

D3.2.2. FINAL REPORT (POSITION PAPER)

Annex

InnovaMare project

Blue technology - Developing innovative technologies for sustainability of Adriatic Sea

WP3 - Enhancement of framework conditions by development of innovation ecosystem



Project References

Call for proposal 2019 Strategic – InnovaMare

Project number: 10248782 Work package: WP3 - Enhancement of framework conditions by development of innovation ecosystem Activity title: A2 Designing and implementing questionnaire for policy stakeholders Deliverable title: D3.2.2. Final report (position paper)_Annex Expected date: M7 Deliverable description: Final report is containing the analysis of conducted interviews and identifying a summary of policy experience, feedbacks, priorities, and requests related to the development of a cross-national ecosystem of innovation. Partner responsible: Union Camere del Veneto Partner responsible for the deliverable: Union Camere del Veneto Dissemination level: CO - Confidential Status: Final Version: V1 Date: 29th January 2021

European Regional Development Fund

1

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Institution	Veneto Region	Friuli Venezia-Giulia Region	ARTI – Puglia Region Agency for Technology and Innovation	City of Rijeka	Dubrovnik- Neretva County	Šibenik-Knin County (Šibensko-kninska županija)	DUNEA - The Regional Development Agency of the Dubrovnik-Neretva County
Location (City, Province, Region	Venice (Veneto)	Trieste (Friuli Venezia-Giulia)	Bari (Puglia)	Rijeka, Primorje- Gorski Kotar County	Dubrovnik- Neretva County	Šibenik, Šibenik-Knin County	Dubrovnik-Neretva County
Country	Italy	Italy	Italy	Croatia	Croatia	Croatia (Hrvatska)	Croatia
Name of the policy / decision maker	Flavia Zuccon Federico Rosset	Ketty Segatti	Stefano Marastoni	Marko Filipović, mag. ing. aedif.	Nikola Dobroslavić	Goran Pauk	Nikola Dobroslavić
Role of the interviewee in the institution	Flavia Zuccon Director Unit Programming Direction Organizational Unit Territorial Cooperation and European Macro-strategies Federico Rosset Unit Programming Direction Organizational Unit Territorial Cooperation and European Macro-strategies	Deputy Director of the Directorate for Labour, training, education and family issues; Managing Authority of European Social Fund; In charge as co-coordinator of S3 Strategy	Director of the Area "Policies for technology transfer and development of innovative entrepreneurship"	Deputy Major	County prefect	County prefect	County prefect

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3

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Please describe the policy / strategic priorities perceived by your institution linked to topics of technological innovations and sustainability, related to marine and maritime sectors, and how it is included in the programs developed by your institution? Friuli Venezia-Agenzia Strategica regionale City of Rijeka Dubrovnik-Neretva County Šibenik-Knin County **DUNEA** - The Regional Veneto Region **Giulia Region** per la Tecnologia e (Šibensko-kninska županija) **Development Agency of** the Dubrovnik-Neretva l'Innovazione - Regione Puglia (ARTI County Puglia) Strategy of the City of Rijeka for the period The Veneto Region has not The Friuli In the Region Puglia the Sustainable management of Over the last few decades in the In the Republic of Croatia, properly developed policy 2014-2020: Šibenik-Knin County, coastal the issue of marine litter is Venezia Giulia political interest and the marine environment is programs tackling the Region investment on all the sectors Projects 1st strategic goal crucial to preserve good urbanization has largely covered by the umbrella Act marine and maritime of the blue The construction of the Zagreb on Sustainable overlooks ecological resulted in pressure on space, Waste the 0 status, sectors as other regions in sea. therefore growth is high: we prepared a Deep Sea Container Terminal biodiversity of the marine water resources. Management (Official and Italy have done. The main these themes are SWOT analysis on the theme will enable the berthing of the Gazette 94/13, 73/17, 14/19 environment, but also sustainable development in priorities of the Veneto relevant for its and we work to be largest (18 m draft) container growing and 98/19). The Marine human health. There are general. The Regions - also described in strategic aligned with the national and vessels, which will make the port different sources of load on urbanization of the coast is Framework Strategy the Smart Specialization of Rijeka more competitive and typical development. European priorities. the marine environment. of Mediterranean Directive of the European Strategies - refer to the Speaking about Food security, climate significantly increase the cargo Whether it is marine countries where the Parliament and of the manufacturing sectors and the changes, new pollution due to insufficient attractiveness of the coast leads Council of 17 June 2008 energy capacity. the support to innovation (2008/56 / EC) establishes a programming resources, natural resources, 0 The construction of a treatment or non-existence to increased construction for (also technological one i.e. period 2014double-track railway of wastewater treatment settlement, and especially for framework for Community better robotics and sensors, 2020, medical care are the top from Delnice to systems or littering as a tourism. Strengthening the action in the field of marine industry 4.0 technologies) considering that priorities of the Puglia Region. Šapjane, which will result of activities in fisheries resilience of the coastal area has environmental policy, in this broad area, not we have many We defined a list of 12 priority pass through Rijeka, and aquaculture, become an important goal for within which Member explicitly connected to the companies sectors divided in 56 subwill open agriculture, maritime the Mediterranean, where States must take measures to the domain related to the sea / working in the sectors, the interest in both possibility for the transport, coastal coasts have always been achieve or maintain good blue growth. maritime sector traditional and innovative introduction of a marine environment by urbanization, the ultimate desirable for living and (as Fincantieri activities. high-speed city consequence is great spending free time. Coastal 2020, including those for example), railway. economic losses to the construction is increasingly related to marine litter we provided county economy. There is exposed to the effects of the sea, which is defined as one of

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4

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funds to the	High imp	ortance is given to	0	With the	also an important impact of	which is worrying, especially	the important pressures on
maritime	0 1	ration of the blue	Ŭ	participation of the	climate change, which is	when sea-level rise due to	the marine environment. In
productive	0	with the European		City in the	manifested through rising	climate change is considered. In	May 2020, the Republic of
chain through	5	1 and sustainability		arrangement of the	sea levels, flooding of the	order to alleviate such	Croatia adopted the Marine
ERDF and ESF	0	ary relevance.		marina in the port of	coast (sea tsunamis),	problems and strengthen	Waste Management Plan.
Operational	1	ectors of investment		Baroš with	invasive species of male	coastal resilience, the Coastal	The problem of waste in the
Programme.	at regiona			accompanying	organisms, etc.	Plan for Šibenik-Knin County	sea is increasingly visible
In addition,	ut regiona √	Aquaculture		facilities, this part of	For the Spatial Plan of the	was drafted.	and obvious in the Republic
maritime		Construction and		the city will be	Dubrovnik-Neretva County,	The plan was drawn up in	of Croatia, and knowledge
technologies	•	repair of ships		transformed into an	a strategic environmental	accordance with Article 18 of	of its problems mainly
were inserted in	~	Off-shore		attractive zone.	assessment was conducted	the Protocol on Integrated	corresponds to the situation
the	•	extraction of		The arrangement of	and environmental	Coastal Zone Management	in the Mediterranean.
specialisation		natural gas	0	the Rijeka	protection measures were	(ICZM) of the Mediterranean,	Considering the distribution
areas of the S3		Fishing		breakwater (Molo	recommended, which were	which calls for such plans to be	of the population along the
	•	0		longo) will offer new	,	1	1 1 0
Strategy. Now, in the	•	Coastal protection Maritime		facilities.	1	drawn up. The coastal plan aims at sustainable coastal	coast, strong tourist activity,
,	v		D · · Ord · · ·		implementation provisions of the Plan.		cage fish farming activities,
Working group		transport	Projects 2 nd strategic g	, ,		development, but also focuses	hydrocarbon exploitation as
Blue Growth	The no-co	re sectors are:	0	Encouraging	Dubrovnik-Neretva County	strongly on adapting to climate	well as intensive ship,
and Sustainable	~	Biotechnology		technological	in its Environmental	variability and change. The	nautical (sailing, yachts) and
Mobility, we are		research and		development aimed	Protection Program 2018-	plan primarily refers to spatial	tourist (cruisers, tourist
revising the	,	development		at increasing the	2021. recognizes the issues	planning, water management,	ships) traffic and the regime
priorities taking	\checkmark	Renewable energy		competitiveness of	and proposes measures to	and coastal protection, but also	of sea currents, a significant
into account the		resources and		Shipyard "May 3rd"	improve the waste	regional development and	load of marine litter was
relations among		production		will ensure the	management system,	biodiversity management.	recorded. In addition to
blue growth and	\checkmark	Mineral resources		survival and	wastewater treatment	During the development of the	waste that reaches the sea in
the European	\checkmark	Tourism		development of the	system, the establishment of	Plan, workshops were held	different ways and through
green deal and	\checkmark	Utilities (Water,		shipbuilding	a database on marine litter in	where local stakeholders	various activities, a special
digitalisation.		electricity, gas		industry in Rijeka.	the area of DNŽ, the	discussed and agreed on a	problem is the introduction
With reference		supply)	0	Encouraging the	development of coastal	future vision of the Šibenik-	of transboundary waste that
to education, it				development of	management plans.	Knin County coast. The impact	enters the Adriatic Sea by

5

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notemotealgae (to be relevance for developed as a sustainable mobility issuesLaw on Sustainable Waste management, counties do not adopt wasteis also reflected in the interest shown throughout the manufacturing the and hydrologica of ITS Schoolsespecially during extremely unfavorable metorologica of obligation lies with cities and many national conferences and include activities in the and health and environment, deals also with sectors.Law on Sustainable Waste management plans, this obligation lies with cities and many national conferences and include activities in the waste management of marine litter. The need to establish many to workshops. Many coastal accumulates significantly in corrain plans, this include activities in the management of marine litter.is also reflected in the interest shown throughout the Plan at many national conferences and corrains. Due to the influence of sec accumulates significantly in corrain plans, this include activities in the management of marine litter.is also reflected in the interest shown throughout the Plan at many national conferences and corrains. Due to the influence of sec accumulates significantly in corrain plans the bue workshops. Many coastal accumulates significantly in corrain plans the bue workshops. Many coastal and creative and digital communities.especially during extremely and creative and digital communities.ihe development and creative and digital communities.ihe deve	in immediate to	✓ Cultivation of	manifima in Justin	According to the comment	of the Dian on multiple succession	and using automate
relevance for sustainable mobility issues of ITS Schools for training young people in the nautical, logistics and maritime sectors.developed as a product to be used in phitopharmacy, cosmethic and energy sector)technologies will ensure the criterion the development of the city.Management, counties do adopt waste mobility issues obligation lies with cities and international conferences and include activities in the management plans of to two sectors, sustainable manufacturing and creative and digital communities.unitavorable meteorological and hydrologica of its sectors.relevance for sustainable pointenversy sector)Furtermore, the S3 Strategy of the Region, in the priority man health and environment, deals also with sectors.for a systematic approach to to two sectors, sustainable manufacturing and creative and digital communities.Management plan of the Period 2017-2022.southerm coast of th equiption of a protocol offers several problem, especially th ereconmendations, but also recommendations, but also recommenda	1		5	0	-	sea and wind currents,
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crucial for an effective especially given climate he share of such waste in the		1		management, which is		1
		1		0		he share of such waste in the
		1		response to sudden	change, which creates	southern Adriatic can make
		1		1	0	up almost 70% of the total
		1		1 1		amount (data from the HR
		1		I		Marine Waste Management
		1		1 1		Plan). Extreme cases of
		1		1	5	marine pollution occurred
		1			1 0 1	in late 2010 and 2017 in
		1			1	Dubrovnik-Neretva County

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	ć	do not even have sufficient	funds because by withdrawing	when the coastal and island
	f	financial resources for	funds from the EU, counties	areas were polluted with
	r	rehabilitation. As a	can more easily invest in large	large amounts of marine
	r	reduction in the reduction of	projects with a comprehensive	litter from the confluence of
	r	marine pollution of	impact on the well-being of	Albanian rivers and the
	t	transboundary origin in the	local people and thus in the	Otranto and Neretva rivers.
	Ι	DNC is achieved, it is	protection of the Adriatic Sea	The problem of plastic waste
	e	extremely important to	and the environment.	pollution is particularly
	e	establish international		affected in the southern
	c	cooperation with		Dalmatian islands due to the
	r	neighboring countries that		existing circulation regime
	e	enables the Barcelona		and due to the long period
	0	Convention platform.		of strong southern winds.
	Т	The Law on Sustainable		Regardless of the source and
	V	Waste Management defined		method of maturation,
	r	marine waste as a special		marine litter is a growing
	c	category of waste and		environmental problem in
	F	prescribed the drafting of the		the Adriatic Sea and a
	Ō	Ordinance on the treatment		lasting environmental and
	c	of marine litter, which has		sociological challenge to the
	r	not yet been adopted. The		surrounding states that
	A	Action Program of the		share it. In addition to the
	S	Strategy for the Management		problem of waste
	c	of the Marine Environment		accumulation on beaches,
	а	and Coastal Area -		the seabed is also
	Ν	Monitoring and Observation		endangered, where large
	S	System for the continuous		amounts of waste have been
	а	assessment of the state of the		recorded.
	A	Adriatic Sea determines the		The Marine Waste
	in	indicators, areas and		Management Plan for the

7

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	frequency of research	Republic of Croatia predicts
	monitoring of marine litter.	4 strategic goals:
	In May 2020, the Marine	
	Waste Management Plan of	- Objective 1. Establish a
	the Republic of Croatia was	marine waste management
	drafted, which does not have	system
	the force of a normative	- Objective 2. To improve the
	document, but its purpose is	waste management
	to serve as a technical	information system
	document as an expert basis	- Objective 3. Continuously
	for drafting the Regulations	carry out education and
	on Marine Waste	information activities
	Management.	
	Measures to achieve a good	- Objective 4. To strengthen
	state of the marine	international cooperation in
	environment can find a	solving the problem of
	solution in innovative	marine litter.
	technologies, whether it is	
	wastewater treatment,	
	prevention and remediation	
	of marine pollution or	
	various economic activities	
	at sea and in the coastal area.	

8

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Please describe any programs/initiatives implemented or planned by your institution related to marine and maritime sectors and indicate on which topics of "Annexes 1 and 2 (link)" it impacts A Aim/scope b Period/time frame c. Financial scheme d. Target (stakeholders) e. Results/outcomes achieved f. Most effective initiatives (in terms of results and interests from main targets)							
Veneto Region	Friuli Venezia- Giulia Region	Agenzia Strategica regionale per la Tecnologia e l'Innovazione – Regione Puglia (ARTI Puglia)	City of Rijeka	Dubrovnik-Neretva County	Šibenik-Knin County (Šibensko-kninska županija)	DUNEA - The Regional Development Agency of the Dubrovnik- Neretva County	
The Veneto Region - Organizational Unit Territorial Cooperation and European Macro- strategies has just created a monitoring software aiming at mapping all the projects (and actors) submitted to the territorial cooperation programs in which the Veneto Region participates. The catalogue is not only for the approved projects but on all the projects (even the projects proposed by virtue of the	The Region is active in three main funding areas: ESF, ERDF and territorial Cooperation. The projects we are involved with respect to Territorial Cooperation are mentioned in the last response, so that	The regional law 17 of 2015 deals with the coast protection and management and regulated the use of the state coast and maritime areas. The law was aimed at a coordination of regional and municipal planning in order to manage in a sustainable way the blue economy. Unfortunately this initiative did not have the impact expected,	The most important component of the Rijeka Gateway Project, a terminal designed as a straight pier with a final length of 680 m and an average width of 300 m. The planned depth of the sea at the pier is at least 20 m and allows for the reception of container ships of all sizes. The terminal is built in two phases, with the first phase involving the construction of a 400 m long pier and the second phase the construction of an additional 280 m. At the end of both phases, the Port of Rijeka will boast a pier	DNŽ is implementing the WATERCARE project a. Aim to improve the quality of bathing sea water by reducing microbiological pollution that enters the sea through rivers and watercourses, by using innovative tools in the management and treatment of fecal wastewater. Also, the goal is to develop a forecasting and alarm system in case of bathing sea pollution that would help in deciding on the use of bathing sea. In the pilot area at the estuary of the Neretva, special equipment will be installed to inform in time about the pollution of the bathing sea water.	Šibenink-Knin County is participating in numerous projects and two are oriented on safe and stable development in the Adriatic with an emphasis on improving and preserving the environment. The first one is the Adriadapt project funded through the Standard Call for Proposals under the INTERREG Italy- Croatia Cross-Border Cooperation Program 2014-2020. Implementation of the project started at 01.01. 2019. It is worth a		

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consulting activity we do to the	here we can	probably due to the fact that	with a total length of 680 m. The	b. 01.01.2019 30.06.2021.	total of 2,223,870.00 euros and
territory).	concentrate on	Municipalities only rarely	construction of the first phase of	c. The total value of the WATERCARE	will last for 24 months. The goal
In the database:	ESF and ERDF.	have the resources to deal	the pier is in its final stage, and	project is EUR 2,833,019.40, of which the	of the Adriadapt project is to
- catalogued the projects for	Concerning ESF,	with	parallel to the construction of the	share of the Dubrovnik-Neretva County	contribute to a safe and stable
transactional and cross-border, for	we activate	the enormous amount of	pier the railway interface of the	is EUR 278,000.00,	development in the Adriatic with
axes, funded and unfunded;	every year 3 or 4	issues that they manage,	terminal will be reconstructed and	d. Local self-government units, utility	an emphasis on improving and
	technical high	therefore only a few of them	the connecting road D-403 will be	companies, Public Institution for	preserving the environment,
- subjects catalogued: business,	schools level	managed to adapt their plans	built. The continuation of	Management of Protected Areas of	which is a key element of joint
academy/research, PA and	training	according to the mentioned	construction of the remaining	Nature DNŽ	strategies. Investing in
institutions and companies. They	courses in the	law.	terminal phases is the obligation of		knowledge and strengthening
were catalogued according to the	fields of marine	The regional law 43 of 2017	the future concessionaire. The	e. Installed anticipation and alarm system	capacity for timely planning will
theme on which they presented the	and maritime	on fishing and aquaculture	concessionaire, selected in an	in case of bathing sea pollution	increase resilience to climate
projects.	sectors,	has designed the regional	international tender, will receive a	DNŽ also implements projects:	change, reduce its negative
. ,	including	strategy concerning the	concession for the management,	ADRIACLIM (described by	impact, and enable sustainable
0	maritime	creation of a system aiming	construction and use of the new	DUNEA);	development.
programming period, the	transport and	to sustainable development	container terminal.	CASCADE (described by	The second one is the PEPSEA
participation of Veneto subjects in	logistics, 4 in the	and	The container terminal will be	DUNEA).	project, co-financed through the
three maritime programs, two	year 2020.	provided support to the	connected to the new state road D-		Standard Call for Proposals
transnational (ADRION and MED)	With reference	innovation of the sector,	403 linking the Port of Rijeka,		under the INTERREG V-A Italy-
and one cross-border (Italy-	to ERDF, in	involving also the research	namely the Zagreb Deep Sea		Croatia Cross-Border
Croatia), and in a cross-border	priority axis 1,	stakeholders. The impact is	Container Terminal, to the		Cooperation Program 2014-2020.
· ·	funding scheme	good but to get precise data it	Škurinje junction, currently under		The project implementation
program that includes activities	1.3.b, we	would be necessary to	construction. This way, the Zagreb		started on January 1, 2019, and
related to the blue economy, Italy-	financed	make a request to the office	Deep Sea Container Terminal will		will last for 30 months. The total
Slovenia, was monitored.	partnerships	involved in the regional	be connected to the network of		value of the PEPSEA project is 2.9
To reply to the request of the	among	administration.	Croatian motorways i.e. the main		million euros. The aim of the
current Innovamare activity, a	companies and	Other regulatory schemes	TEN-T corridor network. The		project is to develop an
selection of projects has been	research centres	have been set up by:	length of the road D403 from the		appropriate system that will
1,	in the sector of	✓ The regional law	Port of Rijeka (ZDSCT) to the		increase the level of protection of
carried out. Specifically, projects	maritime	48 of 2018 on	Škurinje junction on the Rijeka		the sea and coast from pollution

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submitted and funded and projects	technologies	state areas	bypass is approximately 3 km with	from ships, platforms, and land	
approved but not funded were	(shipbuilding,	dedicated to the	a branch for connection to the	sources, which will affect the	
taken into consideration. These	maritime	access to the sea	network of city roads.	preservation of biodiversity and	
projects have been aggregated	transport): the	for people with	European Project "Upgrade of the	lifestyle of the population in the	
• · • • •	total amount of	disabilities.	Rijeka Port infrastructure – Zagreb	program area.	
according to the	funds allocated	✓ The regional law	Deep Sea Container Terminal	One of the planned investments is	
coherence/synergy with the Pillars	was 20 million	44 of 2018 on	(POR2CORE-ZCT)" was applied	the establishment of the	
of the European Union Strategy for	euros.	preservation of	to the second call of the	University of Šibenik, and in this	
the Adriatic Ionian Region -		historical and	Connecting Europe Facility (CEF)	regard, courses related to robotics	
EUSAIR (with the exception of		cultural sites.	Traffic 2015, Cohesion envelope.	and sensors would be of great	
Pillar 1 for which an in-depth		The Region has a specific	Grant Agreement was signed in	interest. One of the key triggers to	
analysis has been made on topic 1		strategy dedicated to fishing	2016 ensuring 85% of co-financing	initiate this is the establishment of	
Blue Technologies).		and aquaculture, as it is	from the European funds. The	DIH MAiROS in Šibenik for	
0 ,		aware	total value of the project is 31,6	innovative underwater robotics	
Moreover, the number of subjects		of the relevance of the sea for	million EUR	and sensors and living lab in the	
that have participated in these		the future of the region and		Adriatic sea - The role of DIH	
projects has been extracted listing		its people, therefore one	Period/time frame 2014-2020	would be the role of innovation	
them by typology. The following		of its main objectives is to		facilitator or the knowledge and	
four types have been used: Policy,		create a sustainable fishing	Financial scheme Rijeka Port	technology intermediary that	
Industry, Science and Society. In		and aquaculture sector.	Authority, City of Rijeka-Budget,	would improve cooperation	
case a subject had participated in		This strategy has been	EU-funds	along supply and value chains,	
, 1 1		implemented with the EMFF		including organizations that fund	
more than one project will appear		funds, consisting of 89,8	Target (stakeholders) Rijeka Port	innovation and end-users of new	
only once.		million	Authority, City of Rijeka, seaport	technologies, ensuring that	
		€ allocated on 5 priorities:	stakeholders	innovation responds to demand.	
Pillar 1 Blue Growth		Sustainable fishing		Developing links with foreign	
Approved and funded		Sustainable aquaculture	Results/outcomes achieved: the	firms, funders, and research	
21 projects: ADRION 6, MED 3,		Development of new	development of the Port of Rijeka	centers is a key step to raise	
ITASLO 2, ITAHR 10.		fishing and aquaculture	as one of the core ports in the	underdeveloped local knowledge	
21 subjects: Policy 8, Industry 9,		zones			

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Science 4.	Fishing products	Mediterranean through ensuring	base and limited access to market	
	transformation and trade	the	intelligence.	
Approved but not funded	Local and participative	efficiency, sustainability and	The Šibenik-Knin County has	
37 projects; ADRION 10, MED 8,	development	multimodality of freight transport	participated and is actively	
ITAHR 19.	In addition, within EMFF		working on the implementation	
39 actors: Policy 12, Industry 17,	funds, in December 2019, the	Most effective initiatives (in terms	of numerous projects aimed at	
Science 10.	Regional Council approved	of results and interests from main	providing institutional support to	
	the project "Puglia	targets)	the development of individual	
In particular for Pillar 1/topic 1.1	aquaculture 4.0".	With the construction of the new	economic sectors while	
Blue Technologies, 8 projects were	In March 2020 the EMFF	pier in full length, a 680 m long	promoting sustainable	
submitted and funded (ADRION	Operational Programme has	and 20 m deep wharf will be	environmental management and	
3, MED 2, ITASLO 1, ITAHR 2),	been modified in order to	obtained, with the possibility of	preservation of our natural and	
while 20 projects were submitted	provide support to fishing	mooring container vessels of more	cultural-historical resources.	
but not funded (ADRION 5, MED	and aquaculture enterprises	than 165,000 DWT and of lengths	In the tourism sector, the county	
4, ITAHR 11).	to face the problems related	over 366 m (last generation ships	implements a few projects of	
	to the COVID19 emergency,	with a capacity of more than 14 000	tourist valorization and	
Pillar 2 Connecting the Region	to promote additional	TEU). Additionally, the pier	preservation of cultural and	
Approved and funded	investments in research and	length of 680 m allows	historical sites and assets, which	
16 projects: ADRION 5, MED 1,	innovation and synergies	simultaneous mooring of a smaller	greatly contributes to the	
ITASLO 1, ITAHR 9.	among companies.	ship up to 50,000 DWT and up to	development of tourism and	
20 actors: Policy 9, Industry 6,	A key success factor of these	250 m in length (vessels with a	attracting visitors. Along with the	
Science 5.	funding schemes in Puglia is	capacity up to 4 000 TEU).	project of tourist valorization of	
	the connection that we		the channel Sv. Ante, the project	
Approved but not funded	established with ITS Schools		of arranging the fortress of	
7 projects; ADRION 3, MED 2,	(higher technical education		St.Nicholas' Fortress, HERA	
ITAHR 2.	and training), in order to		project which valorized	
10 actors: Policy 3, Industry 6,	provide young people with		archaeological sites, HEREDITAS	
Science 1.	the necessary training to start		project, county prefect Goran	
	working in the fishing,		Pauk pointed out the project of	
Pillar 3 Environmental quality			arranging the port of Vrnaža,	

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Approved and funded	aquaculture, marine and		which gave Šibenik quality and	
28 projects: ADRION 4, MED 6,	maritime sectors.		modern communal	
ITASLO 2, ITAHR 16.	The most relevant action in		infrastructure, the project of	
33 actors: Policy 13, Industry 7,	this respect is planning of		building a ferry port in the port of	
Science 8, Society 5.	training courses combined		Kaprije, the project of	
	with passionate personnel		rehabilitation of Dolac in Šibenik	
Approved but not funded	that work in ITS Schools: the		(center of the city) in cooperation	
27 projects; ADRION 7, MED 2,	90% of students of ITS find a		with the City of Šibenik.	
ITAHR 18.	job		By providing institutional	
30 actors: Policy 12, Industry 11,	within months.		support, the county actively	
Science 7.			stimulates the growth and	
			development of its blue sectors.	
Pillar 4 Sustainable tourism			-	
Approved and funded				
29 projects: ADRION 5, MED 6,				
ITAHR 18.				
35 actors: Policy 9, Industry 12,				
Science 11, Society 3.				
Approved but not funded				
59 projects; ADRION 14, MED 8,				
ITAHR 37.				
64 actors: Policy 26, Industry 15,				
Science 10, Society 13				
The database of maritime projects				
registers to date (November 26,				
2020) 365 records with 201 unique				
subjects of the regional territory				
catalogued according to some				

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consolidated criteria including type (Policy, Industry, Science Society) and the area of belon (at NUTS 3 level).	and			
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On a scale fro	rom 1 (not at al	l) to 7 (extremely), the policy makers perceive that	an innovation ecosystem linked to blue	economy and blue growth, a	lready exists in their county/city?	
Region Vo G	Friuli Venezia- Giulia Region	Agenzia Strategica regionale per la Tecnologia e l'Innovazione – Regione Puglia (ARTI Puglia)	City of Rijeka	Dubrovnik-Neretva County	Šibenik-Knin County (Šibensko- kninska županija)	DUNEA - The Regional Development Agency of the Dubrovnik-Neretva County
th str av th Al 20 re ww ap In M ch co of str th m	would say 7, here is a trong wareness on hese matters. Already in 015 a egional law vas pproved. n addition, AARE FVG luster is the oordinator of takeholders hat deal with naritime echnologies pecialisation.	6 – The innovation ecosystem is supported at Regional level as the sea is perceived as a fundamental resource from a natural, economic, social and cultural point of view.	Linked to blue economy and blue growth, we rank the City of Rijeka 5 on the scale of innovation ecosystem. In global promotion, Rijeka is also prominent globally in terms of encouraging the development of entrepreneurship. StartupBlink, the world's leading platform for mapping and analyzing startup ecosystems (environments that support the growth and development of startups), has announced a ranking for 2020 that includes 1,000 cities from 100 countries. Rijeka rose by as many as 73 places on that global scale compared to 2019, which is the biggest improvement among Croatian cities (Zagreb, Split, Zadar, Pula, Karlovac and Osijek), which are included in the top 1,000 on the scale. Data on the number of existing innovation startups, coworking spaces, accelerators, leaders and	In our opinion 4. Given the county's great involvement in international projects dealing with marine environmental management, we are largely aware of the value of the innovative blue economy, but also the efforts that still need to be made to achieve adequate "blue growth" in the county.	County prefect Pauk is very aware of the importance of the innovation ecosystem and in this regard, he pointed out, that the Šibenik-Knin County has recognized the importance of the establishment of the AluTech Development and Innovation Centre within the Public Institution of the Šibenik-Knin County Development Agency. Space consists of a laboratory for testing the quality of aluminum products and other metal products, a design bureau and workshop for designing and modeling final products, 3D product construction, and preparation for CNC production, a center for renewable energy sources, a center for clusters and more. In the former military facility that the city of Šibenik received for use from the state, and which houses the Maritime Innovation Center iNAVIS, arranged	Blue Growth is a long-term strategy to support the sustainable growth of the maritime and maritime sectors. The EU Blue Economy encompasses all sectoral and cross-sectoral economic activities related to the oceans, seas and coasts, including those in the EU's outermost regions and landlocked countries. For DNŽ we can say that it is a "blue county" since more than 80% of the County's area falls under the sea part. All economic activities are directly related to the sea and the coast, and the marine environment is the focus for sustainable development of the County. Thus, in 2020, the Dubrovnik- Neretva County and the Regional Agency DUNEA contracted eight strategic projects worth HRK 34,891,184.60 through the Italy-

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		support organizations are used to	and equipped space for activities	Croatia Cross-Border Cooperation
		form the scale. According to	related to regional development and	Program 2014-2020. Croatian and
		StartupBlink, Rijeka has a positive	encouraging entrepreneurship in the	Italian regions have jointly defined
		trend in the development of startup	development of new technologies	projects of strategic importance for
		ecosystems, which is 3rd in Croatia	and final products.	both countries.
		and 461st in the world. Based on the		The AdriaClim, ARGOS,
		methodology used by StartupBlink in		CASCADE, MARLESS, STREAM,
		forming the scale, the list of		SUSPORT and FIRESPILL projects
		organizations of the Rijeka startup		have been approved, in which the
		ecosystem includes the Rijeka		Dubrovnik-Neretva County has the
		Development Agency Porin and the		role of partner, while in the TAKE
		Startup Incubator Rijeka, along with		IT SLOW project it is the holder of
		the University Science and		the entire project with partners
		Technology Park Step RI. Croatia, as		from Croatia and Italy. The value of
		a country, is ranked 39th out of 100,		these projects for the Dubrovnik-
		after advancing by as many as 11		Neretva County is almost 35
		places since last year.		million kuna, and the application
				and elaboration of project activities
				of all projects was prepared by the
				Regional Agency DUNEA.
				All approved projects are aimed at
				the blue growth of the Dubrovnik-
				Neretva County. Environmental
				problems, fire and flood problems,
				pollution at sea, waste at sea do not
				know the administrative borders of
				countries. Through the
				implementation of these projects,
				we will achieve a long-term vision
				of development whose focus is the
				of development whose focus is the

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		sustainable use and creation of added value of cultural and natural
		resources, both our and the Italian side.

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To strengthen the	We can expect	The benefits that we	Regarding the Innovation ecosystem	We expect contributions	The creation of ecosystems will encourage all	
competitive opportunities of	benefits in terms	expect are many, this	related to the marine and maritime	in terms of reducing	stakeholders to joint initiatives and cooperation to	
the SMEs and manufacturing	of increase of	is one of the reasons	technology, the City of Rijeka expect a	marine pollution by	improve the marine sector. It will certainly encourage	
systems already operating in	employment rates	why we are	lot of benefits. First of all, we expect	wastewater and marine	the creation of new products, which will lead to the	
the Veneto Region but not	in those sectors, if	working to build	available EU funds that will	litter, the adoption of	strengthening of companies in our area, their greater	
necessarily connected to this	we are capable of	such an ecosystem in	strengthen partnerships between the	marine environmental	recognizability. Generating new jobs is also one of the	
technological domain of	producing	Puglia, as the sea is a	public, entrepreneurial and research	management plans.	expected results in creating an ecosystem.	
application.	impacts on our	fundamental	sectors aimed at developing the blue		The Adriatic Sea is facing a major impact from	
	Region, increasing	resource	economy.		overfishing and pollution, as a result of discarded	
	the capacity of our	and blue growth			plastic items and oil pollution. All this can lead to	
	companies to face	sectors are relevant			significant poisoning and death of fish, as well as the	
	national and	for its future.			disappearance of the plant world on which human	
	international	Sustainability of			health also depends. It is important to emphasize that	
	competition.	innovation is a			only through joint action and cooperation we can help	
		key factor, this is why			protect the Adriatic Sea. That is exactly what the	
		we are cooperating			project seeks to do - the cooperation of all stakeholders	
		with the many			in the marine conservation sector and investing in	
		research and			innovation to preserve the Adriatic Sea - and for that	
		innovation			reason, we are proud to be partners in the project.	

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	centres of the Region		
i	in order to promote		
	synergies among		
	them, industry,		
	service		
	companies, social		
	society and public		
	administrations (the		
	quadruple helix		
	actors).		

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	The dimension of the ecosystem is critical: it is extremely important to reach a macro regional dimension, to do so we are working to create networks in the Adriatic Ionian area. The regional policy and politics in this respect must have the capacity to create integration among different stakeholders. to	 Some critical factors emerged as weaknesses in our SWOT analysis: ✓ The over use of the sea as natural resource ✓ The delays in the adoption of municipal plans for the management of coasts ✓ The regulatory system and the standards adopted are not adequate for innovative sectors ✓ The central position of the Mediterranean Sea is not anymore a competitive advantage for Ports Some threats have been identified as 	Regarding the development of innovation ecosystem related to the marine and maritime sectors in the next few years, the critical factor is own financial resources due to the crisis caused by the pandemic.	We see the biggest threat in climate change, which could have irreversibly negatively affect the ecology of the sea. There is also a threat in non- implementation of adopted measures and management plans, ie ignoring of problems by various stakeholders in coastal zone management.	The progress made by local and regional authorities to support the development of the innovation ecosystem depends on many factors. The main obstacles to local self-government in the process of adjustment and transition from the planning phase to the implementation phase of the creation of innovation ecosystem are insufficient resources (financial, human, and technical), unavailability of relevant knowledge, weak political commitment, and an unsupportive regulatory environment. Investing in knowledge and strengthening capacity is one of the key factors needed for the successful establishment and functioning of the innovation ecosystem.	

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tools to maintain	✓	Covid19		
the	✓	Further reductions of		
networks created.		fishing stocks		
Finally, training is	✓	Coastal erosion		
fundamental to	✓	Climate change		
create the profiles		potential effects		
needed by the	\checkmark	International		
industry, the		competition from		
dialogue between		operators that do not		
these two areas		apply the same		
must be		sustainability standards		
maintained by the		(in fishing, tourism,		
regional policy.		nautical sectors)		

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Which Innovation ecosystem stakeholders related to marine and maritime sectors are currently missing or should be encouraged/attracted to the Innovation ecosystem? (firms, research institutions, industry association, accelerator, consultants, scientific parks).

Veneto Region	Friuli Venezia- Giulia Region	Agenzia Strategica regionale per la Tecnologia e l'Innovazione – Regione Puglia (ARTI Puglia)	City of Rijeka	Dubrovnik-Neretva County	Šibenik-Knin County (Šibensko- kninska županija)	DUNEA - The Regional Development Agency of the Dubrovnik-Neretva County
The Veneto Region is now involved in the analysis of the projects submitted and the actors involved in the projects related – among others – to the blue growth based on the mapping tool just developed. Further analyses could allow Veneto Region to identify missing actors or areas of competences that could be further supported through appropriate strategies and programs.	We involved all stakeholders in the process. Probably the most difficult to involve is the civil society /third sector, it is important to understand social needs in order to better communicate themes such innovation, that can affect everyday life but appear very far from it or just for the elite. In S3 Strategy we involved the no- profit sector.	In my opinion the missing stakeholder is finance : banks and financial institutions are not currently involved in the process of creation of the Innovation ecosystem and they should participate to make it effective. In Puglia there are some micro-credit initiatives, but they are not enough to support the development and innovation of the	The development of marine and maritime sectors can empower all stakeholders: entrepreneurs, business infrastructure and the scientific research industry.	Local decision makers should be involved in initiatives, education, engagement in public- private partnerships, cooperation with universities, LAGs and the like.	County prefect Pauk considers that higher education is lacking in a sense of higher education which in turn could generate new knowledge, especially in the robotics and underwater sector. The policy mix, resources, and people are missing as a whole. All of this is sprayed and unconnected. Companies, accelerators, scientific parks - try to connect them all, which is not easy. As a county, we go step by step and slowly create the future as I mentioned, in which the EU funds certainly help us.	

European Regional Development Fund

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	marine and maritime		
	sectors.		

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The Veneto Region is now engaged in the development of the policy program within the new programming period (2021-2027). According to the inputs already collected through the opening consultation carried out in 2020 among the Veneto stakeholders lots of attention has been given to the Research and innovation priorities within the EU policy objective 1 – Smarter Europe.	The connection with the European green deal for the programming period 2021-2027. Research, training, education at all levels.	ARTI is active in some important fields related to this activity: The Initiative Future Research . implemented by ARTI and the University of Bari, finance the generational change in Universities and Research Centres via the creation each year of 170 research grants to hire young researchers. One of the main focus is on innovative technologies to	First of all, the investment policy at the local level is significant, along with the concept of sustainable development.	Development plans, environmental protection programs, waste management plans, spatial plans of the sea at both local and regional level can help the development of an innovative ecosystem.	At this moment, as a county, we use various tools available to us: spatial planning - county spatial plans - tailored to needs, but also the sustainability of the seabed.	

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productivity of		
aquaculture in Puglia.		
Start Cup Puglia,		
which is an initiative		
to financially support		
innovative startups,		
is active since 2007.		
PIN - Pugliesi		
Innovativi		
(Innovative people		
from Puglia) is the		
joint Initiative		
of ARTI and Puglia		
Region implemented		
within the regional		
ERDF OP 2014-		
2020 to finance and		
support young people		
in the creation of		
innovative		
enterprises.		
enterprises.		

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Please mention any institutiona	l collaboration deve	loped at the regional	– national or international lev	rel related to the blue growth strateg	y.	
Veneto Region	Friuli Venezia- Giulia Region	Agenzia Strategica regionale per la Tecnologia e l'Innovazione – Regione Puglia (ARTI Puglia)	City of Rijeka	Dubrovnik-Neretva County	Šibenik-Knin County (Šibensko- kninska županija)	DUNEA - The Regional Development Agency of the Dubrovnik-Neretva County
Since the establishment of the EUSAIR/Italy Group, the Veneto Region has coordinated Pillar 1, now renamed "Blue Growth - Blue Growth". By virtue of this commitment, the Veneto Region participates as a member in the work of TSG 1 "Blue Growth", coordinated by Greece and Montenegro, representing, together with the Molise Region, the instances of the Italian regional system.	Since the establishment of the EUSAIR/Italy Group, the Friuli Venezia Giulia Region has participated to Pillar 1 and it has proposed a project named WakeIp "Waterborne Adriatic Ionian technological platform", supported within the	ARTI participates in many Interreg projects, the most relevant with reference to the blue growth are: Blueboost, Triton, SmartAdria. In addition, ARTI participates to the national Blue growth technological cluster and to the national Policy coordination meetings	Regarding the development of the blue economy, the City of Rijeka is an example of good cooperation with the Port of Rijeka Authority, industry, namely the shipyard 3.Maj and Jadran Galenic Laboratory (pharmaceutical industry) and the University of Rijeka.	Cooperation between the regional, national and international level is realized through the implementation of international projects already mentioned, through participation in the development of strategic documents at the national, regional and local level (spatial plans, environmental plans and programs, development plans, etc), but also through participation in forums, departmental seminars and meetings.	Bringing together different stakeholders in our County has always been one of the priorities. In Šibenik-Knin County you can see great effort to connect companies, scientific institutions, accelerators. A great example is Alutech, the Development and Innovation Centre, an institution for encouraging entrepreneurship, research and development, that was founded by the Šibenik-Knin County. The Central Financing and Contracting Agency has approved funds for its arrangement and equipment under the IPA program. In addition to EU funds, the project is co- financed by the Šibenik-Knin County. One of those initiatives is the establishment of the Entrepreneurial	In 2020, the Dubrovnik-Neretva County and the DUNEA Regional Agency contracted eight strategic projects worth HRK 34,891,184.60 through the Italy-Croatia Cross-Border Cooperation Program 2014-2020. Dubrovnik-Neretva County is the lead partner on the TAKE IT SLOW project in the natural and cultural heritage sector, which will, in addition to developing, managing and promoting the Adriatic as a sustainable and year- round green destination, establish a modern multimedia interpretation center of Mediterranean heritage at the Rector's Palace in Ston (Croatian: Knežev dvor). The value of the project for the Dubrovnik-Neretva County is

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T 111	: t D:11	1 (1)			T (1) (1') 1
Facility		1 of the		zone Podi – Šibenik. It is in Šibenik-Knin	In the sector of climate change
plus	Eusair			County near the city of Šibenik. In all	adaptation, the AdriaClim project has
Strategio		<i>y</i> .		development documents, it has been	been approved, in which the County is
The sco				identified as a zone of county	a partner and has at its disposal HRK
project i	•			importance. According to all spatial	2,121,405.00 for planning the strategy
the stak	nolders			indicators, the zone represents an	of climate change adaptation in the
and to c	ate a			exceptional potential in the	urban coastal and marine area. The
4				development of the region. The fact that	focus of the project is the issue of
governa	ne -			the city of Šibenik is the business and	raising the sea level, so in order to
model	for a			administrative center of the county	sensitize the public, the beach in Slano
macro-re	ional			conditioned the location of the zone near	Bay will be arranged as a sustainable,
cluster	n blue			the city. Although Šibenik is attractive to	modern and energy efficient beach.
growth	sectors,			many entrepreneurs as a location for the	Through the ARGOS project,
to be				implementation of various projects,	approved through the strategic
impleme	ted in			given the space constraints, it has not	priority of fisheries and aquaculture, in
the area				been able to meet many requirements	cooperation with the University of
We	are			and the importance of the Podi zone in	Dubrovnik, will provide support to
associate				this regard is very high. The	shellfish through the procurement of
partner	of			geographical and traffic position of the	specialized equipment for the
OISAIR	roject –			Podi zone in the area of the City of	establishment of the Education Center
financed	within			Šibenik indicates certain locational	in Bistrina as a scientific research
Adrion				advantages of this area for the	center and the first hatchery in this
Program	ne,			development of the economy. The city	area. the purpose of joint and
dedicate	to S3			and county center of Šibenik represents	sustainable management of the
Strategie				the center of development and the	protection of marine resources and
concerni	g blue			intersection of all development	biological diversity in the Adriatic Sea.
growth;	ne final			directions of its wider environment. The	The amount for the implementation of
conferer	e was			Podi zone is in the coastal area of the	the activities of the Dubrovnik-Neretva
held				County, which is the most developed	County is HRK 3,107,535.72.
				and most densely populated area. The	

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onlin	ne today		planned and expected development of	Improving environmental conditions
26/11	1.		the Podi zone is expected in several	and biodiversity of coastal and marine
In ad	addition, we		directions. Primarily, this is related to	ecosystems will be achieved by the
partie	icipated as		the proximity of the Port of Šibenik,	CASCADE project, which will
assoc	ciate partner		which enables the activation and use of	coordinate actions to assess the
to the	e IPA project		the Port's capacity for the needs of	vulnerability of terrestrial, coastal and
"Blue	e skills", as		various facilities and activities.	marine environment with the ultimate
partn	ner to the		It is also important to mention the Public	goal of restoring endangered species in
Blue	ekep (Italy-		Institution for Management of Protected	the estuary of the Neretva. In addition,
Croat	atia), Mistral		Areas and Other Protected Parts of	in order to prevent the risk of sea
(MEI	D		Nature of Šibenik-Knin County -	pollution and action in extreme
Prog	gramme)		PRIRODA, which performs the activity	conditions, equipment for professional
proje	ects.		of protection, maintenance, and	services, divers and firefighters will be
			promotion of protected areas in order to	procured, and the existing county ship
			protect and preserve the originality of	will be renovated and equipped. The
			nature, ensure uninterrupted natural	total available funds of the County
			processes and sustainable use of natural	amount to HRK 1,821,600.00.
			goods, supervises the implementation of	In the flood risk prevention sector, the
			conditions and measures for nature	Dubrovnik-Neretva County was
			protection in the area it manages and	approved HRK 5,869,476.20 for the
			participates in data collection for the	STREAM project, which will establish
			purpose of monitoring the state of	a Monitoring Center in Opuzen to
			nature conservation (monitoring).	strengthen preparedness, prevent
				hazards and reduce damage after a
				disaster. Also, rescue services will be
				modernized with new equipment for
				action and mitigation of this natural
				disaster, for which the Neretva Valley
				area has been identified as one of the

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			most sensitive areas of the Republic of
			Croatia.
			To improve the quality, safety and
			environmental sustainability of
			maritime and coastal transport
			services to the port authorities in
			Dubrovnik and Ploče, the Dubrovnik-
			Neretva County has at its disposal
			HRK 1,973,400.00 approved through
			the SUSPORT project. The project
			contributes to coordination and
			cooperation between stakeholders in
			maritime transport and creates the
			preconditions for improving the
			concept of sustainability in ports,
			development of alternative fuels and
			energy efficiency.
			The Regional Agency DUNEA is a
			partner in the MARLESS project from
			the environmental protection sector
			with the strategic goal of reducing the
			problem of waste at sea. Among the
			many activities of integrated cross-
			border management of coastal and
			marine waste, it is planned to develop
			a robot in cooperation with the
			University of Dubrovnik with the aim
			of collecting floating waste from the
			sea surface in the Dubrovnik waters.
			The total available funds for the

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			Regional Agency DUNEA amount to
			HRK 1,541,172.27, while the budget of
			the University of Dubrovnik is HRK
			3,029,017.20.
			The planned duration of the project is
			three years, and the amount of HRK
			34,891,184.60 that will be invested in
			the Dubrovnik-Neretva County is co-
			financed by 85% from the European
			Regional Development Fund.
			In addition to these strategic projects,
			DNŽ, coordinated by the Regional
			Agency DUNEA, is implementing the
			project MoST - Monitoring the
			penetration of salt water into coastal
			aquifers and testing pilot projects to
			prevent salt penetration, also funded
			through the INTERREG Italy - Croatia
			program (budget: 19,489,564.50 HRK,
			85% of the European Regional
			Development Fund; DUNEA budget
			900,000.00 HRK) and the BLUEfasma
			project - Strengthening the innovation
			capacity of SMEs, maritime clusters
			and networks in the Mediterranean
			islands and coastal areas to support the
			growth of the blue circular economy in
			fisheries and aquaculture, financed
			through the INTERREG MED program
			(budget: HRK 20,946,308.00, 85% of the

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		European Regional Development
		Fund; DUNEA budget: HRK
		1,561,333.70).
		The expected results of the MoST
		project include two monitoring
		systems, one in Croatia and one in
		Italy. The systems will measure the
		characteristics of groundwater
		circulation that are specifically
		designed to monitor the penetration of
		salt water into fresh water. Also, two
		plans of adapted measures will be
		developed and will be implemented in
		the area of the lower reaches of the
		rivers Neretva and Po.
		The BLUEfasma project is designed to
		integrate and implement the principles
		of the circular economy in the key
		sectors of blue growth, fisheries and
		aquaculture in order to benefit in a new
		way the isolated island and coastal
		areas of the Mediterranean. This will
		be achieved through strengthening the
		innovation capacity of small and
		medium enterprises and maritime
		clusters. The circular economy
		prevents the depletion of resources by
		closing the circle to energy and
		materials, leading to smart and

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			sustainable growth as a key common
			goal of the Mediterranean.
			It is certainly very important to point
			out the SeaClear project (project
			budget: HRK 37,099,342.50; DUNEA
			budget: HRK 1,540,410.00), where the
			Regional Agency DUNEA is the
			partner coordinator for the pilot area of
			Dubrovnik-Neretva County, all under
			expertise. led by the University of
			Dubrovnik. The SeaClear project plans
			to develop the first system of
			unmanned underwater and surface
			vessels to find and collect waste from
			the seabed and water column.
			The project is 100% financed by the
			European Union from the HORIZON
			2020 program, through which more
			than six million kuna has been
			provided for the Dubrovnik-Neretva
			County. The only Croatian partners are
			the DUNEA Regional Agency and the
			University of Dubrovnik. It was
			applied for at the invitation of
			Information and Communication
			Technologies 2018-2020, the Science
			and Innovation Funding Scheme
			(RIA), and out of a total of fifty-six
			applications, it is one of four projects
			approved for funding.

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WP3 A2 Designing and implementing questionnaire for policy stakeholders

D.3.2.2.Final report – Annex

(DEEPENING)

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Institution	University of Zagreb, Faculty of Geodesy	Statim d.o.o.
Location (City, Province, Region	Zagreb	Splitsko-Dalmatinska County
Country	Croatia	Croatia
Name of the policy / decision maker	Assoc. Prof. Almin Đapo, Ph.D.	Marija Šverko
Role of the interviewee in the institution	Dean	Company director

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Please describe the policy / strategic priorities perceived by your institution linked to topics of technological innovations and sustainability, related to marine and maritime sectors, and how it is included in the programs developed by your institution?

University of Zagreb, Faculty of Geodesy	Statim d.o.o.
As part of its program, the Faculty of Geodesy of the University of	Unfortunately, in the last twenty years we have witnessed a greater negative impact on the
Zagreb teaches the courses Hydrographic Surveying and Maritime	marine ecosystem such as overfishing, degradation of coastal and marine habitats,
Geodesy, which are closely related to topics of technological	anthropogenic noise input, climate change, waste disposal in the sea (especially plastics),
innovations and sustainability related to marine and maritime	mass tourism etc. In order to protect the marine ecosystem, it is necessary to monitor the
sectors.	state of its conservation, threats, and to define and implement certain conservation
	measures.
	Our company is trying to combine technological knowledge with passion for marine
	protection with unique electric products, such as surf boards with 100% electric power and
	as low impact on marine ecosystem as possible. In near future our plan is to start building
	e-boats for commercial and other uses.





Please describe any programs/initiatives implemented or planned by your institution related to marine and maritime sectors and indicate on which topics of "Annexes 1 and 2 (link)" it impacts

- a. Aim/scope
- b. Period/time frame
- c. Financial scheme
- d. Target (stakeholders)
- e. Results/outcomes achieved
- f. Most effective initiatives (in terms of results and interests from main targets)

University of Zagreb, Faculty of Geodesy	Statim d.o.o.
The Faculty of Geodesy is implementing the HIDROLAB Project.	Our aim is to provide pollution-free sea transportation, by using innovative tools and
This is the Operational Program "Competitiveness and Cohesion	knowledges collected over time. Our goal is to build electric boats but also self-navigated
2014-2020", where the open procedure for the award of grants of	boards for border protection, sea pollution control etc.
temporary modality: KK.01.1.1.04 "Investment in science and	Period/time frame: 20202021.
innovation - the first call", Faculty of Geodesy, University of	
Zagreb together with a partner, the Institute of Oceanography and	Own investment, EU-funds
Fisheries from Split, won a project called "HIDROLAB - Integrated	
hydrographic system for sustainable development of the marine	
	Statim d.o.o. and other companies and government units included



ecosystem" - the total eligible costs of the project are 7,467,678.57	
HRK.	
HIDROLAB is aimed at increasing the ability of applicants and	100% electric boats for transportation and other usage
partners to conduct top research in the field of technical sciences	
and meet the needs of the economy in the priority areas of the	
Smart Specialization Strategy.	
Researchers will be provided with conditions for achieving market	
oriented IRI activities in the business sector (energy, fisheries,	
tourism and transport) and raising the level of high quality IRI	
activities in the field of hydrography or marine geodesy, while	
students will be able to acquire knowledge and skills needed in the	
labor market.	
The Faculty of Geodesy is also implementing the project Climate	
challenges on coastal and transitional changing areas: weaving a	
Cross-Project Adriatic Response - CHANGE WE CARE. CHANGE	
WE CARE encourages coordinated and coordinated actions to	
adapt to climate change at cross-border level. The project explores	
the climate risks faced by coastal and transitional areas that	
contribute to a better understanding of the impacts of climate	
variability on change in water regimes, salt penetration, tourism,	
biodiversity and agro-ecosystems affecting the area of cooperation.	

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The main objective is to provide an integrated approach, based on the ecosystem and the possibility of joint planning for various climate change-related issues, together with adaptation measures for sensitive areas with shares, which could best benefit them. Adaptation measures are under way to cooperate with local authorities and will be discussed with other stakeholders. The project also aims to define a paradigm for transferring successful methods of analysis, development and implementation of adaptation measures from pilot sites to other systems facing similar cross-border problems, level, harmonizing data procedures and standards, and bridging knowledge gaps for end-users. To this end, a set of five coastal systems will be considered to cover the wide variability of possible geomorphological and ecological settings and the threats that determine coastal vulnerability in the area of cooperation. Each pilot site will be firmly framed within the physical characterization of the modified CC, the Adriatic Sea basin, considering the interconnections determined by large-scale procedures, such as sea level rise, current circulation and cyclogenesis.

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On a scale from 1 (not at all) to 7 (extremely), the policy makers perceive that an innovation ecosystem linked to blue economy and blue growth, already exists in their county/city?

University of Zagreb, Faculty of Geodesy	Statim d.o.o.
In our opinion 4 to 5.	 When talking about blue growth and blue economy we rank our county 5 on the scale of innovation system. Even though there are a lot of effort from both private and government institutions, our opinion is that we are still not using full potential of knowledge and resources at disposal. According to StartupBlink, Split has a positive trend in the development of startup ecosystem, which is 2nd in Croatia. Many projects are planned and in process. Split also have amazing network of student business incubators, providing free space, paid fixed expenses and support with new products and research development.





What benefits do you expect at the local / regional level by building an Innovation ecosystem related to the marine and maritime technology?

University of Zagreb, Faculty of Geodesy	Statim d.o.o.
We expect that available EU funds will strengthen partnerships	Main benefit would be cleaner marine environment. We are hoping to build base knowledge
between public, academic/research and entrepreneurial sectors	that will encourage other interested companies to create even more eco-acceptable products
aimed at developing the blue economy.	using previous experiences. For example, company Include from Split is producing smart
	benches, and now they went step further and are focusing on smart trash cans and containers.
	Our company, Statim d.o.o. focuses on electric eco-surf boards, we are planning to achieve
	our ambition by building self-navigated electric boats for all kind of usage.
	EU fund are critical for strengthening partnerships between the public, research and
	entrepreneurial sectors who are set to achieve growth of blue economy.



What are the critical factors that you think may diminish the success of innovation ecosystem related to marine and maritime sectors in the next few years?		
University of Zagreb, Faculty of Geodesy	Statim d.o.o.	
We think that the biggest threats are climate changes which could	Critical factors in our opinion, is cooperation with government organizations and better use	
have an irreversibly negative effect on the ecology of the sea and	of European funds. Projects like this are of crucial importance for the success of innovation	
consequently to the ecology of the whole planet, and the lack of	ecosystem related to marine and maritime sectors. Current pandemic as well will have huge	
awareness of the public/political stakeholders which cause	impact in continued development of blue technology.	
damage by itself! A great threat in non-implementation of		
adopted measures and management plans by various		
stakeholders in coastal zone management.		

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Which Innovation ecosystem stakeholders related to marine and maritime sectors are currently missing or should be encouraged/attracted to the Innovation ecosystem? (firms, research institutions, industry association, accelerator, consultants, scientific parks).

University of Zagreb, Faculty of Geodesy	Statim d.o.o.
Local decision-makers should be involved in initiatives, education,	Even though Split and Splitsko-Dalmatinska county have a lot of firms and research
engagement in public-private partnerships, cooperation with	institutions like Div -group, Faculty of Electrical Engineering, Mechanical Engineering and
universities.	Naval Architecture in Split (FESB) university, Faculty of Maritime studys etc.
	We are still missing partnership and organization of all parties included to push towards
	same goal. Our target should be set by Norwegian examples of Maritime research pushing
	towards blue economy perfection.

European Regional Development Fund

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What are policies on local/regional level that could help in development of Innovation ecosystem related to marine and maritime sectors?

University of Zagreb, Faculty of Geodesy	Statim d.o.o.
Development plans, environmental protection programs, waste	Introduction of eco recognized products would improve development and reduced taxes
management plans, spatial plans of the sea at both local and	and surtaxes for companies that produce such products. Also, reduction in VAT for such
regional level can help the development of an innovative	product would have great impact on further research and development.
ecosystem.	Example of such products can be our own eco-surf board https://sailfin.plurato.com/ or
	smart bench, eco-sauna etc. all listed are produced here in Split.

European Regional Development Fund

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Please mention any institutional collaboration developed at the regional – national or international level related to the blue growth strategy.

University of Zagreb, Faculty of Geodesy	Statim d.o.o.
Cooperation between the regional, national and international level is realized through the implementation of international projects already mentioned, through participation in the development of strategic documents at the national, regional and local level (spatial plans, environmental plans and programs, development plans, etc), but also participation in forums, departmental seminars and meetings.	Collaboration between companies (both private and government) who are set to reach common goals, shearing resurse and using know-how partnerships is the only way to accomplish positive blue economy. Div-group, FESB and Naval university in Split have such project, they are trying to develop VR navigation system in order to control ship in more effective way and stop possible pollutions from happening. Our own company is also partnering up with the company Plovput in development of an autonomous vessel for data reading from buoys. There are many more examples of project and interested parties, but we need to strive for better organization from both private and government sectors.

