



CLIP

Collaborative Innovation lab Incubation Program



Fostering sustainability competences: The role of University as catalyser

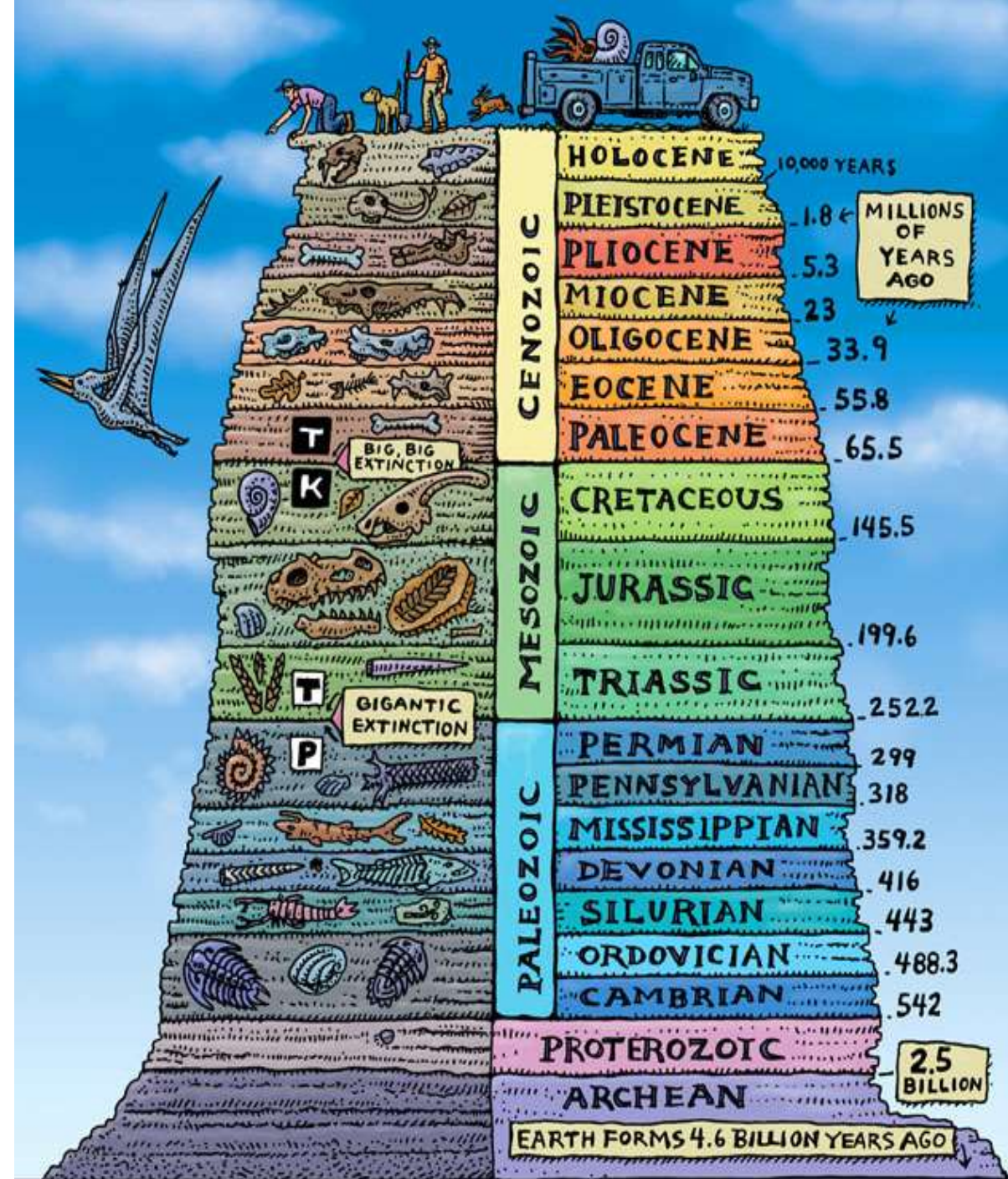
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Anthropocene: (A new geological epoch?)

- Earth is now moving out of its current geological epoch (Holocene)
- “Antropos” = Human | “Kainos” = New
- Human activity is largely responsible for this exit

Source: Artwork by Ray Troll



Sustainability Vs. Sustainable development

- **Sustainability:**

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

e.g: Ecosystem services research

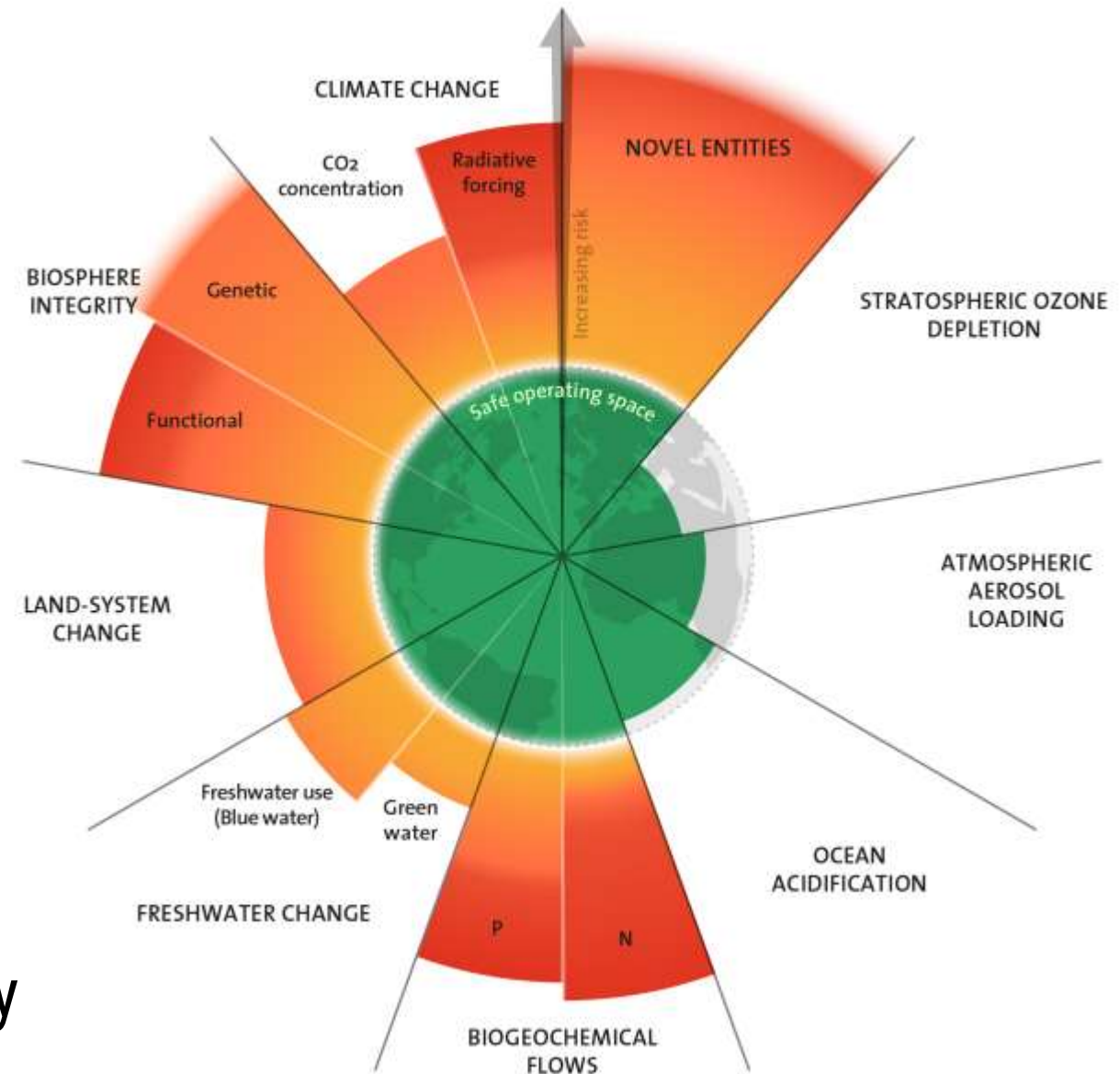
- **Sustainable Development**

Type of development to ensure that it meets the needs of the present without compromising the ability of future generations to meet their own needs.

Planetary Boundaries

1. Climate change
2. Biosphere Integrity
3. Stratospheric Ozone Depletion
4. Land System Change
5. Freshwater Use
6. Biogeochemical Flows
7. Ocean Acidification:
8. Atmospheric Aerosol Loading
9. Chemical Pollution

The latest update (In Sept 2023) not only quantified all boundaries, it also concludes that **six of the nine boundaries** have been transgressed



Source: Resilience Centre, Stockholm University.

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e.g: Sustainable Development Goals

Sustainability Vs. Sustainable development

Published by the UN in 2015.

They aim for all countries and sectors to work in partnership to address key sustainable development challenges by 2030



What specific sustainability skills and competences should be instilled in present and future generations?

Four main blocks of competences:

1. Embodying sustainability values
2. Embracing complexity
3. Envisioning sustainable futures
4. Acting for sustainability

GreenComp

The European sustainability competence framework

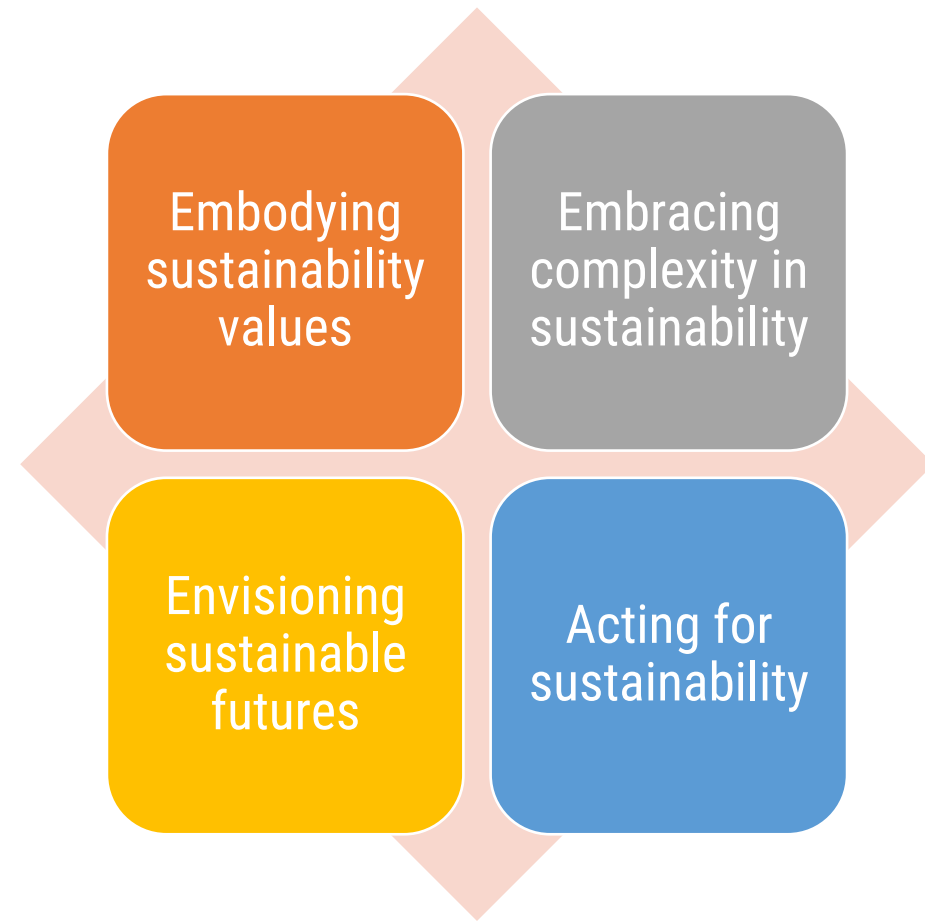


Garden of the Sustainability competences



Universities and Innovation Labs play a role to foster these sustainability *competences*!

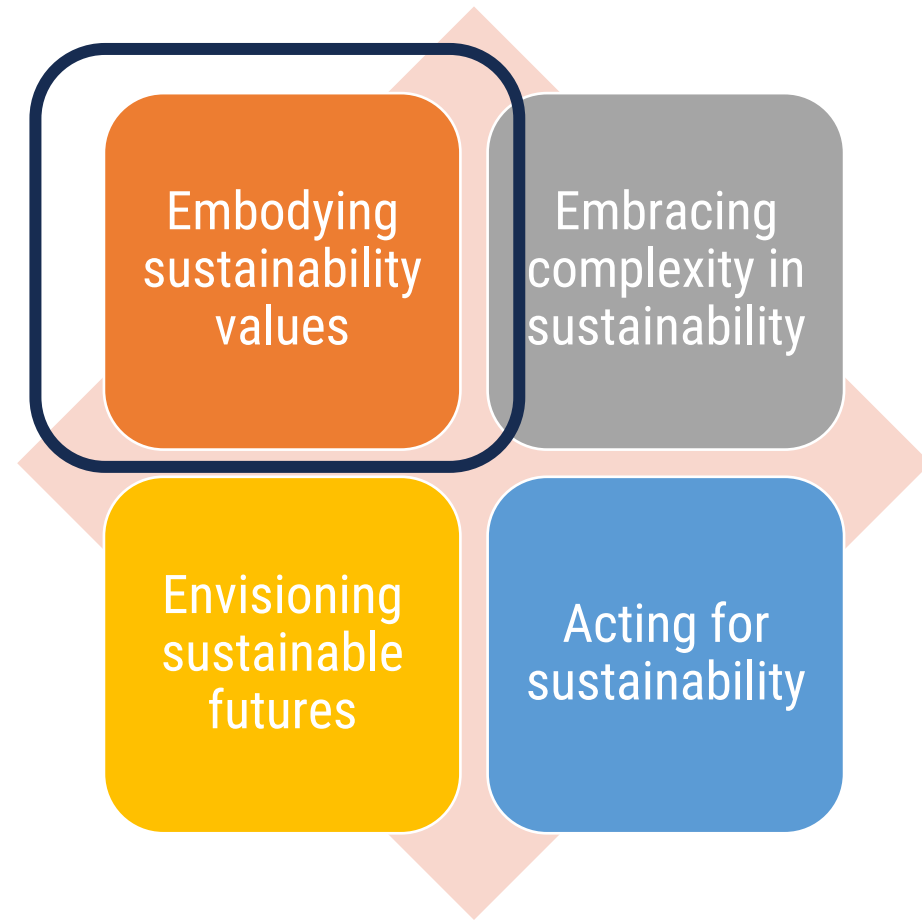
- Knowledge
- Skills
- Attitudes



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- Knowledge
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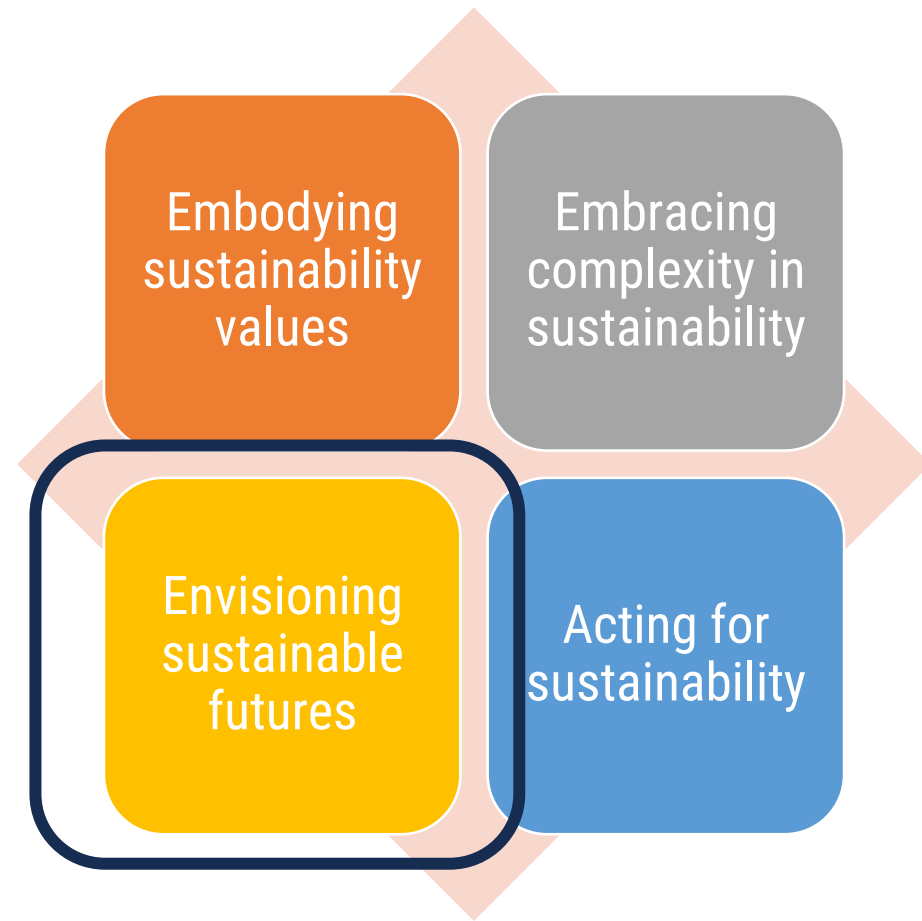
- Anthropocentrism
- Technocentrism
- Eco-centrism



Universities and Innovation Labs play a role to foster these sustainability *competences*!

- **Knowledge**
- **Skills**
- **Attitudes**

- Expected future
- Alternative future(s)
- Preferred future



University role for sustainability

- Universities are responsible for prepare students with both traditional degrees, but also the ability to act as *agents of change* throughout the world.
- Universities must prepare students “***to apply their knowledge to solve unprecedented problems***”

From ***passive knowledge*** creation toward a proactive and engaged role within their regions

A group of students are seated in a lecture hall, looking towards the front. The image is dimly lit with a dark blue overlay. The students are of various ages and are dressed in casual attire. Some are resting their heads on their hands, while others are looking attentively.

Thanks

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