



**THIRD WORLD SYMPOSIUM
ON SUSTAINABILITY
SCIENCE AND RESEARCH**

Sustainability Futures: Challenges
and Opportunities Towards a More
Sustainable World

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The Initiative Democratia-Aqua-Technica - using a cross-media approach for developing sustainable projects

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OBJECTIVES OF THE PAPER

The objective of this paper is to demonstrate how a cross-media approach with using different digital components can be used for supporting developing international and interdisciplinary sustainable projects in the frame of the Democratia-Aqua-Technica initiative covering technology perspectives and society engagement.

APPROACH USED

A cross-media approach is used to work for a sustainable future with crossing the bridge from higher education to water practice and technology

- Design Thinking process
- Creative collaboration through hackathons
- Gamification aspects

KEY RESULTS

- A web-based network portal (www.democratia-aqua.org) was developed, which provides information of the project as well as technical input. The participants get an overview of the different methods and digital components with which the different challenges and projects can be dealt with.
- A first online hackathon for creation of ideas and creative collaborating have been carried out. The goal of the Democratia-Aqua-Technica Hackathon was to create useful, creative or entertaining approaches, ideas, concepts or solutions for the presented challenges within 24 hours.
- An Explorer-App were developed, that combine elements from Escape-Room, GPS-Geocaching and the most modern Augmented-Reality-Technology.

MAIN CONCLUSIONS

The cross-media approach using digital components as online hackathons and gamification aspects was successfully applied for supporting the development of sustainable projects in the frame of the Democratia-Aqua-Technica initiative.

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