



DEEP-SEA PARTNER INTERVIEW

Aries Scarl, in-house company of the Venezia Giulia Chamber of Commerce



Aries Scarl –Lead Partner of DEEP-SEA project- is the in-house company of the Venezia Giulia Chamber of Commerce, supporting the Chamber body since 1997 in its institutional tasks, in services to businesses and in the promotion of the territory. Thanks to its 20-year experience, Aries combines the ability to operate in complex administrative scenarios with the flexibility and expertise required by the market and its operators. Main services offered by Aries relates to:

- entrepreneurship and orientation
- promotion of the territory, value chains development, territorial marketing and innovation
- organization of local fairs and events
- institutional support.

Specific expertise is held in managing territorial cooperation projects for valorization of coastal areas, foreseeing activities to reconcile the efficient development of services and economic growth in the nautical sector with environmental protection and cross border cooperation issues.

The role in the DEEP-SEA project

Aries is Lead Partner of DEEP-SEA project and leader of work package 1 “Project management and coordination of activities”. It is indeed fully engaged in ensuring a sound day-to-day management, coordinating partners in project activities and enabling an effective internal communication. Within the “technical” work packages (WP), Aries is involved in work package 3 “Nautical marinas framework analysis and investment plan”, aimed at producing an AS IS analysis on current mobility services inside the marinas involved in the project and calculating the related energy consumptions and CO2 emissions. In particular, Aries has been contributing to the analysis by administering questionnaires to the managers and users of selected Venezia Giulia marinas. Results were elaborated to analyze marinas consumption and emission profiles, and contributed to the elaboration of a tailor-made investment plan. The plan offers a concrete instrument to mobility operators and public authorities for their future planning and investments, with a special focus on marinas features and services to achieve improved coastal, inland/maritime transport and mobility services. In WP4 “Pilots: small technological investments, equipment installations and new services start up”, Aries is responsible for pilot implementation within the marinas of the Venezia Giulia area, thus taking care and monitoring:

- the installation of 6 e-charging stations for e-cars and/or e-boats (power of 22 kWh or more) with interoperable management system;
- the installation of 3 racks with electric and muscular bicycles for bike sharing services and the purchase of at least 4 muscular bikes and 8 bicycles, including a charging system for e-bikes;
- installation of 1 micro-grid system, composed by a photovoltaic system, storage system, monitoring and power management system, display

Realized activities

ARIES elaborated a Guideline for Elaboration of intervention and investment plans related to mobility services. The Guidelines shall be conceived as a standard model for all Mobility Operators and Public Authorities responsible for accessibility to sustainable inland, coastal and maritime mobility services of passengers and tourists. The document can be also replicated in other contexts because it includes universal recommendations on e-mobility and on energy efficient mobility services planning adaptable to local needs. In addition, the University of Trieste developed a web-based ICT Application to provide a map of the electric charging stations and the sharing services kick-started within the DEEP-SEA project. The App enables users to book e-mooring, e-charging parking places or the rental of e-vehicles. The App also monitors end-users behaviors and usage (with aggregated info for privacy reasons), and provides data for the investments improvements. The App has been designed also to inform (push approach) the user about new services during high and low tourism seasons, and will contribute to establish a community with local tourists operators. The user is then profiled and receives a Services CARD for using the DEEP-SEA e-mobility services. The card will be delivered to users crossing the first marina and it will be applied in marinas within the same network.

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Public events and meetings

Italian and Croatian stakeholders of the nautical and coastal mobility sector gathered in Trieste on 23rd November to explore DEEP-SEA main findings. After the institutional greetings, project aims and key achievements were presented to the audience, followed by a high-level dissemination event composed of three panels on policy, technology and tourism. The round tables involved international experts and stakeholders, who debated with the participants on the following themes, i.e.: (i) policies for the promotion of electric mobility and energy transition; (ii) state-of-the-art in the nautical electric mobility technologies; (iii) state-of-the-art in the use of nautical electric mobility.

Ponikve eko otok Krk



Founded in 1960, Ponikve eko otok Krk is a company based on the island of Krk, Croatia. A communal organization owned by all 7 municipalities on the island is in charge of waste management, water management, and recently takes care of telecommunications infrastructure (optical network) and public lighting. Ponikve works hard to educate local citizens and youth groups on the importance of environmental protection and a circular economy. Ponikve organizes and carry out numerous beach and natural area clean-ups throughout the course of the year, operating across the entire island of Krk. Celebrated as the largest island in the Adriatic, Krk is known within Croatia primarily for the efficiency of its separate waste collection and management, as well as for being a strong candidate for the Mediterranean's first zero-waste island. These achievements have been recognized by the EU's prestigious certificate of Best Practices in Waste Management.

E- mobility is a part of Krk's long-term strategy to become the first 'smart island' in Croatia. Island has "Zero Emission Development Strategy" since 2012, pushing for the integrated and sustainable development that goes far beyond in the context of energy. It introduces a long-term socio-economic development plan for the island, with special focus on energy savings through increasing energy efficiency and the share of renewable energy sources (wind, sun and biogas). As 53% of Krk's CO2 emissions come from transportation, the island installed 12 chargers for 24 electric vehicles and 8 chargers (prior to deep sea) for 80 e-bikes, the latter being part of a bike-sharing system. The island of Krk stands out with numerous bike paths separated from traffic. Compatible with the idea of DEEP-SEA project, all the bike sharing stations on the island are located in the vicinity of electric cars charging station, offering mobility while charging e-vehicle. Ponikve already had experience with PV installation on the waste management facility.

Ponikve engages in diverse and ambitious projects: door-to-door waste collection, organizing nature clean-ups, researching new ways to recycle plastic, water management with climate changes in mind, implement sustainable solutions and support investments in green energy.

The role in the DEEP-SEA project

The role of Ponikve eko otok Krk as Project Partner 12 was to offer location for another pilot installations and monitoring of the implemented solutions. Ponikve joined to the project consortium as last partner and took over responsibilities in necessary WPs: equipment procurement, participation in sharing of implementation experiences, periodical evaluation and mitigation of COVID-19 situation, dissemination and participation in project meetings and regular communication.

Realized activities

Main objectives of the project were to develop and implement innovative solutions in electrification of coastal mobility. Mobility services on island Krk were incorporated in already existing net of sharing system for electrical bicycles. Installation of microgrid system secured green energy for e-vehicles. The logic of pilot was to offer the use of electric bicycle or scooter to explore town while leaving e-car on charger, as both bicycle CS and electric car CS are next to another. Two e-car charging stations were placed next to existing bicycle sharing station and next to the port and boat charger. This approach secures convenience in mobility planning.

The Ponikve eko otok Krk pilot area implemented these activities:

- Installation of 1 rack with electric and muscular bicycles for bike sharing services;
- Purchase of 4 e-scooter for sharing services and startup of 1 e-scooter sharing;
- Installation of 3 e-charging stations for e-cars;
- Installation of 1 e-charging stations for e-boats;
- Installation of 1 microgrid system.

All of the above has been incorporated into e-mobility smartphone app which allows users to find and rent e-vehicles integrated to one sharing system. This effectively improves sustainable passengers mobility in coastal area. The app was also used by the partner to follow through with monitoring.

Other activities were promotion and dissemination: participation in conferences, collaboration in promotional events for e-mobility, and working with local stakeholders as signatories of project's Memorandum of Understanding. Team members also participated in research activity, working with survey for marina users and marina operators.

Public events and meetings

Ponikve eko otok Krk hosted DEEP SEA consortium meeting in the fall of 2021, and few other workshops dissemination events. PP12 project manager mr. Dejan Kosić presented the project at Deep Sea workshop on conference „Climate change and preservation of marine ecosystems of the Adriatic Sea" held in Krk on September 30th 2022, under topic „Application of new technologies in adaptations to Climate Change".

Interesting public events were e-cycling events organized in cooperation with NGO Moj otok (My island), signatory of DEEP-SEA Memorandum of Understanding and local promoter of e-mobility. There were 3 e-cycling days organized for promotion of e-mobility, which gathered local and foreign cycling enthusiasts on riding scenic routes connecting neighboring municipalities. Some participants joined with their own e-bikes, while others used DEEP SEA and compatible public sharing bikes.

One route went from Ponikve building to municipality Malinska (PP6), cca 13 km distance. Following lunch break in Malinska participants visited newly opened Maritime heritage interpretation centre DUBoak, which connects Slavic mythology, maritime tradition and love towards sea and nature. Interdisciplinary approach to promotion of project goals secures reaching out to diverse profile of citizens.



Project Partners



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Chamber of Commerce of Foggia



The Chamber of Commerce (CCIAA Foggia) is competent for the whole territory of the province of Foggia (61 municipalities, population of 628.221). Referring to 2014, the Chamber of Commerce gathers about 80.114 companies, of which 71.766 regularly operate on the territory. The functions of the Chamber of Commerce of Foggia are essentially three: - administrative functions assigned by law and delegated by the State - commercial functions/regulation of the market - promotional functions: initiatives to support economy and business system of the Province, activities by means of special agencies to carry out services with a high level of specialist expertise through streamlined and flexible structures, organisation of training courses, conferences and seminars, support for participation in exhibitions/fairs, projects of particular importance for the economy of the area (ex., in tourism, energy management), information and support to local entrepreneurs.



The role in the DEEP-SEA project

The Chamber of Commerce coordinated the communication activities of the project ensuring the needed external communication of project results and achievements towards main outlined targets, has provided channels and means tailored to achieve the selected objectives: increase knowledge and influence the attitude towards efficient and energy-sustainable passenger mobility services. The CCIAA of Foggia, with the support of the other Partners has developed a Memorandum of Understanding model (MOU) of the Adriatic for the strategic implementation of results of the project. The Memorandum expressed the will of the participants, outside and inside the project, to channel efforts towards the development of services and technologies sustainable and energy efficient mobility.



Realized activities

The Chamber of Commerce of Foggia has drafted the document "Memorandum of Understanding". This document was developed with the collaboration of the LP and with the contribution of the project partners. The Memorandum of Understanding is useful for involving stakeholders in the achievement of the project objectives, even after the end of the project.

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