

PREFACE

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1. Introductory remarks: A collaboration between the projects Akma2 Ocean Senses and ECO_CARE leaves no one behind within the umbrella of the Agenda 2030

1.1. The first stage of the project and the creation of the Ocean Sense Learning Toolkit: As the principal investigator of AKMA, and in collaboration with other international partners, prof. Giuliana Panieri (Department of Geosciences, UiT The Arctic University of Norway), developed the interdisciplinary project: Akma 2 Ocean Sense(s). A multisensory ocean toolkit for all (2021-2022). The project is designed to help academic research institutions and community organizations implement sustainability goals (water protection, innovation, climate action, and education for all) under the umbrella of the Agenda 2030. The multisensory ocean toolkit is developed by scientists, researchers, education experts, and Arctic community members and youth. The ocean toolkit is based on the fact-finding missions from multidisciplinary seminars, community input, as well as data collected from the expedition on the research vessel Kron Prins Haakon expedition in May 2022 with the AKMA project, granted by the Norwegian Research Council (2019-2023). The project was endorsed by the UN Ocean Decade. The cooperation with different researchers led to the development of other eight research proposals (including a Horizon Europe research project) on Ocean literacy in the framework of the Agenda 2030. Among them, three projects of public engagement have already been granted funding for 2023: 1. The University of Turin, Department of Linguistics - ELI_Lab: Environmental Literacy Initiative: A Laboratory on Storytelling. An initiative of Public Engagement – Team Member – University of Turin; 2. DAAD Coproknet, 3. Uarctic the Ocean Incubator Network.

1.2. Addressing research, education and community needs The cross-sector partnership is designed to address the immediate and long-term needs of academia, communities, and policymakers regarding the coproduction of knowledge within water governance. To serve as a practical, sustainable, and innovative project, all partners participate in collaborative learning experiences to facilitate knowledge transfer and integration. It is predicted that linking research activities, research cooperation, and educational opportunities will generate

critical legal research that may be used as a blueprint for upscaling best knowledge co-production practices for international, national and local policy needs. The sustained inclusion of community members will generate a wealth of knowledge on local sustainability practices that will be assessed to further develop the innovative knowledge co-production tools of legal design and storytelling. The participation of higher education institutions and early career researchers will bring a multitude of research designs, diverse methodological knowledge, and time and energy for the project's implementation. Senior researchers will serve as mentors to build connections to relevant theory, as well as basic and applied research to continuously enrich the literature on knowledge co-production within climate governance. Throughout and beyond the immediate scope of the project, the environmental, social, political, and scientific impacts will be assessed through the lens of the European Union Framework Program for Research and Innovation.

1.3. Translation of the toolkit into Chinese: in the Spring Semester of 2023, prof. Giuliana Panieri held a cycle of lectures on her project for the Bachelor Students of Business and Administration, Department of Management, University of Turin, Italy, within the course: The New Frontiers of Administrative Law within the Agenda 2030 (coordinated by prof. Margherita Paola Poto). As a result of an interactive and students-led teaching experience, Giuliana Panieri and Margherita Paola Poto developed a project with Giuliano Bertolotto Bianc, a student of the course involved in a stage specifically focusing on SDG 14 in coordination with AKMA and ECO_CARE. Giuliano has taken the initiative to develop a stage that aims to raise awareness and understanding of SDG 14, which is one of the Sustainable Development Goals outlined in the United Nations' Agenda 2030. SDG 14 focuses on conserving and sustainably using the oceans, seas, and marine resources.

Giuliano's project involves the translation of the most relevant activities of the Ocean Senses Handbook related to SDG 14 from English to Chinese. By translating these resources, the aim is to raise awareness among school pupils on the importance to know the oceans and explore them through the senses to protect them. The materials cover learning topics connected to the composition of the ocean, its geophysical processes and characteristics and intend to arouse desire in the pupils' interest to know more about the sea environment and therefore to develop a proactive attitude toward its conservation. The translated learning materials are intended to be shared, providing a platform for Chinese-speaking students, educators, and community members to access educational content related to SDG 14.

In other words, the result of Giuliano's work serves as a valuable resource, enabling Chinese-speaking individuals to gain knowledge and understanding of the importance of ocean conservation and the sustainable use of marine resources. By promoting awareness of SDG 14, we hope to inspire action and encourage sustainable practices among the Chinese-speaking community to protect and preserve our oceans for the present and future generations.

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List of references: <https://china.un.org/zh> <https://china.un.org/zh/sdgs>