Water and Environment Support
in the ENI Southern Neighbourhood region

Educating for Sustainable Development (ESD) with focus on Waste Water Treatment (WWT) for reuse, and Non-Conventional Water Resources (NCWRs) Training of Trainers

Activity No: HRE-3-REG

WEBINAR 2: 9 March 2022, 10.00-13.00 CET

ESD Methodologies: Proposed didactic approaches to educate about water and NCWRs

Group 2: How to achieve a water efficient institution?

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LDK Consultants Global EEIG

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Workshop content

- Starting form an imaginative scenario, the workshop will explore the elements of a water-efficient institution and reflect on the steps (educational and beyond) to get us there, also through the application of NCWRs.

- ~ 50 min interaction
  - The more active we are, the more rich the content and the more interesting the discussions
- ~ 5 minutes report in plenary
  - Rapporteur ??

- **Solo exercise =>**
- **Group work reflections =>**

Scenario

- In the not so distant future your region is experiencing a severe drought. It hasn't rained for months and the forecast is that the dry season will extend, putting at risk the overall water deposits of your country.

- As you exit your home one morning, an urgent SMS from the Government warns you:

  DUE TO THE URGENCY AND THE SEVERITY OF THE DROUGHT:
  A) WATER WILL RUN FOR ONLY 2 HOURS PER DAY IN YOUR NEIGHBORHOOD
  B) THE PRICE PER CUBIC METER WILL BE 100 €, UNTIL FURTHER NOTICE!

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Q1 What would be your first (re)actions when you hear this news? (in key-words, 4 minutes)

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Oral reflections

- If you wish to explain further your key-words or comment on what was shared, please do so.

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Q2 Come back to today. What action can you personally undertake today to avoid this scenario? (in key words, up to 4 minutes)

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Oral reflections

- If you wish to explain further your key-words or comment on what was shared, please do so.

Water efficient buildings / campuses

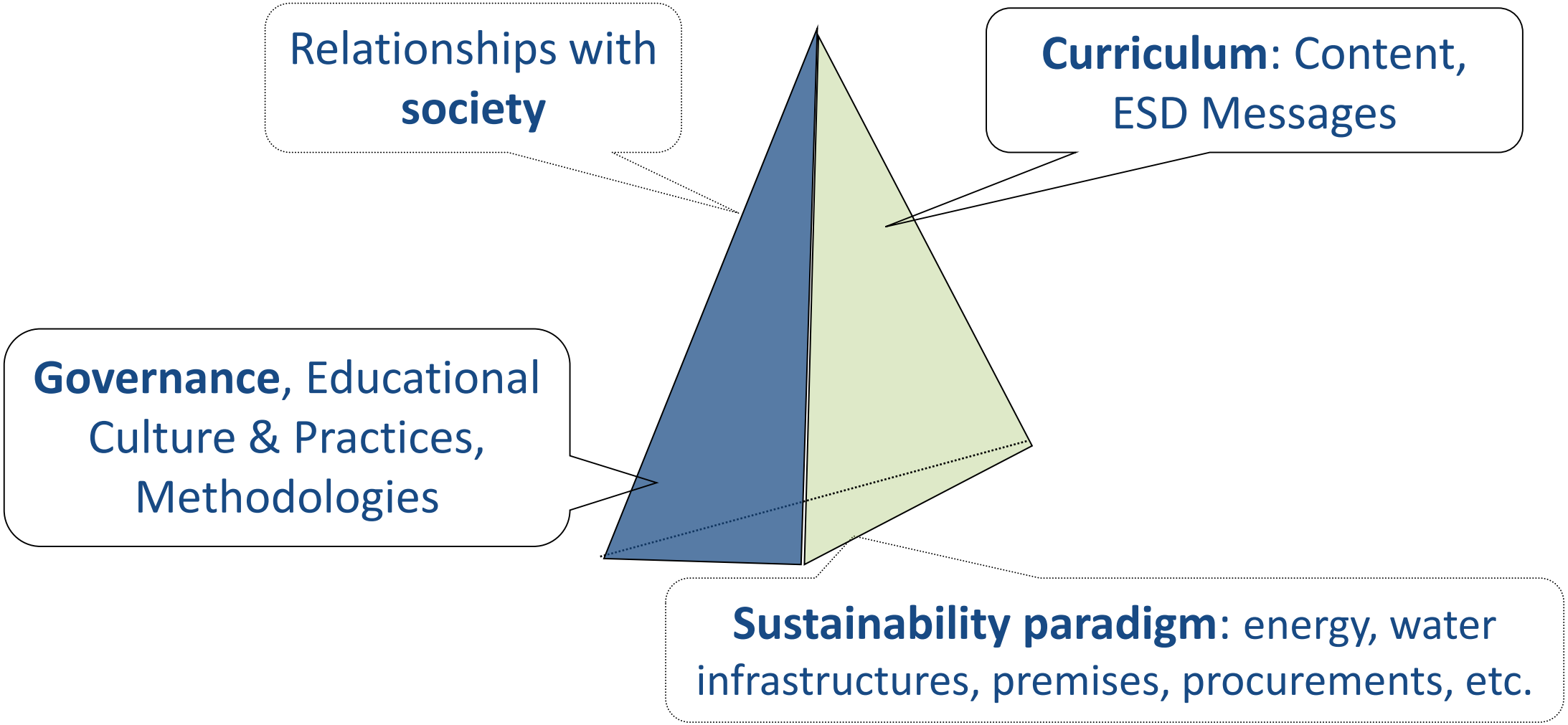
- Rainwater harvesting system
- Water submeters (esp. in building complexes, campuses, etc).
- No leakages
- Water efficient taps (a. fixed flow per push, b. with infrared sensors)
- Pressure reducing valves / aerated valves
- Water saving shower heads
- Grey water recycling system
- Drip irrigation, smart irrigation (sensors for moisture and temperature), locally adapted plants
- Water efficient toilets (↑ velocity, not the amount of flushing water)
- Upgraded equipment (dishwashers, laundry)
- Staff/ users of the building are aware & cautious

Water and NCWRs as part of a wider WIA policy

*"**Whole Institute Approach** (WIA) is understood as a way to move towards sustainability in a holistic way, encompassing **teaching content** and **methodology**, influencing the learning process whilst embedding **sustainability** in all aspects of the institution Including **facilities**, operations and creating interaction with stakeholders in the **community**, **governance** and **capacity-building**"*

UNESCO 2014

Water and NCWRs as part of a wider WIA policy



Getting there, step by step

A. What is there already in my institution in terms of water efficiency?	B. What is missing? What can be improved?	C. What are the obstacles / barriers?	D. Who should I involve to help me overcome these barriers?
1. …	1. …	1. …	1. …
2. …	2. …	2. …	2. …

Solo exercise: Take notes on the above questions A, B, C, D (4 minutes)

Oral reflections

- Who wishes to take the floor and share their notes? Which question of A-D puzzled you?

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Q3. What solutions from your city / community / state could prevent this scenario? Think wider, maybe some solutions are not directly related to water. (4 minutes)

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Oral reflections

- If you wish to explain further your key-words or comment on what was shared, please do so.
- Think beyond the “bucket of the obvious” = 4 – 5 obvious first ideas that come to mind

Reflection on the Workshop

- Would you consider running such an “exercise” with the entire group of water users of your institution in order to then collectively decide and undertake an action in order to increase its water efficiency?
- Write in the **CHAT**: YES, NO, or MAYBE

About the method

- Co-creation is a method which actively involves citizens and stakeholders in making decisions about issues that affect them.
- It increases a sense of empowerment and citizenship and contributes to building trust between those taking part.
- The participants share power and responsibility for the decisions reached.
- The method allows the water users of a building to co-design or even co-decide the planning and implementation of sustainable water management strategies
- Heterogeneous groups, with different backgrounds => less bias, more plurality in views
- Suggested E-tools: Slido, Mural, padlet

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Thank you for your attention!

For further information

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