

Pedagogical Approaches on the Education for Environmental Citizenship

1st European Training School
Lisbon, Portugal
24-25 Oct 2018

Action Chair

Dr Andreas Hadjichambis, CYCERE, Cyprus



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B. ENEC IN GLANCE

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🔍 SEARCH



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EDUCATION FOR ENVIRONMENTAL CITIZENSHIP

Education for Environmental Citizenship" (EEC) is defined as the type of education which cultivates a coherent and adequate body of knowledge (and categories of knowledge) as well as the necessary skills, values, attitudes and responsible/active behaviours that an environmental citizen should be equipped with in order to be able to act and participate in society as an agent of change in the private and public sphere, on...

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B. OUR CONSORTIUM

Coordinated by:

Action Chair

Dr Andreas Hadjichambis, CYCERE, Cyprus

- Kick of Meeting in Brussels, 27-10-2007
- Our Consortium today
- New Countries



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Kick of Meeting in Brussels



Kick Off Meeting
Brussels Belgium
27 October 2017

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<http://enec-cost.eu/events/kick-off-meeting-brussels/?preview=true>

❑ 40 MC Members

❑ 26 Countries



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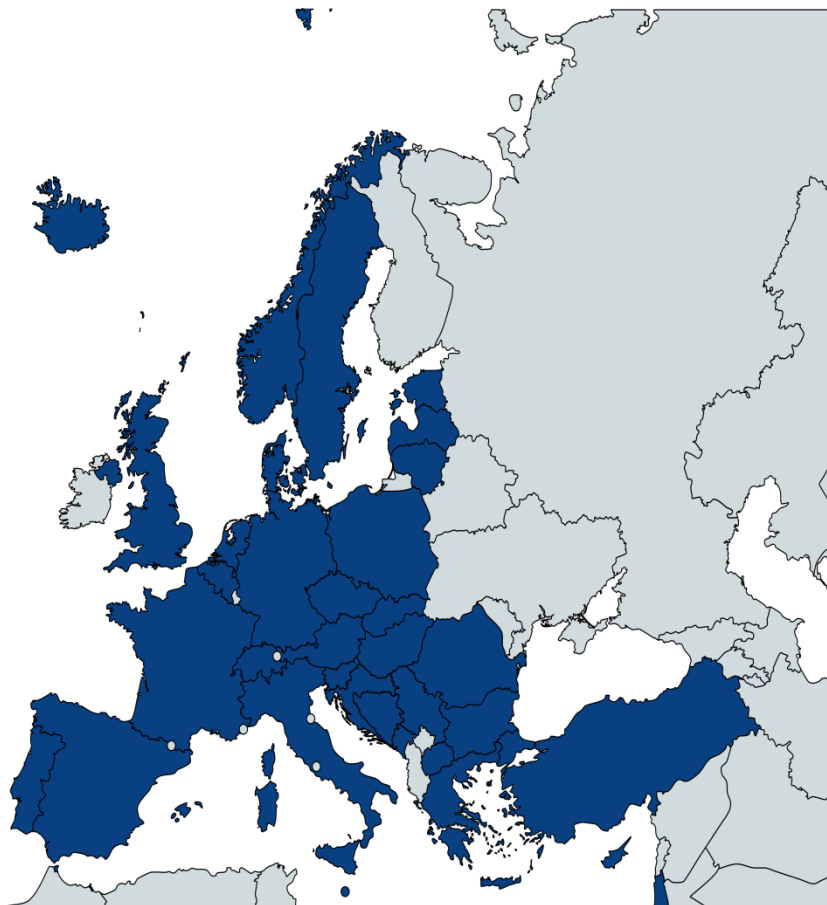
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Our Consortium today

ENEC Countries



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- 36 Countries (4 new)
 - 33 European Countries
 - Israel (Cooperative Country)
 - USA (IPC)
 - AUSTRALIA (IPC)
- 64 MC Members (10 new)
- 50 MC Substitutes (11 new)
- 2 MC Observer (USA, AUSTRALIA)



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New Countries

- Turkey
- Slovenia
- Estonia
- AUSTRALIA (IPC)

Near Neighbour Countries

- Ukraine (UA)

European Member Countries:			
Austria		Greece	
Belgium		Iceland	
Denmark		Italy	
Estonia		Netherlands	
France		Norway	
Germany		Slovenia	
		Spain	
		Sweden	
		Switzerland	
		Turkey	
		United Kingdom	
European Member and Inclusiveness Target Countries (ITC):			
Bosnia and Herzegovina		Hungary	
Bulgaria		Latvia	
Croatia		Lithuania	
Cyprus		Malta	
Czech Republic		Montenegro	
FYR Macedonia		Poland	
		Portugal	
		Romania	
		Serbia	
		Slovakia	
Associate Country:			
Israel			
International Partner Country (IPC):			
Australia			
United States of America			

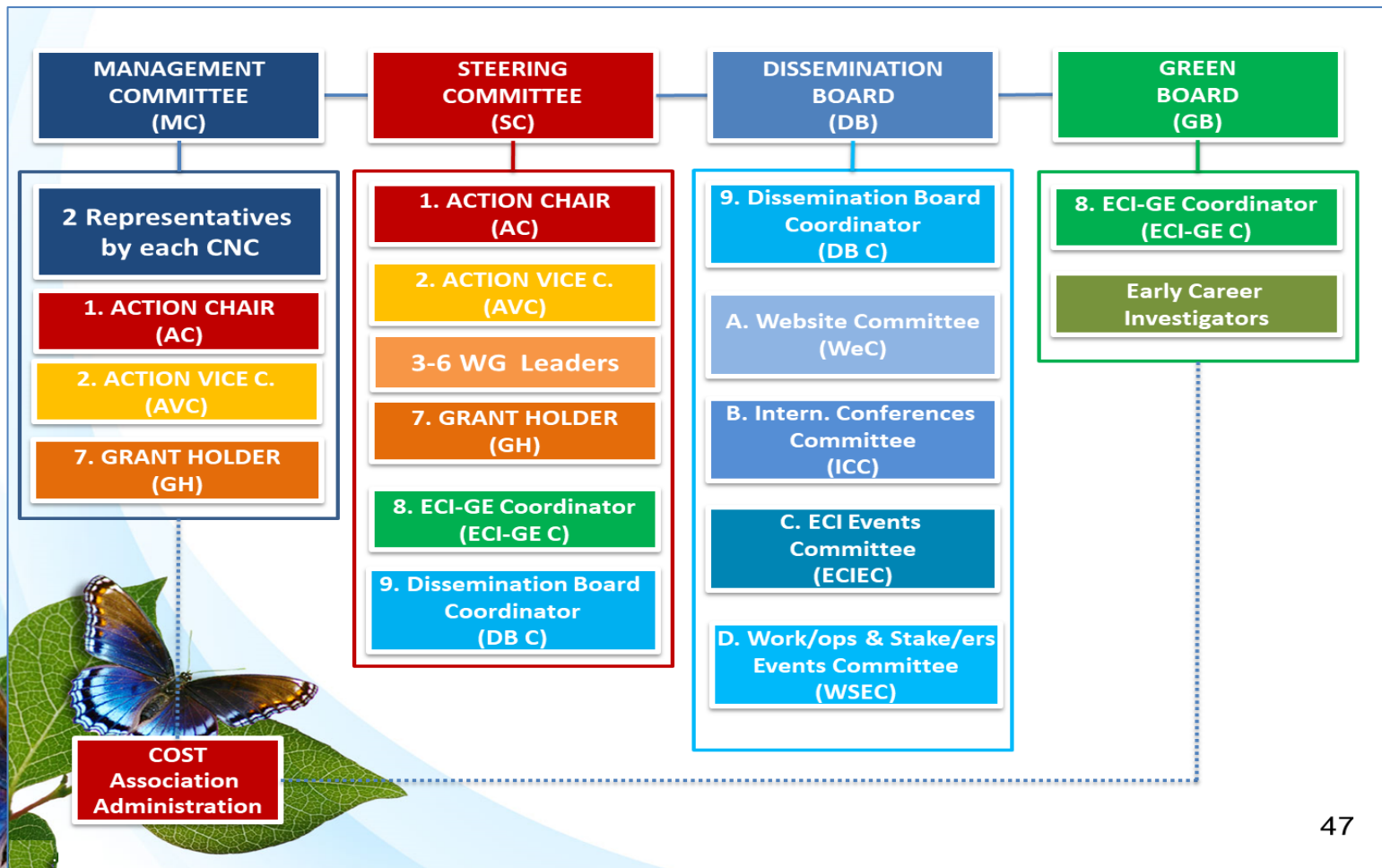


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Role and Structure of ENEC Committees and Boards



47

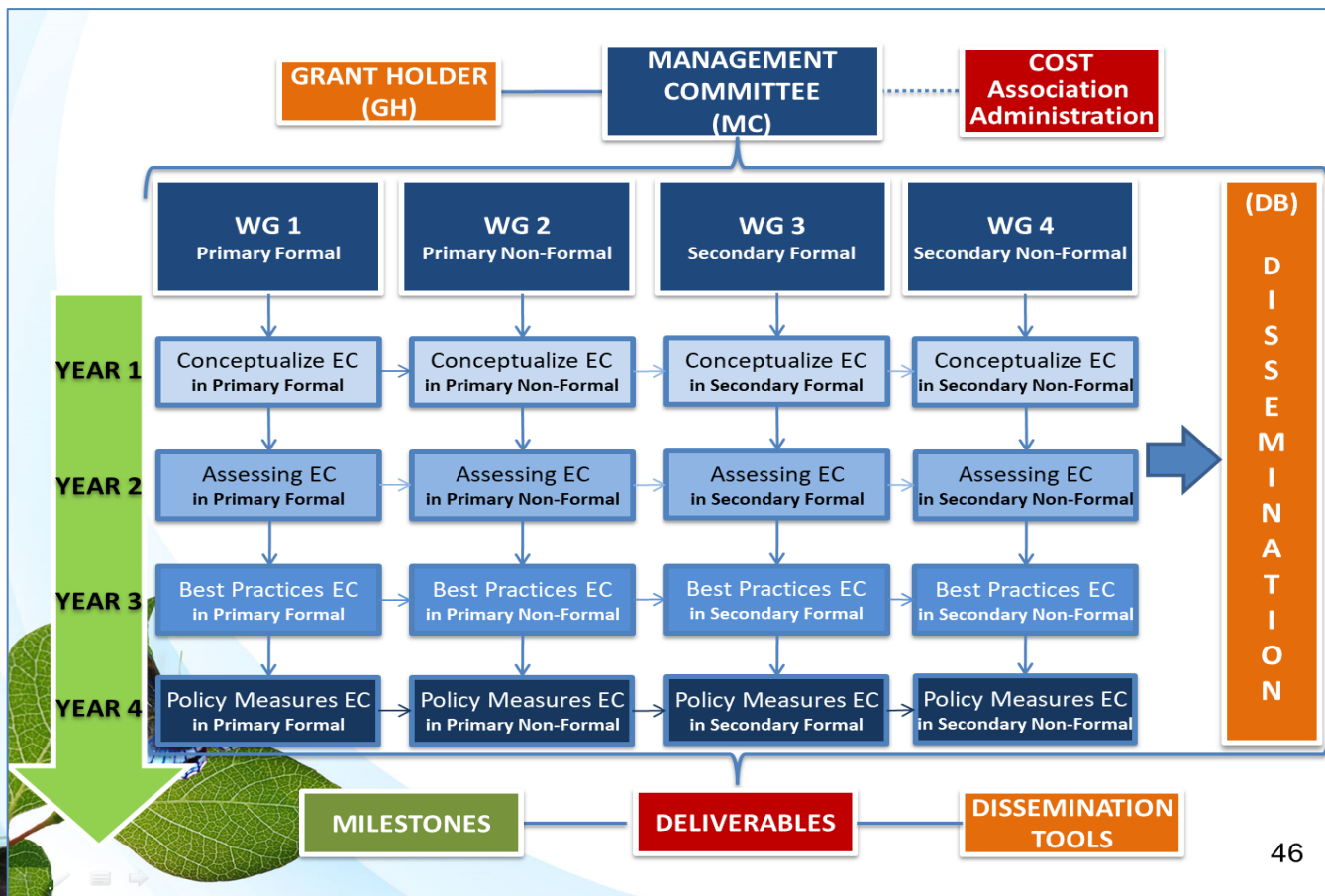


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Role and Structure of ENEC Working Groups

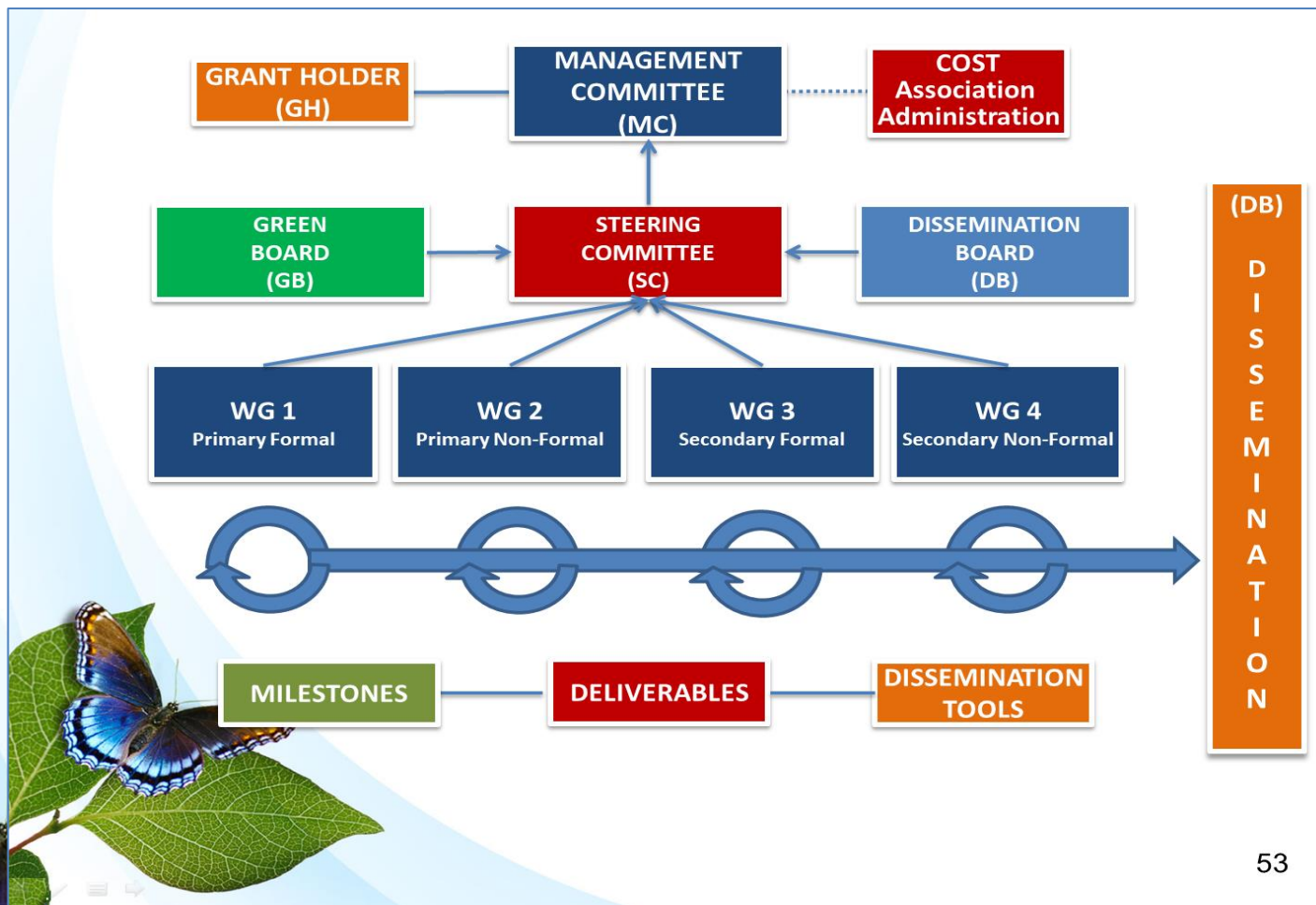


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Work Flow of ENEC



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Objectives



5

Research
Coordination
Objectives
(RCO)

4

Capacity-building
objectives
(CBO)



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RESEARCH COORDINATION OBJECTIVES

- Initiate **collaborations** and expand previously established collaborations on Environmental Citizenship across Europe. (RCO1)
- Development of common understanding/definition of Environmental Citizenship by **conceptualizing and framing Environmental Citizenship**. (RCO2)
 - Development of **new research paradigms and metrics** for assessing Environmental Citizenship. (RCO3)
 - Identify **research gaps and future research needs, priorities and perspectives** in Environmental Citizenship which require European/ international coordination and transnational collaborations. (RCO4)
 - **Propose policy measures and recommendations** needed for the promotion of Environmental Citizenship. (RCO5)



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Indices to measure the achievement of the Research Coordination Objectives

- The number of partners and professional diversity will indicate the achievement of the RCO1.
- The number of publications, reports and policy documents related to the concept and dimensions of Environmental Citizenship will measure the achievement of the RCO2.
- The number of publications, reports and policy documents related to the assessment of Environmental Citizenship will measure the achievement of the RCO3.
- The number of reviewed publications, reports and policy documents related to research needs, gaps and priorities in the field will measure the achievement of the RCO4.
- The number of dissemination documents regarding the policy measures and recommendations will serve as a measure of the achievement of the RCO5.



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CAPACITY-BUILDING OBJECTIVES

- **Bridging separate fields of science** to achieve breakthroughs in Environmental Citizenship that require multi-national and multi-disciplinary research. (CBO1)
- **Fostering knowledge exchange on different macro- and micro- level dimensions of formal and non-formal education** that could lead to Environmental Citizenship. (CBO2)
 - Acting as a **stakeholder platform** for knowledge exchange and mapping expertise and also developing a depository database of scientific measures and evidence based interventions that target Environmental Citizenship. (CBO3)
 - Involving specific target groups such as **Early Career Investigators (ECI)** and research teams from **COST Inclusiveness Target Country (ITC)**. (CBO4)



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Indices to measure the achievement of the Capacity-Building Objectives

- The number of multi-national and multi-disciplinary partners will indicate the achievement of the CBO1.
- The number of publications, reports and policy documents which referred to formal and non-formal dimensions leading to Environmental Citizenship will measure the achievement of the CBO2.
- The number of platform users database entries and best educational practices are a measure of the achievement of the objective CBO3.
- The number of Early Career Investigators (ECI) and the number of research teams from COST Inclusiveness Target Country (ITC) which will participate in the Action are a measure of the achievement of the CBO4.



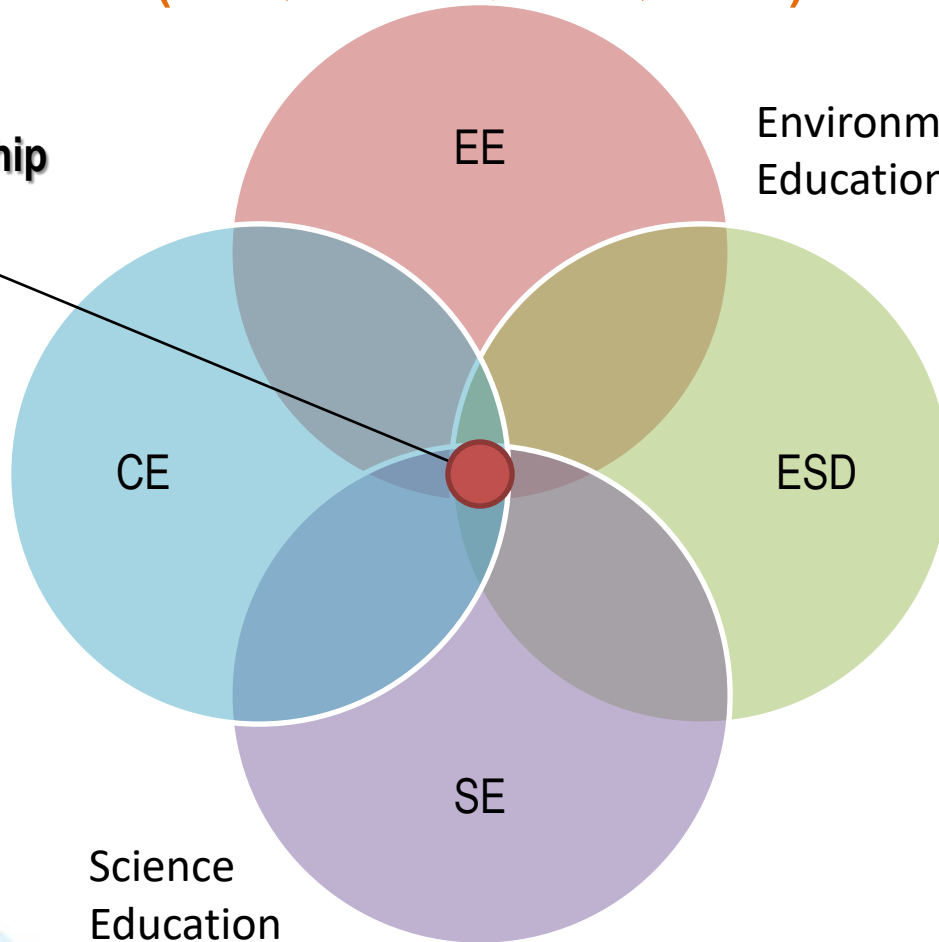
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EEC and other other types of education (EE, ESD, SE, CE)

**Education for
Environmental Citizenship**

Citizenship
Education



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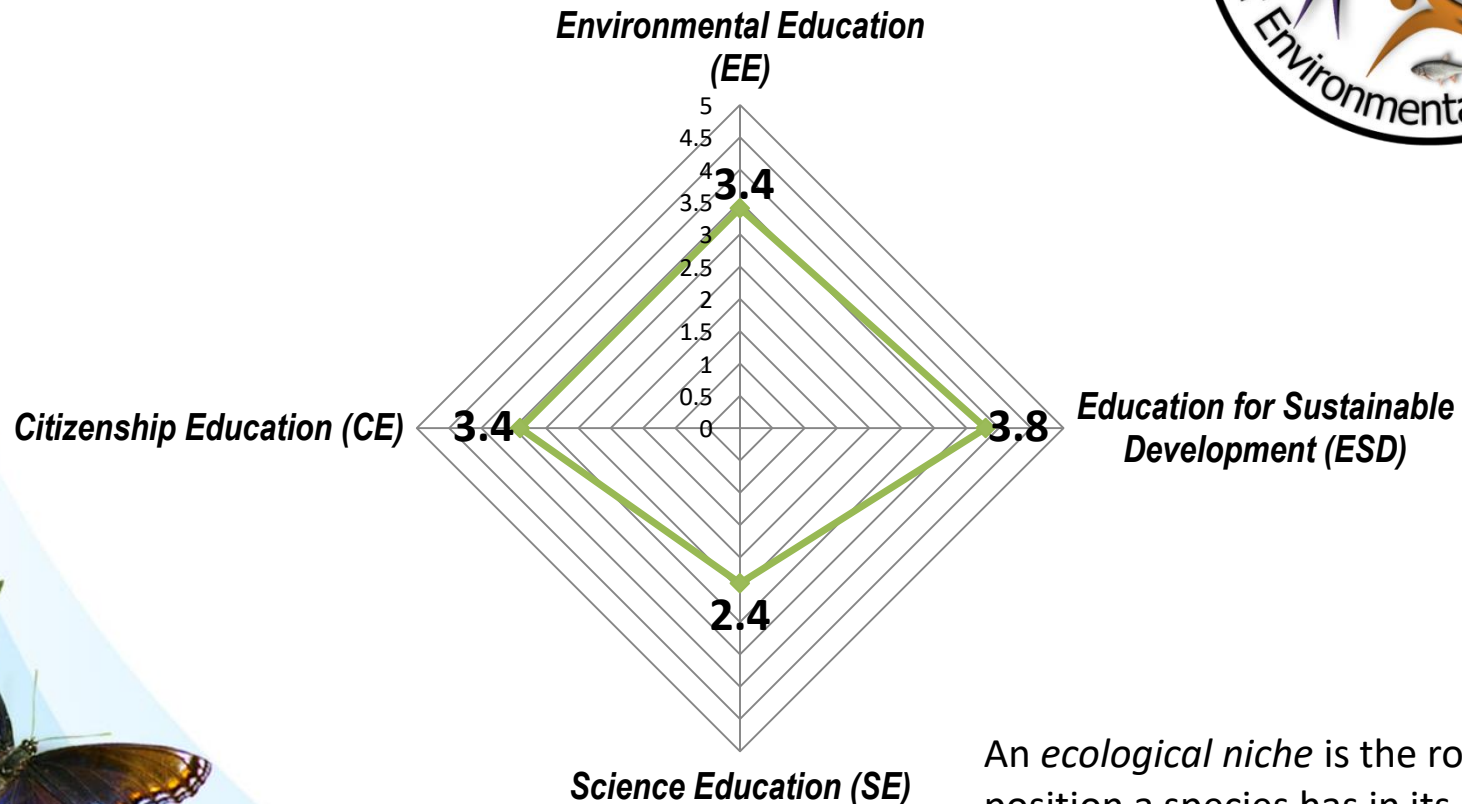
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Final Results on EU Level

167 Experts

28 European Countries

Ecological Niche of Education for Environmental Citizenship



An *ecological niche* is the role and position a species has in its environment



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Environmental Citizenship never was at the heart of our education

Still remains a lively disagreement about the aims of environmental education that may lead to conflicting goals and outcomes (Schild, 2016)

- Despite this clear charge to build a citizenry capable and motivated to work toward better environmental outcomes, both the definition of environmental education and its intended outcomes have been contested and debated for several decades (Disinger, 1997; Fien, 2000; Fraser, Gupta, & Krasny, 2014; Huckle, 1993; Jickling & Spork, 1998).



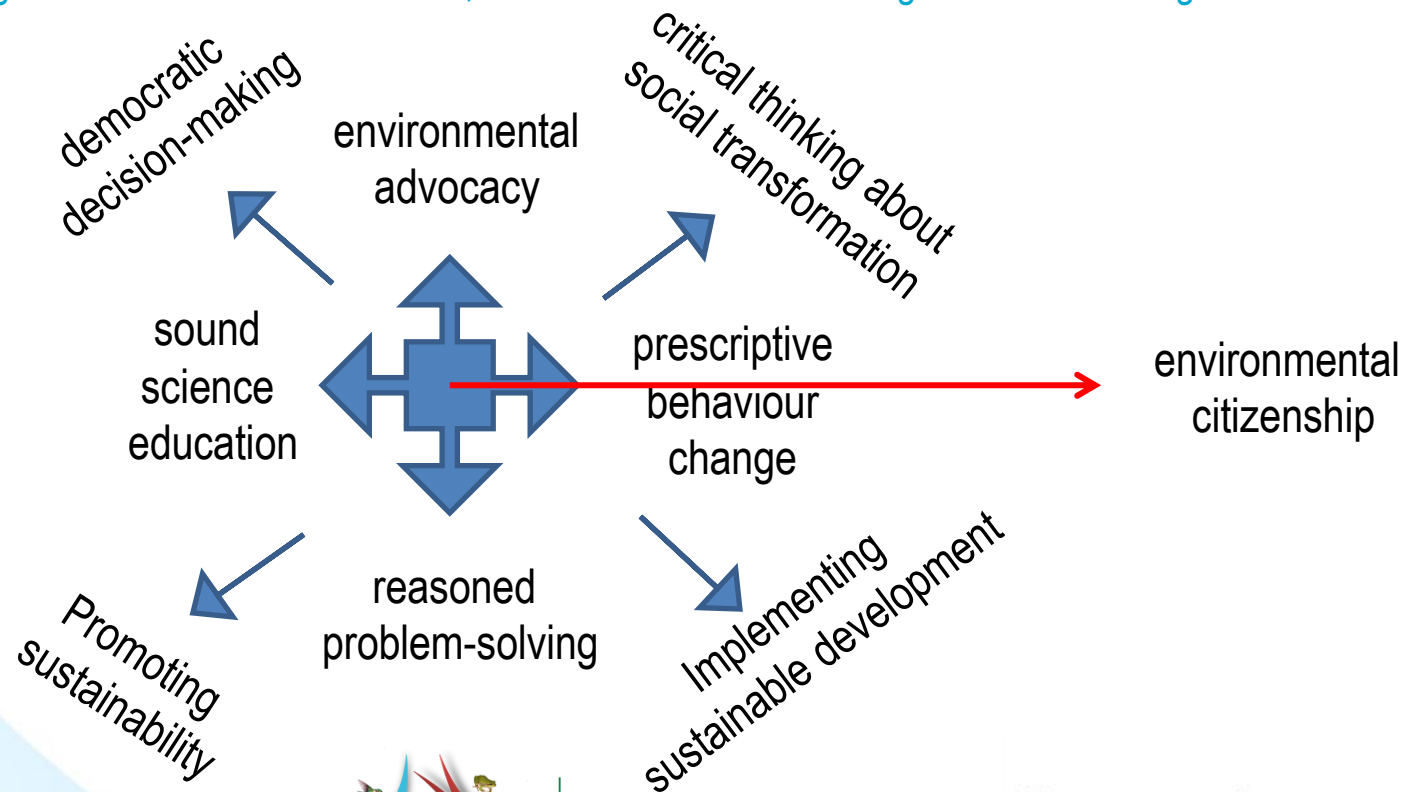
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Environmental Citizenship never was at the heart of our education

Fraser et al. (2014, p. 1) note, “Recently, highly charged critiques from those outside and within EE have fomented debate about EE, challenging whether the field is implicit environmental advocacy or reasoned problem-solving, prescriptive behaviour change or sound science education, democratic decision-making or critical thinking about social transformation.”



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Debate between EE and Citizenship

- According to Jacobi (2005) EE **should be placed** in a broader context, namely education for citizenship and understood as a practice that is decisive in the consolidation of citizen-subjects (p. 243).
- According to Loureiro (2011) EE is a constituent part of social/environmental movement ...and the process of constructing planetary citizenship or ecocitizenship is consider as **a new concept** .



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Debate between EE and Citizenship

- According to Scott (2011) citizenly engagement **should be a priority**.
- He concluded that “the priority must be to engage young people with ideas about sustainability through imaginative teaching strategies that provide stimulating opportunities for learning, including practice in **citizenly engagement** – and that everything else has to be secondary to this”.



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Debate between EE and Citizenship

- According to Dimick (2015) environmental citizenship **should be an educational aim.**
- He stated that “developing students’ civic capacities and dispositions to engage as participatory citizens in relation to environmental issues and concerns” (p. 390) **should be** an educational aim of EE.



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Environmental Citizenship

Influential concept in different arenas such as

- Economy
- Policy
 - Development studies
 - Philosophy
 - Organisational Management and Marketing
 - Could be... exploited furthermore by Education



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ENEC APPROACH

Our Approach...



Education for Environmental Citizenship

- Has something new, innovative and unique to deliver
- Could be the basis for a new Educational Theory which will be developed and promoted by our consortium
- Each one of us here could take the opportunity to contribute to such inspiring initiative within the framework of our project.
- Be part of the genesis of the Education for Environmental Citizenship.



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INTRODUCTION TO EDUCATION FOR ENVIRONMENTAL CITIZENSHIP (EEC)



Our Approach

Home / Our Approach



Environmental Citizenship

"Environmental Citizenship" is defined as the responsible pro-environmental behaviour of citizens who act and participate in society as **agents of change** in the **private** and **public sphere**, on a **local, national** and **global scale**, through **individual** and **collective actions**...



Education for Environmental Citizenship

"Education for Environmental Citizenship" (EEC) is defined as the type of education which cultivates a coherent and adequate body of **knowledge** as well as the necessary **skills values attitudes and competences** that



Environmental Citizen

"Environmental Citizen" is defined as the citizen who has a coherent and adequate body of **knowledge** as well as the necessary **skills, values, attitudes and competences** in order to be able to act and participate in society as an **agent of change**...



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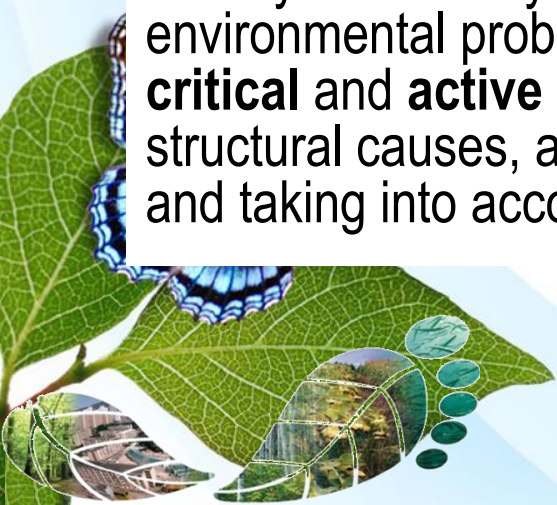
INTRODUCTION TO EEC



I. Defining “Education for Environmental Citizenship”

Education for Environmental Citizenship (EEC) is defined as the type of education which cultivates a coherent and adequate body of **knowledge** as well as the necessary **skills, values, attitudes** and **competences** that an environmental citizen should be equipped with in order to be able to act and participate in society as an **agent of change** in the **private** and **public sphere**, on a **local, national** and **global scale**, through **individual** and **collective actions**, in the direction of **solving** contemporary **environmental problems**, **preventing** the creation of new environmental problems, in **achieving sustainability** as well as **developing a healthy relationship with nature**.

“Education for Environmental Citizenship” (EEC) is important to empower citizens to **exercise their environmental rights and duties**, as well as to identify the underlying **structural causes** of environmental degradation and environmental problems, develop the **willingness** and the **competences** for **critical** and **active engagement** and **civic participation** to address those structural causes, acting individually and collectively within democratic means and taking into account the **inter- and intra-generational justice** (ENEC 2018).



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INTRODUCTION TO EEC



II. Defining “Environmental Citizenship”

“Environmental Citizenship” is defined as the responsible pro-environmental behaviour of citizens who act and participate in society as **agents of change** in the **private** and **public sphere**, on a **local, national** and **global scale**, through **individual** and **collective actions**, in the direction of **solving** contemporary **environmental problems**, **preventing** the creation of new environmental problems, **achieving sustainability** as well as **developing a healthy relationship with nature**.

“Environmental Citizenship” includes the **exercise of environmental rights and duties**, as well as the identification of the underlying **structural causes** of environmental degradation and environmental problems, the development of the **willingness** and the **competences** for **critical** and **active engagement** and **civic participation** to address those structural causes, acting individually and collectively within democratic means, and taking into account **inter- and intra-generational justice** (ENEC 2018).



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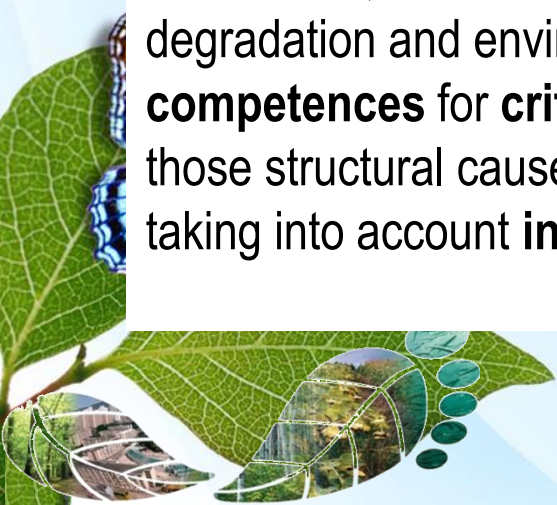
INTRODUCTION TO EEC



III. Defining “Environmental Citizen”

“Environmental Citizen” is defined as the citizen who has a coherent and adequate body of **knowledge** as well as the necessary **skills, values, attitudes** and **competences** in order to be able to act and participate in society as an **agent of change** in the **private** and **public sphere**, on a **local, national** and **global scale**, through **individual** and **collective actions**, in the direction of **solving** contemporary **environmental problems**, **preventing** the creation of new environmental problems, in **achieving sustainability** as well as **developing a healthy relationship with nature**.

“Environmental Citizen” is the citizen who **exercises his/her environmental rights and duties**, is able to identify the underlying **structural causes** of environmental degradation and environmental problems, and has the **willingness** and the **competences** for **critical** and **active engagement** and **civic participation** to address those structural causes, acting individually and collectively within democratic means and taking into account **inter- and intra-generational justice** (ENEC 2018).



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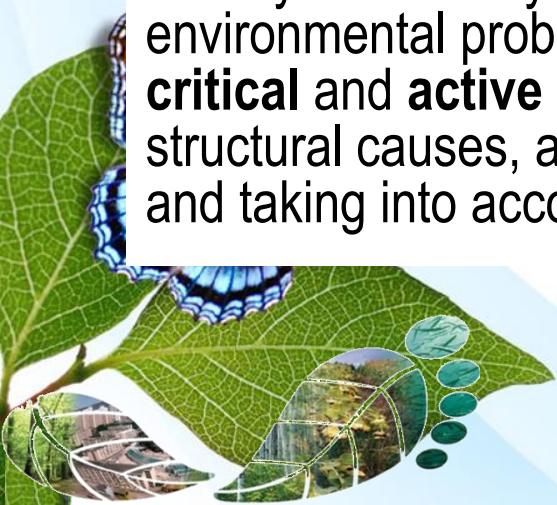
INTRODUCTION TO EEC



I. Defining “Education for Environmental Citizenship”

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“Education for Environmental Citizenship” (EEC) is important to empower citizens to **exercise their environmental rights and duties**, as well as to identify the underlying **structural causes** of environmental degradation and environmental problems, develop the **willingness** and the **competences** for **critical** and **active engagement** and **civic participation** to address those structural causes, acting individually and collectively within democratic means and taking into account the **inter- and intra-generational justice** (ENEC 2018).



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The EEC Model

According to the definition of the Education for Environmental Citizenship (EEC defined by ENEC (2018) there are 8 main intended outputs of the EEC:

- Preventing environmental problems (new)
- Solving environmental problems (current)
- Exercising environmental rights and duties
- Identifying structural causes of environmental degradation and problems
- Achieving critical and active engagement and civic participation
- Promoting inter- & intra generational justice
- Developing healthy relationship with nature
- Achieving sustainability



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The EEC Model



According to the same definition of the Education for Environmental Citizenship (EEC) defined by ENEC (2018) the intended **individual** and **collective actions** should be applied in:

- a. **Private** and **public spheres**
- b. **Local, national** and **global scales**



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Environmental Actions' Classification



How the environmental actions of environmental citizens, can be classified;

Collective Actions

Participate in a protest or demonstration

Connect and influence decision makers

Involvement in local politics

Participation as a member of a union, organization, organization, community

Organizing a campaign - Lobbying

Head of a school of thought

Private sphere

Public sphere

Recycle

Become Volunteer

Choose as consumer

Composting

Support with my presence

Donate for a project

Vote

Individual Actions



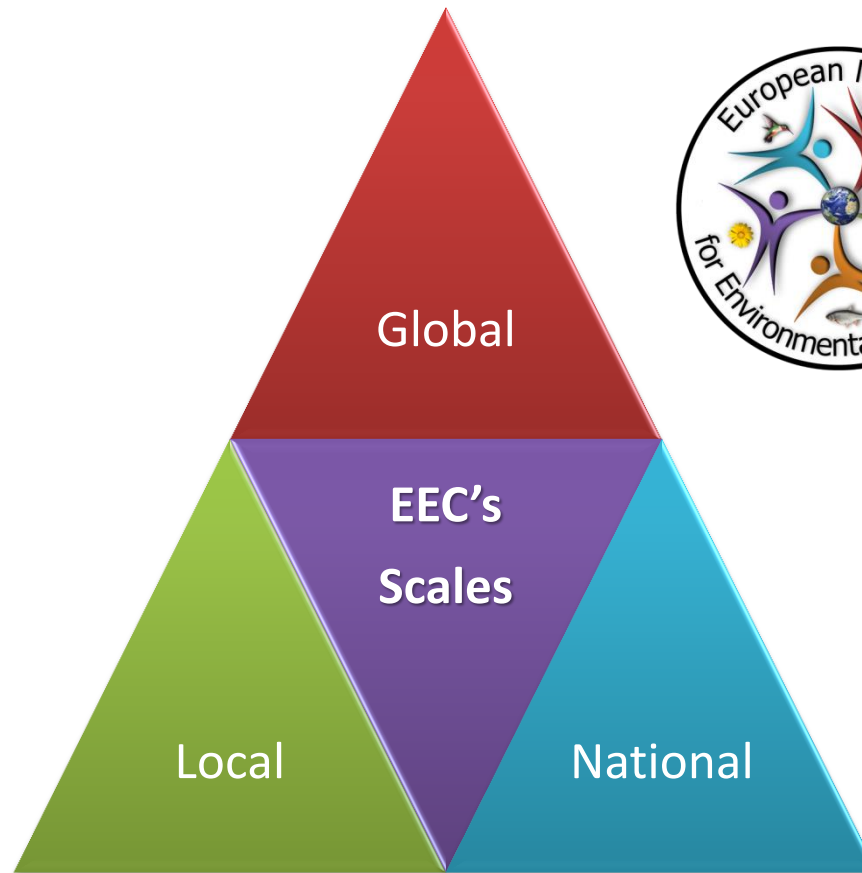
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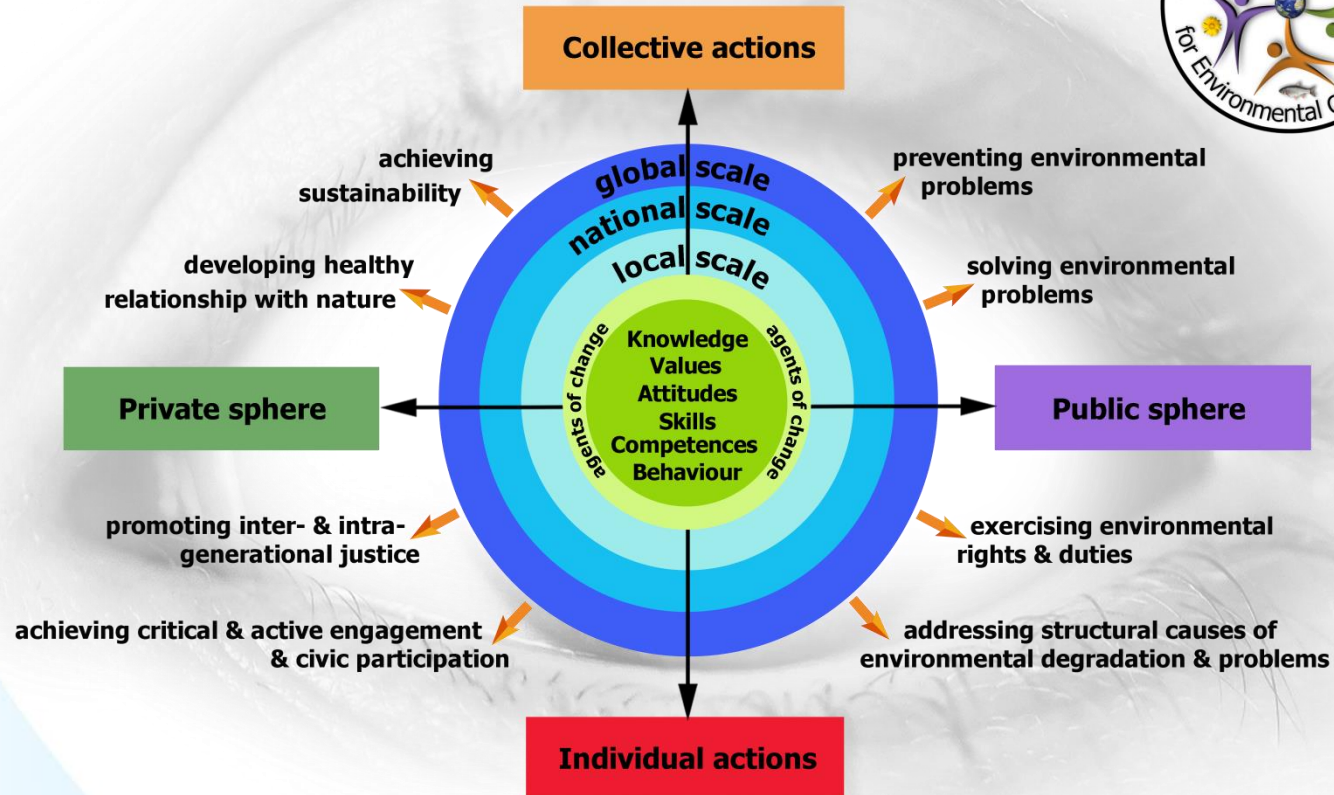
EEC's Scales



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The EEC Model



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THE NEED FOR PEDAGOGICAL APPROACH for Education for Environmental Citizenship



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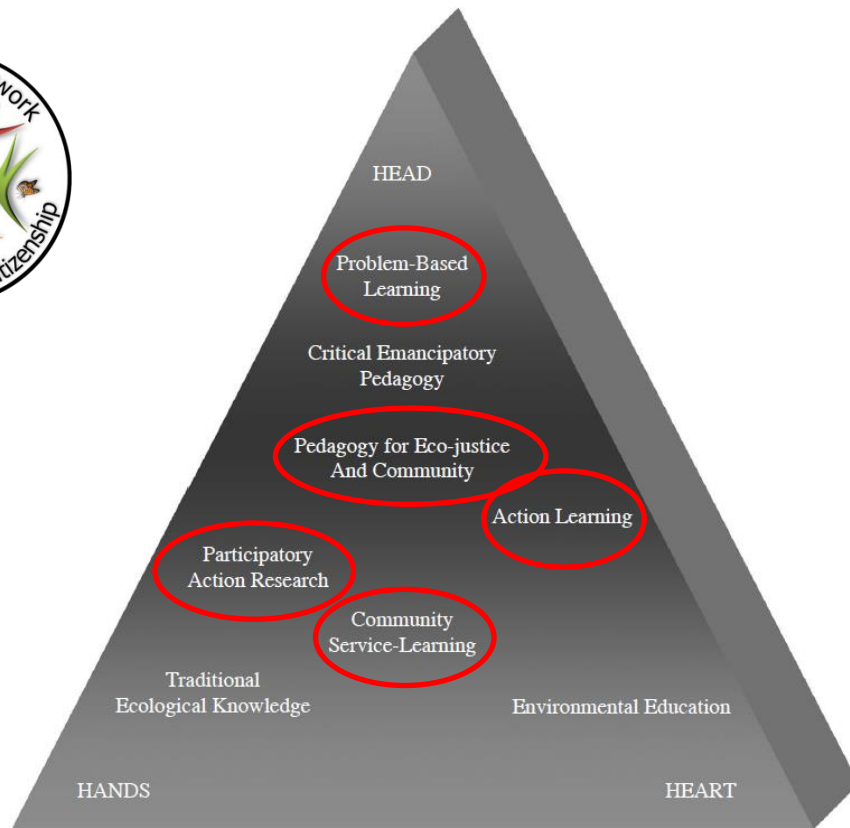
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The pedagogical landscape of EEC

Sustainability and Transformative Sustainability Learning

Achieving TSL

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Notes: This ternary diagram charts the relatedness amongst these pedagogies to each other and to the foci of Head, Hands and Heart. The pedagogies are not fixed in position; their relative positions will be influenced by their particular practice

Source: Sipos, Y.; Battisti, B.; Grimm, K. Achieving transformative sustainability learning: engaging head, hands and heart. *Int. J. Sustain. High. Educ.* 2008, 9, 68–86.

Figure 2. A “pedagogical landscape” of sustainability and transformative learning models based on the organizing principle of head, hands and heart



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Source: Sipos, Y.;
Battisti, B.; Grimm, K.
Achieving
transformative
sustainability learning:
engaging head, hands
and heart. *Int. J.
Sustain. High. Educ.*
2008, 9, 68–86.

Table I.
An overview of some
established pedagogies
that relate to
sustainability and
transformative education

Pedagogical model	Overview of intended learning outcomes
Action learning	A form of experiential learning that enlists peers in helping learners question their assumptions and (optimally) experience a paradigm shift before applying their learning in new situations (McGill and Brockbank, 2004; Revans, 1998)
Peers	An educational approach that integrates service in the community with intentional learning activities. Within effective CSL efforts, members of both educational institutions and community organizations work together toward outcomes that are mutually beneficial (Hayes, 2006, p. 2)
Community service-learning	An ideology for learning facilitation that arises from an emancipatory tradition, focusing on equity amongst classes, races and genders (Mezirow, 1985; Freire, 1970)
Community Organizations	An approach to teaching and learning that provides people with experience and knowledge to care for our environments (Gruenewald, 2004; Orr, 1994)
Critical emancipatory pedagogy	A summary of terms in social science that refer to involvement of participants in the research process, commitment to social change, and that include aspects of social learning. There are many ways to define true participation, action and exactly what constitutes true research (Moore, 2005b; Coghlan and Brannick, 2001, Ch. 1; Stringer, 1999)
Emancipatory Equity	An ideology for learning facilitation that acknowledges and finds tensions in “industrial mindset,” works to replace attitudes with the metaphor of ecology (Bowers, 2001)
Environmental education	A framework for learning that is focused, experiential and organized around investigation of real-world problems. Authentic experiences foster active learning, support knowledge construction and integrate school learning and real life (Association for Supervision and Curriculum Development, 2005; Barrows, 1994)
Care for environment	Knowledge bases built by local or traditional resource users, as opposed to “experts”; argues for acknowledgement of more diverse forms of knowledge (as opposed to simply expert western science) (Berkes, 2004; Turner <i>et al.</i> , 2000)
Participatory action research	
Social learning	
Pedagogy for eco-justice and community	
Social justice	
Problem-based learning	
Authentic real-world problem	
Traditional ecological knowledge	
Traditional resources of knowledge	



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Pedagogical Approaches of EEC



The following pedagogies, teaching tools and learning schemes could promote EEC:

- Place based education
- Civic ecology education
- Ecojustice pedagogy
- Environmental Action Competence



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Enriching Lives Through
**Place-Based
Education**

What is Place-based education?

- Place-based education (PBE) immerses students in local environment, heritage, cultures, landscapes, opportunities and experiences. PBE emphasizes learning through participation in service projects for the local school and/or community.
 - Research has shown that well-designed initiatives can:
 - PBE boosts **students' engagement, academic achievement**, and sense of **personal efficacy as stewards** of their local environment and community. It also can re-energize teachers.
 - PBE forges strong ties between **local social and environmental organizations** and their constituencies in the schools and community, which helps to improve quality of life and economic vitality.
 - Through project-based learning, students make tangible contributions to **resolving local environmental issues** and conserving local environmental quality.



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Source: <https://promiseofplace.org/what-is-pbe/what-is-place-based-education>

Principles of Successful Place-Based Education

- Learning **takes place on-site** in the school yard, and in the local community and environment.
- Learning focuses on **local themes, systems, and content**.
- Learning is **personally relevant** to the learner.
- Learning experiences contribute to the **community's vitality and environmental quality** and **support the community's** role in fostering global environmental quality.
- Learning is supported by strong and varied **partnerships** with local organizations, agencies, businesses, and government.
- Learning is **interdisciplinary**.
- Learning experiences are tailored to the **local audience**.
- Learning is grounded in and supports the development of a **love for one's place**.
- Local learning serves as the foundation for **understanding and participating appropriately in regional and global issues**.
- Place-based education programs are integral to achieving **other institutional goals**.



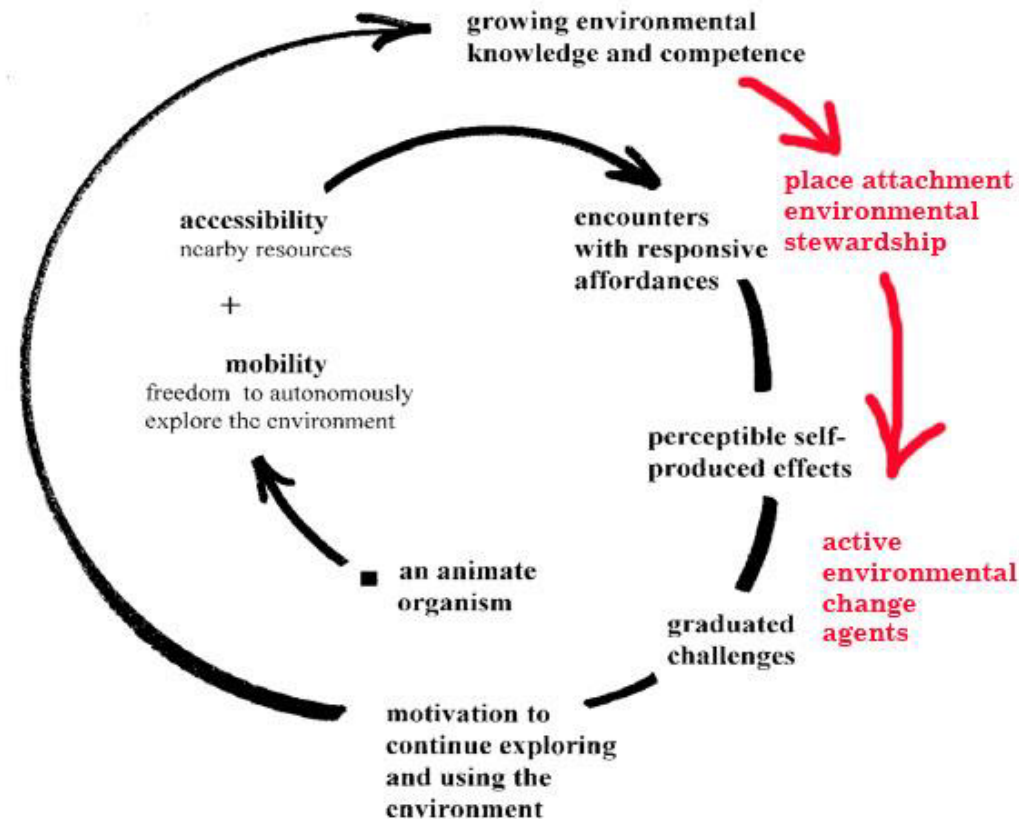
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Basic Research and Innovation

Source: <https://promiseofplace.org/what-is-pbe/principles-of-place-based-education>

Positive interactive cycle of accessibility, mobility and engagement with environment leading to environmental change agency (Malone 2012 p. 30, adapted from Chawla 2007, p. 155)



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Civic ecology education

- Civic ecology pedagogy (Tidball & Krasny, 2010), can provide another one example of how environmental citizenship could be promoted.
- Civic ecology is defined as “**stewardship practices** that integrate social and environmental values within a social—ecological systems framework ... where participants act as **stewards of their environment** through such practices as community gardening, community forestry, and watershed restoration” (Tidball & Krasny, 2010, p. 466).



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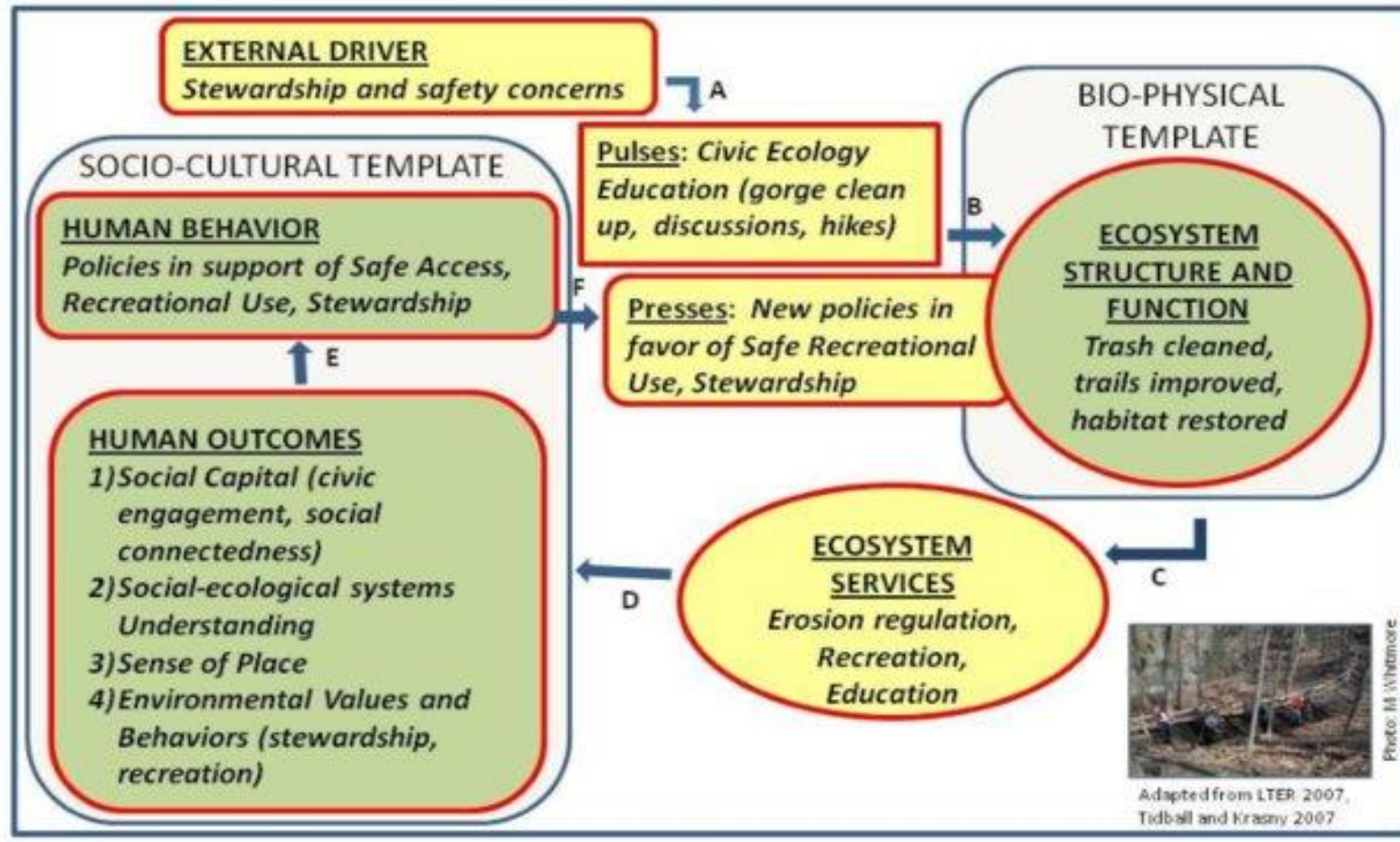


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Civic Ecology Education

Example from Friends of the Gorge Student Organization



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Ecojustice pedagogy



- Calls for time spent in “**out-of- classroom spaces and places; experiencing the knowledge of different cultures** and cultural relationships to place; gaining a diversity of natural history knowledge; and **developing community relationships and actions**” (McKenzie, 2008, p. 366).
- Ecojustice pedagogy, **bridges western scientific knowledge with traditional ecological knowledge (TEK)** through **critical** and relational discourse, coupled with an **interdisciplinary** approach to learning, helps us move beyond the binary and disconnect.
 - It adds an ecological lens on **social justice**. In other words, it extends values of justice to include the environment and ‘environmental racism’ (Bowers, 2002).



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Action Competence Learning

- As an educational approach, environmental action aims not to modify specific behaviours like recycling or saving water, but rather **engages youth in planning and taking action** on environmental issues they find relevant.
- It involves **shared decision making**, which occurs when adults and youth collaborate in planning, implementing, and evaluating a project, whether the project is initiated by youth or adults.

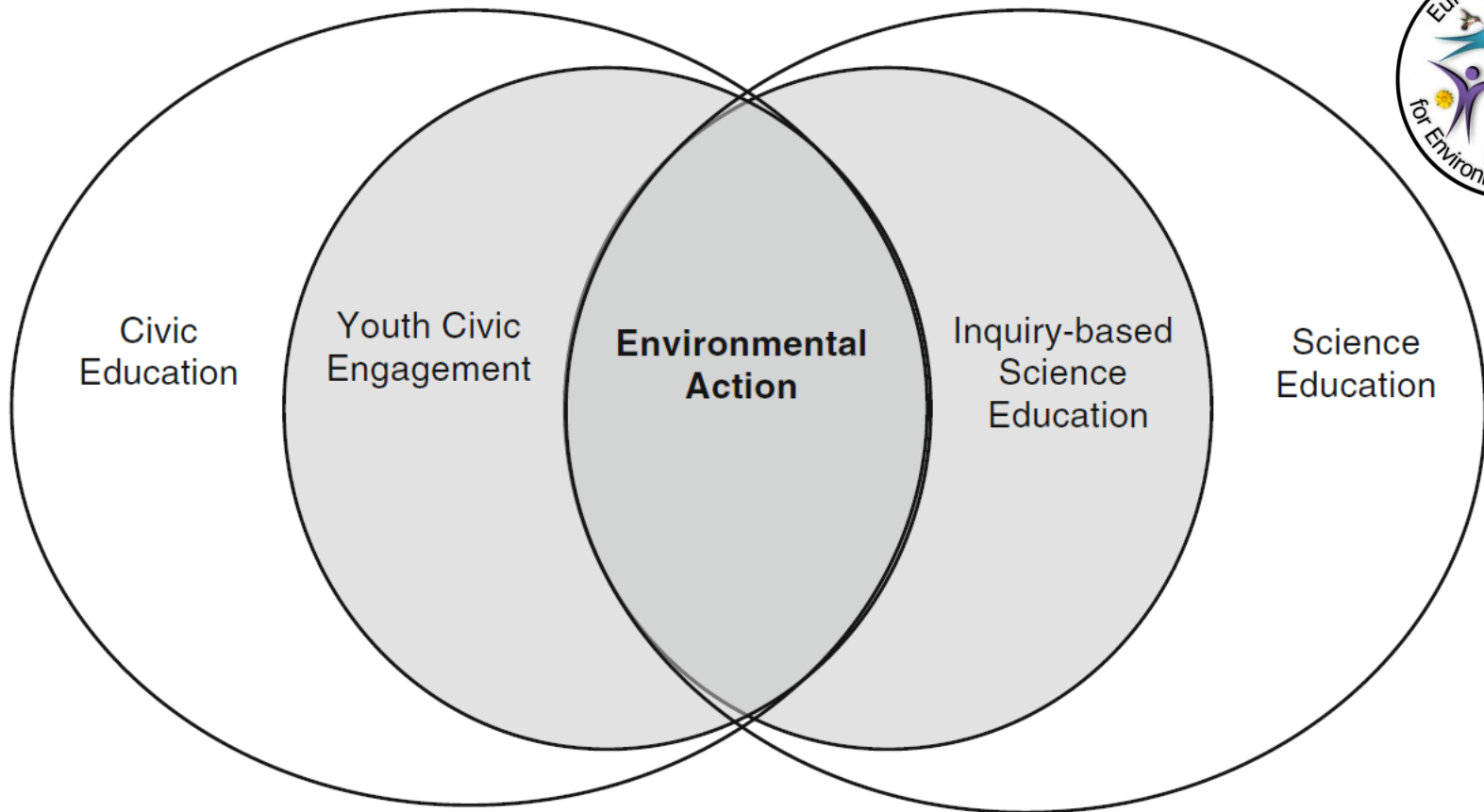


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Environmental action occurs at the intersection of youth civic engagement and inquiry-based education



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Several examples of youth environmental action have been documented in educational practice:



- **Physical environmental improvements** (e.g., planting trees to stabilize streambanks; transforming vacant lots into community gardens);
- **Community education** (e.g., organizing community information fairs; producing educational media like newsletters or videos);
- **Inquiry** (e.g., community assessments, surveys, and mapping; scientific experiments designed to inform or evaluate action);
- **Public issue analysis and advocacy for policy change** (e.g., researching and analyzing the environmental impacts of on-site wastewater treatment regulations and presenting policy recommendations to a state legislative committee); and
 - **Products or services contributing to community development** (e.g., sustainably growing food for sale at a neighbourhood farmers market).

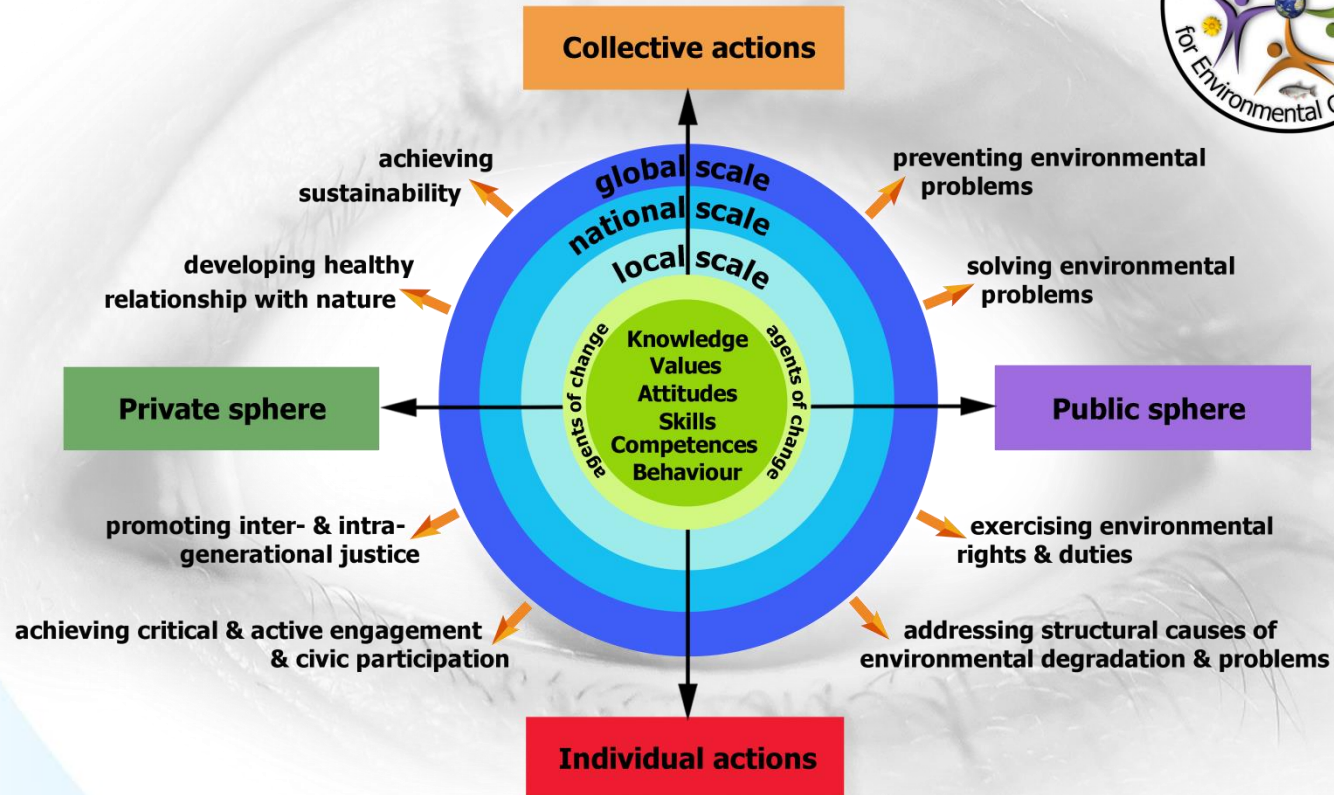


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The EEC Model



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Education for Environmental Citizenship Pedagogical Approach

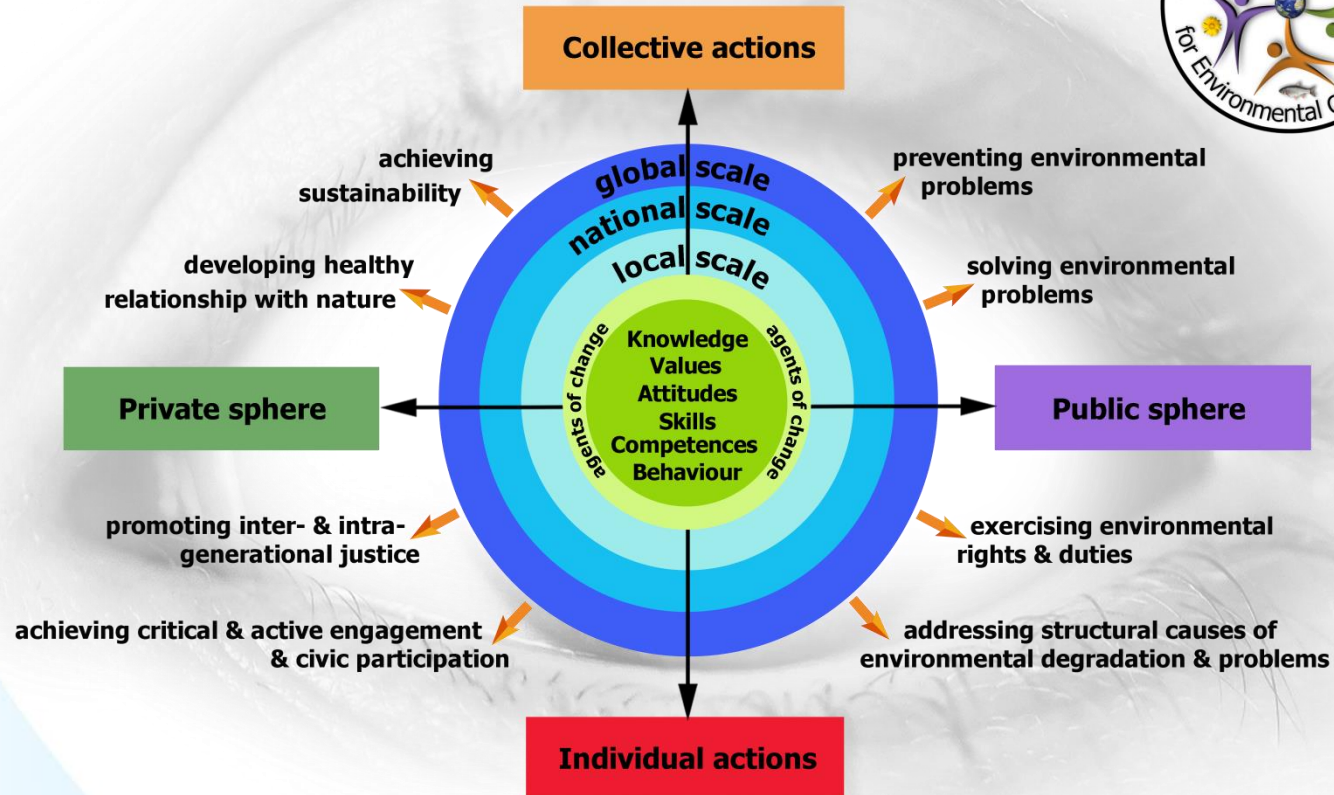


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The EEC Model



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Conclusion

- Productive and fruitful Training School
- Be familiar with the pedagogical approaches proposed
- Examine the possibility of introducing some aspects of the Education for Environmental Citizenship in your research.

Thanks for your attention

Dr Andreas Hadjichambis

ENEC, Action Chair



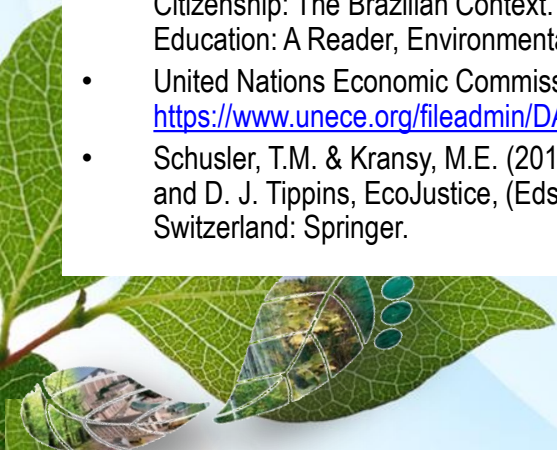
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