education for Sustainable Development" ends. Through the Rio +20 Dialogues and side event, the organizing partners are committed to promoting the concept of greening of education internationally. The implementation of this concept is crucial for the formation of green thinking and the building of a green economy, and accordingly, should be included in the output documents of "Rio+20".



Implementation methodologies

For training specialists in sustainable development, International Institute-Association of the Regional Ecological Problems (IIAREP) ensured the scientific development and practical implementation of the greening of education concept in the Ukrainian National Forestry University (UNFU, Lviv) over the past 15 years. This was achieved through cooperation with the Universities of Freiburg (Germany), Gent (Belgium), and Padua (Italy) in the framework of the EU Program Tempus-Tacis projects. The primary result was the introduction in 1998 of a new Master's degree specialty in ecological economics. This experience prompted inclusion of environmental requirements in all curricula at the local level (i.e., at UNFU). IIAREP and partners are cooperating with Ukraine's Ministry of Education to disseminate the greening of education concept at the national level. We are committed to introducing the programs of greening of education throughout Ukraine by 2014, when the "Decade of Education for Sustainable Development" ends. Through the Rio +20 Dialogues and side event, the organizing partners will promote the concept of greening of education internationally. The implementation of this concept is crucial for the formation of green thinking and the building of a green economy, and accordingly, should be included in the output documents of "Rio+20".



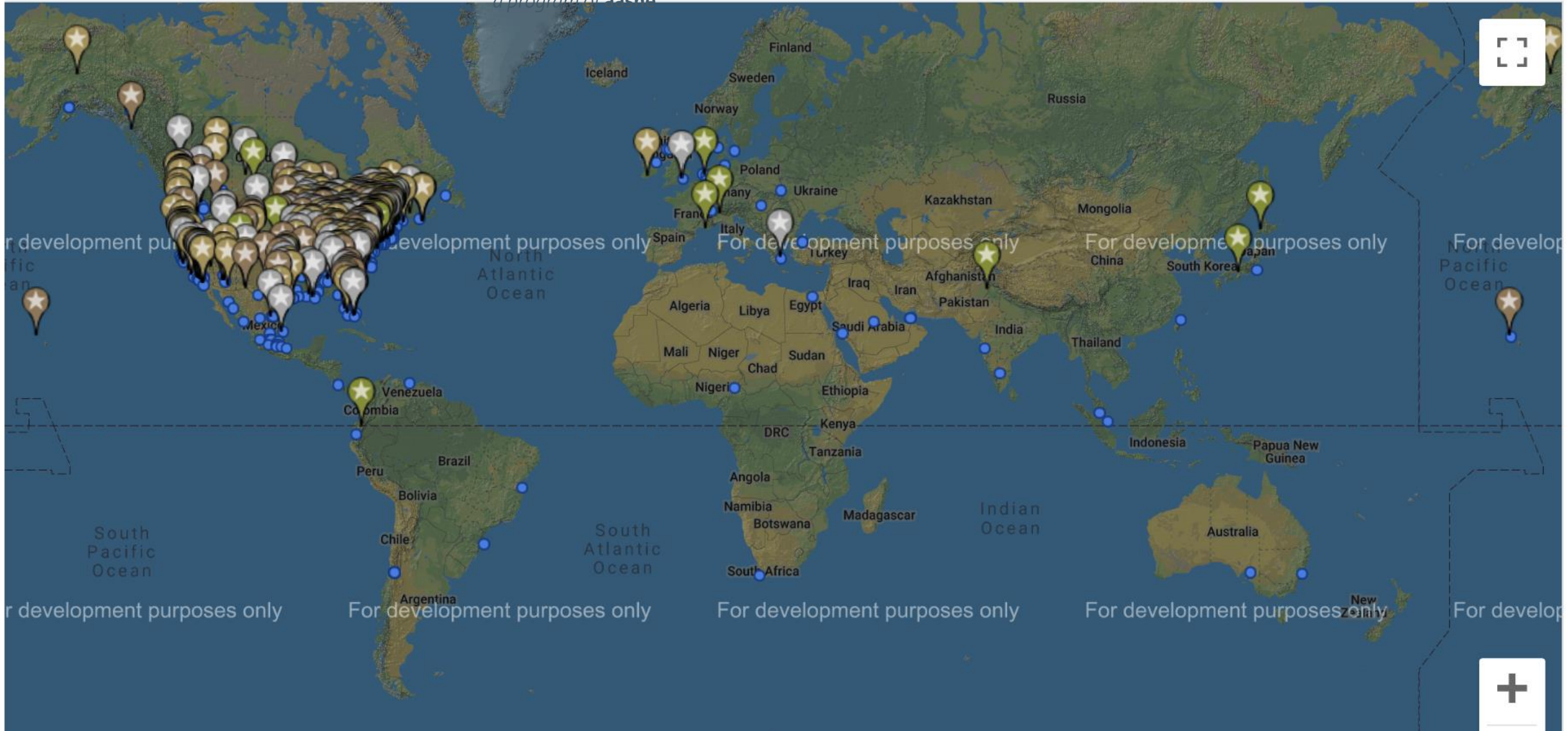
UI GreenMetric Agenda in 2018



- 1** The 4th International Workshop on UI GreenMetric (IWGM)
hosted by Universitas Diponegoro
8-10 April | Semarang, Indonesia
- 2** IREG Forum
23-25 May | Hasselt, Belgium
- 3** ISCN Conference
11-13 June | Stockholm, Sweden
- 4** CRUI Working Group on International Academic Rankings
21 September | Roma, Italy
- 5** IAIA Conference
1-3 October | Kuching, Malaysia
- 6** Global Symposium on Green Campus Development
26 October | Beijing, China
- 7** National Workshop and Technical Workshop on UI GreenMetric World University Rankings
hosted by University of Zanjan and

- 8** Atyrau State University
25 April | Atyrau, Kazakhstan
- 9** King Abdulaziz University (KAU)
2 May | Jeddah, Saudi Arabia
- 10** Nottingham University
22 May | Nottingham, UK
- 11** National University of Colombia and University del Rosario
5-6 June | Bogota, Colombia
- 12** University of Sao Paulo (USP)
7-8 June | Sao Paulo, Brazil
- 13** Pakistan Higher Education Commission
9 July | Pakistan
- 14** Universiti Utara Malaysia
19 July | Kuala Lumpur, Malaysia
- 15** Institut Teknologi Sepuluh Nopember (ITS)
19-20 September | Surabaya, Indonesia
- 16** Riga Technical University
5 October | Riga, Latvia
- 17** Universidad Tecnica Federico Santa Maria
November | Valparaíso, Chile

Participants by Country






Tulsa Community College ^m	United States , OK			
Ukrainian National Forestry University	Ukraine , Lviv Oblast			
Union College - NY ^m	United States , NY			
Unity College ^m	United States , ME	2.1	Gold	Nov. 27, 2017
Universidad Americana	Nicaragua			
Universidad Autonoma de Madrid	None			
Universidad Autonoma de Queretaro	Mexico , QE			
Universidad Autonoma de Tamaulipas ^m	Mexico , TM	2.1	Silver	Nov. 27, 2017
Universidad Metropolitana - UNIMET	Venezuela, Bolivarian Republic of			
Universidad Nacional Autonoma de Mexico ^m	Mexico , DF			
Universidad San Francisco de Quito	Ecuador , Pichincha	1.2	Reporter *	Dec. 25, 2013
Universidad Tecnologica Metropolitana (Chile)	Chile			
Universidad Tecnológica de Nezahualcóyotl	Mexico			
Universidad Tecnológica de Querétaro	Mexico , Querétaro			
Universidad de Chile	Chile , Region Metropolitana			
Universidad de Monterrey ^m	Mexico , NL	2.0	Silver	Feb. 27, 2017
Universidade Aberta	Portugal			
Universidade Federal de Santa Catarina	Brazil , Santa Catarina			
Universidade Federal do Sul da Bahia	Brazil , Itabuna - BA			
Universite Laval ^m	Canada , QC	2.1	Gold	Dec. 23, 2016
Universite de Montreal	Canada , QC	2.1	Silver	Dec. 2, 2016
University College Cork - National University of	Ireland , Co. Cork	2.1	Gold	July 20, 2018

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Public Engagement



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Grounds



Purchasing



Transportation



Waste



Water



Coordination & Planning



Diversity & Affordability



Investment & Finance



Wellbeing & Work

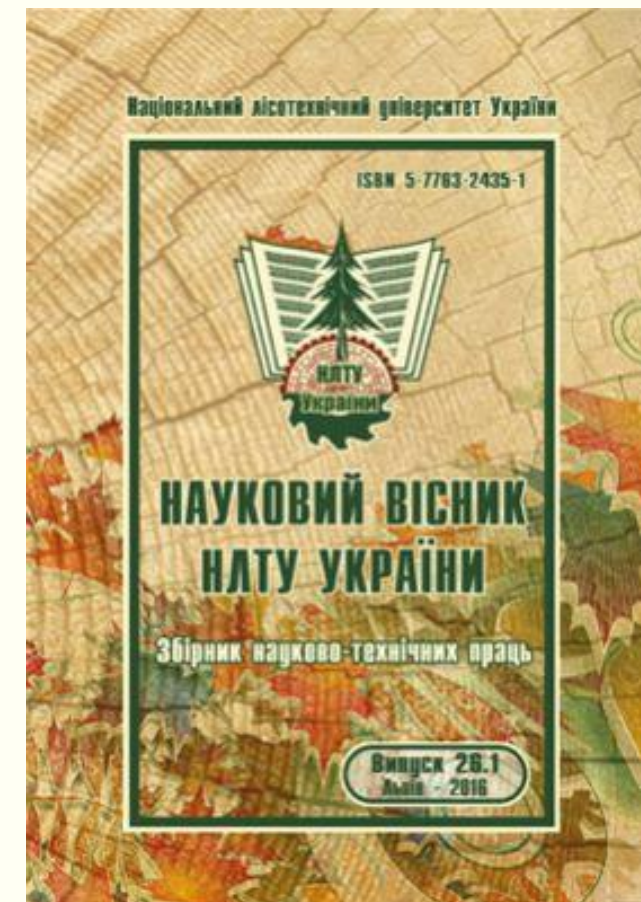


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RETHINKING EDUCATION

What does "greening of education" mean?

Greening of Education – the process of saturation of educational programs for training specialists in all specialties with environmental requirements - understanding the causal relationships between human activities and its environmental consequences.



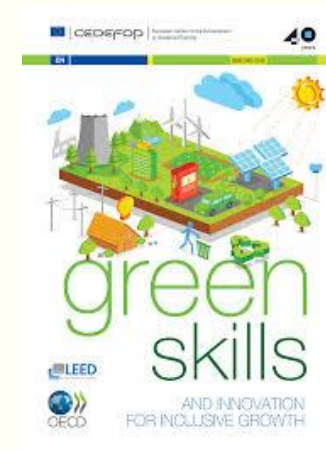
Ecological competence is one of the key competencies of a graduate

Knowledge causal relationships between economic activity and its environmental consequences;

Understanding unity and interdependence of economic (production) and ecological (natural) systems;;

Skills to combine in practice the interests of economic and ecological systems;

Integrity and responsibility for active actions to achieve the goals of sustainable development for the benefit of man and society.



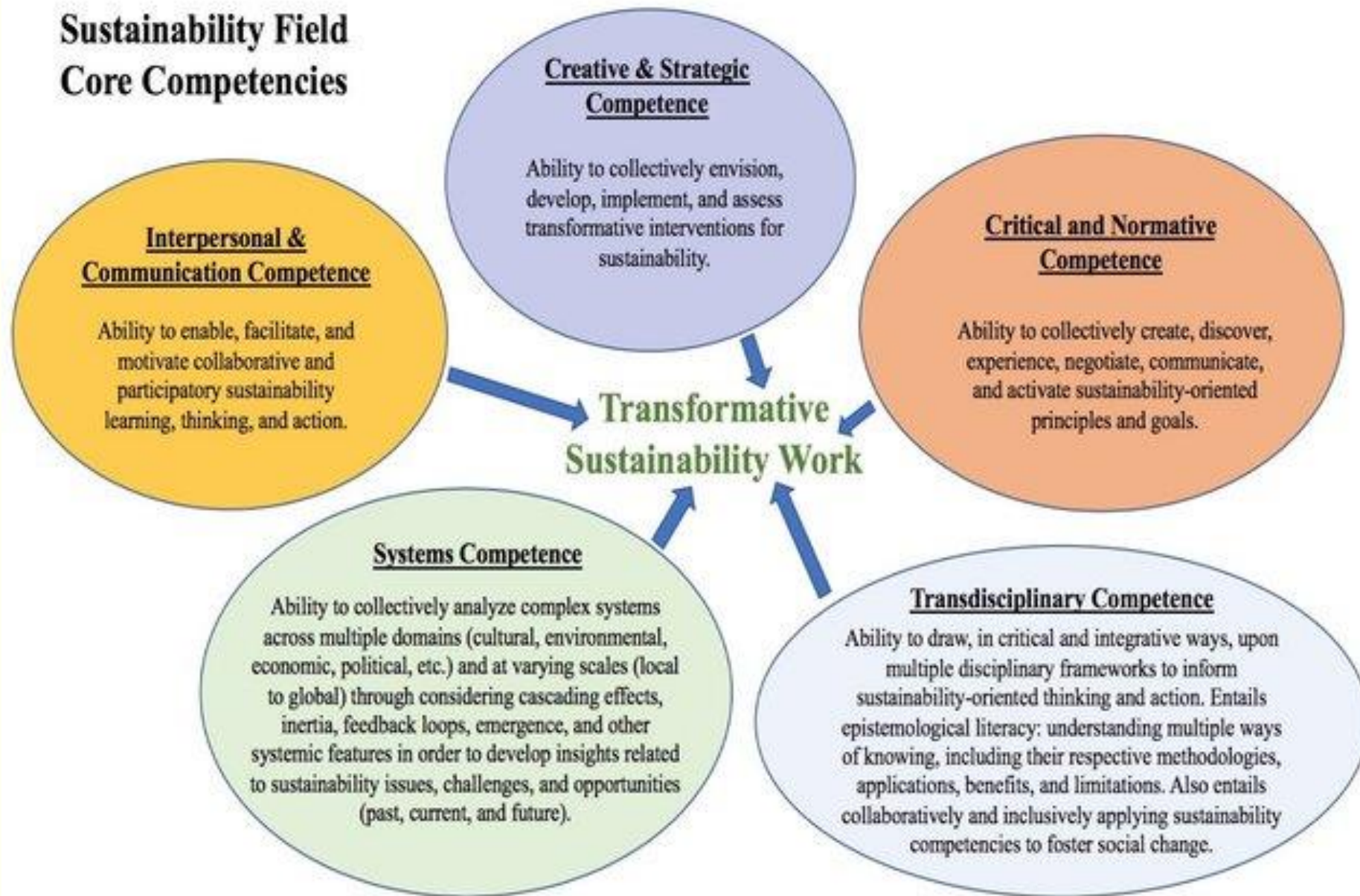
Key principles of activity of ecologically competent specialist

"AD NATURAM VIVERE DISCIMUS"

1. Taking into account the ‘ecological boomerang’ effects of material production
2. Priority of preventive measures in the field of environmental protection.



Sustainability Field Core Competencies



•Evans, 2019. Competencies and Pedagogies for Sustainability Education: A Roadmap for Sustainability Studies Program Development in Colleges and Universities. *Sustainability* 11(19):5526

Recent activities

Events related to sustainability, UNFU (2019):

February / Kyiv Communiqué From the 1st Workshop on the Environmental Impact and Economic Sustainability of Nord Stream 2 and other Sub-Marine Natural Gas Pipelines;

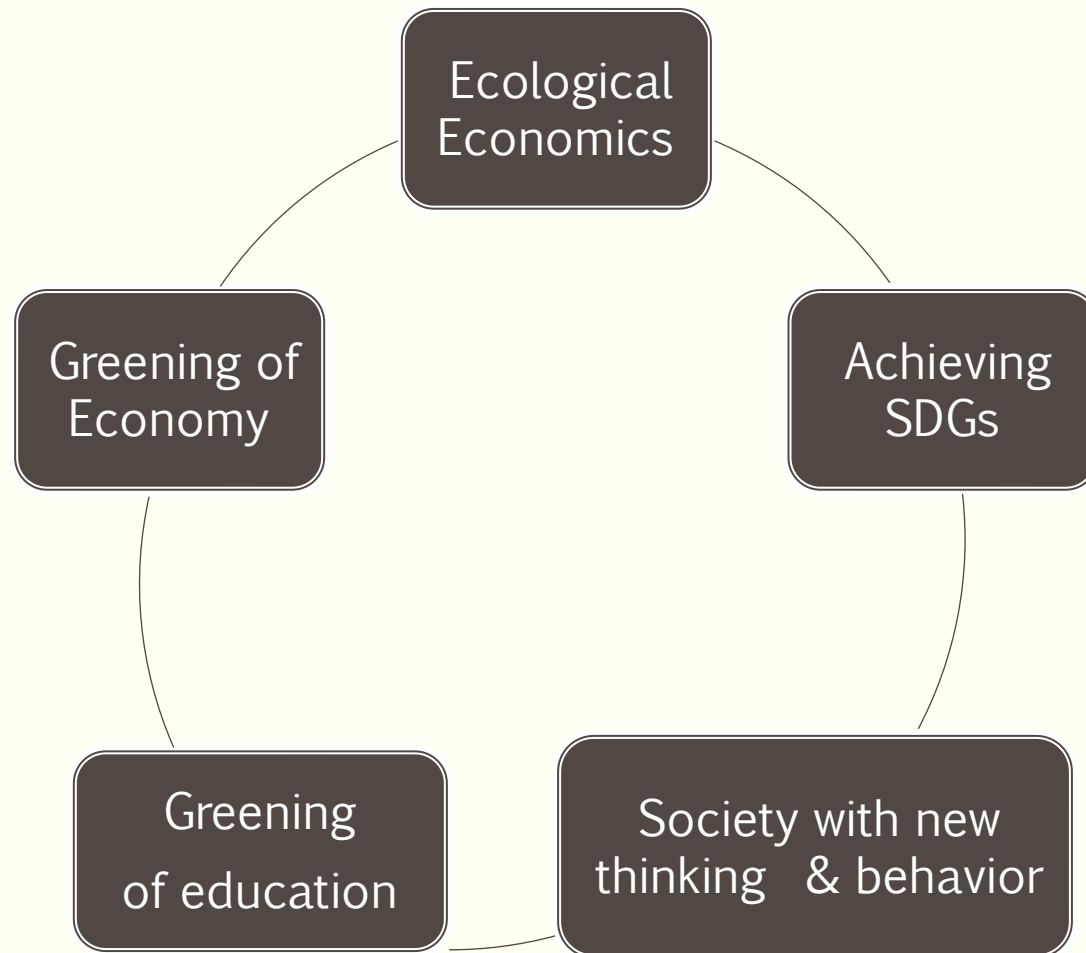
September / The summer school of Baltic University Program for the “Sustainability Innovations in a Circular Economy”;

Visit of Professor Pierre Ibisch: open lectures for students and teachers (Eberswalde University of Sustainable Development);

Seminar on the application of Open Standards for Nature Conservation Practices (Within the framework of the DAAD project Transboundary Cooperation in Teaching and Practice);

Spring break and restoration of Cherry Grove laid by Klimenty Sheptytsky in the Regional Landscape Park "Demolition" etc...







Thank you