Interreg

Co-funded by the European Union

Italy – Croatia

DIH InnovaMare

DIH INNOVAMARE PROJECT

D 2.1.2 Report on created 30 profiles

A 2.1. Mapping of young researchers on a cross-border level in the field of marine technologies for expanding Innovamare map of excellence

Interreg Co-funded by the European Union

Italy – Croatia

DIH InnovaMare

Project identification
Project ID: ITHR0200416
Name of the lead partner organisation: Hrvatska gospodarska komora
Name of the lead partner organization in English: Croatian Chamber of Economy
Project title: Cross-border digital innovation Hub for innovative marine technology
Project acronym: DIH InnovaMare
Programme priority: Sustainable growth in the blue economy
Specific objective 1.1: Developing and enhancing research and innovation capacities and the uptake of advanced technologies
Project duration in months: 30
Work package: WP2 Innovation network for the development of innovative marine technologies for sustainable blue economy
Activity title: A2.1. Mapping of young researchers on the cross-border level in the field of marine technologies for expanding Innovamare map of excellence
Expected date: 25.10.2024.
Activity description: Mapping of young researchers on the cross-border level in the field of marine technologies and marine research will upgrade the existing map of excellence with new experts. With this mapping, we are expanding our map of excellence and bringing new young researcher profiles into our ecosystem that we will use for further activities. Among identified young researchers we will create profiles of 30 young researchers on the InnovaMare platform that will enable them to collaborate and cooperate with other stakeholders in the InnovaMare community.
Partner responsible: RBI and ARTI
Dissemination level: CO - Confidential
Status: Draft
Version: V1

Questionnaire

Report on Methodology for Mapping Good Practices in Marine Technologies

Objective

The primary objective of this methodology is to create a comprehensive overview of selected young researchers in the field of marine technologies and marine research among project partners. This mapping will expand the existing “Map of Excellence” and integrate new actor profiles into our ecosystem for future collaborative activities. For this activity, we should map 30 young researchers on the InnovaMare platform which will enable them to collaborate and cooperate with other stakeholders in the InnovaMare community.

Methodology Steps

1. Identification of Stakeholders and Good Practices

Under this methodology, the young researchers were defined as researchers with a minimum 3 years of research activity, including the period of research training (also during university courses), and are engaged in a temporary, not yet fully independent research, either in academia, in the public or the private sector. The identification of the young researchers started from the academia and research institutions within partnership consortium and their networks to map those engaged in the field of marine technologies and marine research. This step involved gathering data on young researchers actively participating in scientific research sectors such as maritime activities, fisheries, marine renewable energy, coastal tourism, and others in the established and emerging sectors of the blue economy.

2. Snowball Sampling Methodology

We started with a known set of young researchers and used the **snowball sampling technique** to expand the network and map young researchers. Selected stakeholders from the InnovaMare Map of Excellence provided references to other participants in the field of marine technologies and marine research. This method helped in uncovering hidden layers of the network which weren't visible through direct inquiries.

3. Data Collection Phases

- #### Phase 1: Desk Research

Conduct comprehensive desktop research to collect basic information about each identified young researcher, focusing on:

- Primary research area,
- Experience;

- Published academic papers/articles;
- Interest in marine technologies;
- Interest in blue economy area.

- **Phase 2: Interviews and Surveys**

Conduct detailed interviews and surveys with young researchers to gain insights into:

- information project researchers were involved in,
- networks they belong to,
- research papers and articles,
- conferences they participated in,
- expertise in the field of marine technologies and marine research.

4. Data Analysis and Mapping

We analyzed the collected data to classify young researchers into new profiles and promote their expertise and experience for potential collaborations with other stakeholders on the InnovaMare web platform (https://mairos.org/). This analysis has aided in understanding the needs and prospects of young researchers from marine technologies and research as future developers of the blue sector.

5. Enhanced Update of the Map of Excellence

Utilize the collected data during the collection phase to update the Map of Excellence. This updated map has also depicted the interconnected network of stakeholders and young researchers and the expertise exchange among them, providing valuable insights into the ecosystem. It has emphasized key areas of innovation and collaboration and depicted the interconnected network of stakeholders.

6. Dissemination, study visits, and Scientific fair:

With study visits, we intend to promote cooperation of young researchers with companies to improve collaborative cross-border RDI. Moreover, during the project implementation, a Scientific fair will be organized, with relevant scientific research institutions and companies to present and showcase advancements in marine technologies and their potential applications that will contribute to raising awareness for the general public, graduate students, and companies.

7. Feedback and iteration

After the study visits and the Scientific fair feedback from participants will be collected, in a short report about the main results achieved, and a second update to the map of excellence will be made based on new insights and additional data gathered during the events. This iterative process ensures the map remains relevant and valuable for ongoing and future initiatives.

This methodology not only aided in mapping existing practices but also strengthened the ecosystem by fostering connections among young researchers and highlighting areas for potential innovation and collaboration.

Categories for Mapping Good Practices

For a thorough mapping of good practices in blue economy sectors that use marine technologies, it's essential to collect comprehensive and relevant data. Here's a list of data categories that we collected:

First, select of the young researcher being interviewed is:

a) **graduate (Bachelor's degree – Master's degree)**

b) **PhD**

c) **Postdoctoral fellow**

1. Name of the institution/organization:

- Full legal name and any common abbreviations used.
- Type of institution (academic, private, government, NGO, etc.).
- Primary focus area

2. Contact information:

- Address, phone number, email, and website.
- Key contact person(s) for follow-up or detailed queries.

3. Overview of the institution/organization:

- Brief history and primary focus area.

4. Blue economy sectors involved (based on the EU classification):

- Specific sectors such as maritime activities, fisheries, renewable energy, coastal tourism, etc.
- Description of involvement and relevance to each sector.

5. Description of a profile of a young researcher:

- Acquired formal education
- Previous experience working in industry/private sector
- Published academic papers/articles.

- Participation in conferences. Actively (poster, oral presentation, speaker) or passively (listener).
- Participation in international projects and your role.
- Volunteering, science popularization, etc.
- Additional training.
- Computer skills.
- Special skills.
- Relevant certificates/licenses (e.g. boat leader, diver)

Collecting this data will provide a robust framework for connecting selected profiles across various sectors of the blue economy, thereby promoting their expertise and experience for potential collaborations.

The focus of collecting data for updating the existing Map of Excellence will be based on the traditional and emerging sectors of the blue economy and marine technologies listed below.

Focus Areas for Data Collection

ESTABLISHED SECTORS OF THE BLUE ECONOMY

1. Emerging Marine Renewables: This includes ocean energy, floating solar energy, and offshore hydrogen generation. These sources are crucial for sustainable growth and align with the European Green Deal's ambitious goals.
2. Blue Biotechnology: Particularly focusing on algae, blue biotechnology involves the use of marine resources to develop products that could be used in pharmaceuticals, cosmetics, and food industries. The algae sector in particular shows strong market dynamics and socioeconomic potential.
3. Desalination: Desalination is commonly recognized as an emerging sector within the blue economy, providing critical solutions for fresh water.
4. Maritime Defence, Security, and Surveillance: This sector includes activities that ensure the safety and security of maritime zones.
5. Research and Infrastructure: This includes the development of submarine cables and marine robotics, which are essential for improving the resilience and technological capabilities of maritime activities.

These sectors are seen as having significant potential for driving economic growth, enhancing sustainability, and creating employment within the broader framework of the European Union's blue economy strategies.

MARINE TECHNOLOGIES

1. Autonomous Surface Vehicles (ASVs) and Unmanned Surface Vehicles (USVs): These are robotic boats that can be used for a variety of tasks, such as surveying, monitoring, and mapping the ocean.

2. Underwater Gliders: These are autonomous underwater vehicles that use changes in buoyancy to move up and down through the water column, allowing them to cover large areas while collecting data on temperature, salinity, and other oceanographic parameters.

3. Ocean Energy: Technologies that harness energy from ocean currents, tides, and waves are becoming more advanced and efficient, making it possible to generate electricity from these sources.

4. Marine Robotics: Advancement in the design and construction of robots for deep sea exploration, monitoring, and maintenance of marine facilities.

5. Blue carbon: methods to sequester carbon dioxide from the atmosphere in coastal ecosystems such as mangroves, salt marshes, and seagrasses.

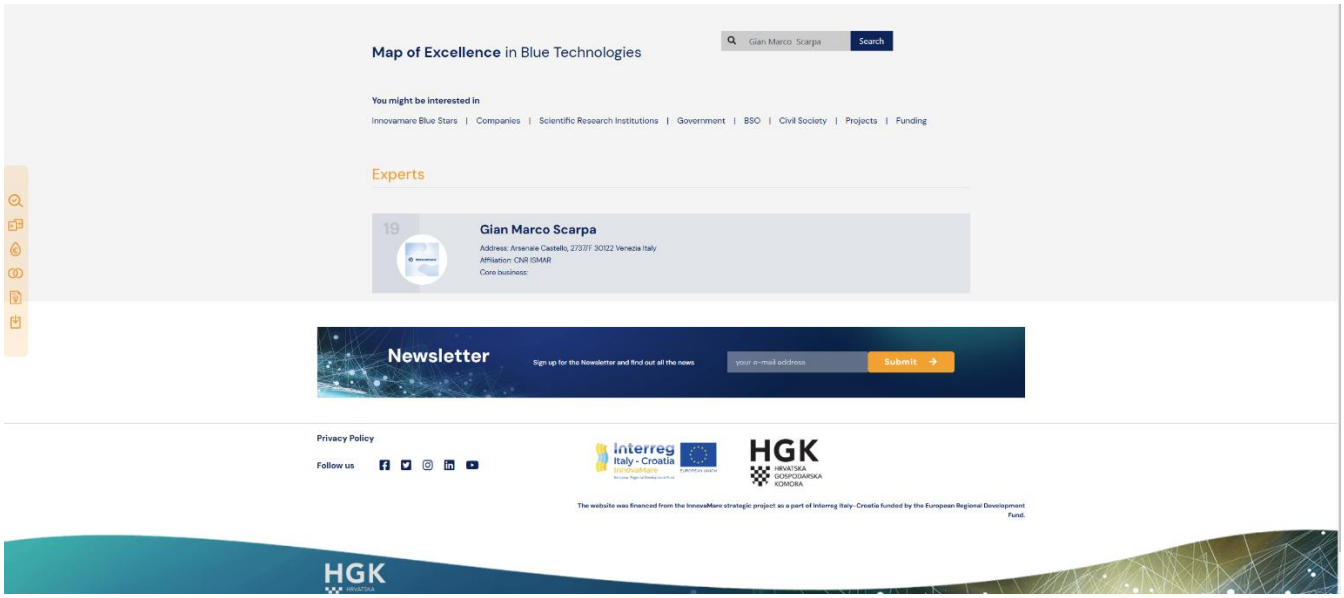
6. Advanced imaging and sensing technologies: technologies such as LiDAR, imaging spectroscopy and synthetic aperture sonar is being used to create high-resolution maps of the seafloor and detect objects underwater with great accuracy.

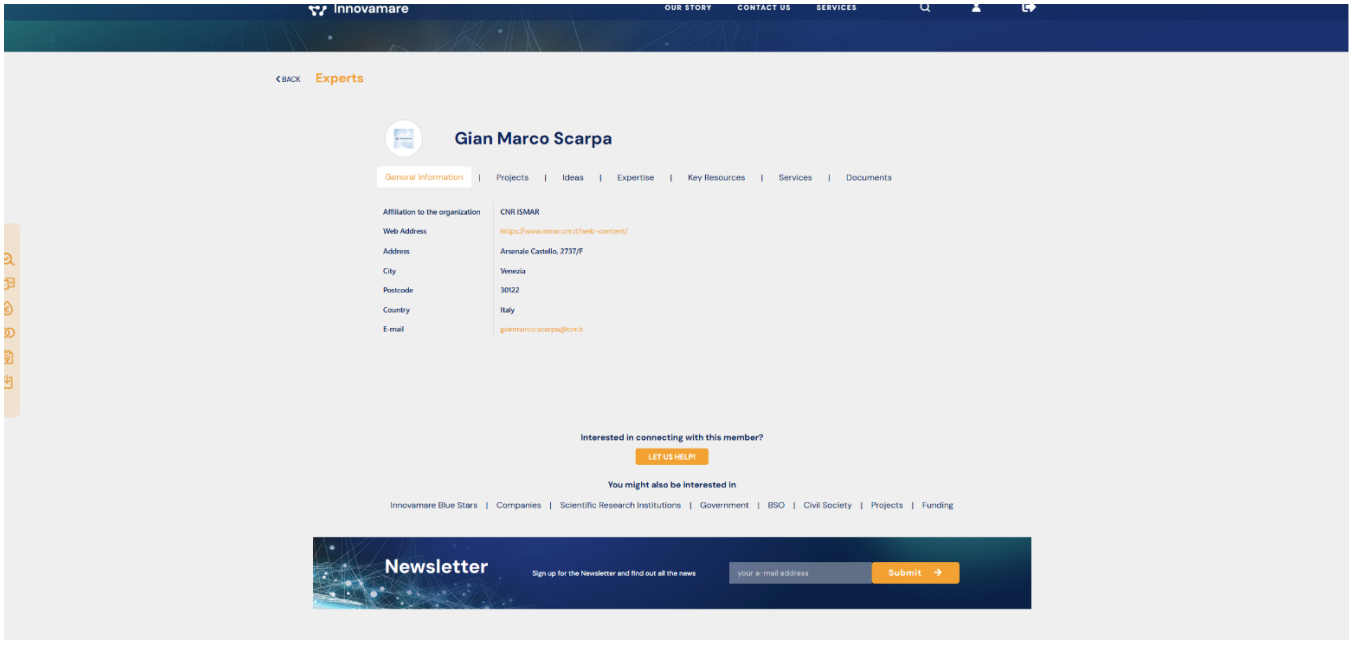
Researchers were from the maritime industry, marine transportation, and nautical tourism. The list shows a variety of young researchers – from fish and biology experts for development in the aquaculture sector, chemists, and ecologists for tracking the pollution status of the sea, as one of the aims of blue and circular economy as a sector, to numerous diverse technological, naval, and underwater engineering with interest in the development of marine technologies.

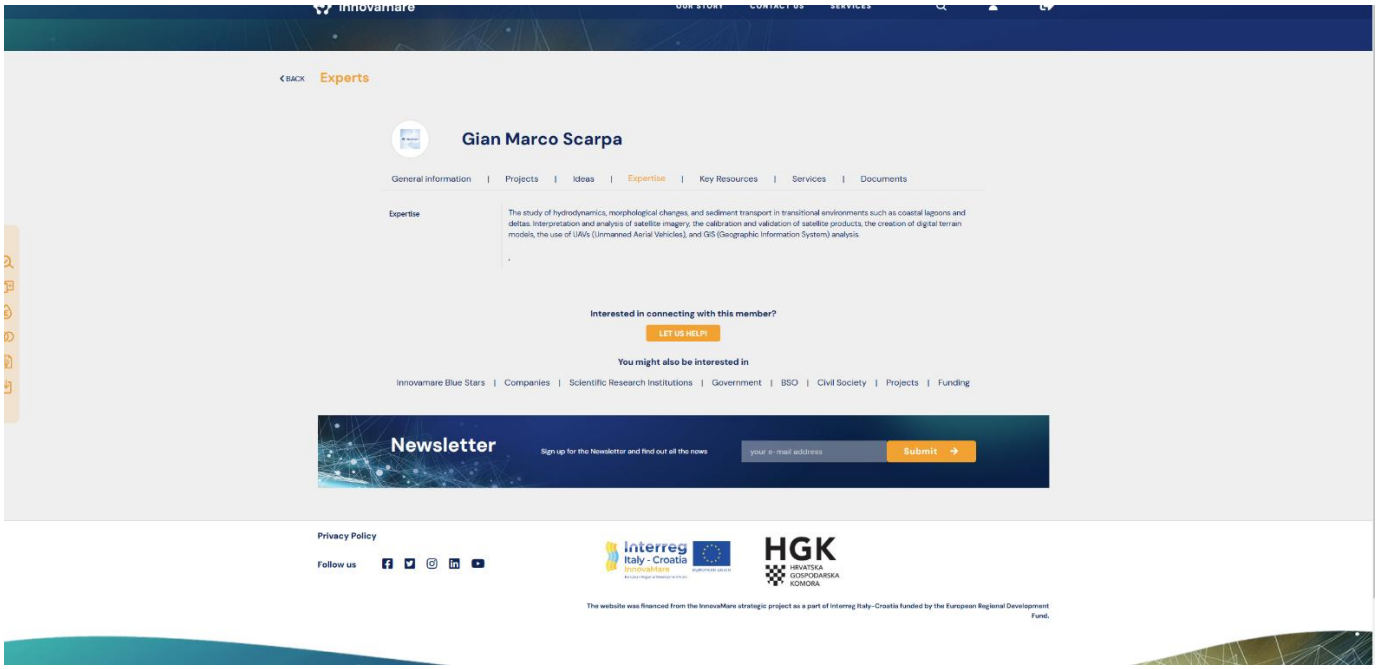
Conclusion

The primary objective of this methodology is to create a comprehensive overview of selected young researchers in the field of marine technologies and marine research among project partners. This mapping expanded the existing “Map of Excellence” and integrated new actor profiles into our ecosystem for future collaborative activities. For this activity, we mapped 30 young researchers on the InnovaMare platform to collaborate and cooperate with other stakeholders in the InnovaMare community.

Their interests and strengths as well as the areas for improvement identified by this analysis, put the basis and the emphasis on the collaboration with project stakeholders and the participation in future project activities. As we have mapped young researchers we have also enlarged our Map of Excellence available on the Mairos platform, www.mairos.org, with new young researchers who created their profiles and stay open for new collaborations. Here is an example of it and the rest of them are available in the Mairos platform, in the map of excellence section. https://mairos.org/map-of-excellence/.






innovamare
BACK
Experts
Gian Marco Scarpa
General information | Projects | Ideas | Expertise | Key Resources | Services | Documents
Expertise
The study of hydrodynamics, morphological changes, and sediment transport in transitional environments such as coastal lagoons and deltas. Interpretation and analysis of satellite imagery, the calibration and validation of satellite products, the creation of digital terrain models, the use of UAVs (Unmanned Aerial Vehicles), and GIS (Geographic Information System) analysis.
Interested in connecting with this member?
LET US HELP!
You might also be interested in
Innovamare Blue Stars | Companies | Scientific Research Institutions | Government | BSO | Civil Society | Projects | Funding
Newsletter
Sign up for the Newsletter and find out all the news
your e-mail address
Submit
Privacy Policy
Follow us
Interreg Italy - Croatia InnovaMare
HGK HRVATSKA GOSPODARSKA KOMORA
The website was financed from the InnovaMare strategic project as a part of Interreg Italy–Croatia funded by the European Regional Development Fund.