

evolving into roles as a project assistant, young researcher, and content developer and creator. Her transdisciplinary background in global health, combined with her collaborative work with Giulia Parola and Margherita Paola Poto, has equipped her with a critical mindset essential for tackling contemporary sustainability challenges. This collaboration has also honed her communication skills, enabling her to articulate the nuances of sustainability effectively. Throughout her collaboration at ECO_CARE, Gaby has mastered multiple skills crucial for her diverse roles. She possesses a deep understanding of current issues in climate law and Indigenous law research, which has been instrumental in addressing complex legal and environmental challenges. Her proficiency in Legal Design and Visual Law methodology has allowed her to transform complex legal concepts into accessible visual formats that enhance stakeholder engagement and understanding. Additionally, Gaby's expertise in participatory approaches to environmental law and community-based research has enabled her to work effectively with the work developed by Indigenous and school communities (from Mato Grosso, Brazil), ensuring that their voices and concerns are integral to the research and solutions developed. Gaby's contributions to ECO_CARE have been significant and varied, including the creation of scientific books, animated videos, educational videos, and other materials. In her project work, she has employed a multi-step methodology, starting with creating detailed outlines for each project and systematically categorising them. This structured approach has not only ensured the clarity and effectiveness of the projects, but has also contributed to the innovative outcomes that ECO_CARE has achieved under her involvement.

In student projects, QR codes are used to direct readers to project-related websites. Even though some of these QR codes no longer work, they haven't been removed due to their placement within the visual design of the projects.

Chapter 2

Ocean Literacy and Agenda 2030

Margherita Paola Poto, Giulia Parola, and Gabrielle Natividad
in collaboration with the students of Environmental Law, Department of Earth Sciences and
Administrative Law, Department of Management, University of Turin

These student-led projects were developed by students in Environmental Law, Department of Earth Sciences, Master's Program in Georesources Sustainability Management and in Administrative Law, Department of Management, Bachelor's Program in Business and Management. The main themes for these projects was ocean literacy, in connection to Sustainable Development Goal 14: Life Below Water and another interconnected SDG. The courses engaged over 200 students in total. Although we could only select a few of the most representative projects for inclusion in this resource, we are deeply grateful to all the students for their creativity, collaboration, and enthusiasm.

Included in these courses were our group facilitators. Thank you to Juliana Hayden-Nygren, facilitator for the group on Environmental Law (Department of Earth Sciences), and to Mojgan Pooladi, facilitator for the group on Administrative Law (Departments of Management Valter Cantino).

Lastly, thank you to the many students who participated in this course. Most importantly, the work that is showcased throughout this chapter was created by the following students: Alessandro Camposano Ambrosini, Amy de Boers, Andrea Sapei, Giuditta Fracasso, Jiaqui Kang, Ludovica Rossi, Tongji Lin, Yuhang Zheng, Iman Awed, Leonardo Camarlinghi, Marta Carruzzo, Miriam Makke, Marco Maurutto, Edoardo Passone, Alessia Riccumeni, Fabrizio Testore, Giada Cantone, Alessandro Di Lorenzo, Giacomo Geremia, Edoardo Pietrobono, Gianluca Stellite, Lorenzo Tamburro, Matteo Tanti, Elisa Balbo, Michelangelo Bellomo, Carlo Gottardo, Davide Mander, Ines Mastrogiacomo, Alessandro Serra, Serena Aloiso, Giorgia Caporale, Chiara Gilardi, Sara Morandini, Mirela Rujan, Silvia Pavoni, Ines Cristilli, Fabiana Lubrina, Matteo Ecosse, Nadine Zangho, Eleonora Briatore, Giulio Cimato, Annalisa Giarbella, Miriana Lombardi, and Elia Leandro Torre.

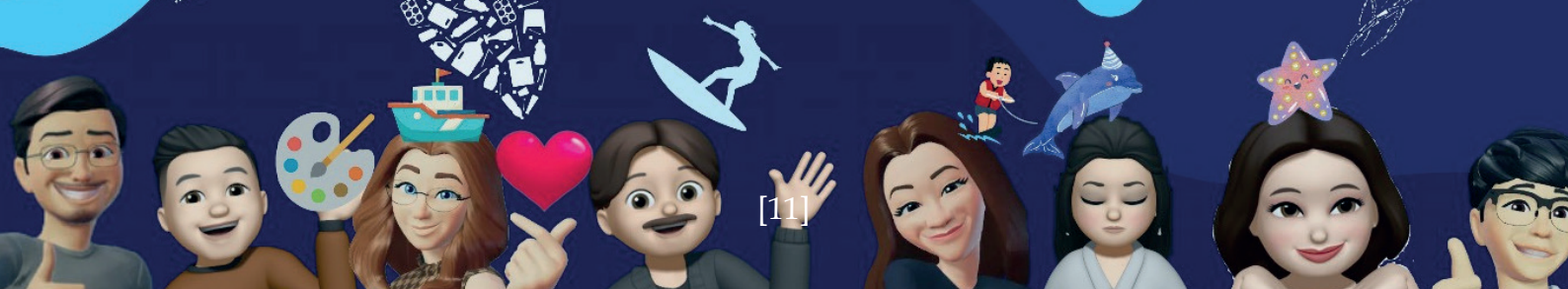


GROUP 2

FOR
CLEANER
OCEANS!

SDG 14 ★ LIFE UNDER WATER

FOR CLEANER AND
SAFER OCEANS



Healthy Ocean and Marine Coastal Ecosystems (SDG 14+3)

Collective storytelling of marine ecosystem: coloring children's mind with ocean awareness

Alessandro Camposano Ambrosini, Amy de Boers, Andrea Sapei, Giuditta Fracasso, Jiaqi Kang, Ludovica Rossi, Tongji Lin, Yuhang Zheng

Project Background

The main methodologies used were qualitative research methods and Rapid Ideation, a brainstorm method. The group planned on how to conduct meetings and the scope of the project early on; it was decided to find an innovative approach to marine and coastal ecosystem protection. Specifically, the focus would be on SDG 14.2. The group decided that the project's overall goal would be bringing awareness of ocean pollution to children, aged 3–9. Most media directed at children depicted positive things related to the ocean and coastal environments. Thus, a product aimed at this audience was to be the project's results: a coloring book that highlights the negative consequences of oceanic pollution.

The Galápagos Islands were selected to be included in the coloring book. A lecture by Professor Palmieri gave the group inspiration to include the Schmidt Ocean Institute's work on the Western Galápagos' hydrothermal vents. Images of the Islands' different ecosystems would be included for children to color, and the hydrothermal vents were introduced as places that life can still thrive. Importantly, the group wanted to ensure that scientific research was accessible and known to such a young audience.



Brainstorming ideas

Results

Prior to the final coloring book, the following items were considered by the group as possible results: video documentaries and cartoons; toys; Galápagos scuba diving; and fishing games. The coloring book was decided on based on the pros and cons of the above ideas. This activity seeks to allow children to rediscover less and addictive and non-overwhelming activities, while also encouraging them to learn about the ocean and protecting marine life.

A special toolkit was crafted, targeted towards elementary school children. The aim of this toolkit was to increase the understanding of why it's crucial to protect ocean diversity. The images depicted in the final coloring book "realistic," in the sense that they depict pollution, and teach how plastics harm ocean creatures. The coloring book is split into chapters that focus on different ocean ecosystems around the world; each chapter highlights biodiversity, but also the things that threaten their wellbeing. A chapter has also been dedicated to the Galápagos Islands and associated discoveries. Through this, it is believed that children's environmental education will become more well-rounded when they engage with what is truly happening to our oceans. Overall, the project creators hope to foster a sense of responsibility in these children.

For this project to come to fruition, the group recognized that they require financial support and partnerships with governmental agencies, schools, and environmental groups. Funds would be used towards printing and distributing the coloring books and organizing events and activities. Governmental support could help in weaving environmental education into school lessons and spread the word about marine conservation through various campaigns.



"Sponge Cake Solution"

Fighting Ocean Plastic Pollution with a Chocolate Twist

POSITIONALITY STATEMENT AND AREA OF EXPERTISE:

As a passionate group dedicated to Ocean Advocacy through our project, we embrace a diverse range of expertise and talents:

- Baking skills
- Videomaking
- Environmental awareness

CONNECTING AND COLLABORATING:

Two strategies:

- Showcasing the video in various universities
- Sharing the video via social media

Objective:

Educate, engage, and inspire collective action towards addressing this critical environmental issue for a sustainable future.

BRINGING OUR PROJECT TO LIFE:

We invite participants of all ages to replicate our sustainable baking practices, spreading the message of ocean preservation deliciously.

Whether you're a school-aged child, a secondary school student, an adult learner or a researcher, join us in creating something sweet for our oceans.



A project made by Iman Awed, Leonardo Camarlinghi, Marta Carruozzo, Miriam Makke, Marco Maurutto, Edoardo Passone, Alessia Riccumeni, Fabrizio Testore.

“Be a Part of the Solution, Not Part of the Pollution”

Iman Awed, Leonardo Camarlinghi, Marta Carruzzo, Miriam Makke, Marco Maurutto,
Edoardo Passone, Alessia Riccumeni, Fabrizio Testore

Project Background

This project's main goal is to target plastic pollution in our oceans. The group's methodology was rooted in creativity, teamwork, and dedication. The group sought inventive ways to address the harmful effects of plastic waste in oceans. The group decided that creating a cake would be a symbolic representation of their dedication to the cause. The process of making a cake mirrored the intricacies of addressing the complexities of plastic waste in marine ecosystems. The aim of this project is to raise awareness about plastic pollution. While making a symbolic cake was the task, the overall purpose of the project was to create a video showcasing this creation, while also discussing the issue of plastic pollution.

The ingredients for the cake recipe were purposely selected to be organic with eco-friendly packaging. With a sponge cake base, this was meant to be a testament to the solidity and resilience required in the group's efforts to combat ocean pollution. A chocolate pastry cream was made to add to the layers of cake; this represented the depths of the group's commitment and the richness of resources needed to confront the challenges posed by plastic waste. Lastly, the cake was covered in blue buttercream, symbolizing the group's aspirations for a cleaner and healthier marine environment.

The culinary process was filmed in a video, weaving together metaphors between the ingredients used and the essential components for achieving the project's goals. This video was edited into a tutorial-style video and presented to the class. The hope is for the video to be utilized as an educational resource in schools or shared on social media platforms.

Results

The process and final project results aim to underscore the power of collective action and individual responsibility in protecting our oceans. A slice from the cake represents a portion of our shared commitment, where we continue to work together towards a future that has thriving oceans, free from the burden of plastic pollution. Using SDGs 14 and 15 as guiding principles for this project, the unique analogy of a cake sought to engage a diverse audience and inspire proactive measures.

Choosing organic ingredients with eco-friendly packaging allows bakers to consider the pivotal role they play in reducing plastic pollution and promoting sustainable practices. The result of this project is to serve as a testament to the impact of collective action and individual accountability in tackling intricate environmental issues. By leveraging creativity, teamwork, and steadfast dedication, we can pave the way towards a cleaner, healthier planet for future generations.



in.rete

IN.RETE:

WAVES OF SUSTAINABILITY, SEAS OF OPPORTUNITY

**Giada Cantone, Alessandro Di Lorenzo, Giacomo Geremia, Edoardo
Pietrobono, Gianluca Stellato, Lorenzo Tamburro, Matteo Tonti**



in.rete_

[15]

Co-Production in Marine & Economic Sustainability

A shared approach for greater marine and economic sustainability of coastal locations

Giada Cantone, Alessandro Di Lorenzo, Giacomo Geremia, Edoardo Pietrobono, Gianluca Stellate, Lorenzo Tamburro, Matteo Tanti

Project Background

In.Rete aims to implement SDG 14 and 8. The methodology followed includes brainstorming preliminary ideas that will achieve the project objective. Semi-structured interviews were conducted with sellers and consumers at the Porta Palazzo fish market in Turin. Interviews with sellers highlighted various aspects, including the supply of raw material, contacts with fishermen, fishing techniques used, and price changes over time. These individuals also highlighted the differences amongst vendors regarding awareness of pollution caused by fishing and practices adopted to mitigate it. Consumer interviews helped give insight on their purchasing habits and preferences regarding the sustainability of fishing. These interviews helped develop the four sectors of interest for the project. The project objective is to encourage collaboration across a wide range of stakeholders to work towards the common goal of “marine and economic sustainability of coastal locations.”



Photos from the market interviews



Results

This project has identified four sectors in which sustainability actions could be undertaken through the collaboration of local communities, private and public sector actors, and other stakeholders groups. These include: tourism, schools, catering, and research and development (R&D). Pertaining to tourism, this project advocates for the use of ecotourism—in particular, fishing and coastal activities (e.g., diving, snorkeling, coastal walking tours and boat rides)—to highlight local communities’ sustainability initiatives. The establishment of these ecotourism activities would include remuneration for all collaborators and a financial contribution to further R&D. Regarding education, guided by the project team and participating teachers, school pupils will be incorporated into local sub-projects such as beach cleaning, seasonal fish cooking workshops, internships, et cetera to gain an immersive, hands-on learning experience in coastal sustainability. Thirdly, this project promotes the creation of an innovative “zero-km” network of restaurants. Such a network entails sourcing exclusively from small-scale, locally-based traders and fishermen, and cooperating with small and medium scale businesses in the immediate area. Lastly, this multi-sectoral project aims to further R&D through community workshops and participation-based meetings on efforts to advance SDGs 14 and 8. The community workshops and participatory meetings, featuring experts, policymakers, civil society actors and local residents, would be designed to facilitate the co-development of a marine resources plan, integrating scientific knowledge and the practical experiences of the local community members.

To spread awareness on this project, an Instagram page (@in.rete_) was created, as well as a website (<https://inrete-ecogest.weebly.com>). These digital resources allow a greater number of people to find out about the project and allows them to actively participate by collaborating with the project creators. As this project is multi-sectoral, the group has determined that collaboration for future research is required. Topics of specific interest include: the circular economy and marine litter management; exploring circular economic models to reduce, reuse, and recycle marine litter; the restoration of marine ecosystems; investigating innovative techniques for the repair and conservation of marine ecosystems, such as the regeneration of coral reefs, the creation of artificial mangroves, and the repopulation of threatened marine species.



Un progetto di
Elisa Balbo, Michelangelo Bellomo, Carlo Gottardo, Davide Mander, Ines Mastrogiacomio, Alessandro Serra

THE DAY HAS COME

Start to debate



The Day Has Come Cooperation is the key

Elisa Balbo, Michelangelo Bellomo, Carlo Gottardo, Davide Mander, Ines Mastrogiovanni, Alessandro Serra

Project Background

This project drew inspiration from SDGs 14 and 17. It aims to creatively introduce two key aspects related to these SDGs: the critical environmental issues stemming from human activity, with a specific focus on the marine ecosystem, and the importance of cooperation among nations, private sectors, and citizens—as advocated by the EU—to achieve the SDGs. The goal of this project was to highlight the reasons that hinder any full compliance with the SDGs. The group wanted to project a dystopian scenario set in the near future (2050) where social justice, environmental conservation and the protection of communities are put at risk by the domination of lobbies that exercise control over resources, technology and public opinion. The methodological approach used both roleplaying and debate.

The first part of the project explored the fate of the ecosystem through a simulated debate in a court between a fictitious 'industrial Lobby' and a group of 'representatives of Nature.' Three research questions guided the entire discussion, which was focused on the possibility of economic growth and sustainability coexisting to ensure respectable social life without compromising the environment. With the purpose of actively involving the audience, it was chosen to divide the presents into two groups, representing Lobbies and Nature, and give them some cards containing famous quotes related to the questions, as a way to provide insights and new perspectives on complex issues. Once the debate was finished, the project included a sensory journey, in order to engage the audience in a physical and emotional way, immersing viewers in a dystopian future shaped by rampant lobbying and prompting critical reflection on the exploitation of resources by humankind on the environment.



Class presentation and debate



Results

The project identified cooperation as the cornerstone for ensuring equitable and sustainable well-being in an ever more globally interconnected world. The need for a harmonious agreement between economic interests and nature can strengthen global solidarity and safeguard the well-being of all humanity. It was found that the difficulties faced during this project, such as the little time available and the need to create an engaging project, are the objective adversities of the real world. Ultimately, it is believed that having this debate replicated in the 'real world' would guarantee greater effectiveness if addressed to a neutral public. An impartial audience may be more open to considering different topics and perspectives, without prejudice or rigidity of thought. In this way, the debate could reach a wider audience (and different age groups) and positively influence the opinions and decisions of those who are less familiar with environmental issues.

It is understood that as the deadline for achieving the SDGs approaches, the need for collective and conscious actions becomes urgent. Highlighting this concern, the following intervention strategies are proposed: implementation of interdisciplinary educational programs that include thematic SDGs in an organic and engaging way; awareness campaigns aimed at a large and diverse audience, using traditional and non-traditional communication channels; and use of assistive technologies (screen readers, mouse pointers, braille displays) to promote the culture of inclusion and accessibility.



Game rules



TRAVELLING TOWARDS SUSTAINABILITY & INCLUSIVITY



ALOISIO SERENA CONTENT MANAGER
CAPORALE GIORGIA CREATIVE DIRECTOR
CERBONE GIORGIA MEDIATOR AND EXPERT IN EMBROIDERY
GILARDI CHIARA EXPERT IN ACCESSIBILITY AND CREATIVITY
MORANDINI SARA WEBSITE DESIGNER



[CLICK HERE](#)

Protect marine ecosystems and mitigate gender inequalities through sustainable tourism: *The Knots Project*

Serena Aloisio, Giorgia Caporale, Giorgia Cerbone, Chiara Gilardi, Sara Morandimi

Project Background

Even though women in the fishing sector might be underrepresented, they still play a key role, but one of the obstacles fisherwomen face is a lack of resources. For example, studies have shown that women make up only a small percentage of overall fishers, 10% in the Mediterranean Sea. In general, fishing as a profession and as a hobby is mainly more associated with men rather than women. Hence, this project aims to create a tool to provide financial support to fisherwomen communities all over the world. Stories of fisherwomen from 3 regions of the world (Messina, Italy; Jeju Island, South Korea; and Fiji Islands, Fiji) were used as inspiration.

Inspired by ecotourism, this project has the goal of developing a travel guide to help plan trips where there are included a series of activities directly organised by local communities of fisherwomen, including fishing tourism. By taking part in these activities, the participants will financially support these women and their businesses. The research methodology used to establish this line of project development was a mixture of academic and grey literature.



Results

The final result of this project is dedicate to travel agencies and travelers to facilitate them in organising sustainable itineraries. The way in which we thought of achieving this is by promoting trips to places with a significant presence of fisherwomen to whom we can provide support, especially economic, through tourist activity. This has the dual objective of financing communities of fisherwomen and participating in unique experiences from a perspective in which tourism is not just an activity of consumption, but of exchange and mutual enrichment.

The group believed this was an effective way to address the problem of gender inequalities in the fishing sector because one of the difficulties faced by communities of fisherwomen is having less access to funds than their male counterparts. Thus, through tourism, there is the opportunity to bridge this gap, help spread the stories of these women, and at the same time, take part in a more enriching and stimulating journey than classic tourist itineraries. Due to the possibility of some individuals being limited in taking part in these activities because of inaccessibility, this project includes other ways to support these communities. To aid in the sharing of this project, a website (www.knots2.webnode.it) has been created, where more information and all the ways to take part and support the project can be found.



Thirst for justice

The luxury of the privileged or the inalienable right of all?



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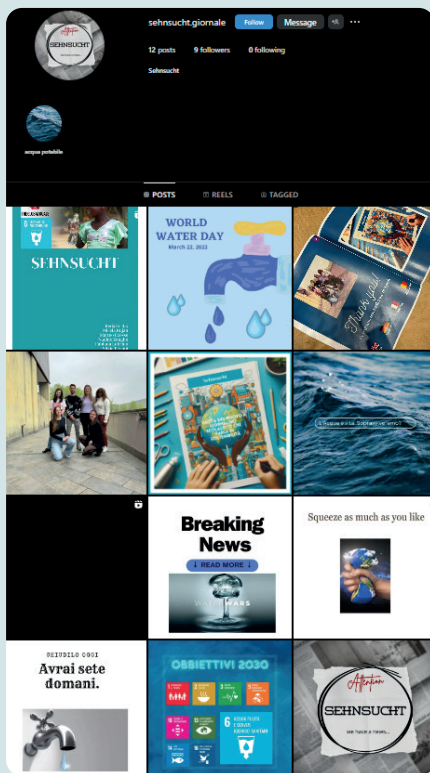
Realizzato da: Mirela Rujan, Silvia Pavoni, Ines Cristilli, Fabiana Lubrino, Matteo Ecosse, Nadine Zangho

Thirst for justice *The luxury of the privileged or the inalienable right of all?*

Mirela Rujan, Silvia Pavoni, Ines Cristilli, Fabiana Lubrino, Matteo Ecosse, Nadine Zangho

Project Background

This project envisioned the creation of a school newspaper titled “Sehnsucht,” based in Turin, Italy. The name is a term from German literature, which can be translated as “nostalgia.” It is meant to symbolise a nostalgia projected towards the future and indicates an aspiration; a tension towards something unattainable. It is meant to invoke a yearning that invites action. The newspaper’s aim is to raise awareness amongst middle and high school students on sustainability issues, having a new focus each month on a different issue linked to the objectives of the 2030 Agenda. In particular, the group decided to create an issue for March 2024, which focused on the complex challenges regarding the accessibility of safe drinking water and sanitation services on a global scale. In particular, it focused on SDGs 6 and 14. The group decided to use Cameroon as an example of the problems that are caused by a lack of water. The students used a multidisciplinary lens to explore the underlying causes of water scarcity, its environmental, social and economic ramifications, as well as innovative solutions proposed by the students to address this global challenge. Each student in the group took the role of a journalist, and dedicated themselves to an in-depth analysis of a specific topic relating to water scarcity.



Instagram page



The group



The newspaper

Results

Through a combination of presenting engaging current and historical information, data, stories and testimonies, “Sehnsucht” aims to educate and inspire young readers to become conscious agents of change, promoting the importance of conservation and responsible management of water resources for a sustainable future. Moreover, through this means of dissemination of scientific, technical, and policy information, this project can enable the readers by providing them an opportunity to actively contribute to the newspaper directly. Recognizing the importance of information, the online version of the newspaper has been translated into several languages, taking on a multilingual format. As well, there is an audio version accessible for those who are blind. An Instagram page was also created to capture the interest of younger peoples and raise awareness on the topics covered.

The final article goes in-depth on the current issues surrounding water, such as the spread of illness; deaths associated with lack of water; water wars; water hoarding and more. The article also offers practical advice for daily life that focuses on saving water and energy. These suggestions convey to younger audiences that our food choices and lifestyles have a direct impact on water and energy consumption.

In the World of Posidonia

A Sea of Green

