

# M2. Environment Quality

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# Module units

2.1 Environmental Quality - Air, Water and Soil

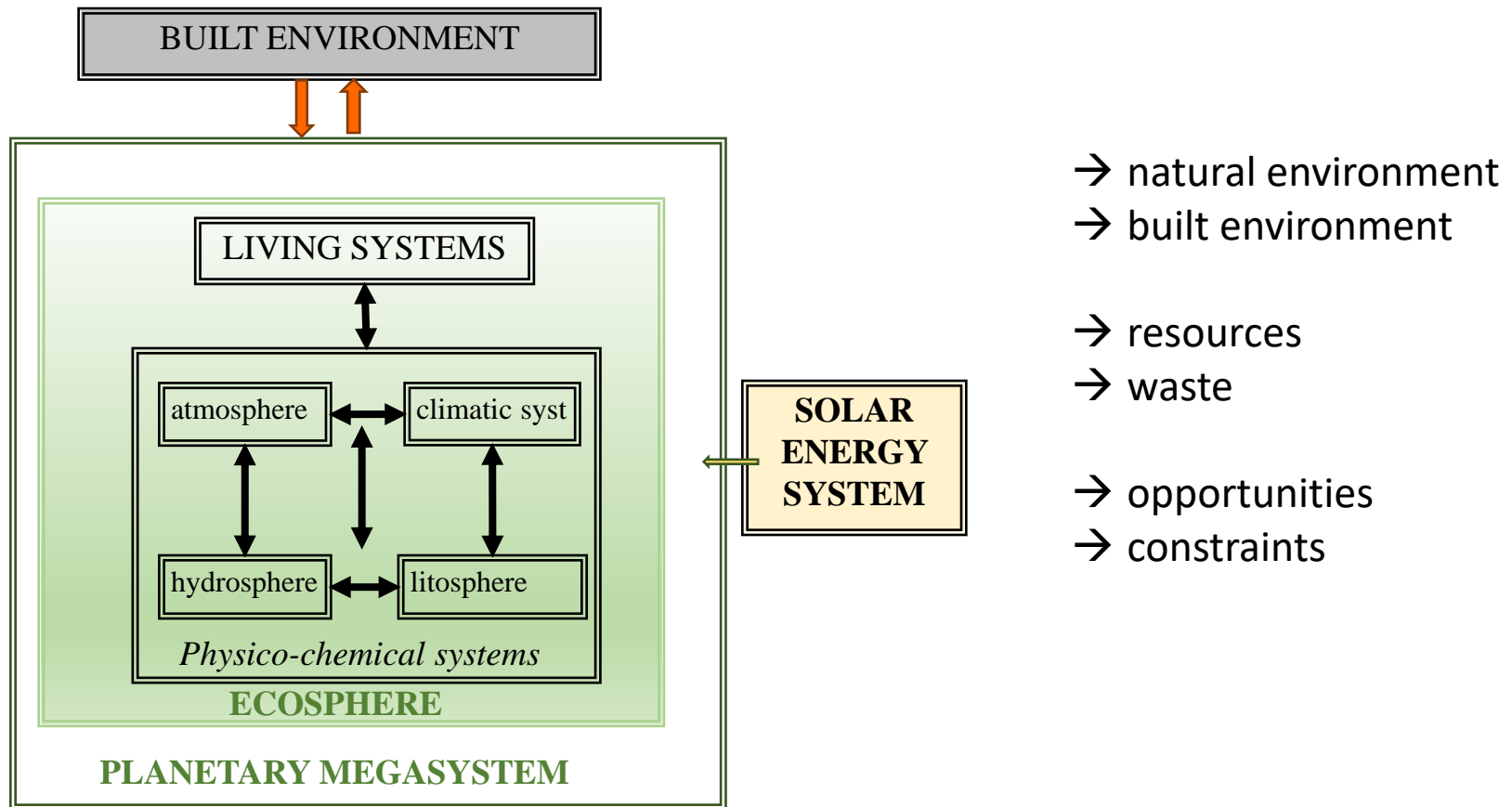
2.2 Legislation Related to Environmental Quality

2.3 Case studies in Romanian and Icelandic communities

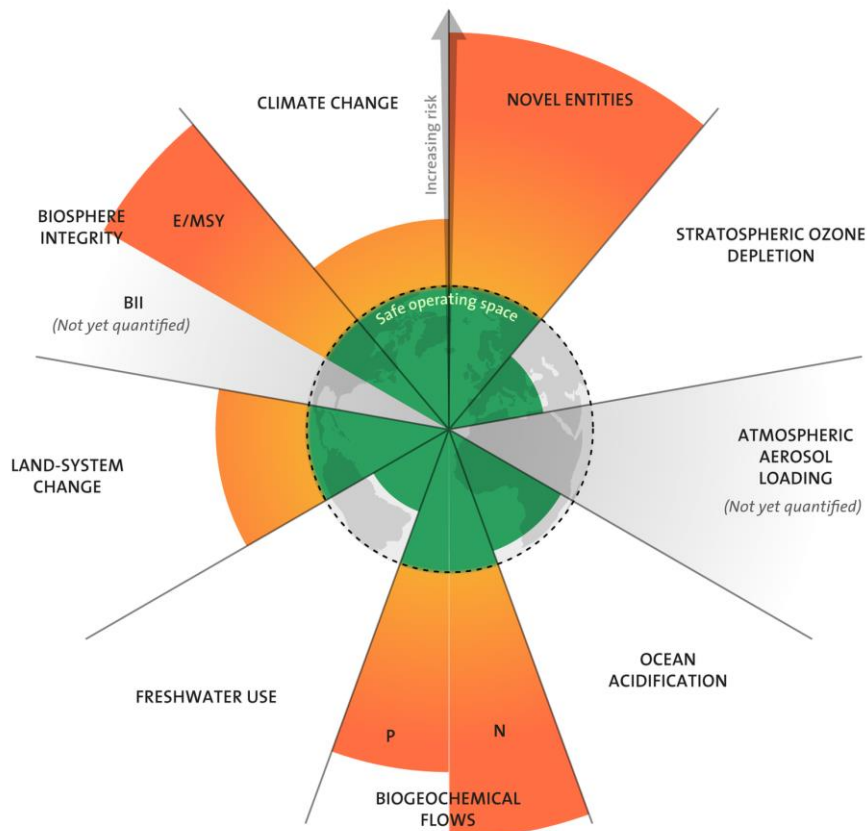
# Aim of the module

- To provide information to foster the understanding that humans are part of and depend on natural environment.
- To provide information to explain environmental problems at local/global level

# Which is the global context related to the environment quality?



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**Sustainability:** prioritizing the needs of all life forms and of the planet by ensuring that human activity does not exceed **planetary boundaries**

- Description of human activities causing or accelerating detrimental changes to the planet
- How these changes affect human health/ social development

# How we transfer it at local level?

## Global aspects

Biosphere integrity  
Land-use change  
Climate change  
Freshwater use  
Ocean acidification  
Biogeochemical flows (N and P)  
Atmospheric aerosol pollution  
Stratospheric ozone depletion  
Release of novel chemicals

## Local level

### Case studies

#### RO and IS

Situations requesting action that restores/ maintains ecosystem health envisioning sustainable future

Learners can think, plan, act with sustainability in mind, to live in harmony with the planet

## 2.1 Environmental Quality - Air, Water and Soil

Which are the most relevant information regarding the environmental quality?

- Quality indicators as given in environmental legislation (EU directives and national transposition)
  - definitions
  - significance/ interpretation/ correlations
  - accepted limits
  - analytical methods/ standards

# Which are the institutions responsible for the environmental quality assessment & monitoring

## RO

- Environmental Protection Agency – air, soil, noise
- Romanian Waters National Administration
  - Natural waters
  - Waste waters – at effluent
- Environmental Guard – assessment (coercive role)

## IS

- .....



## 2.2 Legislation Related to Environmental Quality

- Cristina...

## 2.3 Case studies in Romanian and Icelandic communities

Environmental problems in rural communities

→ environmental quality

IS:

## References

- <https://www.stockholmresilience.org/research/research-news/2022-01-18-safe-planetary-boundary-for-pollutants-including-plastics-exceeded-say-researchers.html>
- <http://www.anpm.ro/>
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- Sandanayake, T.C., Karunanayaka, S.P., Madurapperuma, A.P., *A framework to design open educational resources – integrated on-line courses for undergraduate learning: A design-based research approach*, Education and Information Technologies, 26 (2021) 3135–3154



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