

CTN 20 AÑOS

CUMPLIMOS



TRANSITION EFFECTIVE

BLUE IS THE NEW GREY · NATURE-BASED SOLUTIONS

PROTECTION AND RESTORATION MANAGEMENT · NATUREBASED ECONOMY

Región de Murcia

RIG4



Cofinanciado por la Unión Europea



Financiado por la Unión Europea



Plan de Recuperación, Transformación y Resiliencia



f SéNeCa⁽⁺⁾

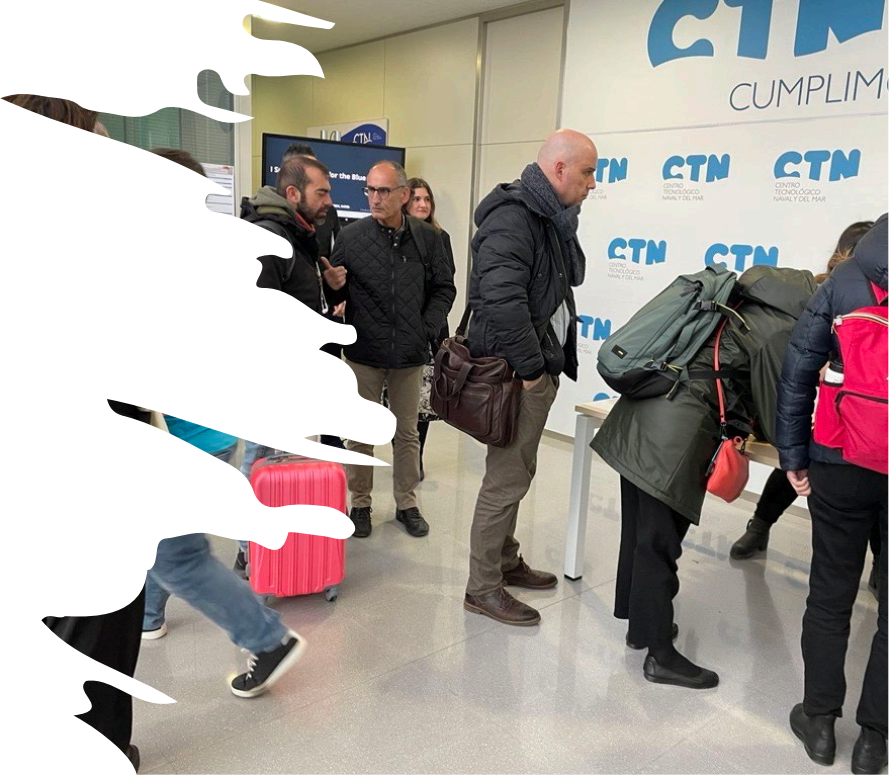
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Highlights from the I Summit on NBS for the Blue Economy

Charting a Sustainable Course

Arrival at the I Summit on NBS

Ready for an inspiring journey towards sustainability and innovation exploring the potential of nature-based solutions for the blue economy.



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Welcome waves: getting to know each other over coffee

Setting Sail with Our Welcome Talk!



MARIANO JIMÉNEZ
President at CTN



JOAQUÍN GÓMEZ
Director at INFO



NOELIA ORTEGA
CEO at CTN





Rafael Sardá

SCIENTIFIC RESEARCHER, NATIONAL COUNCIL FOR SCIENTIFIC RESEARCH (CSIC).

Rafael Sardá, a senior scientist at CSIC since 1991, is a researcher at CEAB and an associate professor at ESADE since 1993. He graduated in Biological Sciences from the University of Barcelona in 1979 and earned his Ph.D. in Marine Ecology in 1984. He also holds an MBA from ESADE in 1989. A co-founder of CEMS, he has published nearly 150 articles and led more than 20 research projects. Specialized in coastal benthic ecology, and sustainability, he represents CSIC in international consultations. His academic impact includes supervising numerous master's theses.



Discovering Nature-Based Solutions and their Opportunities for Industry

Rafael Sardá, *Senior Scientific Researcher at CSIC* talking about how in recent decades, our comprehension of the interplay between the environment, society, and the economy has evolved significantly. While earlier models treated nature as an isolated element, contemporary perspectives reveal that the economy is intricately intertwined with society, both of which depend on nature for sustenance. It's evident that the degradation of nature leads to economic repercussions, underscoring the vital importance of preserving our natural environment.

A resilient and committed maritime industry: the role of the Administration and the business fabric

Sesión I



María Cruz Ferreira Costa

Director of the Center for Industrial Technological Research (CTN) at the University of Cantabria. She has worked in various positions in the public sector, including as a member of the Board of Directors of the University of Cantabria, the Board of Directors of the University of Cantabria, and as a member of the Board of Directors of the University of Cantabria.



A resilient and committed maritime industry: the role of the Administration and the business fabric

Sesión I



Juan Carlos García

NATIONAL CONTACT POINT FOR CLUSTER 5 AND DELEGATE FOR HORIZON EUROPE, CENTER FOR INDUSTRIAL TECHNOLOGICAL RESEARCH (CTN)

In his current role as the delegate of the Horizon Europe Program, Juan Carlos García is responsible for the implementation of the program in the maritime sector. His goal is to maximize funding opportunities while ensuring the effective use of resources. With a robust background in the private sector, where he has developed exceptional skills in leading teams and managing complex projects, he is committed to driving innovation and growth in the maritime industry.



Building a Resilient and Committed Marine Industry: the Role of Administration and Business Network



CTN centro tecnológico naval y del mar



Building a Resilient and Committed Marine Industry: the Role of Administration and Business Network



Blue break and networking

Blue-tiful
faces photo



Nature-Based Solutions Initiative for a Blue Economy

Session 2 of our congress delved into nature-based initiatives for marine conservation in Europe, offering dynamic explorations. Each presentation contributed invaluable insights into innovative approaches and collaborative efforts driving sustainability in our seas and oceans. Ivan Felis, R&D Director at CTN, introduced the EFFECTIVE project, focusing on large-scale Marine Protected Areas (MPAs) across European seas. Leire Arantzamendi, Senior Researcher at AZTI showcased hybrid gray-blue infrastructures and sustainable fisheries management practices within the TRANSEATION project. Ana Lloveras, *Co-founder and Chief Scientist at Ocean Ecostructures* unveiled Ocean Ecostructures' technology-driven solutions for marine ecosystem restoration, including the Life Boosting Unit (LBU) and digital reporting platforms. Manos Moraitis, *Biologist and Scientist at CMMI*, shared groundbreaking methods like 3D-printed artificial reefs and advanced marine monitoring for conservation in Cyprus. Marta Pujol, *Research Scientist at Sintef Ocean*, emphasized CLIMAREST's commitment to restoring coastal ecosystems in the Arctic-Atlantic region while engaging stakeholders. Together, these presentations highlighted the diverse and profound impact of nature-based initiatives on marine conservation efforts in Europe.





Blue Bites: Networking with Nature's Flavors



Seas the Day: Getting to know CTN







Brokerage Event





Enhancing Nature Through Digital Technologies: Ensuring Rigorous and Objective Data for Decision-Making

In this session, the speakers (*PhD. Lars O. Mortensen, Head of Offshore Biodiversity and Ecology Department at DHI, PhD. Antonio Novellino, Research Manager at ETT S.P.A., Valeria Pizziol, R&D Project Manager at ETT S.P.A., PhD. Nikolaos A. Kampanis, Foundation for Research and Technology – Hellas | forth · Institute of Applied and Computational Mathematics (IACM), Eduardo Ruiz, Security and Environmental Protection Line Manager at SAES, Albert Ruzafa, Aerospace Systems Engineer at SEABOTS and Pablo Ruiz, CTO at CTN*) addressed several key questions:

1. Challenges in deploying the robot, including worldwide deployment, resolution loss, autonomy, scalability, sensor integrity, and communication choice. Access to baseline data was highlighted as a major challenge.
2. Solutions to main issues, including the utility of eDNA, power efficiencies, data assimilation, and forecasting difficulties underwater, and the importance of data sharing.
3. The necessity of opening dialogue, sharing formats, moving towards best practices, and encouraging politicians and stakeholders to facilitate data sharing.



Nikolaos A. Kampanis



I Summit de NBS para la Economía Azul



4. Challenges related to data formats and standardization, especially in the Mediterranean due to multiple countries and continents with different data platforms, leading to difficulties in data management and model suitability.
5. The significant role of EMODnet and the importance of metadata availability to address issues with some descriptors and ensure modellers can utilize data effectively.
6. Collaboration challenges with institutions due to differing policies, the need for work in this area, the possibility of paying for data access, and the global interest in such data.
7. The ILIAD project's dissemination aspect, emphasizing specific questions being addressed and the existence of many digital twins.

These questions and discussions underscored the complexities and opportunities surrounding the integration of digital technologies for nature enhancement and decision-making.



At the Center of Change: Inspiring Initiatives

Companies, projects... presenting success stories

Humberto Martínez Barberá and Jesús E. Argente García, ThinkInAzul Project, University of Murcia.
Francisco López Castejón, Researcher at University of Cartagena and founder of the Cartagena Oceanographic Research Institute (CORI), Bruno López, General Manager PSP SpA Low 02, Francisco Javier Fernández Cortés, Director at CTMARMOL, Sofía Lorenz Fonfría, R&D&I Engineer at CETENMA, RAMBLA SUR Project. Carlos Parra, Dr. Architect, IP of the R&D&I Advanced Construction Science and Technology Group (CTAC) of the Polytechnic University of Cartagena (UPCT), forth · Institute of Applied and Computational Mathematics (IACM): PhD. Nikolaos A.Kampanis, PhD. Katerina Spanoudaki, Giorgos Alexandrakis



At the Center of Change: Inspiring Initiatives

Companies, projects...
presenting success stories





Recapping the Summit



and behind it all, a great and committed blue team...

...pleased to have met you





Anchors aweigh!

Thank you for joining us today and for navigating these waters with us. Until we meet again, keep the spirit of exploration alive!