

CREATE

Adriatic Adaptation Award

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1. Introduction

This documents describes the procedure followed for the assignment of the Adriatic Adaptation Award, which was endowed by the CREATE project to showcase existing local adaptation initiatives provide an opportunity for mutual learning and for showcasing successful experiences to local authorities and the wider public.

2. Endowment Procedure

2.1. Preparation

The first announcement of the Adriatic Adaptation award was made during the project kick-off meeting, and after preparation work, including the definition of eligibility and award criteria the official call for the submission was made on the 1st of February and remained open until the 10th of March, and disseminated on all CREATE channels. Applications were collected with a specific and detailed on-line form (see annex 1) which had been translated in Italian and Croatian so to reduce eventual language barriers. The detailed application form aimed at ensuring that relevance of proposed action with respect to climate impacts was made evident and that financial aspects, expected positive and negative side effect could be mentioned.

2.2. Submissions

By the 10th of March, 13 proposals had been submitted of these 8 from Croatia and 5 from Italian institutions. Among these, three were excluded from the assessment after having recontacted the proponents as they did not fully correspond to the eligibility criteria, either because still in the phase of planning, as in the case of de-paving of a schoolyard in Civitanova, Italy, or because not directly addressing impacts from climate change as in the case of an educational project of the PAK association and the initiatives for sustainable transformation of the coastal zone of Podstrana, both in Croatia (see Annex 2 for a synthetic description of the proposals).

2.3. Evaluation

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The ten remaining proposals have been submitted to the group of 5 Jury members which agreed to support the assessment process. evaluation of the complete proposals and eventual additional information provided by the proponents. The scoring was based on a scheme developed by the CREATE team with the aim of guaranteeing a fair acknowledgement of very different thematic proposals and evaluated the quality of the proposals with regards to all phases of a project implementation cycle, paying particular attention to aspects of participation and monitoring. Assessments were made in 4 groups of Criteria, assessing the scope and rationale of the adaptation action, the governance mechanisms set in place for implementation and management, efficiency and effectiveness of solutions chosen, side effects and co-benefits created and replicability and upscaling potential of the solution (see annex 4 for the assessment scheme). Jury members met in a virtual team to discuss their individual assessments and agreed on the selection of the four best proposals and, among these, the winning proposal:

- Realization of dry walls as part of the management of an agricultural enterprise in Lovran (HR)
- Realization of the Parco del Mare in Rimini (IT)
- Strategy of the Integrated Management for Protection and Adaptation of the Coast to climate change; Emilia Romagna Region (IT)
- Rain gardens and other NBS systems to reduce pluvial floods(Pula-Pola (HR) (winning proposal)

2.4. Adriatic Adaptation Award ceremony

The Adriatic Adaptation Award ceremony took place during the final conference and the proponents of the 4 winning proposals were invited to present their projects during the conference. The Jury was represented, during the conference, by Francesca Giordano from the Italian Environment Agency (ISPRA) selected four particularly interesting examples from the 13 projects submitted. Representatives of the winning projects presented their activity during the conference. (see videos with short statements by the four winners on YouTube https://ytube.io/3i9j)

It was mentioned that the selection of best practices among the project submitted was a hard task due to the very different and very interesting implementations, and that also some of the proposals not retained eligible because either still in the planning phase or not directly focused on adaptation to climate impact, yet very important for a more sustainable development of the Adriatic region.

Mr. Zaccaria, from the municipality of Lovran in Croatia has worked in collaboration with an NGO and a private farmer promoting the reintroduction of **dry walls** as a means for protection against land slides and wildfires and for the protection of the traditional landscape. As Ms Giordano explained, the Jury appreciated in particular the engagement for recovering traditional agricultural techniques which have the capacity, among others, of preventing land-slides and reducing fire risk



and support biodiversity. This example has been considered having a high potential to be a role model for the maintenance of the landscape and agriculture in many parts of the Adriatic area.

Mr. Montanari from the Emilia Romagna region presented the new **regional strategy for the Integrated Management for Protection and Adaptation of the Coast to climate change** (GIDAC) and in particular the participated procedure of this policy document for the Emilia-Romagna coastal area, which aims to reduce the vulnerability of the coastal territory and the exposure to risk of natural and anthropic elements, in relation to the danger and related impacts on the territory of current and expected meteo-marine phenomena due to climate change (erosion, SLR, storm surges, river/costal floodings, salinization of the groundwater). As Ms Giordano referred, the Jury appreciated in this proposal in particular the ambitious integrated and holistic approach to climate change adaptation based on ecosystem-based adaptation, the coherence with ICZM methodology for the Mediterranean region and the participative approach implemented involving in particular young people and establishing an inter-generational dialogue.

Ms Silvia Capelli from the City of Rimini presented the realization of the **Parco del Mare** which is transforming the City's 16 km of coastline in depth. The transformation of the area between beaches and urbanized areas aims providing protection for the city against marine intrusion and is combined with renovation of the sewage system which prevents sewage overflows and out spills of sewage into the sea. The heavy transformation has been combined with an attractive design which creates new attractive spaces for outdoor actives, walking, cycling, sports and playgrounds. The Jury appreciated the courageous transformation of the sea while creating a highly attractive urban space.

Finally Ms Anja Ademi from the Municipality of Pula described the city's **new concept of storm water drainage using Nature Based Solutions** which is focused, since several years, on retaining rainwater and purified as much as possible of this water at the place where it originates in the city. The aim was to drastically reduce the amount of rainwater entering the sewage system by retaining it on green areas (free water level on green areas and/or underground retention) and, after purification, further infiltrating the terrain. This was achieved in a cooperation across different departments of the municipality. The Jury registered positively not only the number of sites already transformed with nature-based solutions to adapt the city for more intense precipitation and increased run off, but also the extent of cross-sector collaboration within your administration which made this transformation possible.

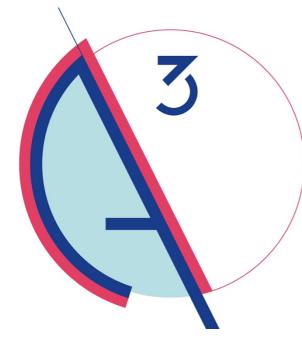
This concept and its consequent application was awarded as the best project among those submitted and awarded with the first price of the Adriatic Adaptation Award.

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Annex 1 Application form

Transcription of the application form proposed in three languages (EN, IT and HR)



ADRIATIC ADAPTATION AWARD

A3 Adriatic Adaptation Award

Form for submission of proposals Nominate your Adaptation Initiative for the A3 Adriatic Adaptation Award

Your application will be reviewed by a panel of experts

E-mail us to name.surname@org.nn if you're experiencing any technical difficulties.

Applicant information

Organization

Contact person* *

E-mail* *

Phone number* *

Address

General Information about the adaptation initiative



Name

Category of action (option 1: type of solution) * Please choose the type of solution which is most appropriate.

- Nature based solution
- Governance solution
- Technical solutions
- Mixed solution
- All of the above

Location *

Implementation Period *

Owner *

Contractor *

Investor or source of finance *

Website

Climate impacts addressed:

What climate risks does the initiative address (please choose all pertinent impacts)

- drought,
- heat waves
- *surface floods/torrential rains*
- river/coastal floods
- storm surges,
- strong winds
- salinization of ground water.

Description of the initiative

Introduction *

An interesting summary of the project description of 5-10 sentences. (Briefly explain the what it is about, making it an interesting, engaging and exciting read.)

Climate risks and impacts addressed: * *



Which climate risks does the initiative address, what is the specific objective of the adaptation initiative and why was it implemented? The text can also include an answer to the question why the owner chose this particular aim and mention also triggering or enabling events, or moments when it became clear that action is necessary and feasible.

.....

Initial State *

Describe the state of the area before the works started, which impacts have already occurred or you anticipate would occur in the future, which problems do these impacts create for residents or for other users of the area?

How does it work?*

Include a detailed description of the initiative and its current state. Describe the area of the project, the single solutions used, describe their extent/size, how they work and the background of their origin. Do not avoid numbers (for example, include how many cubic meters of sand were taken during beach replenishment, how many square meters of roof were planted with greenery, how many trees have been planted, etc.). Using technical terminology is fine, but please explain it. Laymen should be able to imagine what was created in the project and how.

Side Effects

Does initiative have other positive effects beyond those related to climate impacts (environmental, economic, improvements, increase of quality of life) and who benefited most?

Operation and Maintenance

What does the future maintenance look like and, if applicable, what are the additional operating costs? Please also provide a gross budget for operating costs, if possible. Who is responsible for operation and maintenance?

Alternative Options

Did you consider alternative options? If so, why did you choose the initiative implemented?

Challenges and Obstacles

What were the biggest challenges and obstacles? What was the biggest problem during the implementation of the measure you had to solve?

Experience and unexpected outcomes

Share your implementation experience with us. In particular, what was not taken into account before you started implementing the initiative?

Monitoring

Do you monitor the implementation and functioning of the initiative? How do you measure?



Finance

Describe the financing of the project - total cost, resources, expected return on the investment, expected lifespan, savings compared to the situation without the implemented adaptation solutions. Mention the source of finance.

Add 3 photos here If possible, please provide us with links to photos here.

Add links to video (if available)



Annex 2 List of submitted proposals

Name of	Organiz		Area	of interv	ention		Imple	Cllimat	Eligible
project	ation	solutio n	coastal	Urban	agricultu re / environ.	of the initiati ve	menta tion Period	e risks address ed	
Education of children and young people along the coast of Croatia about the need to preserve the Adriatic Sea and adapt to climate change	Society for Ecologic al Researc h Paks (HR)	Nature based Solution s			x	on- going	since 2001	Sea level rise, climate change in the sea, arrival of invasive species	No (no adaptati on measur es)
Ecologically sustainable development of the coastal area of the Municipality of Podstrana	Municip ality of Podstra na (HR)	Hybrid solution	x			on going	Since 2017	reducti on of CO2 emissio ns	No (no adaptati on measur es)
Construction of the Donje Polje - Jadrtovac Public Irrigation System	Šibenik- Knin County (HR)	Technic al solution			x	on going	2021 2024	drought	yes
Etnološki park "Anton Plašimuha"	Brsečki Česan Associat ion (HR)	Nature based Solution			x	on going	2018	preventi on of soil erosion and landslid es, fire preventi on	yes
Management plan for the marine environment and coastal area of the Split-Dalmatia County	Split- Dalmati a County (HR)	Governa nce Solution	x			conclu ded	29.04. 2019 29.06. 2020. godine	sea floods, flash floods from rainwate r, occurre	yes



Name of	Organiz	Type of	Area	of interv	ention	State	Imple	Cllimat	Eligible
project	ation	solutio n	coastal	Urban	agricultu re / environ.	of the initiati ve	menta tion Period	e risks address ed	
(Coastal Plan SDŽ)								nce of heat islands, increase d risk of fire, beach erosion	
Encouraging the development of heating and cooling technologies based on heat pumps using seawater in the Adriatic- lonian region	Develop ment Agency Dubrovn ik – DURA (HR)	Technic al solution		×		conclu ded	Projekt SEAD RION 2018 .2021.	Transitio n to renewab le energy sources, reducing the climate footprint	yes
PMO Gate	Città Kaštela (HR)	Technic al solution		х		conclu ded	01/201 9 - 06/202 2	Storm surges	yes
Rain gardens and other NBS systems to reduce pluvial floods	Città Pula- Pola (HR)	Nature based Solution s		x		on- going	Imple mente d since 2011, date of the GUP	Surface flooding	yes
Civitanova depaving project	Leonard o Da Vinci Institute of Higher Educati on	Nature based Solution		x		Planni ng is on- going	2024/2 025	Heat waves and surface flooding	No (not impleme nted)
Refurbishment of the Premi Nobel Square	Municip ality of Cervia	Hybrid solution		x		on- going	2022- 2023	Heat waves and surface flooding	yes
Progetto LIFE VIMINE, integrated	Municip ality of Venezia	Hybrid solution			x	conclu ded	2013- 2017	Impacts from tidal	yes



Name of	Organiz	Type of solutio n	Area of intervention			State	Imple	Cllimat e risks	Eligible
project	ation		coastal	Urban	agricultu re / environ.	of the initiati ve	menta tion Period	address ed	
apporach to the sustainable conservation of mudflats in the Lagoon of Venice								events, sea level rise, erosion of mud flats	
Realization of the sea promenade Parco del mare: urban regeneration, mitigation of impacts from marine ingression and refurbishment of the coastal zone	Comune di Rimini	Nature based Solution	x	x		First lot conclu ded	2019 - 2022	Marine ingressi on and heat waves	yes
Strategy of the Integrated Management for Protection and Adaptation of the Coast to climate change (GIDAC)	Regione Emilia- Romagn a	Mixed solution	x			on- going	June 2020	storm surges	yes



Annex 3 List of Jury members

Name	Funtion	Country
Brian Shipman	Consultant to PAP RAC for Coastal management	UK
Francesca Giordano	Italian Environment Agency (ISPRA)	IT
Giovanni Fini	Director of the Environment Department Municipality of Cesena (IT)	IT
Martina Baučić	Faculty of Geodesy, Architecture and Civil Engineering Split (HR)	HR
Doc. dr. sc. Maja Krželj	Head of Department of Marine Studies - University of Split University of Split	HR



Annex 5 Assessment Framework

Macro-criteria	Specific criteria	Notes	Rating*
	Quality and relevance of design and implementation methods	Design and implementation methods are well planned: no (0), excellent (5)	0-5
Scope and rationale of the adaptation action	Quality and relevance of the monitoring and evaluation	Monitoring and evaluation not foreseen (0) thoroughly planned (5)	0-5
action	Early preparatory action	Early preparatory action to avoid future damage costs (5) VS reacting on foregone impacts (0 or 3)	0-5
	Level of stakeholders involvement	Stakeholder participated in decision making and design of measures (3-5)	0-5
Governance	Efficient governance solution	Solutions for ensuring governance of planning and implementation involve different actors in a structured and convincing way (5)	0-5
Efficiency and effectiveness	Flexibility for adjustments or reversibility in case of diverging developments	The project is designed in a way which allows for future adjustments (efficency is monitored, plans for reviewing efficency and side effects are foreseen and credible)	0-5



Macro-criteria	Specific criteria	Notes	Rating*
	Efficiency/consistency in delivering adaptation	The measure is designed and implemented so as to effectively adapt to climate risks (5), or has positive externalities that contribute to climate change adaptation (3)	0-5
	Viability limit (long-term vs short term)	Under future climate, does the project have a viability threshold (e.g. range of sea level rise, decline in preciptiation, etc. ?)	0-5
Side effects and co-	Addressing multiple climate risks	Does the proposal address more than one risk (climate impact)	0-5
benefits generated	Generating positive side- effects (socio-economic, environment, climatic,)	Does the project produce positive side effects (no, some, many)	0-5
	Replicability potential in different locations	Can the project be replicated across the adriatic area (no, with some difficulties, easily)	0-5
Replicability and upscaling	Upscaling potential for a wider adoption	Can the project become a solution which is applied as a standard solution across the adriatic area (no, with some difficulties, easily)	0-5

* Ratings:

5 points the project provides positive responses to the question

4 points the project provides positive responses, yet some problems are seen



- 3 points the project provides positive responses, but there are also relevant gaps/negative points seen
- 2 points the positive responses are limited, and concerns about potential gaps/negative effects (e.g.long-term prospectives) are seen
- 1 point the project does provides some responses, but relevant concerns are prevailing



Annex 6 Photos Award Ceremony



Roberto Montanari, Emilia Romagna Region ©Giorgi 2023



Silvia Capelli, Municipality of Rimini ©Giorgi 2023





Mario Zaccaria, Lovran (HR) © Giorgi 2023



Anja Ademi, Municipality of Pula – Pola © Giorgi 2023 1