

Plenary session of the European IHO network (IENWG) 27th February, Official French Representation, Brussels

Example of transnational EU projects – Croatian Hydrographic Institute <u>www.hhi.hr</u>

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Example of transnational EU project – IPA Programme Croatia Montenegro



Joint Promotion and Increased Level of Safety in Nautical Tourism in Dubrovnik-Neretva County and Montenegrin Coast"- "NauTour"

- The project was launched in January 2011.
- Total value of the project was 451.928,36 €.
- Croatian partners on the project are: Hydrographic Institute of the Republic of Croatia (HHI), as leading partner and University of Dubrovnik (Maritime department).
- Montenegrin partners on the project were Hydrometeorological institute of Montenegro and National tourist organization of Montenegro
- Main objective of the project was to improve the tourism (especially nautical) potential of the Dubrovnik-Neretva County and the Montenegrin coast through its joint promotion as a unique tourist entity with rich cultural and natural heritage.







- The project contributed towards raising the quality of services and increasing the level of safety in nautical tourism through cooperation between:
 - hydrographic institutions,
 - institutions providing different tourist services (marinas and other tourist ports, charter agencies),
 - institutions for maritime safety and safety in general (harbour master's offices, port authorities, maritime border police).







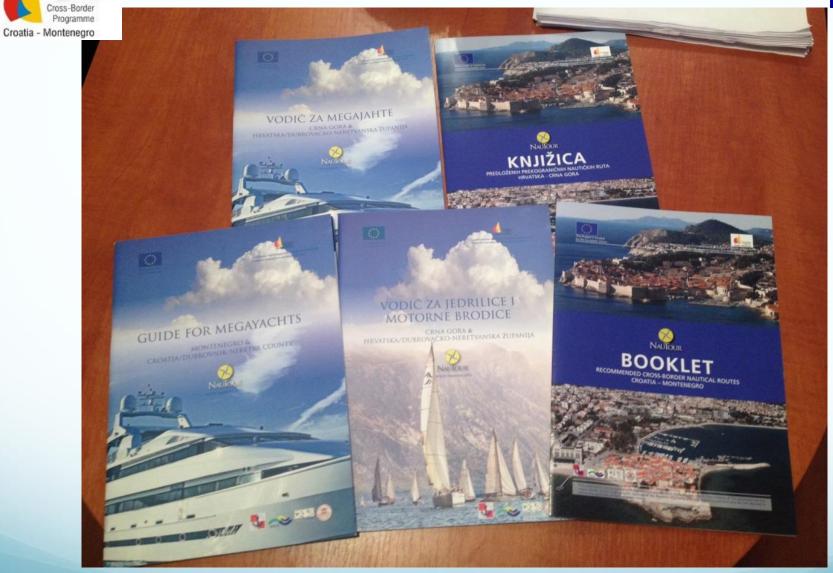
 The outcome of all the projects was establishment of the interlinked cross border cooperation between project partner and associate institutions and stakeholders which didn't exist before (after war period – since 1991).

The output which is the most important to mention was the establishment of Hydrographic department – hydrographic service in Montenegro (within the Hydrometeorological Institute of Montenegro) – capacity building.



Outputs of the project – publications for sailors





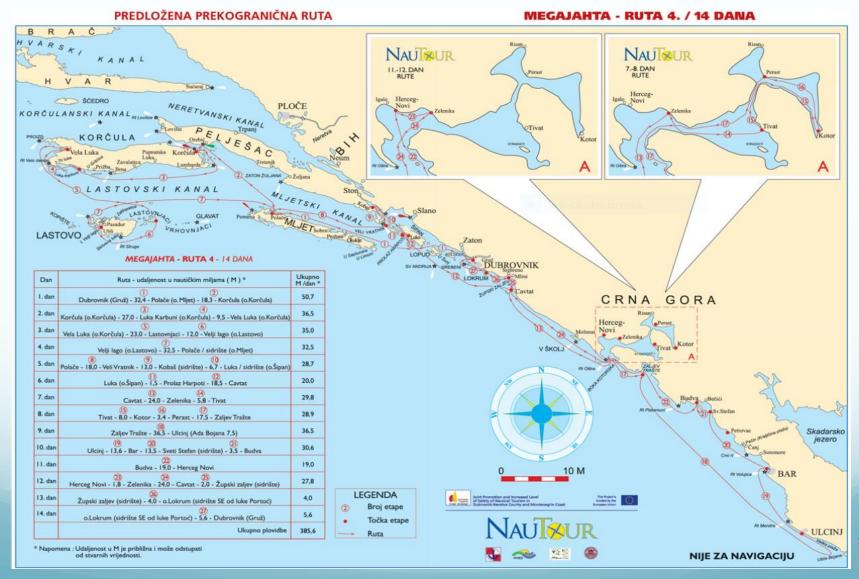






Cross border routes







Joint Actions for Sea Pollution Prevention - JASPPer"



- The project was launched in January 2013.
- Total value of the project was 598.339,17 €.
- IPA project from the Component II Cross-Border Programme Croatia-Montenegro 2007.-2013. within measure 1.1. – Joint measures in the protection of the environment, nature and cultural heritage.

- Croatian partners on the project are: Hydrographic Institute of the Republic of Croatia (HHI), as leading partner and Institute for Marine and Coastal Research in Dubrovnik (IMP).
- Montenegrin partners on the project are: Institute of Hydrometeorology and Seismology of Montenegro (IHMS) and the University of Montenegro – Institute for Marine Biology.



Specific goal and results

The aim of the project was to stimulate the reduction of the pollution in bordering aquatories of two countries and to establish the cooperation between the competent institutions on the topics in the environment protection.

The specific goal of the project was to create the preconditions for the long-term cooperation of the institutions in the bordering area on the topics of wastewater management and monitoring of the seawater quality.

The expected results of the project were: the establishment of the model for the monitoring of the parameters of the sea pollution in the bordering area of Croatia and Montenegro and the strengthening of the capacities of the competent institutions in the bordering area in the monitoring of the seawater quality and the usage of the EU funds.



Activities of the Project "JASPPer" were carried out in two directions:



- 1.Establishment of cooperation and increase the capacity for joint control and waste water management between relevant institutions from both sides of the border and establishment of a model for the purpose of the monitoring and detection of cross-border pollution parameters;
- 2.Increase of the level of knowledge and the capacity of regional experts in the field of monitoring of sea and cross border effects of waste water management and raise public awareness of the importance and benefits of joint cross-border approach to the prevention of marine pollution.





Equipment procured







CRO- Remotely operated underwater vehicle (ROV) has been used for the purpose of research of submarine outfalls, acquired from the grant project "Jaspper", whose value is 101,250.00 €.









Capacity building

The output which is the most important to mention is the institutional development of IHMS through establishment of hydrographic and oceanographic activities which is very important for one maritime country regarding safety of the sea and prevention of marine pollution.

Institutional strengthening of the IHMS (education and training of employees of the IHMS during field research and exchange experiences through training of young researchers from partner institutions) has been organized as a contribution to increasing the level of knowledge and the capacity of regional experts in the field of quality control at sea and cross-border effects of waste water management and raising public awareness of the importance and benefits of joint cross-border approach to the prevention of marine pollution.









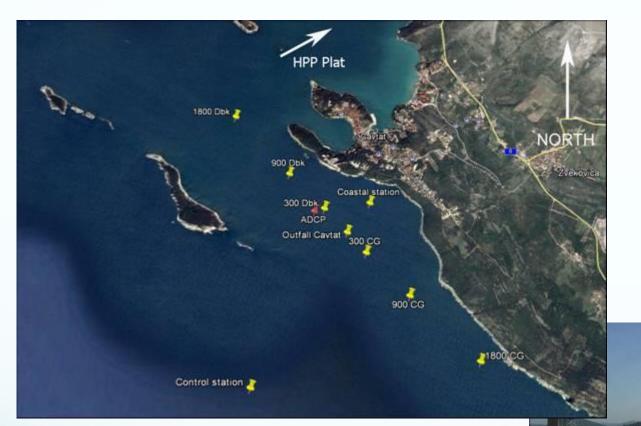
MNE - Side Scan Sonar





Current measurements in the cross border area









Sustainability

- Memorandum of understanding in the prevention of marine pollution in the border area of Montenegro and the Croatian was signed between municipalities municipalities Kotor, Tivat and Konavle and through that implemented activity is ensured sustainability of the project "Jaspper".
- Awareness of joint protection of the marine pollution in the border area of Dubrovnik Neretva County and Montenegrin coast, as one related destination, is established within project activities (round tables, presentations, promotions, scientific articles and studies, brochure, web site).



Cross border joint research and awareness raising action in detecting environmental conditions. Establishing higher safety and protection measures of Maritime domain parts of Croatia and Montenegro" - CoRE

- The project started in January 2016.
- The total value of the project for both sides is 536.065,97 eur.
- EU/IPA project under component II, measure 1.1 Joint actions for environment, nature and cultural heritage protection.
- Croatian partners on the project are: Hydrographic Institute of the Republic of Croatia (HHI), as leading partner and Institute for Marine and Coastal Research in Dubrovnik (IMP).
- Montenegrin partners on the project are: Institute of Hydrometeorology and Seismology of Montenegro (IHMS) and Public Enterprise for Coastal Zone Management (JPMD).
- Overall objective of this project was to contribute to improvement overall protection and preservation of eastern Adriatic coastline.











Specific objectives were:

- to establish safety protocols and new hydrographical maps (for waterway safety / habitat preservation researches) based on research and gathered date, concerning natural changes of coastline border in Croatia and Montenegro influenced by erosion from mainland and wave power from open sea;
- •to increase general knowledge of wide groups of stakeholders on Maritime property (maritime demesne) component coast and its sustainable littoralisation.

Results of the project:

- •coastal environmental protection and preservation improved throughout crossborder institutional cooperation and mutual support, capacity building and data exchange
- established "new zero" state and safety recommendations according to collected data for delicate and changing environment of delta Neretva, (approach to port Ploče, junction of Baćina lakes and sea), delta Bojana and Sutomorska and Mogren beach and Dubrovnik city walls foundation, interpreted in form of hydrographic survey and other scientific findings field measurements
 wide public informed on basic "rights" of a sea coast, it's formulation through Maritime domain regulations and Protocol of Integrated Coastal Zone
 Management
 www.projectcore.info







- CRO Directional wave rider buoy, Side scan sonar
- MNE Multibeam















Monitoring of the waves - St. Andrija











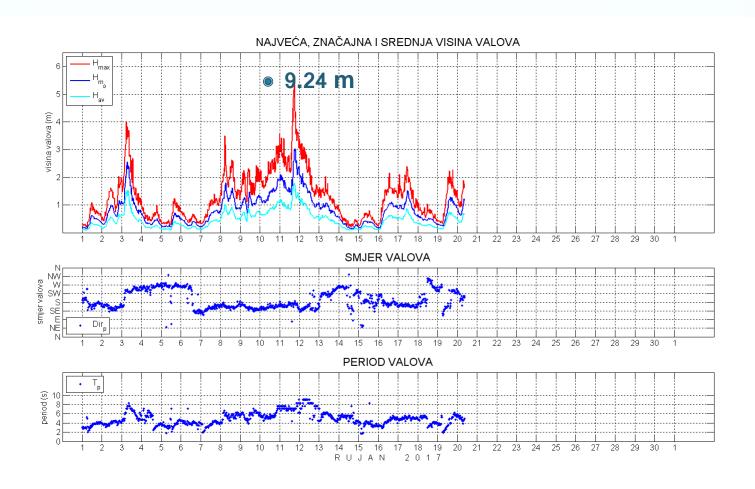








Results - Monitoring of the waves - Sv. Andrija

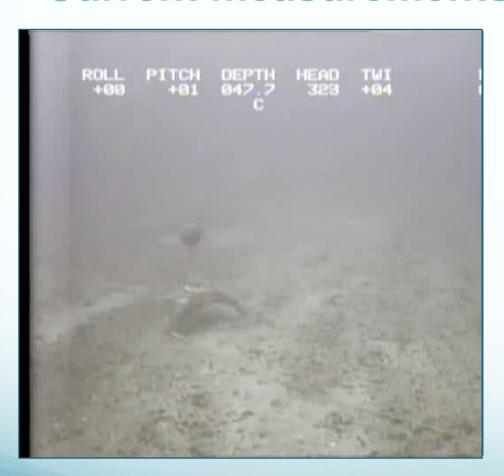








Current measurements - Ploče











Results- Side scan sonar - Ploče, Dubrovnik

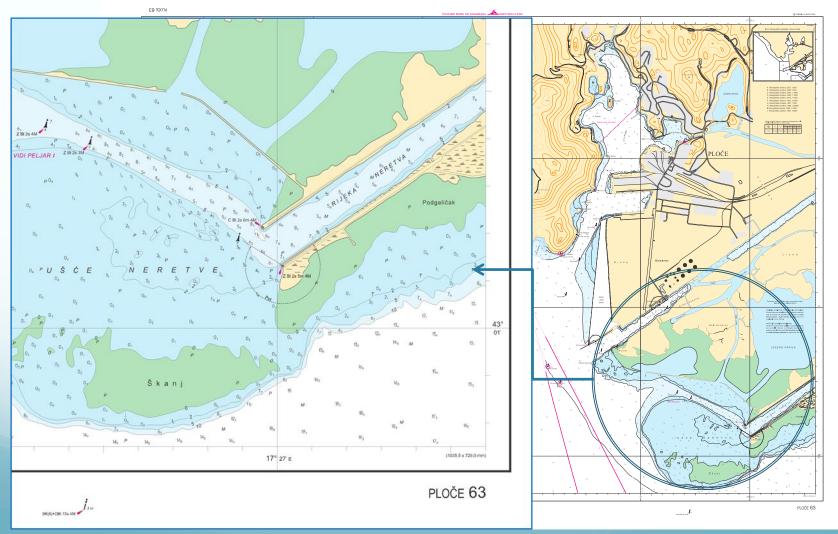








Nautical chart – port of the Ploče





Other programmes

- Project application in preparation for the new call for the Interreg IPA CBC Croatia- Bosnia and Herzegovina and Montenegro
- Project in the evaluation process programme Interreg
 Italy Croatia
- Projects from the Operational programmes EU
 Structural Funds and Cohesion Funds (improvement of the hydrographic service in CRO)



EMODnet – HRBData – phase III Croatian contribution

HR / HHI recognized EMODnet project.

The Subcontract signed (2017) was reviewed:

- The conflict was discovered between the national regulation and the contract provisions
- Problem with intellectually property provisions
- Problem with data resolution required to deliverables / results

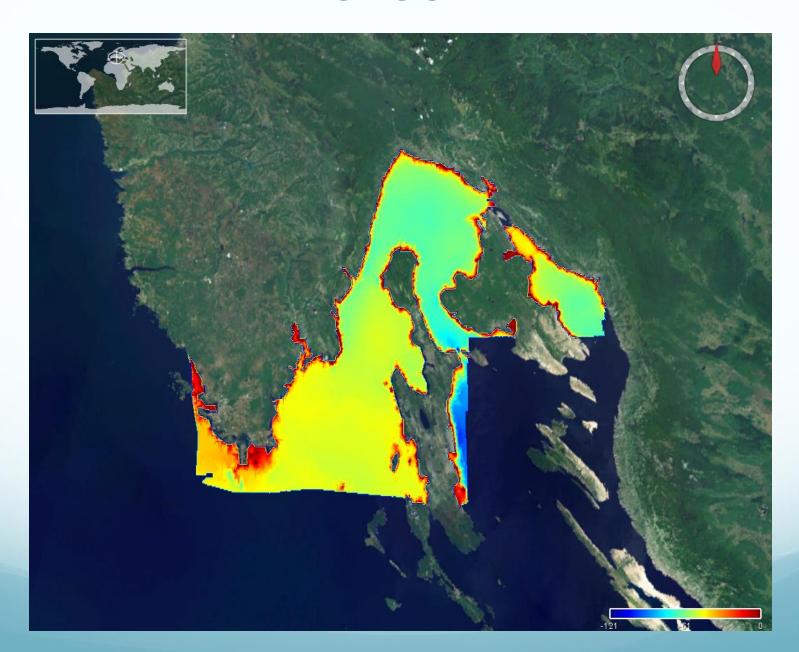


Solutions

- 1. Leave the Contract or
- 2. Try to find a compromise solution
- A <u>Statement was signed</u> (Dec. 2017) in order to deliver the Results
- DTM created using chart data scale 1:50 000 (Res. 230m)
- Coastline created using chart dana 1:100 000
- Metadata under preparation expected to deliver (March 2018)

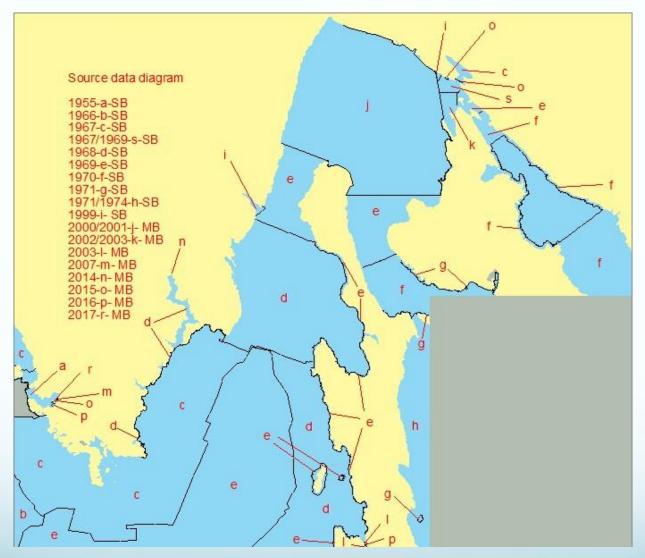


area



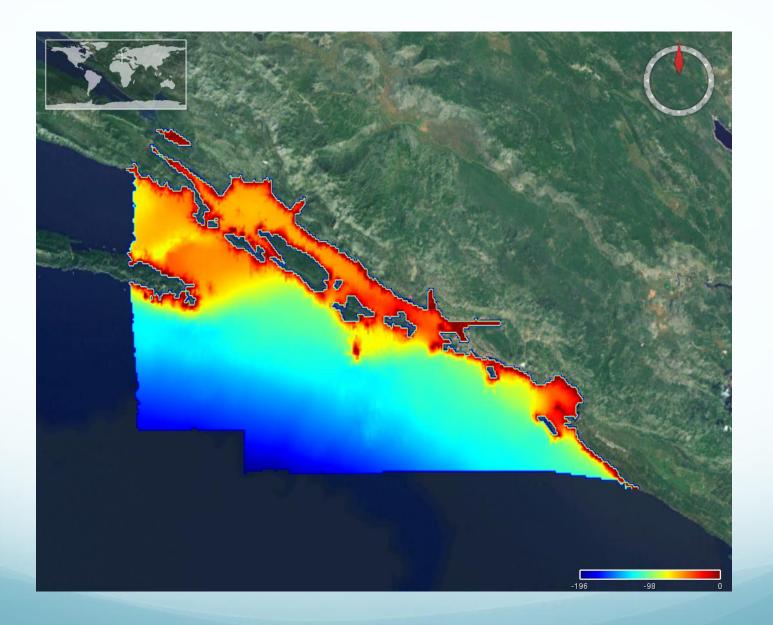


Metadata presenting





DTM - Solution - Dubrovnik area





Metadata presenting

