

UNFU

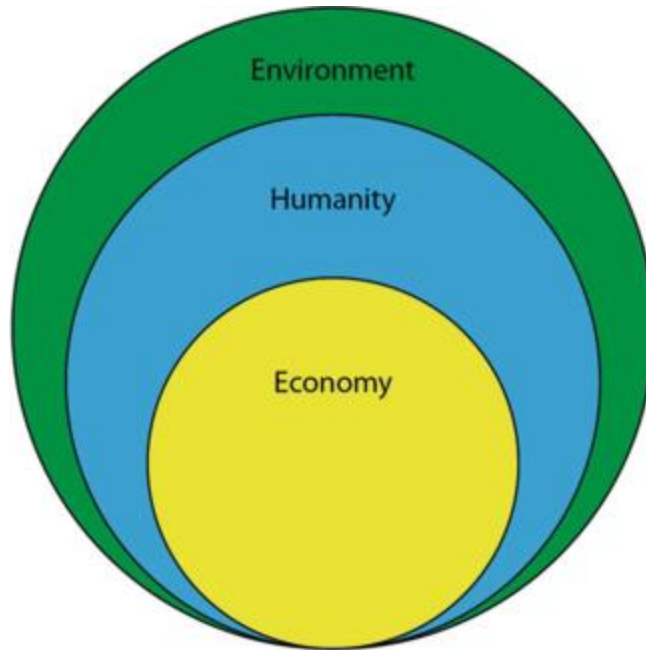
### LESSON PLAN

<b>Title of the thematic unit</b>	Ecological economics as an instrument for sustainability
<b>Length</b>	<b>8 hours:</b> two hours for teachers' presentation, two hours for students' posters presentations, two hours for business simulation, and two hours for debates/Role game on stakeholders
<b>Learning outcomes</b>	<p>After this lesson, students should be able to:</p> <ul style="list-style-type: none"> <li>• Understand concept of ecological economics and its role in achievement of sustainable development</li> <li>• Identify cases of nonsustainable behavior (both, individual or production)</li> <li>• Structure and explain nature of the cases /problem</li> <li>• Identify stakeholders of the problem</li> <li>• Propose means and solutions for deliberative decision-making</li> <li>• Develop effective team-working, analytical, strategic, and leadership skills</li> </ul>
<b>Teaching and learning aids and materials</b>	<ul style="list-style-type: none"> <li>• Multimedia projector</li> <li>• Students' posters</li> <li>• Pens,</li> <li>• Memory sticks</li> </ul>
<b>Learning methods and techniques</b>	<ul style="list-style-type: none"> <li>• Problem-based learning</li> <li>• Discussion</li> <li>• Structuring and Presentation</li> <li>• Brainstorming</li> <li>• Sustainable business simulation</li> </ul>

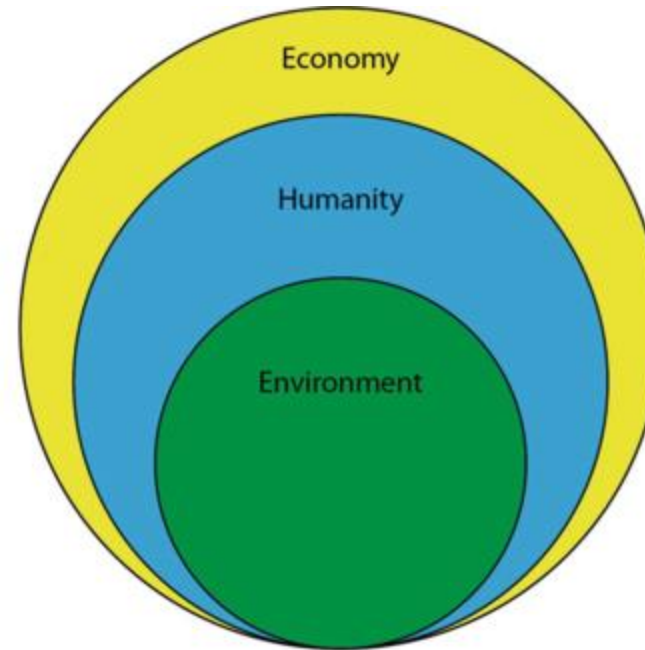
<b>Instructions (course of the lesson)</b>	<p>Hour 1</p> <p>the 1<sup>st</sup> half of the first hour- a short spot schoolkid (58 sec.) and introduction to the lecture</p> <p>the 2<sup>nd</sup> half of the first hour – explanation of the essence of ecological economics and its vision of the real world</p> <p>Hour 2 - Structuring and explanation of nature of the identified cases /problem, Identification of – a brief overview of a problem-based learning steps: Identification of a case or problem of nonsustainability stakeholders of the problem, Proposition of means or solutions for deliberative decision-making</p> <p>A video on ecological economics 5-15 min. should be shown (for instance <a href="https://www.youtube.com/watch?v=cj-FkxWphI">https://www.youtube.com/watch?v=cj-FkxWphI</a>, or <a href="https://www.youtube.com/watch?v=JFIBZIDTPzY&amp;list=PLMiNCvvSotv0vA90Z9WOBMsRnYjOSf4Mi&amp;index=4&amp;t=2s">https://www.youtube.com/watch?v=JFIBZIDTPzY&amp;list=PLMiNCvvSotv0vA90Z9WOBMsRnYjOSf4Mi&amp;index=4&amp;t=2s</a>, <a href="https://www.youtube.com/watch?v=il779TrHT1M&amp;list=PLMiNCvvSotv0vA90Z9WOBMsRnYjOSf4Mi&amp;index=2">https://www.youtube.com/watch?v=il779TrHT1M&amp;list=PLMiNCvvSotv0vA90Z9WOBMsRnYjOSf4Mi&amp;index=2</a></p> <p>Hour 3 – Practice. Students’ presentation of their posters on Examples of Ecological Economics principles application in real life (cases related to their experiences and interests)</p> <p>Hour 4 – Discussion of the students’ presentations</p> <ul style="list-style-type: none"><li>- Do the principles of Ecological Economics works? Do they fail?</li><li>- Why sometimes in real life they are not achieved?</li><li>- How Ecological Economics can contribute to more sustainable everyday behavior?</li></ul> <p>Hours 5-6 – Business simulation (<a href="https://www.edumundo.com/en/sustainable-business-simulation">https://www.edumundo.com/en/sustainable-business-simulation</a>)</p>
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	<p>Hours 7-8 – debates/Role game</p> <ul style="list-style-type: none"> <li>- Debates on robustness of ecological economics methods</li> <li>Or/and Role game on stakeholders:</li> <li>- Who are stakeholders?</li> <li>- What are their preferences in decision-making? Stakeholders’ maps of preferences generation</li> <li>- What are synergies and tradeoffs concerning analyzed project</li> <li>What are steps and instruments for deliberative decision making</li> </ul>
<p><b>Evaluation (assessment)</b></p>	<ul style="list-style-type: none"> <li>- Competition of the posters</li> <li>- Essay on Ecological Economic as best instruments of changing our world view towards sustainable vision of the world</li> <li>- Knowledge tests on ecological economics</li> </ul>

## Foundations of ecological economics



**ECOLOGICAL ECONOMICS**

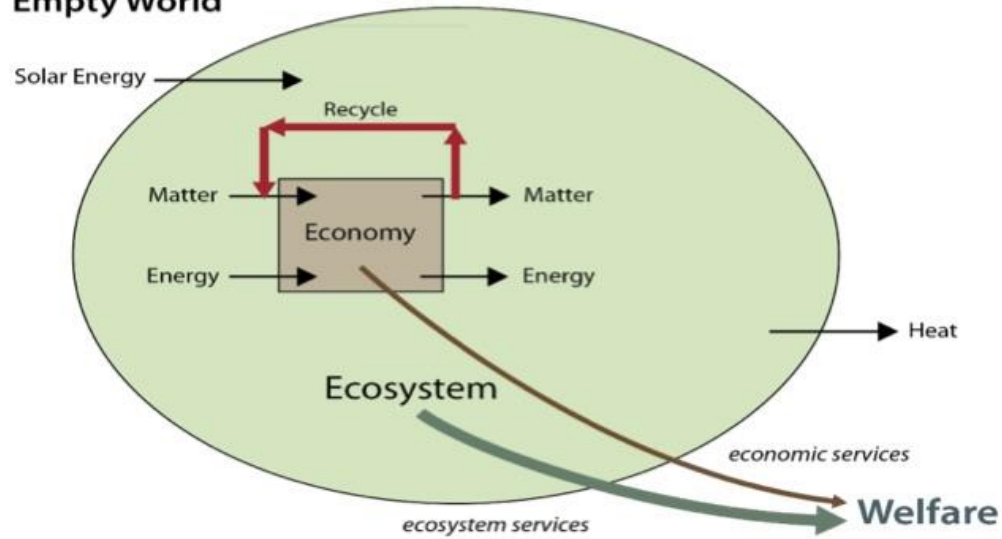


**NEO-CLASSICAL ECONOMICS**

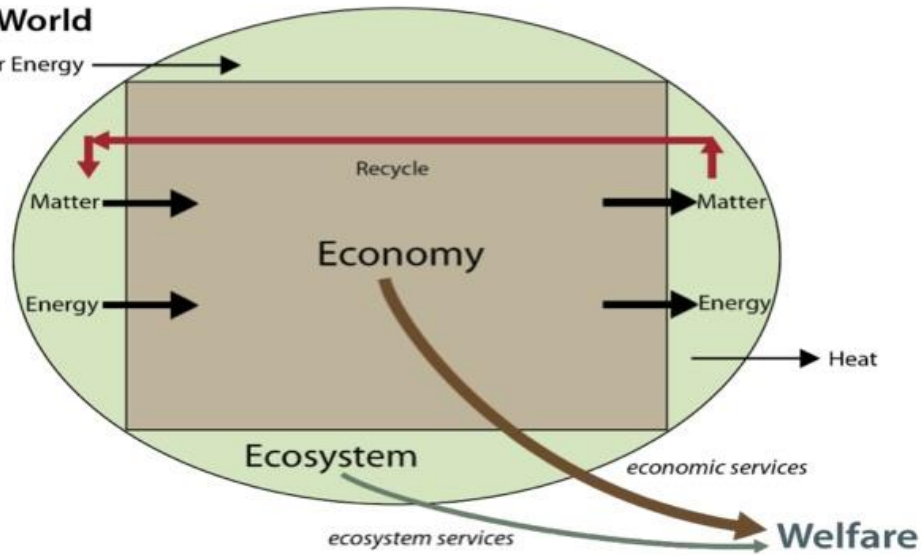
T. G. O'Higgins et al. (eds.), 2020. Ecosystem-Based Management, Ecosystem Services and Aquatic Biodiversity. -

[https://doi.org/10.1007/978-3-030-45843-0\\_5](https://doi.org/10.1007/978-3-030-45843-0_5)

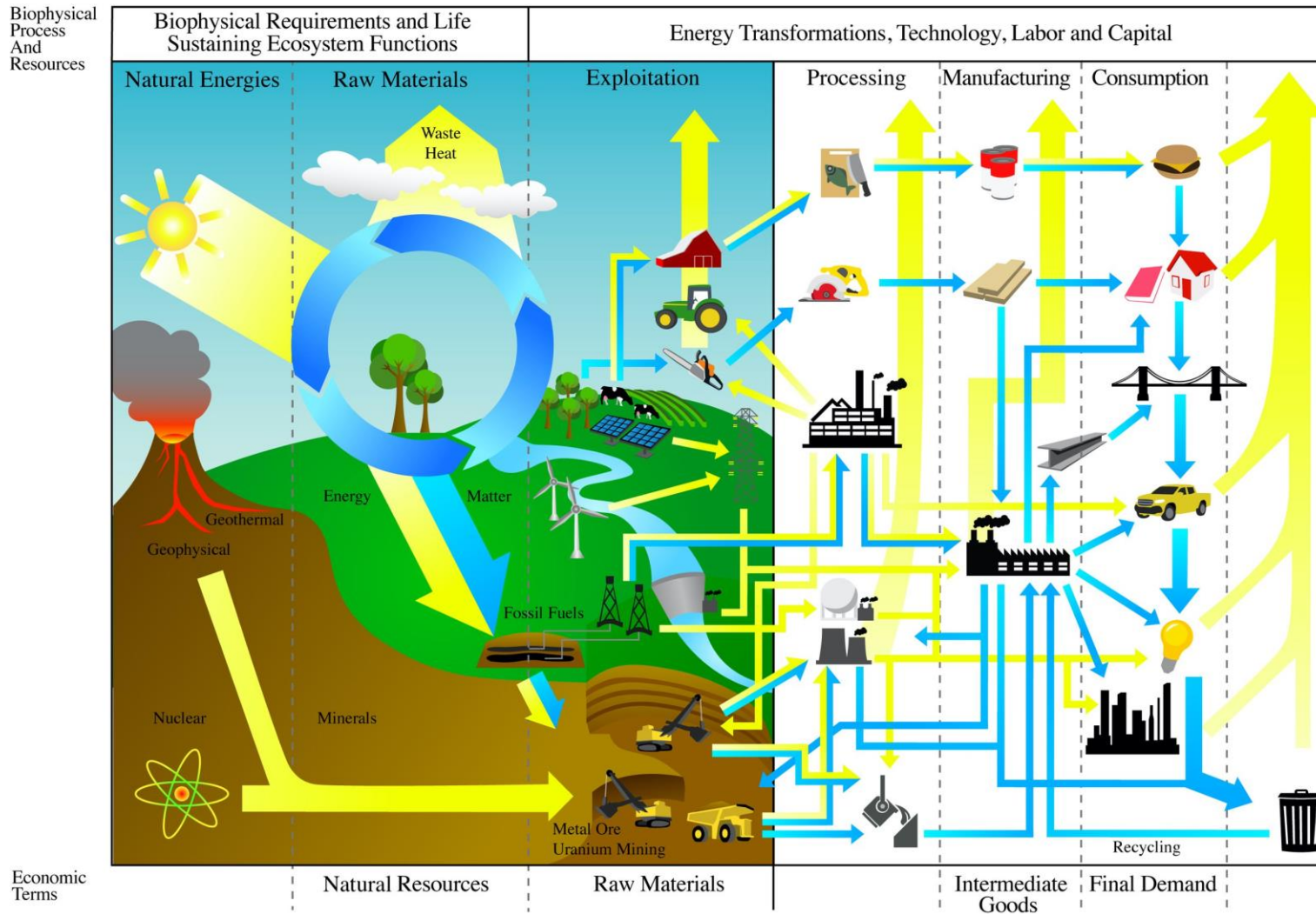
### Empty World



### Full World



# The Biological and Physical Foundation of Socio-Economic Systems



### 3 EE goals of sustainable scale, just distribution and efficient allocation

