

Interreg



Co-funded by
the European Union

Italy – Croatia

ITHR0200430

Digital Plan

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A - Project identification

A.1 Project identification

Project id (automatically created)	ITHR0200430
Name of the lead partner organisation	Molise Verso il 2000 S.R.L. - Società Consortile a R.L.
Name of the lead partner organisation in English	Molise toward 2000
Project title	Civil Protection Plan Digitalization through Internet of Things Decision Support System based Platform
Project acronym	Digital Plan
Programme priority	Green and resilient shared environment
Specific objective	2.1: Promoting climate change adaptation and disaster risk prevention, resilience, taking into account eco-system based approaches
Project duration in months	30

A.2 Project summary

Please give a short overview of the project and describe:

- the common challenge of the programme area you are jointly tackling in your project;
- the overall objective of the project and the expected change your project will make to the current situation;
- the main outputs you will produce and those who will benefit from them;
- the approach you plan to take and why a cross-border/transnational/inter-regional approach is needed;
- what is new/original about the project.

The main goal of the project is the digitization of civil protection plans, already operatives in the territorial areas of competence of the PPs, developing a common cross-border methodology to be applied and replicated in the program area. The idea of the project born from the need to have a common Cross Border Model of Digitalised Civil Protection Plan that can face the common challenge of the programme area regarding a better coordination of civil protection strategies, giving to local authorities a smart and friendly digital tool based on Internet of Things technologies. The project main output is the construction of a common and replicable strategy for the digitization of civil protection plans at partners territorial level through an online platform, based on a Internet of Things (IoT) Decision Supporting System (DSS) and on data connectors from different sources, structured with micro services and adapted to the needs of the partner's territory. IoT sensors will be installed in the project partners areas and connected to the platform. All the development phases of the platform will be based on meetings and sharing of contents between the PPs in order to be built on previous project results.

Emphasis will also be given to the phase of staff training and sharing of DSS development methodologies to be as inclusive as possible with respect to the actors and stakeholders of the Digitized Civil Protection Plan.

In particular, specific deliverables will be provided, both for the implementation of the actions envisaged, both for the dissemination of basic knowledge acquired in the various territories through previous projects and subject to analysis, aimed at increasing the resilience of the physical and man-made environment.

The project approach will be base on the following main activities

1. Digitalization of civil protection plans
2. IoT EDSS Platform development
3. Capacity Building activities and Pilot Deployment with IOT sensors installation
4. Development of Cross Border Strategy and Action plan for Civil Protection Plans digitalization

A.4 Project outputs and result overview

Programme Output Indicator	Aggregated value per Programme output indicator	Measurement Unit	Output	Output Title	Output target value	Programme result indicator	Baseline	Result indicator target value	Measurement unit
Jointly developed solutions	1,00	solutions	Output 1.1	IoT DSS Platform	1,00				
Public events across borders jointly organised	1,00	events	Output 3.2	Final Conference	1,00				
Participations in joint training schemes	30,00	participations	Output 2.2	Platform capacity building	30,00				
Pilot actions developed jointly and implemented in projects	6,00	pilot actions	Output 2.1	Pilot deployment	6,00				
Strategies and action plans jointly developed	1,00	strategy/action plan	Output 3.1	Action Plan for Civil Protection Plans Digitization	1,00				

Programme Output Indicator	Aggregated value per Programme output indicator	Measurement Unit	Output	Output Title	Output target value	Programme result indicator	Baseline	Result indicator target value	Measurement unit
						Joint strategies and action plans taken up by organisations	0,00	2,00	joint strategy /action plan

B - Project partners

Partners overview

Number	Status	Name of the organisation in english	Country	Organisation abbreviation	Partner role	Associated organisations	Partner total eligible budget
1	Active	Molise toward 2000	Italia (IT)	GAL Molise	LP		651.000,00
2	Active	Zadar County Rural Development Agency - AGRRA	Hrvatska (HR)	AGRRA	PP		300.000,00
3	Active	MAIELLA NATIONAL PARK	Italia (IT)	PNM	PP		214.200,00
4	Active	Ca' Foscari University of Venice	Italia (IT)	UNIVE	PP		370.623,95
5	Active	City of Dubrovnik	Hrvatska (HR)	CoD	PP		249.900,00
6	Active	Public Institution RERA SD for coordination and development of Split Dalmatia County	Hrvatska (HR)	RERA	PP		300.000,00
7	Active	University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture	Hrvatska (HR)	FESB	PP		280.001,40
8	Active	Municipality of Fermo	Italia (IT)	MoF	PP		300.000,00

B.1 Lead partner	
Partner number	1
Partner role	LP
Name of the organisation in original language	Molise Verso il 2000 S.R.L. - Società Consortile a R.L.
Name of the organisation in english	Molise toward 2000
Organisation abbreviation	GAL Molise
Department / unit / division	Via Monsignor Bologna 15, 86100 Campobasso
Partner main address	
Country	Italia (IT)
NUTS 2	Molise (ITF2)
NUTS 3	Campobasso (ITF22)
Street, House number, Postal code, City	Via San Giovanni in Golfo 205/E 86100 Campobasso
Homepage	https://www.galmolise.it
Address of department / unit / division (if applicable)	
Country	Italia (IT)
NUTS 2	Molise (ITF2)
NUTS 3	Campobasso (ITF22)
Street, House number, Postal code, City	Via Monsignor Bologna 15 86100 Campobasso
Legal and financial information	
Type of partner	Sectoral agency
Subtype of partner	
Legal status	Body Governed by Public Law
Sector of activity at NACE group level	M.70.21
VAT number (if applicable)	00875480709
Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project?	No

Legal and financial information	
Tax number	00875480709
PEC address	moliseversoil2000@legalmail.it
PIC (from EC Participant Register)	940697465
Contact	
Legal representative	Mr Angelo Miniello
Contact person	Mr Adolfo Fabrizio Colagiovanni
Email	adocolagio@yahoo.it
Telephone no.	+393661963577
Motivation	
Which of the organisation's thematic competences and experiences are relevant for the project?	
Molise verso il 2000, is a regional development agency that works to support and promote sustainable rural development, economic, social, business and employment in the Molise region in line with the objectives of the EU and of the national, regional and local government development plans. Molise verso il 2000 main thematic competences are: • sustainable rural development • vocational training • business creation and social inclusion • rural tourism, environmental education, RES and RUE, innovation and technology transfer • support for small businesses, rural food producers, crafts and promotional services • consulting and research on economic, socio-economic and environmental surveys • drafting and implementation of feasibility studies.	
What is the role (contribution and main activities) of your organisation in the project?	
Molise verso il 2000, as LP will be responsible for the overall management, coordination and oversight of the timing sequence of the project activities.	
If applicable, describe the organisation's experience in participating in and/or managing EU co-financed projects or other international projects.	
The staff of LAG Molise verso il 2000 has got an extensive experience in managing European project. In over 10 years has gained skills all the aspects of project management. That has enabled the institution to develop strong skills in writing, development, coordination, evaluation and monitoring, dissemination, exploitation, financial management. Major themes in which it has been engaged include: agricultural development, sustainability, environmental friendliness, energy, business support, training courses, sustainable and accessible tourism, business innovation and competitiveness, social inclusion, networks creation and strengthening. The projects in which GAL Molise was involved are the following: INTERREG ITALY-CROATIA - MADE-IN-LAND - NETWAP	

Motivation

INTERREG IPA CBC ITALY-ALBANIA-MONTENEGRO

- PAST4FUTURE

INTERREG MED

- MED GREENHOUSES

ERASMUS +:

- Developing Inclusive Youth Policies

- Climate change: a matter for us all

- Citizen for Energy Transition

- BACCHUS SME

- ACCESS IT

- CarboNostrum

- EcoOils

- Work4Future

- Eco Olives

- ECOHOSTING

- TAPROOM

- WINERA

Co-financing

Source	Amount	Percentage
ERDF	520.800,00	80,00 %
FdR	130.200,00	20,00 %
Partner contribution	0,00	0,00 %
Partner total eligible budget	651.000,00	100,00 %

Origin of partner contribution

Source of contribution	Legal status of contribution	Amount	% of total partner budget
GAL Molise	Public	0,00	0,00 %

Total

Sub-total public contribution	0,00	0,00 %
Sub-total automatic public contribution	0,00	0,00 %
Sub-total private contribution	0,00	0,00 %
Total	0,00	0,00 %

State Aid

State aid criteria self-check	
Criterion I: Is the partner involved in economic activities through the project?	
1. Will the project applicant implement activities and/or offer goods/services for which a market exists?	No No economical activities are planned in the project
2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)?	No No economical activities are planned in the project
Criterion II: Does the partner receive an undue advantage in the framework of the project?	
1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example?	No No economical activities are planned in the project
2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)?	No No economical activities are planned in the project
Result of State aid criteria self-check:	No risk of state aid
State aid relevant activities	
GBER scheme / de minimis	

B.1 Project Partner 2	
Partner number	2
Partner role	PP
Name of the organisation in original language	Agencija za ruralni razvoj Zadarske županije - AGRRA
Name of the organisation in english	Zadar County Rural Development Agency - AGRRA
Organisation abbreviation	AGRRA
Department / unit / division	
Partner main address	
Country	Hrvatska (HR)
NUTS 2	Jadranska Hrvatska (HR03)
NUTS 3	Zadarska županija (HR033)
Street, House number, Postal code, City	Ivana Mažuranića 28A 23000 Zadar
Homepage	www.agrra.hr
Address of department / unit / division (if applicable)	
Country	
NUTS 2	
NUTS 3	
Street, House number, Postal code, City	
Legal and financial information	
Type of partner	Sectoral agency
Subtype of partner	
Legal status	Public
Sector of activity at NACE group level	M.70.22
VAT number (if applicable)	40310483418
Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project?	No
Tax number	40310483418

Legal and financial information	
PEC address	ivana.devic@agrra.hr
PIC (from EC Participant Register)	939978695
Contact	
Legal representative	Mr Ivica Pintur
Contact person	Mrs Ivana Dević
Email	ivana.devic@agrra.hr
Telephone no.	+385998803482
Motivation	
Which of the organisation's thematic competences and experiences are relevant for the project?	
Zadar County Rural Development Agency (AGRRA) is a public institution established by the County of Zadar. The main AGRRA's activity is development of Zadar County rural area (92,8 % of the County's territory). AGRRA follows national and EU strategies with the aim to harmonize legislation on regional and local level with rural development policies. AGRRA is actively working with the National Protection and Rescue Directorate of Zadar County for the protection of environment and citizens of the region against natural and man-made risks, providing support to groups of Civil Protection volunteers. It furthermore offers technical and advisory help in the international and interregional cooperation programmes focused on environmental safety and development of rural areas. Moreover, AGRRA implemented project E-CITIJENS, that aimed at increasing the safety from natural and man-made disasters by improving emergency prevention and management measures and instruments. E-CITIJENS was funded by Interreg Italy – Croatia Programme and implemented within Croatian and Italian Adriatic basin. Through the project, AGRRA contributed to the improved coordination of Civil Protection risk management measures and also increased the involvement of citizens in natural and man-made disaster management.	
What is the role (contribution and main activities) of your organisation in the project?	
AGRRA will participate in the daily communication with LP and all the PPs and in all coordination meetings of partners as well as planned project meetings and events. Moreover, the Agency will participate in all project activities, and will implement Pilot Action in collaboration with fire fighters from their region.	
If applicable, describe the organisation's experience in participating in and/or managing EU co-financed projects or other international projects.	
AGRRA is experienced in preparation and implementation of EU funded projects. Over the years, we implemented various projects related to the sustainability, culture and tourism, fishery, environment and nature protection, civil protection, digitalization, etc. Some of our projects are: Interreg Europe - "Supporting knowledge capacity in ICT among SME to engage in growth and innovation – SKILLS; Interreg ADRIION – Ecowaves, ADRIINETBOOK, CCI4TOURISM, SMART RIVER;	

Motivation

Interreg IPA CBC HR-BA-ME – CUHaCHA;
 Interreg Italy-Croatia - GECo2, E-CITIJENS, INVESTINFISH;
 COSME – eLabHausE;
 European Maritime and Fisheries Fund – BLUE SMART;
 ESF - Farmers' Market, AlterNET and AlterPOP, PERMA – HORTI – Zadar Initiative for Permaculture Design and Urban Horticulture, AktiBiz, B.Ready, SuDjeluj, nauči#primjeni#promjeni;
 Erasmus+ - Save H2O, Apprenticeship HUBs in agro-food sector, FEMALE ENTREPRENEUR, Count Me In, Guide Me Green, TRACK, Digit@l Literacy Portal, AgriCoopValue, SpIN, AGRI Smart, GREEN TO BLUE, Cities Go Climate Neutral, Bio Islands.
 The Agency was the lead partner on many projects mainly related to the tourism, and the development of rural area.
 To sum up, as previously presented, AGRRA has vast experience in managing EU co-financed projects.

Co-financing

Source	Amount	Percentage
ERDF	240.000,00	80,00 %
Partner contribution	60.000,00	20,00 %
Partner total eligible budget	300.000,00	100,00 %

Origin of partner contribution

Source of contribution	Legal status of contribution	Amount	% of total partner budget
AGRRA	Public	60.000,00	20,00 %

Total

Sub-total public contribution	60.000,00	20,00 %
Sub-total automatic public contribution	0,00	0,00 %
Sub-total private contribution	0,00	0,00 %
Total	60.000,00	20,00 %

State Aid**State aid criteria self-check**

Criterion I: Is the partner involved in economic activities through the project?

1. Will the project applicant implement activities and/or offer goods/services for which a market exists?	No	No economical activities are planned in the project
2. Are there activities/goods/services that could have been undertaken by an operator	No	No economical activities are planned in the project

State aid criteria self-check	
Criterium I: Is the partner involved in economic activities through the project?	
with the view to making profit (even if this is not the applicant's intention)?	
Criterium II: Does the partner receive an undue advantage in the framework of the project?	
1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example?	No No economical activities are planned in the project
2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)?	No No economical activities are planned in the project
Result of State aid criteria self-check:	No risk of state aid
State aid relevant activities	
GBER scheme / de minimis	

B.1 Project Partner 3	
Partner number	3
Partner role	PP
Name of the organisation in original language	PARCO NAZIONALE DELLA MAIELLA
Name of the organisation in english	MAIELLA NATIONAL PARK
Organisation abbreviation	PNM
Department / unit / division	
Partner main address	
Country	Italia (IT)
NUTS 2	Abruzzo (ITF1)
NUTS 3	Chieti (ITF14)
Street, House number, Postal code, City	Via Occidentale 6 66016 Guardiagrele
Homepage	www.parcomaiella.it
Address of department / unit / division (if applicable)	
Country	
NUTS 2	
NUTS 3	
Street, House number, Postal code, City	
Legal and financial information	
Type of partner	Other
Subtype of partner	
Legal status	Public
Sector of activity at NACE group level	R.91.04
VAT number (if applicable)	01815660699
Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project?	No
Tax number	91041690685

Legal and financial information	
PEC address	pnm@pec.parcomaiella.it
PIC (from EC Participant Register)	
Contact	
Legal representative	Mr Lucio Zazzara
Contact person	Mr Luciano Di Martino
Email	direzione@parcomaiella.it
Telephone no.	+39086425701
Motivation	
Which of the organisation's thematic competences and experiences are relevant for the project?	
The Maiella National Park has expertise on the existing project as it has trained and trained personnel for cooperation activities in civil protection scenarios. This training derives from regulatory obligations such as: - the Regional Law n. 47 of 18 June 1992 containing "Regulations for the prediction and prevention of avalanche risks"; - the regional regulation on the establishment and functioning of municipal commissions for the prevention of avalanche risks - Art.17 L.R. 47/92, published in the Official Bulletin of the Abruzzo Region n. 146 - Special of 10.21.2022; - the Resolution of the Board of Directors of the Maiella National Park Authority n.39 dated 27.10.2022 on the subject: proposal for participation in the avalanche commission by qualified personnel (art. 17 Regional Law 47/92), with which it is resolved to support the proposal of the President of the Park Community concerning the participation of qualified personnel of the Park Authority, in possession of the qualifications suitable for the constitution of the municipal commissions for the prevention of the risk of avalanches. Furthermore, it is necessary to consider the numerous initiatives launched by the Park Authority, regarding the theme of safety in the mountain environment in both summer and winter hiking activities. Furthermore, the Park Authority supported the Italian Avalanche Service in the context of the "Maiella l'Altra Neve" project, in the organization of a course/examination for 1st level Qualified SVI Snow and Avalanche Observer, in which the staff of the Entity. In conclusion, the qualified personnel can operate and work in cooperation activities in civil protection scenarios.	
What is the role (contribution and main activities) of your organisation in the project?	
Given the aforementioned Resolution of the Board of Directors of the Maiella National Park Authority n. 39 of 27.10.2022 (proposal for qualified personnel for the avalanche commission) (art. 17 LR 47/92), the qualified personnel of the Park Authority, if in possession of suitable qualifications can be part of the municipal commissions for the prevention of avalanche risk. The aforementioned personnel can be safely employed in cooperation activities in civil protection scenarios, as appropriately specified in the project.	
If applicable, describe the organisation's experience in participating in and/or managing EU co-financed projects or other international projects.	

Motivation

Some Life projects of the last few years of which the Maiella National Park has been coordinator or partner:

Coordinator:

Development of coordinated protection measures for Wolf in Apennines LIFE08 NAT/IT/000325

Acronym: WOLFNET Year: 2008;

Development of coordinated protection measures for Apennine Chamois (*Rupicapra pyrenaica ornata*)

LIFE09 NAT/IT/000183 Acronym: COORNATA Year: 2009;

Safeguard and valorization of the plant species of EU interest in the Natural Parks of the Abruzzo

Apennine LIFE15 NAT/IT/000946 Acronym: FLORANET LIFE Year: 2015;

Salmo ceTii REcovery Actions in Mediterranean Streams LIFE18 NAT/IT/000931 Acronym: LIFE STREAMS Year: 2018;

Partner:

Preventing Animal-Vehicle Collisions – Demonstration of Best Practices targeting priority species in SE Europe LIFE17 NAT/IT/000464. Acronym: LIFE SAFE-CROSSING Year: 2017;

Improving human-bear coexistence in 4 National Parks of South Europe LIFE18 NAT/GR/000768

Acronym: LIFE ARCPROM Year: 2018 Lead Partner Country: GR

Using SEED banks to restore and reinFORCE the endangered native plants of Italy LIFE20 NAT/IT/001468 Acronym: LIFE SEEDFORCE Year: 2020 Lead Partner Country: IT

Furthermore, the Majella National Park was the lead institution of the Adrion Transnational Project INTERREG V-B 608 "Adriaticcaves", aimed on the one hand at promoting the sustainable use of the speleological heritage of its territory, on the other at increasing the effectiveness of the conservation of the habitat of the caves, and in particular of the community habitat 8310 "Caves not yet exploited for tourism". The project has a transnational character and involves a partnership between countries bordering the Adriatic Sea: Italy, Croatia, Serbia, Bosnia-Herzegovina, Montenegro and Albania.

Co-financing

Source	Amount	Percentage
ERDF	171.360,00	80,00 %
FdR	42.840,00	20,00 %
Partner contribution	0,00	0,00 %
Partner total eligible budget	214.200,00	100,00 %

Origin of partner contribution

Source of contribution	Legal status of contribution	Amount	% of total partner budget
PNM	Public	0,00	0,00 %

Total

Sub-total public contribution	0,00	0,00 %
Sub-total automatic public contribution	0,00	0,00 %

Total		
Sub-total private contribution	0,00	0,00 %
Total	0,00	0,00 %
State Aid		
State aid criteria self-check		
Criterium I: Is the partner involved in economic activities through the project?		
1. Will the project applicant implement activities and/or offer goods/services for which a market exists?	No	No economical activities are planned in the project
2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)?	No	No economical activities are planned in the project
Criterium II: Does the partner receive an undue advantage in the framework of the project?		
1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example?	No	No economical activities are planned in the project
2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)?	No	No economical activities are planned in the project
Result of State aid criteria self-check:	No risk of state aid	
State aid relevant activities		
GBER scheme / de minimis		

B.1 Project Partner 4	
Partner number	4
Partner role	PP
Name of the organisation in original language	Università Ca' Foscari Venezia
Name of the organisation in english	Ca' Foscari University of Venice
Organisation abbreviation	UNIVE
Department / unit / division	Department of Molecular Sciences and Nanosystems
Partner main address	
Country	Italia (IT)
NUTS 2	Veneto (ITH3)
NUTS 3	Venezia (ITH35)
Street, House number, Postal code, City	Dorsoduro 3246 30123 Venezia
Homepage	www.unive.it
Address of department / unit / division (if applicable)	
Country	Italia (IT)
NUTS 2	Veneto (ITH3)
NUTS 3	Venezia (ITH35)
Street, House number, Postal code, City	via Torino 155 30172 Venezia (Mestre)
Legal and financial information	
Type of partner	Higher education and research organisations
Subtype of partner	
Legal status	Public
Sector of activity at NACE group level	P.85.42
VAT number (if applicable)	00816350276
Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project?	No

Legal and financial information	
Tax number	80007720271
PEC address	protocollo@pec.unive.it
PIC (from EC Participant Register)	999897341
Contact	
Legal representative	Mrs Tiziana Lippiello
Contact person	Mr Giovanni Antonio Salvatore
Email	giovanni.salvatore@unive.it
Telephone no.	+393205760661
Motivation	
Which of the organisation's thematic competences and experiences are relevant for the project?	
The department of Molecular Science and Nanosystem at Ca Foscari University of Venice develops multidisciplinary research with emphasis on green chemistry and new materials to achieve environmental sustainable optoelectronic devices. This proposal sees the involvement of the new Electronic Lab that has been established in 2021 and it is located in the new scientific campus in Mestre. The lab is composed by 3 researchers and 2 PhD (1 working on natural and biodegradable polymers, PON PhD fellowship on green technologies). The lab is equipped with the necessary instrumentations for the characterization of micro-optoelectronic devices and sensors, and it has access to on-campus facilities (XPS, NMR, SEM and TEM, AFM, PFM) for the characterization of thin film materials. Moreover, it can take advantage of the multidisciplinary activities of the department, including project-relevant competences in green chemistry. In the contest of this proposal, it is worth mentioning that the group of the PI has access to the Scientific Park in Trieste (Basovizza) and to all its state-of-the-art facilities for advanced micro and nanofabrication (CNR-IOM), including e-beam lithography, sputtering, e-beam evaporators, UV and Xray lithography, Nanoimprinting, dry and wet etching, electroplating, and analysis of materials (Elettra-Synchrotron). The research at UniVe is led by Dr. Salvatore that has 15+ years of experience in the microfabrication of electronic devices and packaging covering various technologies, including silicon, thin film, and wide bandgap semiconductors, in both academic and industrial research environments. From 2013 to 2014 the PI has worked with Roger's group at University of Urbana-Champaign (IL, USA), which is considered a pioneer in the field of biodegradable and thin film electronics.	
What is the role (contribution and main activities) of your organisation in the project?	
UniVe, with the supervision of the LP, will lead the development of the IoT sensors based on the outcome of task A2.1 and their integration into the IT platform. The sensors' development will happen through two main paths: (i) the realization of IoT sensors based on standard PCB technologies and commercial sensors; (ii) the prototyping of RFID tags on biodegradable substrates like chitosan that are derived from biowaste upcycling. PP4 will outsource the development of strand (i) to an external company working on wireless sensor networks. Instead, strand (ii) is more exploratory being based on new emerging materials and technologies and will be accomplished internally by PP4.	
If applicable, describe the organisation's experience in participating in and/or managing EU co-	

Motivation			
financed projects or other international projects.			
Ca' Foscari University of Venice has a wide experience in participating and managing EU projects. In the framework of the Research & Innovation projects it counts 143 Marie Curie Individual Fellowships (first in Italy), 17 ERC (European Research Council) Projects, 123 PRIN (National Research Projects) Projects, 169 projects funded by the ESF Research Fellowships (European Social Fund), 80 Research Grants 235 International Projects since 2014 of which 151 from Horizon 2020. UNIVE has participated also in several Interreg projects under the previous programming period and it is already in several proposals of the new programming periods, even in an approved project, funded under the Central Europe program. Other Interreg programs in which UNIVE has participating are Interreg Italia-Croatia and Italia-Slovenia (crossborder), Med and Adrion (transnational). Besides the territorial cooperation and the Horizon programmes, Ca' Foscari has participated to several proposals under programs like Life, Creative Europe, Europe AID, and COST actions.			
Co-financing			
Source	Amount	Percentage	
ERDF	296.499,16	80,00 %	
FdR	74.124,79	20,00 %	
Partner contribution	0,00	0,00 %	
Partner total eligible budget	370.623,95	100,00 %	
Origin of partner contribution			
Source of contribution	Legal status of contribution	Amount	% of total partner budget
UNIVE	Public	0,00	0,00 %
Total			
Sub-total public contribution	0,00	0,00 %	
Sub-total automatic public contribution	0,00	0,00 %	
Sub-total private contribution	0,00	0,00 %	
Total	0,00	0,00 %	
State Aid			
State aid criteria self-check			
Criterium I: Is the partner involved in economic activities through the project?			
1. Will the project applicant implement activities and/or offer goods/services for	No	No economic activities are planned in the project	

State aid criteria self-check	
Criterion I: Is the partner involved in economic activities through the project?	
which a market exists?	
2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)?	No No economic activities are planned in the project
Criterion II: Does the partner receive an undue advantage in the framework of the project?	
1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example?	No No economic activities are planned in the project
2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)?	No No economic activities are planned in the project
Result of State aid criteria self-check:	No risk of state aid
State aid relevant activities	
GBER scheme / de minimis	

B.1 Project Partner 5	
Partner number	5
Partner role	PP
Name of the organisation in original language	Grad Dubrovnik
Name of the organisation in english	City of Dubrovnik
Organisation abbreviation	CoD
Department / unit / division	Department for European union funds, regional and international cooperation
Partner main address	
Country	Hrvatska (HR)
NUTS 2	Jadranska Hrvatska (HR03)
NUTS 3	Dubrovačko-neretvanska županija (HR037)
Street, House number, Postal code, City	Pred Dvorom 1 20000 Dubrovnik
Homepage	www.dubrovnik.hr
Address of department / unit / division (if applicable)	
Country	Hrvatska (HR)
NUTS 2	Jadranska Hrvatska (HR03)
NUTS 3	Dubrovačko-neretvanska županija (HR037)
Street, House number, Postal code, City	Branitelja Dubrovnik 15 20000 Dubrovnik
Legal and financial information	
Type of partner	Local public authority
Subtype of partner	
Legal status	Public
Sector of activity at NACE group level	0.84.11
VAT number (if applicable)	21712494719
Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project?	Partly

Legal and financial information	
Tax number	21712494719
PEC address	grad@dubrovnik.hr
PIC (from EC Participant Register)	931445411
Contact	
Legal representative	Mr Mato Franković
Contact person	Mr Mario Galić
Email	mgalic@dubrovnik.hr
Telephone no.	+38520351778
Motivation	
Which of the organisation's thematic competences and experiences are relevant for the project?	
Department for European Union Funds, Regional and International Cooperation of City of Dubrovnik acquired valuable expertise and know-how in the issue tackled by the project, developing during last year's different initiatives in cross border and transnational projects aimed to enhance the safety and resilience of coastal and internal ecosystems and communities. By preparing and implementing of different national and international projects, as project partner or lead partner, the department can now count on personnel and experts with a long experience in the management and implementation of international and European projects.	
What is the role (contribution and main activities) of your organisation in the project?	
City of Dubrovnik will help to develop standardized early warning systems, contingency planning and decision support tools (also for uncertainty management processes), especially through new technologies and robotics, and financing small scale infrastructure to face natural disasters and other hazards. Reinforcing cooperation between local authorities and non- governmental organizations to define and apply integrated emergency/rescue plans and to develop mechanisms to report identified needs for equipment supplies to relevant authorities. Exchange of good practices to increase post disaster management capacities of relevant actors. Developing cross-border agreements and protocols for accelerating mutual supply of goods/equipment for the management of the first phases of the emergency/recovery. Overall, City of Dubrovnik main objective is the digitization of civil protection plans, already operative in the territorial areas of competence of the PPs, developing a common cross-border methodology to be applied and replicated in the program area.	
If applicable, describe the organisation's experience in participating in and/or managing EU co-financed projects or other international projects.	
The City of Dubrovnik is a public body composed of different departments each dealing with sectoral issues. This system allows an efficient governance providing development of economy, infrastructures and employment, protection of historical and cultural heritage, support for local investments and research. It has technical staff and administrative civil servants well educated and well trained. The staffs of Department has had experiences in managing EU funds and implementing international projects and offices are equipped with all required information equipment linked in a network and	

Motivation			
conference room with necessary audio-video equipment. The working group has knowledge, skills and competences to design project proposals concerning multiple programmes and to successfully manage funded projects. ALTER ECO, SumBooST2, Plastic Smart cities, TOURBAN, E-CITIJENS, The DiMaND are some of the project implemented in last couple of years.			
Co-financing			
Source		Amount	Percentage
ERDF		199.920,00	80,00 %
Partner contribution		49.980,00	20,00 %
Partner total eligible budget		249.900,00	100,00 %
Origin of partner contribution			
Source of contribution	Legal status of contribution	Amount	% of total partner budget
CoD	Public	49.980,00	20,00 %
Total			
Sub-total public contribution		49.980,00	20,00 %
Sub-total automatic public contribution		0,00	0,00 %
Sub-total private contribution		0,00	0,00 %
Total		49.980,00	20,00 %
State Aid			
State aid criteria self-check			
Criterium I: Is the partner involved in economic activities through the project?			
1. Will the project applicant implement activities and/or offer goods/services for which a market exists?	No	No economical activities are planned in the project	
2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)?	No	No economical activities are planned in the project	
Criterium II: Does the partner receive an undue advantage in the framework of the project?			
1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public	No	No economical activities are planned in the project	

Criterium II: Does the partner receive an undue advantage in the framework of the project?	
procurement procedures for example?	
2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)?	No No economical activities are planned in the project
Result of State aid criteria self-check:	No risk of state aid
State aid relevant activities	
GBER scheme / de minimis	

B.1 Project Partner 6	
Partner number	6
Partner role	PP
Name of the organisation in original language	Javna Ustanova RERA SD za koordinaciju i razvoj Splitsko-dalmatinske županije
Name of the organisation in english	Public Institution RERA SD for coordination and development of Split Dalmatia County
Organisation abbreviation	RERA
Department / unit / division	
Partner main address	
Country	Hrvatska (HR)
NUTS 2	Jadranska Hrvatska (HR03)
NUTS 3	Splitsko-dalmatinska županija (HR035)
Street, House number, Postal code, City	Domovinskog rata 2 21000 Split
Homepage	www.rera.hr
Address of department / unit / division (if applicable)	
Country	
NUTS 2	
NUTS 3	
Street, House number, Postal code, City	
Legal and financial information	
Type of partner	Sectoral agency
Subtype of partner	
Legal status	Public
Sector of activity at NACE group level	0.84.11
VAT number (if applicable)	40887282015
Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project?	No

Legal and financial information	
Tax number	40887282015
PEC address	info@rera.hr
PIC (from EC Participant Register)	891314280
Contact	
Legal representative	Mr Jozo Sarač
Contact person	Mrs Marija Ramljak
Email	marija.ramljak@rera.hr
Telephone no.	00385915321658
Motivation	
Which of the organisation's thematic competences and experiences are relevant for the project?	
PI RERA S.D. is regional development agency and interdisciplinary institution established by Split-Dalmatia County (regional self-government body) for the purpose of preparation and implementation of projects related to the regional development. PI RERA S.D. is organized into 5 departments: The Director's Office, Regional Development and Strategic Planning Department, Project Preparation Department, Project Implementation Department, and Department for general and administrative affairs, employs 44 persons. Our employees closely cooperate with Split Dalmatia County's departments on a daily basis, as to ensure a coordinated approach in development planning. The employees are highly educated and have multidisciplinary knowledge and rich experience gained by working on numerous EU projects. Having prepared and implemented EU funded projects, RERA S.D. established good cooperation on University level (Faculty of Economics / Department for tourism, lifelong learning, SMEs; Faculty of electrical engineering, mechanical and naval architecture etc.) and similar institutions at national level. PI RERA S.D. has been Lead partner on 7 projects and is fully capable of running large-scale projects both as a partner or lead partner.	
What is the role (contribution and main activities) of your organisation in the project?	
PI RERA S.D. will contribute by collecting information from institutional open databases and in creating a cross-border study of specific risks in order to collect synthetic data for the purpose of digitizing civil protection planning in the County of Split-Dalmatia. Once the platform is developed, PI RERA S.D. will organize training courses on the use of the platform for the staff of the entities involved in drafting the civil protection plan. Through the testing phase of the project, PI RERA S.D. will organize/take part in the process of installing IoT sensors in the area of Split-Dalmatia County in order to enable communication with the platform and improve decision support with collected data in real time. PI RERA S.D. will be responsible to implement his own communication activities (organisation of local events, workshops, workcafé, engagement of stakeholders days, organization of the thematic round table, participation at external events and preparation the materials for replicability of results). Participation in the project will be great opportunity to increase knowledge, capacity and effectiveness of local/regional CP units in the case of extreme meteorological phenomena, natural hazards or other disasters related to human activities.	
If applicable, describe the organisation's experience in participating in and/or managing EU co-	

Motivation

financed projects or other international projects.

PI RERA S.D. is institution established by Split-Dalmatia County specialised for creation and implementation of preparation and monitoring the development strategy for the county, preparation and implementation of EU funded projects.

Relevant to the project competencies and experiences PI RERA S.D. include: coordination and management of

EU project (as well as lead partner or WP leader), strong database with stakeholders in SD county and wide

network of institutional operators within SME and tourist sector, training plan development and implementation,

experience in comparison and creation of development strategies and action plans.

- FIRESPELL - Fostering improved reaction of cross border emergency services and prevention increasing safety level - Overall objective is to enhance the capacity of Emergency Service Organizations to increase cross-border effectiveness in tackling natural and man-made disasters, decreasing the exposure of the populations to the impact of hazards and increasing the safety of the Croatian and Italian Adriatic basin by improving emergency prevention and management measures and instruments. <https://www.italy-croatia.eu/web/firespill>

- STREAM - Strategic Development of Flood Management - The project will contribute to increase knowledge about floods in the areas involved. Local authorities and emergency services will improve their flood risk management, while people will learn how to behave in case of flood hazards. This will help to reduce the human and socio-economic losses caused by floodings. <https://www.italy-croatia.eu/web/stream>

- TRANSCPEARLYWARNING - Transnational Civil Protection EARLY WARNING System - The main goal of the project is to equip the civil protection institutions of the countries of the ADRIAN region with a highly innovative transnational platform for early warning of danger, whose functions and processes will be used in different functional centers and operating rooms of civil protection, and will work with a common early warning regulatory system that contains common procedures and rules for managing early warning of hazards based on uniformity and similarity. <https://transcpearlywarning.adrioninterreg.eu/>

- PMO-GATE - Preventing, Managing and Overcoming Natural-Hazards Risks to mitigate economic and social impact - The project aims to improve the safety of the pilot areas of the City of Kaštela and the City of Ferrara, supporting the development of the disaster management system, increasing the recovery capacity while reducing damage to the minimum possible extent. <https://www.italy-croatia.eu/web/pmo-gate>

- ADRIACLIM - Climate change information, monitoring and management tools for adaptation strategies in Adriatic coastal areas - Improvement of existing climate change monitoring systems by encouraging the development of strategic documents and adaptation plans to current changes. <https://www.italy-croatia.eu/web/adriacclim>

Co-financing

Source	Amount	Percentage
ERDF	240.000,00	80,00 %
Partner contribution	60.000,00	20,00 %

Co-financing			
Source		Amount	Percentage
Partner total eligible budget		300.000,00	100,00 %
Origin of partner contribution			
Source of contribution	Legal status of contribution	Amount	% of total partner budget
RERA	Public	60.000,00	20,00 %
Total			
Sub-total public contribution		60.000,00	20,00 %
Sub-total automatic public contribution		0,00	0,00 %
Sub-total private contribution		0,00	0,00 %
Total		60.000,00	20,00 %
State Aid			
State aid criteria self-check			
Criterium I: Is the partner involved in economic activities through the project?			
1. Will the project applicant implement activities and/or offer goods/services for which a market exists?		No	No economical activities are planned in the project
2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)?		No	No economical activities are planned in the project
Criterium II: Does the partner receive an undue advantage in the framework of the project?			
1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example?		No	No economical activities are planned in the project
2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)?		No	No economical activities are planned in the project
Result of State aid criteria self-check:		No risk of state aid	

State aid relevant activities	
GBER scheme / de minimis	

B.1 Project Partner 7	
Partner number	7
Partner role	PP
Name of the organisation in original language	Sveučilište u Splitu, Fakultet elektrotehnike, strojarstva i brodogradnje
Name of the organisation in english	University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Organisation abbreviation	FESB
Department / unit / division	
Partner main address	
Country	Hrvatska (HR)
NUTS 2	Jadranska Hrvatska (HR03)
NUTS 3	Splitsko-dalmatinska županija (HR035)
Street, House number, Postal code, City	Ruđera Boškovića 32 21000 Split
Homepage	https://www.fesb.unist.hr/
Address of department / unit / division (if applicable)	
Country	
NUTS 2	
NUTS 3	
Street, House number, Postal code, City	
Legal and financial information	
Type of partner	Higher education and research organisations
Subtype of partner	
Legal status	Public
Sector of activity at NACE group level	P.85.42
VAT number (if applicable)	00857144221
Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project?	No

Legal and financial information	
Tax number	00857144221
PEC address	psolic@fesb.hr
PIC (from EC Participant Register)	996558116
Contact	
Legal representative	Prof Branimir Lela
Contact person	Dr Petar Šolić
Email	psolic@fesb.hr
Telephone no.	+385 (0)21 305 770
Motivation	
Which of the organisation's thematic competences and experiences are relevant for the project?	
There are several thematic competencies and experiences that could be relevant for a project focused on IoT sensors. Some of the key areas of expertise and experience that may be applicable include: IoT Sensor Design and Development: We have experience in designing and developing IoT sensors that can collect data from a variety of sources, including environmental sensors, medical sensors, and other types of sensors. This could include experience with hardware and software development, as well as knowledge of various communication protocols and networking technologies. Smart City Solutions: We have experience developing smart city solutions that integrate IoT sensors with other urban infrastructure to create more efficient and sustainable cities. E-Health: We have experience developing e-health solutions that leverage IoT sensors to support remote patient monitoring, telemedicine, and other health initiatives. Data Analytics and Machine Learning: We have experience in data analytics and machine learning that can be used to extract insights from the large amounts of data generated by IoT sensors. This could include developing algorithms and predictive models that can help optimize processes, identify patterns, and detect anomalies in sensor data. Overall, our team have relevant competencies and experience in the areas of IoT technology, smart cities, e-health, and data analytics. By leveraging our expertise, this project can use our knowledge and resources to deliver effective and innovative solutions.	
What is the role (contribution and main activities) of your organisation in the project?	
Our team is committed to supporting the development of innovative solutions to improve civil protection efforts, and we will bring our expertise in IoT technology, smart cities, e-health, and data analytics to this effort. Team will collaborate with project partners to identify key requirements and use cases for IoT sensors in civil protection scenarios and develop customized solutions to meet these needs. We will make an overview of the technologies used for these applications and also integrate IoT sensors with other urban infrastructure to create more efficient and effective civil protection solutions. Furthermore, we will test the availability and usability of these technologies in remote areas with respect to existing infrastructure and make recommendations for improvements or modifications as necessary. One of the key applications that we will be developing is an application that visualizes the location of people, objects or vehicles in real-time by combining GPS and an IoT module. This	

Motivation

application will allow for more accurate and efficient tracking of resources during civil protection operations. To accomplish this, we will use technologies such as IoT sensors, communication protocols, networking technologies, data analytics and machine learning algorithms, and GPS and IoT modules for location tracking. These technologies will be customized and integrated to meet the specific needs of civil protection scenarios.

Overall, our team will play a critical role in the project by leveraging our expertise and experience to develop innovative and effective solutions for civil protection scenarios. Our contribution will help improve the efficiency and effectiveness of civil protection efforts, and ultimately help protect people and communities from the impact of disasters and emergencies.

If applicable, describe the organisation's experience in participating in and/or managing EU co-financed projects or other international projects.

Our faculty has participated in the following co-financed EU or international projects:

National Competence Centres in the framework of EuroHPC (EuroCC)

Advanced methods and technologies in Data Science and Cooperative Systems

CAAT - Coastal Autopurification Assessment Technology

Prototype of an Intelligent System for Search and Rescue project

Active Electrical Energy Storage and Stabilization System (ASPEMS)

FirEURisk, which seeks to improve wildfire prevention

Renewable Micro Power Plant Initiative

VITA - Virtual Telemedicine Assistance

The Faculty of Electrical Engineering, Mechanical Engineering, and Naval Architecture has extensive experience in participating in and managing EU co-financed projects and other international projects. It has contributed to various projects aimed at conducting research and development in areas such as HPC, search and rescue, electrical energy storage, data science, cooperative systems, coastal eutrophication, water quality, telemedicine, wildfire prevention, and renewable energy. Our participation in these projects has demonstrated our ability to innovate, collaborate, and create positive impacts on society. Our expertise in coordinating and managing large-scale projects, developing practical solutions to real-world problems, and promoting sustainable development makes us a valuable partner in EU co-financed and international projects.

Co-financing

Source	Amount	Percentage
ERDF	224.001,12	80,00 %
Partner contribution	56.000,28	20,00 %
Partner total eligible budget	280.001,40	100,00 %

Origin of partner contribution

Source of contribution	Legal status of contribution	Amount	% of total partner budget
FESB	Public	56.000,28	20,00 %

Total		
Sub-total public contribution	56.000,28	20,00 %
Sub-total automatic public contribution	0,00	0,00 %
Sub-total private contribution	0,00	0,00 %
Total	56.000,28	20,00 %
State Aid		
State aid criteria self-check		
Criterium I: Is the partner involved in economic activities through the project?		
1. Will the project applicant implement activities and/or offer goods/services for which a market exists?	No	No economical activities are planned in the project
2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)?	No	No economical activities are planned in the project
Criterium II: Does the partner receive an undue advantage in the framework of the project?		
1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example?	No	No economical activities are planned in the project
2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)?	No	No economical activities are planned in the project
Result of State aid criteria self-check:	No risk of state aid	
State aid relevant activities		
GBER scheme / de minimis		

B.1 Project Partner 8	
Partner number	8
Partner role	PP
Name of the organisation in original language	Comune di Fermo
Name of the organisation in english	Municipality of Fermo
Organisation abbreviation	MoF
Department / unit / division	Civil Protection
Partner main address	
Country	Italia (IT)
NUTS 2	Marche (IT13)
NUTS 3	Fermo (IT135)
Street, House number, Postal code, City	Via Mazzini 4 63900 Fermo
Homepage	www.comune.fermo.it
Address of department / unit / division (if applicable)	
Country	Italia (IT)
NUTS 2	Marche (IT13)
NUTS 3	Fermo (IT135)
Street, House number, Postal code, City	Via Mazzini 4 63900 Fermo
Legal and financial information	
Type of partner	Local public authority
Subtype of partner	
Legal status	Public
Sector of activity at NACE group level	0.84.11
VAT number (if applicable)	00334990447
Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project?	No

Legal and financial information	
Tax number	00334990447
PEC address	protocollo@pec.comune.fermo.it
PIC (from EC Participant Register)	950541995
Contact	
Legal representative	Mr Paolo Calcinaro
Contact person	Mr Fabio Ragonese
Email	fabio.ragonese@comune.fermo.it
Telephone no.	+39 0734 284254
Motivation	
Which of the organisation's thematic competences and experiences are relevant for the project?	
The Municipality of Fermo has competences in local environmental policies and is responsible of the preservation, maintenance and management of the environment. It has expertise in emergency management and in the coordination of civil protection forces at the local level. Over the years, the Civil Protection Service of the Municipality of Fermo has developed organizational and operational models through which it has been possible to identify multiple critical issues in the area either in ordinary times or in emergencies. Civil Protection Service reacts to the alerts communicated by the Multirisk Functional Center of the Marche Regional Department of Civil Protection and try to prevent or reduce the risks related to predictable phenomena. In many cases, however, the detection of critical issues is entrusted solely to the visual testimony of civil protection volunteers and it is not supported by objective data. It is therefore necessary to implement instruments and procedures for a more accurate detection of environmental risks.	
What is the role (contribution and main activities) of your organisation in the project?	
Development of innovative procedures for the analysis of the collected data. Experimentation of new models of functional intervention and immediate response. PILOT RISK: HYDROGEOLOGICAL - HYDRAULIC – GRAVITY DRIVEN PROCESSES RISK.	
If applicable, describe the organisation's experience in participating in and/or managing EU co-financed projects or other international projects.	
The European Policies Department has relevant experience in managing projects and has a dedicated staff which could guarantee sound administrative and financial management as well as support and active contribution to the project activities development and to the production of project intellectual outputs. In recent years, Municipality of Fermo has participated in the following European projects: EACEA - Creative Europe 2016-2018 DiStory - Digital Stories or Small Historic Towns - Project ID: 400570405 - Muzeji Radovljiske Obcine - Radovljica Municipality Museums (Slovenia) - Applicant ERDF -URBACTIII 2014-2020 - phase I - phase II - 2015-2018 Retailink: CTE ref:215 - City of Igualada (Spain) - Applicant European Commission - LIFE+ Programme 2014-2020 2016-2019 LIFE SEC Adapt - Project number: LIFE14 CCA/IT/000316 SVIM Sviluppo Marche srl (Applicant)	

Motivation			
Erasmus plus 2014-2020 In particular, LIFE SEC ADAPT project has led to the adoption of the Sustainable Energy and Climate Action Plan under the EU initiative denominated Covenant of Mayors. The plan has been approved on the 6th of October 2019.			
Co-financing			
Source		Amount	Percentage
ERDF		240.000,00	80,00 %
FdR		60.000,00	20,00 %
Partner contribution		0,00	0,00 %
Partner total eligible budget		300.000,00	100,00 %
Origin of partner contribution			
Source of contribution	Legal status of contribution	Amount	% of total partner budget
MoF	Public	0,00	0,00 %
Total			
Sub-total public contribution		0,00	0,00 %
Sub-total automatic public contribution		0,00	0,00 %
Sub-total private contribution		0,00	0,00 %
Total		0,00	0,00 %
State Aid			
State aid criteria self-check			
Criterium I: Is the partner involved in economic activities through the project?			
1. Will the project applicant implement activities and/or offer goods/services for which a market exists?	No	No economical activities are planned in the project	
2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)?	No	No economical activities are planned in the project	
Criterium II: Does the partner receive an undue advantage in the framework of the project?			
1. Does the project applicant plan to carry out	No	No economical activities are planned in the	

Criterium II: Does the partner receive an undue advantage in the framework of the project?	
the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example?	project
2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)?	No No economical activities are planned in the project
Result of State aid criteria self-check:	No risk of state aid
State aid relevant activities	
GBER scheme / de minimis	

Associated organisations

No associated organisations

C - Project description

C.1 Project overall objective

Below, you can see the Programme priority specific objective your project will contribute to (chosen in section A.1.).

2.1: Promoting climate change adaptation and disaster risk prevention, resilience, taking into account eco-system based approaches

Project overall objective

Now think about your main objective – what do you aim to achieve by the end of your project? Remember your project needs to contribute to the programme's objective.

Your objective should:

- be realistic and achievable by the end of the project, or shortly after;
- specify who needs project results and in which territory;
- be measurable – indicate the change you are aiming for.

The main objective of the project is the digitalization of civil protection plans, already operatives in the territorial areas of competence of the PPs, to improve the capacity of local authorities to investigate the risks present, to define common operational methods of action in the event of a disaster and in particular to share all the emergency planning with other bodies and agencies in charge of rescue, for compress intervention times, and with the population.

C.2 Project relevance and context

C.2.1 What are the common territorial challenge(s) that will be tackled by the project?

Please describe why your project is needed in the programme area and the relevance of your project for the programme area, in terms of common challenges and opportunities addressed.

The selected theme of digitalization of CP Plans represents a common interest for Italian and Croatian territories that present similar problems and demand common transnational solutions. Fragmentation of the area and different status of civil protection systems create heterogeneity in hazard handling. Yet, risks and disasters, sure enough, do not recognize state borders and other boundaries imposed by human conventions and treaties. Common risks affect the whole area and the need for a homogeneous, interoperable, and EU-integrated approach is a necessity. This means both homogenizing plans and procedures in the area and presenting common tools for civil protection plan digitalization.

Further to homogenization, such a plan, its accompanying capacity building and training, and its adoption by partners will strengthen the administrative and technical capacities of local authorities in managing hazardous and emergencies. Moreover, partners will benefit from the transnational process of exchange of know-how and from a common basis of knowledge and experience, which will help individuate solutions for enhancing resilience in uniformly dealing with natural and man-made hazards within the involved territories. By empowering territorial resilience, the project reduces overall Italian and Croatian programme area vulnerability through extensive information interchange in both vertical and horizontal directions.

The Digital Plan project will contribute to disaster risk reduction, and management efficiency both in the planning phase and in emergencies, collaborating in the building of resilience in the Adriatic region, through the strengthening of cross-border territorial cooperation with the help of innovative technologies both through DSS (Decision Support System) and through the integration of IoT (Internet of Things) sensors.

A poor sharing of emergency planning and management tools and the effects of forecast and ongoing climate change such as extreme weather events, floods, droughts, increased temperatures, and major snow events are a "powder keg" in the world of risk management and the emergency. The cooperation between the territories of Italy and Croatia, with this project, supports the strengthening of resilience in all sectors of activity in the field of civil protection; then the focus risks of the project, chosen by the PPs, identify innovative technological tools and to support decisions, also with climate adaptation actions.

The territories of the PPs, given the short distances, also share the impacts of multiple extreme phenomena with meteorological or seismic forcing, for which it is essential to share knowledge, skills, and equipment in the event of disaster response, but also during the other phases of the resilience-building and contingency planning cycle.

Until now, the world of extreme events and climate change has been seen as two separate entities, but this is not correct, the main challenge derives from the assumption that good emergency response planning also makes it possible to identify and apply tools and climate adaptation actions. This cross-border initiative is particularly needed while the entire Adriatic region is preparing to manage events related to climate change and the management of any emergency crises. Climate change mitigation and adaptation can only be achieved through an integrated approach of territorial cooperation and resilience building by endorsing the entire resilience cycle: planning and preparedness, prevention, response, mitigation, recovery, and adaptation towards a new equilibrium. The Deming cycle, the reference point of emergency planning (planning, execution, control, and adjustment), can be perfectly integrated into this cycle.

Finally, in the Sendai Framework for Disaster Risk Reduction (2015-2030), the project's actions support the ultimate goal of achieving results.

The 2015 Sendai Document and the United Nations International Strategy for Disaster Reduction emphasized the need to address disaster risk reduction and climate change adaptation in setting sustainable development goals.

The project with its actions goes precisely in this direction and specifically aims to improve the understanding of disaster risk, improve disaster preparedness for effective response and rebuild better in the recovery phase by setting some overall objectives in the project actions such as increasing entities with their disaster risk reduction strategies and increasing the availability of and access to multi-hazard early warning systems and disaster risk information and assessments.

C.2.2 How does the project tackle identified common challenges and/or opportunities and what is new about the approach the project takes?

Please describe new solutions that will be developed during the project and/or existing solutions that will be adopted and implemented during the project lifetime. Describe also in what way the approach goes beyond existing practice in the sector/programme area/participating countries.

The Digital Plan project will allow in the first instance all the PPs territories and then those of the entire program area to be able to find a single information point whenever needed in the event of an emergency, with information that can be easily conveyed to other components of the rescue chain as well as citizens to be more effective and ready in emergency response.

Nowadays in PPs territories, emergency planning is relegated to documents in PDF format, otherwise paper, so there are enormous difficulties in communicating and transferring information, applying emergency procedures, and in emergency management itself.

Having digital planning breaks down every wall of communication, indeed it activates actual channels of information transit, building communication bridges between administrations, agencies, and citizens.

The digitization methodology, defined and tested through full-scale operations, will be exportable to other territories in the program area. Furthermore, with this digitization operation, best practices already operational in some areas of the PPs will certainly emerge which can be replicated in the PPs. The basic objective in the creation of the emergency plans digitization platform will be to identify the key points of emergency planning in order to be able to standardize them for all those who want to use the platform in the future as well and to minimize the planning parts today occupied by endless descriptions of many pages of documents, but which have no value in the event of a catastrophic event.

Another common challenge will be to identify IoT sensor kits, already available or to be designed and developed, integrating them into the decision support platform. IoT sensors will not replace the sensors used today for alerts but will supplement them to better understand the phenomena, especially the extreme ones, whose data is often weak or absent.

IoT sensors will improve threshold trigger values for decision support.

The digitization platform will be accompanied by an artificial intelligence module that will help interpret complex emergency scenarios.

With the aim, at the end of the project, of encouraging the use of PPs in the territories, the result of the decisions will be improved with the big data analyst.

The UN in its latest IPCC report on adaptation strategies to climate change dated 20.3.2023, declared adaptation to extreme phenomena to be strategic, since it is now clear, to the scientific world, the occurrence of events not witnessed in the past, for which unknown. With this project we will tend to record and learn more about events not known before, since the dissemination of information and knowledge also improves the ability to analyze and respond in the event of extreme events, "planning achieves its goal only if it is shared, known and applied"!!

C.2.3 Why is cross-border/transnational/inter-regional cooperation needed to achieve the project's objectives and result?

Please explain why the project objectives cannot be efficiently reached acting only on a national/regional /local level and/or describe what benefits the project partners/target groups/ project area/programme area gain in taking a cross-border/transnational/inter-regional approach.

The selected application themes, digitalization of CP Plans, represent an area of common interest for IT-HR programme territories, which present similar problems and demanding common solutions. Natural and man-made disasters, sure enough, do not recognize state borders and other artificial boundaries imposed by human conventions and treaties and different approaches, heterogeneous equipment and tactics, as well as diversities in legislative can represent an added value, if properly exploited to create a common strategic and operational platform, to increase the ability to effectively deal with them. The tackled issues fully meet the selected S.O. "Promoting climate change adaptation and disaster risk prevention, resilience, taking into account eco-system based approaches" as it will support crossborder actors in the improvement of the safety of respective territories, as well as in advancing the capacity of intervention in coping emergencies.

At Programme area level, the transnational cooperation will favour the achievement of project's objectives and results, since the adoption of CBC approach to stimulate the development of common tools and CP legislations as well as to prepare and implement raise awareness intervention to citizens, play a key role in strengthening administrative and technical capacities, being perceived as crucial in the project's area. In fact, as stressed by IT-HR Programme, the crossborder cooperation in this field can significantly contribute to Increase the safety, by enabling the involved regions to face the related challenges by integrating experiences and policies from other regions into

regional development models. The project therefore enhances protection in the programme area through extensive

information interchange at both vertical and horizontal directions.

The partners will benefit from the transnational process of exchange of know-how and from a common basis of knowledge and experience, which will help to individuate tailored solutions for enhancing the resilience from natural and industrial hazards within the involved territories.

Finally, also the target groups are expected to benefit from the transnational cooperation since they will have the chance to enrich their background thanks their proactive involvement in the project activities. Therefore, they will use the acquired knowledge and skills in the management tasks within the respective territories.

C.2.4 Who will benefit from your project outputs?

In the first column of each row, please select one of the pre-defined target groups from the drop-down list. In the second column explain in more detail exactly who will benefit from your project. For example, if you choose the category education, you need to explain which specific schools or groups of schools and in which territory.

Target Group	Specification
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Target Group	Specification
Local public authority	The local public authority targeted will benefit from project activities thanks to the development of a strategy and a system of monitoring of the territory in a semi-automatic way in order to be supported on making decisions during emergency situations, thanks to the prediction of emergency events or suggested for planning and preparatory actions. Regarding the needs of the local public authority, we identified that they already have emergency plans based on paper, thus these plans are not interactive and dynamic: this issue could cause challenges and problems during an emergency situation in order to organize a prompt intervention or to simply activate monitoring events. We expect to reach (other than project partners) 59 local public authorities in Molise, 39 municipalities in Majella National Park. AGRRA will involve 28 municipalities/cities; The Maiella National Park intends to actively involve Regional civil protection agency (Abruzzo Region) and at least 10 municipal administrations, together with the regional direction of firefighters for plans related to both avalanche and fire risk; Municipality of Fermo (MoF): Considering the area identified for project implementation, the MoF will involved at least two other municipalities (Porto S.Giorgio – Pedaso) in order to share the project and to implement common protocols to manage the emergencies. Moreover, the MoF will involve the Local Police Headquarter and the Province of Fermo; RERA will involve 22 municipalities; GAL Molise foresee to involve some municipalities included in the GAL area. The GAL area counts over 50 municipalities, but only few of them will be involved once they will be informed about the project.
Regional public authority	Regional Public Authority identified needs in order to be involved in the project are that during an emergency situation it's hard to find information about event scenarios, this is also emphasized by ONU Senday Framework for Disaster Risk Reduction 2015. Thanks to the development of the DSS platform, we will create an API connector in order to guarantee the exchange of data among the platform developed by the project and other platforms made by the regional authorities targeted. The municipality of Dubrovnik plans to target 1 regional authority, (Neretva county) Dubrovnik; AGRRA will involve one regional authority; RERA plans to involve 1 regional authority; UniVe: Università Ca' Foscari foresee to involve the Territory Protection and Safety Area, a Civil protection Department of Veneto Region; GAL Molise plans to involve the Civil Protection of Molise Region, Province of Campobasso and some departments of the Regional Authority: Agricultural, Public Works and Environmental departments

Target Group	Specification
Sectoral agency	We will target Agencies dealing with environmental topics and civil protection in order to get their data to be inserted in the DSS platform through an API connector. These agencies will have the chance to use the data of the platform in order to have a common exchange of information. Dubrovnik will plan to involve 2 sectoral agencies (Civil Protection Service Dubrovnik and Headquarters of Civil Protection of Dubrovnik-Neretva County); AGRRA will involve 2 sectoral agencies (ZADRA NOVA – Regional Agency and INOVAcija - The institution for development of competence, innovation and specialisation of Zadar County); RERA plans to involve Public institution for managing protected natural areas in the Split-Dalmatia County; GAL Molise plans to involve one sectoral agency: ARSARP Molise (Agency for Agricultural, Rural and Fisheries Development).
Interest groups including NGOs	Volunteers of Civil protection from all the regions of the project partnership will be involved in the pilot testing of the platform and will play also an important role in giving feedbacks useful for the completion of the Action Plan. Moreover CP volunteers association will take part to the Capacity building interventions. The platform developed by the project will include a database of volunteering resources available at local level in the territories involved in order to better manage local human resources. The project will involve N. volunteers association. The City of Dubrovnik will involve N. 1 volunteering associations of civil protection; AGRRA will involve 5 volunteers association; RERA will involve 10 volunteers association; GAL Molise will involve 3 volunteers association.
General public	General Public will be involved in all the dissemination and communication activities. Through the social media campaign and through project and project partners website the general public will be reached by all the DIGITAL Plan news. General public will also be invited to attend the INFO DAY. General public will benefit from the development of the platform thanks to the increased access to the information of emergency situations and due to the use of digital modern tools. The municipality of Dubrovnik will plan to involve 100 persons on INFO DAY and with printed and social media we can reach 1500 persons; AGRRA: Depending on the requirements for proof of inclusion, if a signature list from the info day is needed, plan to reach 100, and if the number of views on public portals and the number of printed publications in the case of publication in print media will be recognized, then could be reached min. 5000; RERA: if signature lists are needed, can reach approx. 200 , if the number of views on social networks, websites, public portals, printed media, etc. is acceptable, then can be reached approx. 7000; GAL Molise: over 150-200 people through public events and over thousand via social media and websites.

C.2.5 How does the project contribute to wider strategies and policies?

Please indicate to which strategies and policies your project will contribute. Then describe in what way you will contribute.

Strategy	Contribution
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Strategy	Contribution
EU Strategy for the Adriatic and Ionian Region	DIGITAL Plan main goal is to significantly enhance Civil Protection's capacity in reducing disasters, improving both countries' safety from risk. The achievement of the above goal contributes to the EUSAIR PILLAR 3 ENVIRONMENTAL QUALITY and the flagship initiative PROMOTION OF SUSTAINABLE GROWTH OF THE AI REGION BY IMPLEMENTING ICZM AND MSP. The project will contribute to integrate the ICZM with a digital civil protection plan and serves as an indicator of good environmental status of marine waters and impacting on mitigation and management of coastal hazards. In the other hand, the develop a Managed Service Provider contribute to the AI region within the mitigation and management of coastal area but also to the development of MSP in inner and rural areas to prevent hazard such landslides and avalanches due to extreme changes and climate impacts and monitoring the quality of hills and mountains environment. The digitization of civil protection plans and the inclusion of monitoring sensors in the most other-risk locations could enable not only monitoring for early forecasting but also could provide relevant data for making climate change adaptation and mitigation strategies. An enhanced safety of coastal territories from natural and man-made hazards contributes to protect and preserve their sustainable development (economic, sociocultural, and environmental). The actions steered to improve the monitoring and emergency management measures, foreseen in the project, provide a better withstand and contain the catastrophes on ecosystems of involved regions, contributing the protection and the preservation of their habitats and landscape elements. Cross cutting activity of Programme Italia-Croatia are fully covered with digitalization and circular economy by • improving the knowledge base for policies concerning climate change, biodiversity, fight against pollution and the related application tools; • climate change adaptation strategies.
European Green Deal	The Digital plan Project having as its objective the risk mitigation and monitoring the environmental performance is in synergy with the European Green Deal for the development of measures on adaptation to climate change, digitizing civil protection plans and thus making risk mapping of hazardous climate event of coastal areas and inland and mountainous areas of Italy and Croatia always available, and simultaneously data to carry out mitigation actions to protect biodiversity and ecosystem and reduce pollution. Project activities are focused on what is the EU Adaptation Strategy (2021) for local adaptation action responding to Climate ADAPT indicators such as Extreme Precipitation Days, extreme sea Level, high fire danger, river flood, oxygen concentrations in European coastal and marine waters and so on.

Strategy	Contribution
Other	In Italy, the climate decree was approved in 2019 and then a climate fund was established in 2023. The project DIGITAL PLAN is integrated into the fight against climate changes and the management of emergencies caused by the increased vulnerability of ecosystems degraded by pollution, especially by implementing synergistic actions with the Interministerial Table for Climate Emergencies: established to ensure the implementation of the National Strategic Program for Combating Climate Change and Improving Air Quality. Furthermore, to provide new environmental data by fostering Environmental Data Transparency: sensor data could complement the public database created by Ispra. In addition, the Digital Plan project goes to integrate the digital system for the IT alert app, the national public alert system of the civil protection department by providing the necessary integration to this service as explicitly stated on the website, in fact, it alert assumes " an awareness of the risks on the part of those who receive the message, which passes through knowledge of the territory, civil protection planning and behaviors to be adopted in emergency situations." Digitizing civil defense plans could facilitate the understanding of risks and their distribution within the territory.
Other	ROP Molise 2021 /2027 aims through specific research and development actions to implement actions aimed at solving social and environmental problems in the region and is developed in PO 1 - A Smarter Europe; PO 2 - A Greener Europe; PO 3 - A More Connected Europe; PO 4 - A More Social Europe; and PO 5 - A Europe Closer to Citizens. The specific focus of these actions revolves around the theme of environmental sustainability and research and development. Preservation of protected areas and reduction of pollution, production of energy from renewable sources and energy efficiency, support for local public authorities to adopt innovative systems, and strengthening of regional and local governance for the development of better skills to bodies related to the implementation of European funds.
Other	Croatian National Development Strategy until 2030 is based on the competitive economic potential and recognized development challenges at the regional, national, European and global levels. One of its main priorities is 4 Environment. In point 1.1.3 Safeguard against environmental and climate change risks the project Digital Plan synergize with the Croatian strategy that aim to mitigate environmental pollution for land and water, and reduce and mitigate the "Extreme weather events related to climate change are also changing the distribution of disease vectors and having a negative impact on health." Digitalization of CP plan will help develop policies "to protect the environment – be it clean air or clean water or well-functioning waste management systems– and reduce the climate change impacts improve health and the quality of life of citizens."

Strategy	Contribution
Other	The Sendai Framework for Disaster Risk Reduction (2015-2030) is an international document adopted by UN member states on 15 March 2015. The Sendai Framework sets out four specific priorities for action: Understanding disaster risk; Strengthening disaster risk management; Investing in disaster risk reduction for resilience; Improve disaster preparedness for effective response and better recovery, rehabilitation and reconstruction. The DIGITAL PLAN project aims at activating actions that can directly and indirectly stimulate the four priorities for action of the Sendai Framework. As a matter of fact, through the development and implementation of digital tools it will be possible to analyse the territory where the platform will be made operational by analysing the intrinsic hazards of the territory and the potential disaster risk in relation to what is present on that same territory ($\text{Risk} = \text{Danger} \times \text{Exposed Value}$) it will be possible to improve the citizen's perception of potential risks, analyse critical points and stimulate pathways to hazard reduction through action and planning, and finally to stimulate preparedness for response by making information accessible through digital tools to the population of the future. The European Union places environmental policies at the centre of a new development strategy based on sustainability and efficient use of resources. In this perspective, the environment acquires a new centrality and, at the same time, takes on a cross-cutting character with other public policies, first and foremost territorial and energy policies. Europe is increasingly adopting measures and conclusions expressing concern about the intensification of extreme weather events caused by climate change. These events are becoming more frequent, intense and long-lasting. Projects such as Digital Plan goes in this direction, aiming to increase the resilience of communities and the EU as a whole.

C.2.6 Which synergies with past or current EU and other projects or initiatives will the project make use of?

Project or Initiative	Synergy
Local Development Plan: Development of educational actions and activation and development of resilience in local communities and implementation of civil protection plans. Action 19.2.5 - Leader Programme	This action is part of Local Development Plan implemented by GAL Molise verso il 2000. GAL Molise managed the call for proposal for Municipalities of internal areas of Molise region . The call topic was that of helping small municipalities in making local civil protection plans. This could represent a good starting point for the implementation of Digital Plan project.
E-CITIJENS	The project funded in the framework of previous call Italy-Croatia. The project developed a series of tools and methodologies in order to acquire valuable knowledge for the creation of CP plans
TRANSCPEARLYWARNING	Transnational Civil Protection EARLY WARNING System - The main goal of the project is to equip the civil protection institutions of the countries of the ADRION region with a highly innovative transnational platform for early warning of danger, whose functions and processes will be used in different functional centers and operating rooms of civil protection, and will work with a common early warning regulatory system that contains common procedures and rules for managing early warning of hazards based on uniformity and similarity. https://transcpearlywarning.adrioninterreg.eu/
ADRIACLIM	Climate change information, monitoring and management tools for adaptation strategies in Adriatic coastal areas - Improvement of existing climate change monitoring systems by encouraging the development of strategic documents and adaptation plans to current changes. https://www.italy-croatia.eu/web/adriacлим

C.2.7 How does the project build on available knowledge?

Please describe the experiences/lessons learned that the project draws on, and other available knowledge the project capitalises on.

The project aims at building a Civil Protection Plan (CP) Digitalization model based on an analysis of existing CP plans, their regulatory frameworks and procedures, involved stakeholders, processes, and relevant data. It represents a conceptual meta-model and comprises knowledge of the risk management domain concerning natural and man-made risks, such as the EM-DAT database. A solid methodology will be utilized concerning elaborating this meta-model, which has previously been used in other domains in the framework of other projects. Participation in projects such as TRANSCPEARLYWARNING, the various technical assistances in civil protection projects, and the results also of the E-Citizens project have shown the importance of common platforms to reduce risk levels and at the same time the importance of having awareness-raising actions as a culture of emergency management is needed. With this project, we want to go even more into the specifics of emergency management by directly involving the municipalities and in particular their civil protection plans as there was a realization that this represents the focal point for effective emergency management.

The project it's also based on the experience made by GAL MOLISE implementing it's own Local Development Plan financed by LEADER programme (EARDF) through the measure " Development of educational actions and activation and development of resilience in local communities and implementation of civil protection plans. Action 19.2.5". GAL MOLISE financed more then 20 civil protection plans updating in local municipalities and tools to inform local population in case of emergency situation. The experiences collected in implementing this local action has been used as starting point for the project idea development and sharing among project partners.

C.3 Project partnership

Describe the structure of your partnership and explain why these partners are needed to implement the project and to achieve project objectives. What is the contribution of each partner to the project?

The partnership is composed of Local Public authorities and technical local research institutes. Public Authorities will be directly involved in the development of the activities for the digitalization of CP Plans by delivering all the necessary support to the technical partners that will be in charge of developing mainly the digitalization processes.

LP Gal Molise has a relevant experience in the elaboration of Civil protection Plans as it developed actions in order to foster the adoption of plans by several municipalities of the Molise Region. GAL Molise will coordinate the activities of all the partners and ensure smooth management and communication with the MA. Gal Molise will further contribute to the project by supporting, on one hand, the technical partners in developing specific digitalization activities and on the other hand it will guide also the other Public Authorities in the adoption of new CP PLANS.

PP2 AGRRA has the thematic skills in homogenizing procedures and processes in its area of interest. PP2 will contribute to the development of all Wps, mainly it will support the creation of a database, map, and data useful for the implementation of WP1 and WP2. AGRRA will also play an active role in the delivery of the pilot and the capacity intervention(WP3) and it will contribute to the elaboration of the action plan (WP3).

PP3 Maiella National Park has expertise on the existing project as it has trained and trained personnel for cooperation activities in civil protection scenarios. For this reason, it will contribute to the delivery of the pilot sessions as well as in the Capacity Building interventions. Moreover, PP3 will be in charge of gathering the necessary data related to its territory (Abruzzo Region) needed for the implementation of the platform and for the digitalization of the CP Plans.

PP4 University of Venice will act as one of the technical partners of the project. The Partner will give the necessary expertise in developing the platform and giving instructions for the collection of data and info. The University of Venice will also contribute to the elaboration of the strategic plan and MoU (WP4).

PP5 City of Dubrovnik will use all the knowledge acquired during the implementation of the E-Citizens project and it will be involved in the implementation of all activities of the project, both in terms of communication & dissemination as well as those related to the thematic objectives. Within the project scope, CoD will share its knowledge and local expertise in terms of competence-building programs, networking activities, and the creation of platforms of cooperation between different stakeholders. Through its wide network of contacts, the CoD will contribute to the dissemination of project activities.

PP6 RERA S.D. is a regional development agency and interdisciplinary institution established by Split-Dalmatia County (a regional self-government body) to prepare and implement projects related to regional development. Once the platform is developed, PI RERA S.D. will organize training courses on the use of the platform for the staff of the entities involved in drafting the civil protection plan.

Through the testing phase of the project, PI RERA S.D. will organize/take part in the process of installing IoT sensors in the area of Split-Dalmatia County in order to enable communication with the platform and improve decision support with collected data in real time.

PP7 FESB has a vast team of highly qualified experts with multidisciplinary skills and experience in managing EU projects (co)financed in the framework of different programs. Experienced in founded projects, will participate in all main activities of the project proposal. It will act in parallel with the University of Venice for the implementation of the platform and the technical specification needed. Moreover, FESB will actively contribute to the elaboration of the Action Plan.

PP8 Municipality of Fermo will contribute to the implementation process of the project in all main activities. As a local authority, it will help in the elaboration of the Digital Plan and it will also contribute to the delivery of the capacity-building interventions and pilot deployment. MoF will also give a contribution for the elaboration of the action Plan.

C.4 Project work plan

Number	Work package name
1	Digitalization model of civil protection plans and IoT EDSS Platform Development
2	Pilot studies and Capacity Building
3	Development of Cross Border Strategy and Action plan

Work package 1

Work package title

Digitalization model of civil protection plans and IoT EDSS Platform Development

Objectives

Your objectives should be:

- realistic and achievable by the end of the project;
- specific (who needs project outputs delivered in this work package, and in which territory);
- measurable – indicate the change you are aiming for.

Define one project specific objective that will be achieved when all activities in this work package are implemented and outputs delivered.

WP1 aims to develop a cross border model for civil protection plan digitalization. It will be based on a set of activities, starting from collection of data from civil protection plans, selecting the risks affecting the plans, the emergency flow charts, open data sources like public and private platforms, websites and webcams, to carry out at preliminary analysis of the needs of each individual PPs and to study the local civil protection plans. Furthermore, WP1 also focuses on the development of a scalable and capitalizable IT platform that can achieve several goals: (i) digitization of civil protection plans; (ii) access to geolocated open data sources and IoT sensors; (iii) manage synthetic georeferenced environmental data. Given the ongoing impact of climate change and its potential to increase the frequency and severity of extreme weather events, a key component of the platform will involve conducting multivariate statistical analyses.

Think about the communication objective that will contribute to the achievement of the specific objective. Communication objectives aim at changes in a target audience's behaviour, knowledge or belief.

All the development phases of the platform will be based on meetings and sharing of content between the PPs.

The initial part of the project will be very important in terms of communication as there will be the launch event and there it will be crucial to explain the goals of the project and especially the importance of creating digitized civil defense plans. Following the launch event, a press conference will be organized with the aim of spreading the intentions of the project as much as possible. However, social media and technology dissemination channels will be activated at this stage, and timelines will be defined as well as the communication strategy presented. Emphasis will also be given to the phase of staff training and sharing of DSS development methodologies to be as inclusive as possible with respect to the actors and stakeholders of the Digitized Civil Protection Plan. A dedicated event will be delivered after the 3rd project meeting in order to present the created map.

Activities

Activity 1.1

Title

Collection of Civil Protection Plans local data

Activity 1.1	
Start period	Period 1, 1 - 6
End period	Period 1, 1 - 6
Description	LP1 in collaboration with PP4 and PP8 will develop a common template to collect the data of Civil Protection Plans of all partners involved, including the identification of risks affecting the areas to be uploaded in the platform developed under WP2. The partners will select the main risks to be integrated into the EDSS platform based on the identified risks inside the civil protection plan, at least one for each partner and not more than three. The data collected will also include the communication, decisional and organizational flow established in case of emergency by the PPs. LP1, PP2, PP3, PP5, PP6, and PP7 will complete the provided template and identify at least one civil protection plan to be digitized and included in the EDSS platform.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 1.1			
Running number	Deliverable title	Description	Delivery period
D.1.1.1	Report on Civil Protection Plan Data to be digitized	An analysis of civil protection plans of LP1, PP2, PP3, PP5, PP6, and PP8, including the risks, the decisional, and organizational flow and the main components of the plans.	Period 1, 1 - 6

Activity 1.2	
Title	Development of an Online cartographic database
Start period	Period 1, 1 - 6
End period	Period 2, 7 - 12
Description	LP1 in collaboration with PP4 and PP7 will create a template to collect local territorial geolocalized data and identify Emergency Points of Interest (E-Pol), such as emergency operational centers, dangerous areas, emergency areas, helicopter landing areas,

Activity 1.2	
	and others. The PPs will be provided with the template to fill in the requested data in vector or raster format. LP1, PP2, PP3, PP5, PP6, and PP8 will complete the template with the required data in the specified format. LP1, with support of external providers, will develop the online cartographic database. The developed database will be structured according to thematic sections, describing the territory, risks, and emergency management put in place. The database will be connected to the EDSS platform through standard interdata connectors (API) and used by the platform as the primary source of information. LP1 will be responsible for developing the database software.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 1.2			
Running number	Deliverable title	Description	Delivery period
D.1.2.1	Online cartographic database	An online cartographic database that will include thematic sections, describing the territory, risks, E-Pol and emergency management put in place inside the areas covered by civil protection plans.	Period 2, 7 - 12

Activity 1.3	
Title	Identification of cross border open data
Start period	Period 2, 7 - 12
End period	Period 2, 7 - 12
Description	LP1, in collaboration with PP4 and PP7, will provide the PPs with a template to be filled with a source of open data (API) that will be connected to the platform to support the EDSS functionality. LP1, PP2, PP3, PP5, PP6, and PP8 will complete the template with the requested data in the specified format. The data sources to be identified must be functional for emergency management and decision-making processes.

Activity 1.3	
	The data will be collected from various sources, including sensors and information sources from previous projects, public and private platforms, websites, webcams, etc., that are already existing and put in place in partner areas.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 1.3			
Running number	Deliverable title	Description	Delivery period
D.1.3.1	Report on open data sources	A report listing open data sources for emergency management and decision making process	Period 2 , 7 - 12

Activity 1.4	
Title	Development of guidelines to digitalize civil protection plans
Start period	Period 2, 7 - 12
End period	Period 2, 7 - 12
Description	PP4 and PP7 will lead the coordination of an activity to develop a comprehensive document that outlines the steps identified under Activities 1.1, 1.2, and 1.3. This document will serve as a guide for municipalities and public authorities on how to successfully digitize their civil protection plans and how to access the services provided by the platform developed under WP2. In addition, this document will ensure the sustainability and capitalization of the platform beyond the project's end. LP1, PP2, PP3, PP5, PP6, and PP8 will provide support in developing the document.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 1.4			
Running number	Deliverable title	Description	Delivery period
D.1.4.1	Guidelines on Civil Protection Plan Digitalization	A guide for municipalities and public authorities staff members on how to successfully digitalize their civil protection plans and how to access the services provided by the IoT Decision Support System based Platform.	Period 3 , 13 - 18

Activity 1.5	
Title	Development of Internet of Things Decision Support System Platform
Start period	Period 1, 1 - 6
End period	Period 5, 25 - 30
Description	LP1 will coordinate activity relates to develop a series of software modules, which firstly will be developed and tested individually then integrated into a single web enabled platform based on functional and technical specifications (WP2).The platform will be also tested applying pilot actions with IoT sensors. Subcontracted by public procurement managed by LP1, software houses will carry out the entire process of development and testing. The platform will include modules such as feed aggregator, cartographic representation of risk scenarios & hazardous event, elements of emergency planning included in DB plan of activity 1.1, 1.2 and 1.2, user graphic interfaces. The web interface will have layered components that will be accessible by different users with different roles (public and private); the access privileges will define the components that each user can see and eventually modify. The software architecture of the DSS will be based on a cloud micro-services approach. LP will produce the technical and user manuals of the platform. PP7 will make a training set (training contents and tutorials) to staff of local authorities that will use the platform to manage civil protection plans digitalized.
Partner(s) involved	GAL Molise, UNIVE, FESB

Deliverables 1.5			
Running number	Deliverable title	Description	Delivery period
D.1.5.1	IoT DSS Platform	All the source codes and libraries developed to implement the single modules and functionalities. The installation configuration policies to deploy the micro-services on a cloud infrastructure.	Period 5 , 25 - 30
D.1.5.2	Technical and User manual	The set will contain the operating instructions to use the platform by the Civil Protection operators. It'll provide all technical and procedural information for entering data sets, upgrade data, upgrade thought. It will also have a first level of support to resolve any issues that may arise.	Period 5 , 25 - 30
D.1.5.3	Training set	The set will contain tutorials, both face to face and webinar version, and instances for the civil protection user. It will be articulated on the lifecycle phases of platform usage, starting from data input to the information and communication to field teams.	Period 5 , 25 - 30

Activity 1.6	
Title	Project communication and media strategy
Start period	Period 1, 1 - 6
End period	Period 1, 1 - 6
Description	The project communication strategy will accomplish its overall objective, providing a consistent internal and external communication then positively influencing local, regional, crossborder and European Target Groups. Actions for this purpose will be taken to share, disseminate and assure access to information on the project goals, outputs and results in a coordinated way, during and after the whole project lifetime, using the most appropriate feedback mechanisms. The communication strategy will be consistent at two levels: Internal level aiming at continuously sharing information among the partners to update them about ongoing activities to avoid duplications and misunderstandings. Different communication channels (as emails, memorandums, phone calls, Skype sessions, videoconferences and reports) will be opened depending on what types of communication partners have access in a specific

Activity 1.6	
	situation. External level to Programme and Target Groups will use diversified channel of communication depending by the specific audience: Programme, website and participation in conference and seminars.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 1.6			
Running number	Deliverable title	Description	Delivery period
D.1.6.1	Project Communication and Media Strategy	A communication strategy of organized and targeted communication and dissemination activities based on: analysis of project's strengths, weaknesses, opportunities and threats ; definition of project SMART goals to achieve; identification of target audience and tailored messages	Period 1 , 1 - 6
D.1.6.2	Press Conferences and Releases	8 Meetings with newspapers and local radios and Video TV aside the Kick Off meeting	Period 1 , 1 - 6

Activity 1.7	
Title	Functional and technical specifications of IoT DSS
Start period	Period 2, 7 - 12
End period	Period 3, 13 - 18
Description	LP, supported by PP4 and PP7, will implement the (IoT) Internet of Things (DSS) Decision Support System hardware and software design, defining hardware and software technical-applicative specifications, including the definition of the IoT sensors technical details to be connected to the platform. It will analyze and define first of all the platform functions, such as integration of open data sources (probes, sensors, social networks) and operators' in/output video interfaces and thereafter: (i) define interconnections with existing databases, used by emergency services of both countries; (ii) develop interconnection bridges between the

Activity 1.7	various technical languages to align them in a single layer of data processing; (iii) draw the communication, decisional, and organizational flow; (iiii) define interoperability with IoT sensors. An IoT middleware that can collect and enable connectivity between the sensors and the platform itself will be interconnected to the web-based plan digitisation platform. The IoT sensors will be able to send data and/or connect to the internet network in a variety of ways, so using different connections (e.g. wifi, 4G, 5G, bluetooth, zigbee), in order to homogenise the incoming data to the platform and initiate the data analysis processes, an API gateway will have to be created to act as a standard connector to the platform. In the initial project activities, LP, PP4 and PP7 will produce technical documents, after detailed comparisons, useful to define the communication protocols, minimum standards and technical specifications to establish what will be the minimum functions to be guaranteed on the user side that will have to be deployed and the minimum application front end indications. This part will then be transferred to all the PPs as it will be transversal to the activities of all the PPs to connect the platform that will implement LP to the sensors that will be chosen and installed by the PPs according to the risks to be monitored. Therefore, all PPs will have to know in advance the connection standards to the platform and the relevant protocols to connect their sensors with ease to the platform. LP with the platform provider will produce a technical document to integrate the PPs' networks into the platform. the integration will be done by LP, but the preparation of the APIs to the technical document to be done by LP will be the responsibility of each PP. The IoT infrastructure including sensors and management software will be leveraged to enable 2 types of actions: -define a set of software analysis and alarm triggering according the policies and thresholds defined during the analysis phases with contribution of all PP. - implement a defined set of automatic actions to be triggered by IoT actuators on the field inside buildings or in open areas. Ex. driving traffic light,
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Activity 1.7	
	automatic opening of gates, showing messages on advertisement panels.
Partner(s) involved	GAL Molise, UNIVE, FESB

Deliverables 1.7			
Running number	Deliverable title	Description	Delivery period
D.1.7.1	Functional and technical specifications of IoT DSS based platform	A document that defines a set of requirements that the platform must meet. The functional specifications describes the behavior of the application software system in terms of various inputs that can be provided to the software system.	Period 3, 13 - 18

Activity 1.8	
Title	Online interactive and dynamic map
Start period	Period 2, 7 - 12
End period	Period 3, 13 - 18
Description	A study phase will be conducted to analyze the data collected under WP1, which will be inserted into the platform. The data will be standardized and published on an interactive online map within the platform. LP1 will be responsible for developing the Interactive Map. The map will be accessible to all PPs through a private account and will include all the data gathered under WP1. The map will be tailored to the competencies area of the digitized civil protection plan. It will be online and publicly accessible, but citizens and interested stakeholders will not be able to interact with or modify it. This will enable the public to more easily access the civil protection plans of the municipalities or public authorities involved.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 1.8			
Running number	Deliverable title	Description	Delivery period
D.1.8.1	Interactive Map	The map will be accessible to all PPs through a private account and will include all the data gathered under WP1. The map will be tailored to the competencies area of the digitalized civil protection plan	Period 3 , 13 - 18
D.1.8.2	MAP dissemination	The map will be presented to the CP stakeholder in dedicated event aside the 3rd Project Meeting	Period 3 , 13 - 18

Activity 1.9	
Title	Development of a flow chart emergency common structure
Start period	Period 2, 7 - 12
End period	Period 3, 13 - 18
Description	The objective of this activity is to develop a common decisional flow chart emergency format for the platform, which will be connected to one to three identified risks by the PPs in A1.1. LP1 will provide a template to structure decision-making and operational flow charts, which will be included in the platform, supplemented with information from open data institutional databases and synthetic data produced through the cross-border study of specific risks and data from IoT experimental sensors developed and implemented in WP3. The alert thresholds will be extracted based on the civil protection plans currently in use at the PPs and identified under A1.1 for the construction of specific DSSs to support emergency managers and decision makers in the event of an event. Each PP defines, according detailed territory study and risk assessment, the alerts and actions thresholds monitored throughout sensors and triggered throughout actuators. Ex: the flood risk: the rain sensor will be deployed in defined area, the alert threshold will be defined as 55mm/1h When the system detects the overcoming of the threshold triggers a message on the advertisement panel to advise the people regarding the specific risk. Finally, the platform will allow possible connections with other platforms/interoperability, such as civil

Activity 1.9	
	protection center operations room management, already in use at the PPs, structured for the human and instrumental resource management phase and the activation of the management phases of the emergency. Within WP2, training courses will be activated for the staff of the entities involved in drafting and managing the civil protection plan.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 1.9			
Running number	Deliverable title	Description	Delivery period
D.1.9.1	Flow chart emergency common structure	Common decisional flow chart emergency format for the platform. IT will be connected to one to three identified risks by the PPs.	Period 3 , 13 - 18

Activity 1.10	
Title	Realization IoT sensors and their integration into the IT platform
Start period	Period 3, 13 - 18
End period	Period 3, 13 - 18
Description	The Internet of Things (IoT) is a network of physical devices that communicate with each other and the internet to transfer data without human intervention. IoT sensors are small, connected devices that detect and transmit data about their environment to other devices or systems. IoT sensors can measure a wide range of parameters, such as temperature, humidity, light, motion, pressure, and sound. They are usually equipped with a microcontroller, a wireless communication module, and one or more sensors that detect physical changes in their environment. The IoT infrastructure is based on "middleware oriented" IoT Gateway or Bridge devices, i.e. capable of managing communication towards the Middleware Layer. The purpose of the architecture is to simplify the basic electronics and communicate with the Cloud in a simple and effective way.

Activity 1.10	
	IoT middleware is software that provides services to enable communication, coordination and control of IoT devices. It acts as an intermediary between the physical devices, applications, cloud services and data sources to facilitate the flow of data, allowing for secure and reliable communication among all the components. IoT middleware also assists with the management of device data, including data storage, data analysis, data transformation and device monitoring. PP4 will assess the needs of all PPs in terms of technological features for the components (sensors and actuators) through a questionnaire and coordinating with PP7 will define a common technical framework to define the integration strategy of the components itself inside the IoT platform by LP1. This activity will complete the definition of all the IoT kits with all the components needed to address the detection of defined risks. PP4, with the supervision of the LP, will lead the development of the IoT sensors based on the outcome of task A1.7 and their integration into the IT platform. The sensors' development will happen through two main paths: (i) the realization of IoT sensors based on standard PCB technologies and commercial sensors; (ii) the prototyping of RFID tags on biodegradable substrates like chitosan that are derived from biowaste upcycling. PP4 will outsource the development of strand (i) to an external company working on wireless sensor networks. Instead, strand (ii) is more exploratory being based on new emerging materials and technologies and will be accomplished internally by PP4. In fact, the Department of Molecular Science and Nanosystems (DSMN) at PP4 has experience and competences in green chemistry and thin film electronics and it has access to all necessary facilities to realize RFID sensors on biodegradable polymers through thin film and printed technologies. It is worth mentioning, that despite such advanced developments are not among the main objectives of the project, they promise to pave the way to green and sustainable IoT devices, particularly relevant in environmental monitoring applications.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 1.10

Running number	Deliverable title	Description	Delivery period
D.1.10.1	Report on the design, realization and integration of IoT sensors	The document will describe the design and assembly of the various sensors (both on standard and green technologies) and their integration with the platform to provide real-time accurate data. The report will include also the IoT kit requirements and descriptions.	Period 3 , 13 - 18

Outputs**Output 1.1**

Output Title	IoT DSS Platform
Programme Output Indicator	RCO116_2.1: Jointly developed solutions
Measurement Unit	solutions
Target Value	1,00
Delivery period	Period 5, 25 - 30
Output Description	An IoT-based platform with data connectors integrates Civil Protection Plans, aiding local authorities in risk management and decision-making during emergencies. Accessible to the public and authorities, it features a jointly developed database linked to the platform, developed by LP1. An interactive map showcases relevant information, enhancing public accessibility to civil protection plans.

Investments

Work package 2

Work package title

Pilot studies and Capacity Building

Objectives

Your objectives should be:

- realistic and achievable by the end of the project;
- specific (who needs project outputs delivered in this work package, and in which territory);
- measurable – indicate the change you are aiming for.

Define one project specific objective that will be achieved when all activities in this work package are implemented and outputs delivered.

The main goal of WP2 is the deployment of pilot studies and development of a IoT Wallet: a web-based platform used to communicate with IoT-based sensing devices. Six pilot studies will be designed and launched on the partners' territorial areas by installing the IoT sensors and by simulating relevant emergency situations. By integrating IoT sensors with other urban infrastructure, the platform can help creating more efficient and effective civil protection solutions. The IoT Wallet is a valuable tool for organizations to better manage and respond to emergencies, while also improving their ability to collect and analyze critical data. In fact, it allows the collection and analysis of data from multiple sensors and protocols in one place. With its graphical display capabilities, users can easily visualize the data and monitor changes in real-time. The user management feature also makes it easy to assign sensors to specific users and define the parameters that the sensor system measures.

Think about the communication objective that will contribute to the achievement of the specific objective. Communication objectives aim at changes in a target audience's behaviour, knowledge or belief.

At this stage of the project, the communication part is very important because through the capacity building and training actions and that through the info days, the project will begin to become mainstream and therefore the target groups that will be affected will be other than the partnership. For this reason, it will be crucial to better communicate the ongoing activities especially during the info days where the first results of the project will also be communicated to a general audience.

Activities

Activity 2.1	
Title	Identification of pilot area for testing activities and connected IoT sensors specifications
Start period	Period 3, 13 - 18
End period	Period 4, 19 - 24

Activity 2.1	
Description	LP1, PP2, PP3, PP5, PP6 and PP8 will identify, within the area of action of the civil protection plan, a territorial limited part where there is a specific risk, identified under activity 1.1. PP4 and PP7 will define technical specifications of the innovative IoT sensors to be installed and related to the risks and the area covered. The IoT sensors will be based on Green and Sustainable materials in order to not impact on the area of the project. PP4 and PP7 will produce a set of IoT sensors toolkit applicable in all the same risks situation in the programme area in order to facilitate also potential involvement of new organizations interested to use the platform and to install IoT sensors at local level.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 2.1			
Running number	Deliverable title	Description	Delivery period
D.2.1.1	IoT sensors toolkit for emergency situations	A toolkit that clarify which kind of IoT sensor apply based on different risks.	Period 4, 19 - 24

Activity 2.2	
Title	Pilot deployment
Start period	Period 4, 19 - 24
End period	Period 4, 19 - 24
Description	This task will drive n° 6 pilot local deployments in the partner territories, aiming at running and testing the created platform in parallel with in use monitoring systems through installation of appropriate tools, according to local context and needs. After installation of IoT sensors, a simulation of emergency situation will be implement in the 6 pilot territories. Scenario-based training/simulations related to emergency event identified will be a part of pilot deployment. The 6 pilot sites will be: 1 Site in GAL MOLISE territory (among 59 Municipalities part of the Local Action Group); 1site in AGRRA territory; 1site in Maiella National park; 1 site in the City of

Activity 2.2	
	Dubrovnik; 1 site RERA territory and last 1 in the Municipality of Fermo.
Partner(s) involved	GAL Molise, AGRRA, PNM, CoD, RERA, MoF

Deliverables 2.2			
Running number	Deliverable title	Description	Delivery period
D.2.2.1	PILOT REPORT	6 Pilot report. Each pilot delivered will be reported in a template provided by the technicals partners (PP4 E PP7)	Period 4 , 19 - 24

Activity 2.3	
Title	Operational training set.
Start period	Period 3, 13 - 18
End period	Period 3, 13 - 18
Description	The set will contain tutorials guidelines and instances for the municipalities and public authorities staff members. It will be articulated on the lifecycle phases of platform usage and used for local training courses. The training set will be divided in training modules and will be developed by LP1, PP4 and PP7 and share with PPs in order to get feedback.
Partner(s) involved	GAL Molise, AGRRA, PNM, CoD, RERA, MoF

Deliverables 2.3			
Running number	Deliverable title	Description	Delivery period
D.2.3.1	Training set	A tool box containing operational manual and guidelines on the platform usage	Period 4, 19 - 24

Activity 2.4	
Title	Capacity building intervention
Start period	Period 4, 19 - 24

Activity 2.4	
End period	Period 4, 19 - 24
Description	Capacity building intervention targeted to staff of local authorities to train staff about platform usage. Each local authority with the support of the national technical partner will organize a capacity intervention in order to acquire the knowledge of the platform usage and to provide feedback in order to finalize the operational manual. The capacity building intervention will be training-workshop delivered by LP1-PP2-PP3-PP5-PP6-PP8. PP4 and PP7 will provide guidelines/templates on how develop the training/workshop activity. At least 5 participants will be selected by each partner to take part in the training.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 2.4			
Running number	Deliverable title	Description	Delivery period
D.2.4.1	Capacity Building	6 Capacity building intervention to spread and make the acquired knowledge and learnt lessons during the test of civil protection early warning system accessible and exploitable by policy makers and stakeholders	Period 4 , 19 - 24

Activity 2.5	
Title	CP - INFO DAY
Start period	Period 2, 7 - 12
End period	Period 4, 19 - 24
Description	The aim of the activity is to disseminate the first results of the project. Info day will be organized in both countries and will spread the acquired knowledge and will foster the adoption of digital plans as they will act multiplier event. Soon after each piloting and capacity building intervention there will be 6 Info Days targeted to CP

Activity 2.5	
	stakeholders in order to present the platform and to show the main functionalities . The occasion will be useful also to present the digitalized CP plans
Partner(s) involved	GAL Molise, AGRRA, PNM, CoD, RERA, MoF

Deliverables 2.5			
Running number	Deliverable title	Description	Delivery period
D.2.5.1	INFO DAY	6 Info Days targeted to CP stakeholders in order to present the platform and to show the main functionalities .	Period 4 , 19 - 24

Outputs

Output 2.1	
Output Title	Pilot deployment
Programme Output Indicator	RC084_2.1: Pilot actions developed jointly and implemented in projects
Measurement Unit	pilot actions
Target Value	6,00
Delivery period	Period 4, 19 - 24
Output Description	n° 6 pilot local deployments in the partner territories, aiming at running and testing the created platform in parallel with in use monitoring systems through installation of IoT appropriate tools, according to local context and needs thanks to a simulation of emergency situation. The 6 pilot sites will be: 1 Site in GAL MOLISE Matese area; 1site in AGRRA territory; 1site in Maiella National park; 1 site in the City of Dubrovnik; 1 site RERA territory and last 1 in Municipality of Fermo.
Output 2.2	
Output Title	Platform capacity building
Programme Output Indicator	RC085_2.1: Participations in joint training schemes
Measurement Unit	participations
Target Value	30,00

Output 2.2	
Delivery period	Period 4, 19 - 24
Output Description	Capacity building intervention targeted to staff of local authorities to train staff about platform usage. The capacity building intervention will be training-workshop delivered by LP1-PP2-PP3-PP5-PP6-PP8. PP4 and PP7 will provide guidelines/templates on how develop the training/workshop activity. At least 5 participants will be selected by each partner to take part in the training.

Investments

Work package 3

Work package title

Development of Cross Border Strategy and Action plan

Objectives

Your objectives should be:

- realistic and achievable by the end of the project;
- specific (who needs project outputs delivered in this work package, and in which territory);
- measurable – indicate the change you are aiming for.

Define one project specific objective that will be achieved when all activities in this work package are implemented and outputs delivered.

The results of the pilot studies will provide guidelines for the definition of a cross-border strategy for the digitization of civil protection plans and of an emergency action plan. The WP3 aims to release the IoT DSS platform and to promote the adoption of cross-border civil protection plans not only to Italian and Croatian organizations but also to other EU countries.

The above objective will be achieved by: (i) revising and optimizing the IoT DSS Platforms to make it cost-effective and easy-to-adopt and use; (ii) building an action plan for the adoption of digitalization methodology of CP plan. Secondly by spreading and making the acquired knowledge and learnt lessons accessible and exploitable by policy makers and stakeholders through the activation of a capacity building intervention.

Think about the communication objective that will contribute to the achievement of the specific objective. Communication objectives aim at changes in a target audience's behaviour, knowledge or belief.

The last phase of the project features a number of activities that lend themselves greatly to dissemination. In fact, the CP seminars will aim to disseminate the results of the project but even more so will aim to showcase the action plan created. In fact, the document needs the widest possible dissemination as it represents a document that can also serve as a model for other organizations therefore it should be communicated clearly and effectively. To this end it was decided to also have a final conference in Dubrovnik where the action plan will be presented and the MoU will be signed.

Activities

Activity 3.1	
Title	Optimization of IoT DSS platform
Start period	Period 4, 19 - 24
End period	Period 5, 25 - 30

Activity 3.1	
Description	Activity relates to tune and release IoT DSS based platform and development of a Cross Border Strategy for Civil Protection Plans Digitization and an Action Plan addressed to local, regional, national and EU policy makers that contains set of policy recommendations to enhance CP Plans with EDSS platform functionality. At beginning LP1, PP4 and PP8 will carry out the individuated technical enhancement and amendments to platform to tune it.
Partner(s) involved	GAL Molise, UNIVE, MoF

Deliverables 3.1

Running number	Deliverable title	Description	Delivery period
D.3.1.1	Tuned and released IoT DSS platform	Final integration strategies and technical interfaces between IoT middleware and DSS platform. Through this activity the final DSS release will be delivered and the user accounts for each involved PP stakeholder will be created.	Period 5 , 25 - 30

Activity 3.2

Title	Action Plan for Civil Protection Plans Digitization
Start period	Period 4, 19 - 24
End period	Period 5, 25 - 30
Description	The project will include an action plan with the crossborder digitisation guidelines of an emergency plan and the technical specification for IoT sensor kits to be integrated into the platform. The action plan will contain the checklist for the steps to be taken in the initial digitisation phases, a kind of manual for data homogenisation and assimilation. This phase of the action plan is fundamental to the strategic planning process and helps to improve contingency planning because in structuring the data, one will understand what is available and what needs to be integrated. The basic components of the project action plan should include:

Activity 3.2	
	- a well-defined description of the objectives to be achieved - the workflow to be implemented to achieve the defined objectives - the personnel and components of each individual structure that will implement the project, with their tasks and actions to be carried out - The milestones in the digitisation of a civil protection plan and the list of indispensable data to achieve the minimum result will be defined -The check list of actions, data, information that will be missing and that will have to be realised or retrieved in order to achieve the results defined - The project benchmarks to understand and measure the progress of digitization and evaluate the results. - Iconography, diagrams, workflows in order to make everyone understand the key steps for achieving the objectives The action plan should also contain an internal revision and update plan to be implemented at fixed intervals or when changes are recorded to adapt and meet the latest requirements. The action plan will help to protect and prepare for possible obstacles and unforeseen events that may occur during the activities, according to the principle of always meeting milestones without losing the project objectives, even in adverse conditions. The action plan will have a two fold purpose: to define the key steps for the digitization of civil protection plans and, more generally, emergency plans, in the first place, but it will also be the cognitive basis on which the Memorandum of Understanding at the end of the project will be grafted, committing the PPs to continue with the mission, in their territories, of disseminating the culture of civil protection and knowledge and analysis of risks for greater resilience of the territories themselves in an era marked by climate change and the inability to understand increasingly extreme events.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 3.2			
Running number	Deliverable title	Description	Delivery period
D.3.2.1	Action Plan	The action plan will contain the checklist for the steps to be taken in the initial digitisation phases, a kind of manual for data homogenisation and assimilation.	Period 5, 25 - 30

Activity 3.3	
Title	Memorandum of Understanding
Start period	Period 5, 25 - 30
End period	Period 5, 25 - 30
Description	The Memorandum of understanding will be the strategy to promote the adoption of digitization methodology of civil protection and emergency plan. The Memorandum will also be a signed agreement between involved public bodies in the project, which expresses a convergence of will among them to indicate the intended common line of action to promote policies that promote the adoption of digital CP Action Plan and Strategy. Memorandum of Understanding will be the baseline document for action plan implementation. All PPs will take part in this activity: LP1 will share a first draft of the memorandum with PPs.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 3.3			
Running number	Deliverable title	Description	Delivery period
D.3.3.1	Memorandum of Understanding	Agreement between public bodies involved bodies in the project, which expresses a convergence of will among them to indicate the intended common line of action to promote policies that can harmonize and improve the digitalization of CP Plans	Period 5, 25 - 30

Activity 3.4	
Title	Digital cp Seminar
Start period	Period 5, 25 - 30
End period	Period 5, 25 - 30
Description	6 Seminars will be organized by LP-PP2-PP3- PP5-PP6-PP8. The aim of the seminars will be that of transferring the lesson learnt included in the Action Plan to public and institutional stakeholders.
Partner(s) involved	GAL Molise, AGRRA, PNM, CoD, RERA, MoF

Deliverables 3.4			
Running number	Deliverable title	Description	Delivery period
D.3.4.1	DIGIT CP SEMINARS	6 Seminar will be organized in order to transfer lesson learnt from piloting	Period 5, 25 - 30

Activity 3.5	
Title	Final Conference
Start period	Period 5, 25 - 30
End period	Period 5, 25 - 30
Description	A final Conference will be Organized on Month 29 in Dubrovnik. The Conference will present the project results and during the Conference will be also signed by all project partners the Memorandum of Understanding.
Partner(s) involved	GAL Molise, AGRRA, PNM, UNIVE, CoD, RERA, FESB, MoF

Deliverables 3.5			
Running number	Deliverable title	Description	Delivery period
D.3.5.1	FINAL CON	The Conference will present the project results and during the	Period 5

Deliverables 3.5			
Running number	Deliverable title	Description	Delivery period
	REFERENCE	Conference will be also signed by all project partners the Memorandum of Understanding	, 25 - 30

Outputs

Output 3.1	
Output Title	Action Plan for Civil Protection Plans Digitization
Programme Output Indicator	RC083_2.1: Strategies and action plans jointly developed
Measurement Unit	strategy/action plan
Target Value	1,00
Delivery period	Period 5, 25 - 30
Output Description	The project will develop joint strategies and action plans, including a Strategy on Civil Protection and Emergency Plans Digitalization. A Memorandum of Understanding will commit project partners to continue promoting civil protection culture. An accompanying Action Plan will translate the strategy into actionable steps, including cross-border digitization guidelines and technical specifications for IoT sensor kits.
Output 3.2	
Output Title	Final Conference
Programme Output Indicator	RC0115_2.1: Public events across borders jointly organised
Measurement Unit	events
Target Value	1,00
Delivery period	Period 5, 25 - 30
Output Description	Public event across borders jointly organised to promote Strategy and Action Plan for Civil Protection and Emergency Plans digitalization p will be organised by the partners in the supported project. The public event will be a joint action by partners and advertised through relevant means, to the general public of the area covered by the

Output 3.2	
	programme. Public event will have participants from Croatia and Italy.

Investments

C.5 Project Results

What do you expect to change because of the activities you plan to implement and the outputs you plan to deliver? Please take a look at the programme result indicators and select those that you will contribute to.

Result 1	
Programme result indicator	RCR79_2.1: Joint strategies and action plans taken up by organisations
Measurement unit	joint strategy/action plan
Baseline	0,00
Target value	2,00
Delivery period	Period 5, 25 - 30
Result description	A Strategy and an Action Plan with the crossborder digitisation guidelines of an emergency plan and the technical specification for IoT sensor kits adopted by PPs. The Jointly developed Strategy on Civil Protection and Emergency Plans Digitalization aims at establishing a targeted way to achieve a goal-oriented process and to capitalize results of the project. The action plan will have a two fold purpose: to define the key steps for the digitization of civil protection plans and, more generally, emergency plans, in the first place, but it will also be the cognitive basis on which the Memorandum of Understanding at the end of the project will be drafted, committing the PPs to continue with the mission, in their territories, of disseminating the culture of civil protection and knowledge and analysis of risks for greater resilience of the territories themselves in an era marked by climate change and the inability to understand increasingly extreme events.

C.6 Project Time Plan

	Period 1	Period 2	Period 3	Period 4	Period 5	After End
WP1 Digitalization model of civil protection...						
A1.1 Collection of Civil Protection Plan...	D1.1.1					
A1.2 Development of an Online cartograph...		D1.2.1				
A1.3 Identification of cross border ope...		D1.3.1				
A1.4 Development of guidelines to digita...			D1.4.1			
A1.5 Development of Internet of Things D...					D1.5.1	
					D1.5.2	
					D1.5.3	
A1.6 Project communication and media str...	D1.6.1					
	D1.6.2					
A1.7 Functional and technical specificat...			D1.7.1			
A1.8 Online interactive and dynamic map			D1.8.1			
			D1.8.2			
A1.9 Development of a flow chart emergen...			D1.9.1			
A1.10 Realization IoT sensors and their ...			D1.10.1			
RCO116_2.1					O1.1	
WP2 Pilot studies and Capacity Building						
A2.1 Identification of pilot area for t...				D2.1.1		
A2.2 Pilot deployment				D2.2.1		
A2.3 Operational training set.				D2.3.1		
A2.4 Capacity building intervention				D2.4.1		
A2.5 CP - INFO DAY				D2.5.1		

RCO84_2.1				O2.1		
RCO85_2.1				O2.2		
WP3 Development of Cross Border Strategy an...						
A3.1 Optimization of IoT DSS platform					D3.1.1	
A3.2 Action Plan for Civil Protection Pl...					D3.2.1	
A3.3 Memorandum of Understanding					D3.3.1	
A3.4 Digital cp Seminar					D3.4.1	
A3.5 Final Conference					D3.5.1	
RCO115_2.1					O3.2	
RCO83_2.1					O3.1	
Result indicator						
RCR79_2.1					R1	

C.7 Project management

In addition to the thematic work you will do in your project, you will need time and resources for coordination and internal communication. Please describe below how you plan to organise yourself to ensure the project work runs smoothly.

C.7.1 How will you coordinate your project?

Who will be responsible for coordination? Will you have any other management structures (e.g., thematic groups, WP managers)? How will the internal communication work?

Project management and coordination supervised by LP GAL Molise in collaboration with all Project Partners (special emphasis on WP leading partners, who will be responsible for coordination during their designated WPs). Steering Committee will be appointed composed of all partners and will be in charge of supervising and managing administrative and financial issues. Internal communication among partners will be ensured by LP and supported by a financial manager and a representative of all PPs. The Project Management Unit will perform systematic quality control ensuring in-time and high-quality progress reporting process. Risk of involving partners with different culture, language and work habits, that could make difficult the project management and coordination, will be mitigated by wide experience of Molise in coordinating international projects and by capacity of all partners to work in international contexts. Project's management decisive body is the Steering Committee composed of one member per PP and chaired by the Project Manager to be designated by the LP. SC is responsible for ensuring overall project execution is in line with the Grant Agreement. SC will meet 5 times to approve state of implementation of project to manage main activities, critical tasks and supervise key outcomes. The overall Project Coordination is assigned to Project's Management Unit (PMU) led by PM who coordinates project activities. PMU members are: Financial Manager (FM) to be designated by the LP, Communication Manager (CM) who also acts and a Result Amplification Coordinator (RAC) to be designated by PP2; Tests and Pilots Coordinator (TPC) to be designated by LP Quality Coordinator (QC) to be designated by LP. PM will prepares the Project Handbook (PH), which outlines Project Management Plans (MPs) -Coordination, Financial, Communications, Quality, Testing/piloting, Carbon footprint Offsetting, Data Collecting and Protection Plans- approved by SC in its 1st meeting. Project Work Plan (PWP) is base on which the project is managed and executed. At local level, project's structure mirrors that at PCU level: each PPs area will appoint a Local PM, as the main contact person for the PM. LPM will be assisted by local FM and CM. The LPMs are fully responsible for implementation of project tasks in their area. The RPC will draw their own partner's progress report. All detailed rules will be outlined and agreed at the 1st SC. Pilots and Testing Implementation Plan (PTIP) within the PMU, defines and documents project's pilots and tests, their implementation and evaluation processes and PPs responsibilities and control activities. PTIP also outlines planning of pilot test processes, preparation needed, testing, evaluation, potential challenges prepared by Tests and Pilots Coordinator (TPC), in collaboration with PC. Monitoring is about measuring ongoing activities and assessing project performance against project plans. Controlling is about identifying and taking corrective action to address deviations from plans and to address issues and risks. PCP will provide Internal communication (IC) strategy and guidelines based on setting up a mailing list and a contact database, updating contact list database and guidelines as project progresses, conducting communication sessions in project meeting events to suggest most effective means of communication, usage of an online repository for project documentation and outputs, keeping informed team members on progress and planning current priorities. Main communication channels will be online: Virtual meetings to support key process implementation and objectives achievement, E-mail communication. IC will also be ensured through web-based channels such as online meetings through Zoom, Google, Drive file sharing as well as WhatsApp or phone calls for instant communication if needed. Project meetings in line with specific

project phases and milestones will be organized. One week before meeting PC will provide meeting agenda together with documents to be discussed. After each meeting, partners will receive minutes, conclusions and steps forward. In order to get a smoothly management and development of the Project each Work Package will have a responsible. In particular WP1 will be guided by Molise verso il 2000; WP2 will be leaded by FESB, WP3 will be guided by PP4 - University of Venice and finally the responsible for WP4 will be PP6.

Quantitative indicators: 6 face to face project meetings (kick off meeting in Campobasso; 2nd meeting in Zara, 3rd meeting in Maiella National Park identified site, 4th meeting in Split, 5th meeting in Fermo and Final Conference in Dubrovnik - with 14 participants per meeting (70 in total); 12 online PM meetings with min. 7 participants attending (84 in total); 85% target of set deadlines respected; 85% target positive evaluation on project results based; gender balance of participants respected; positive feedback on events implemented; sustainable use of resources facilitated.

C.7.2 Which measures will you take to ensure quality in your project?

Describe specific approaches and processes and responsible partners. If you plan to have any type of project evaluation, please describe its purpose and scope here.

The Quality Management Plan (QMP) is an integral part of WP activities; it defines and documents the project's quality requirements, the quality management approach, process, and responsibilities. It also outlines the quality assurance and control activities undertaken throughout the project. QMP also outlines projects contribution to horizontal principles such as: Sustainable development, Equal opportunities and non-discrimination, Equality between men and women. All quality-related activities are well designed and planned. A configuration management procedure will be also documented in the QMP. LP1 prepares the QMP. He/she will be supported by Project Quality Assurance Coordinator (PQAC) to be designated by LP1 and will have as inputs the Project Handbook and Project Work Plan. QMP will determine the QMs objectives and characteristics by reviewing project deliverables, success criteria, approach and other specific requirements (e.g. security requirements) as described in the Project Handbook. It will define approval criteria for phase exit reviews or for other key project management milestones. QMP is based on artefacts, tools and techniques that will be used for quality planning and quality assurance and control (Quality Review Checklist). Quality Assurance will be a fundamental feature of project management efforts. It will allow Partners to continuously monitor the project and assess the progress of its schedule, the quality of the activities carried out and the achievement of projects goals, results, and outcomes. A planning and management tool (e.g. Trello, Admin Project, GDrive) will be used to monitor the actual state to profile the scorecard for the project with progress updates shared with all partners, allowing early identification of any off-schedule conditions that could affect subsequent tasks and activities. The monitoring activities will focus on assessing the overall levels of participation, the quality and timely delivery of results /activities, as well as the latter contribution to the achievement of the set goals, with a view to providing useful information for planning of future follow-up through quality surveys (QA Manager Questionnaire and QA Partner Questionnaire). Indeed, for the purposes of ensuring the sustainable continuation of the project after the formal end of funding, the continuous monitoring will provide useful information as to the quality and effectiveness of the activity implemented, on the impact achieved and its arguable evolution and on the qualitative and quantitative elements qualifying the project as successful/unsuccessful, thus providing indications regarding potential integration /improvement. An Evaluation strategy will be developed in cooperation with the project partners. The evaluation process will be reported in 3 Quality Assurance (QA) reports, as defined in the Quality Management Plan (at the end of phase 1 -WP1), at the middle of phase 2 and at the end of phase 2. The overall evaluation will be based on an analysis of the project outputs; observation of interactions during project activities; surveys of the team members; evaluation forms from participants in the external project events. The following quality indicators will be used to measure success. Further indicators are indicated in the impact and implementation parts of the proposal. • Target group positive feedback and satisfaction Min. 80% • Target group self-assessed improvement Min. 55% • Dissemination and communication activities positive feedback Min. 75% • Process indicators: Implementation of tasks 85%

C.7.3 What will be the general approach you will follow to communicate about your project?

Who will coordinate project communication and how will he/she ensure the involvement of all partners? How will the communication function contribute to transfer your project results? Please note that all communication activities should be included in the work packages, as an integral part of your project. There is no need to repeat this information here.

The Communications Management Strategy (CMS) is a standalone document of PMPs, defines and

documents:

- the project's Communication Strategy (CS) that supports the achievement of the project objectives.
- the project's strategy for efficient Internal Communication.

Communication Manager (CM) to be designated by PP2, and supported by PM, prepares the CMS having as inputs the PH and PWP. CM is responsible for whole project communication activities. He /she will also be the Coordinator for Results Amplification of the project, to actively participate in the activities of the thematic community that project belongs to. To support the achievement of the project objectives, CMP will determine the objectives and activities for delivering information, transferring knowledge and expertise to project's target audiences. The overall Communication Strategy (CS) of the project aims at: a) rendering the project, a thoroughly communicated project, well known by all relevant local, regional, national, and European policy makers and stakeholders. b) persuading the target groups to which the project is directed about its usefulness, effectiveness and added value and to mobilize support project objectives. c) to be closely linked to the Results Amplification Strategy of the Programme, so to allow the improvement of its capitalization and governance approaches, thus, to ensure a stronger impact of project results. CS proposes activities that support achievement of project objectives with a specific strategy (messages/ media) for each target group in each phase, including an indicative time plan detailing when certain activities would best be carried out. CS evaluation will involve Stakeholders and citizens and it will be conducted both in terms of result indicators and in terms of success of the project objectives. Communication activities will support rolling out the project findings to wider target groups enabling external learning as a key to achieve the ultimate project results. Project identity and digital promotion materials will be designed and produced to help partners communicate about the project. Posters, project roll-up, launching leaflet and two promo videos will present the project and its objectives. EU and Programme branding illustrative elements will be clearly and visibly displayed in all published materials and/or activities addressed to the public. Regular updates on the project's progress and outcomes will be provided to the wider audience through social media channels and e-newsletters. Project will use and regularly update the website provided by the Programme. All project partners will publish on their institutional websites a short description of the operation in their national language. Two interregional conferences (kick-off and final event) will be key communication activities too. Kick off meeting aiming at introducing the project/generating interest towards its topic will be organized by LP. Second Interregional event (final conference) will provide a complex picture on the project's achievements and final results and will be organised by PP5 in Dubrovnik with full support of CM. Both events will have bigger media coverage: press conferences will be organized and press releases will be prepared after events. Key communication messages will be clear and to the point. As responsible partner for communication PP2 will provide effective and quality communication activities. Communication activities will follow each project stage. Their Communication Manager (CM) designs, manages and monitors all activities. In doing that she/he is responsible for checking statistics/indicators, collecting evaluations, preparing reports and sharing them with partners. She/he works in collaboration with the Project Manager to carry out activities detailed below in the AF. Strategic activities of communication are essential to raise awareness and ensure active involvement of all partners, stakeholders, interested and targeted interested audience. Communication strategy will contribute to transfer or project results providing a set of communication tools capable of informing stakeholders and a wider audience throughout project circle. A participate and informed community, which interacts through appropriate communication tools, is a basis to raise public awareness and achieve long lasting project results. • With carefully designed, attractive communication tools that will raise people's interest and awareness and will create a clear identity for the project. • With regular, up-to-date and clear messages and news on social media, projects website, articles in local media (contributed by all project partners) etc all information will spread towards a wider audience. • With strong engagement of national, regional, international and European level stakeholders in the process of interregional exchange, achievements of expected results will be supported.

C.7.4 How do you foresee the financial management of the project and reporting procedures for activities and budget (within the partnership and towards the programme)?

Define responsibilities, deadlines in financial flows, reporting flows, project related transfers, reclaims, etc.

The Financial Management Plan (FMP) is a standalone document of PMPs, defines and documents: the project's Financial Management (FM) that supports the achievement of the project objectives. Financial Manager (FM) to be designated by LP, and supported by PC, prepares the FMP having as inputs the PH and PWP. FM coordinates, supervises and provides guidance to the Partner's FM (PFM). Together, the FM and the PFM form the Project Finance Team (PFT) which will monitor project spending and deliver the spending forecast to the program secretariat. In close cooperation with the PPs first level controllers, will draw a Financial Management Plan (FMP). Among others, the FMP will fix deadlines for sending regional payment claims to certification and deadlines for partners to send their certified payment claims to the FM. The deadlines will consider the approximate time frame needed for first level controls to take place. The overall process will be closely monitored by the PM who remains responsible for the overall implementation of the project. All project activities are planned to be cost-effective. All management and coordination activities are planned to be cost-effective—virtual meetings are envisaged for the general organization of the project. Furthermore, the planned face-to face events will benefit from the premises of the responsible partners to ensure the efficiency of the budget, and of course in line with sustainable and greener transportation possibilities. Regarding the resources to be committed within the dissemination activities, the partner organization has agreed to be cost-effective at maximum, utilizing the funds for dissemination and putting emphasis on benefiting from their internal resources, networks, and communication channels. The Financial Manager (FM) will be responsible for accounting for cost and effort deviations and presenting the consortium with options for getting the project back on budget. The financial performance of the project will be measured and managed through comparisons between the actual progress and the calendar and cost baselines. Activity effort is detailed at the task level and costs at the WP level..

C.7.5 Cooperation criteria

Please select all cooperation criteria that apply to your project and describe how you will fulfil them.

Cooperation criteria		Description
Joint development	Yes	The partners jointly developed the project. LP communicated the project idea to the PPs that first agreed on it and then contributed to its development identifying their particular interests and roles according to their nature and expertise and capitalizing some of them previous involvement in other projects. Skype partner meetings and on the occasion of INTERREG ITA CROAZIA events and info days helped overall coordination and successful project development.
Joint implementation	Yes	Project Partners are involved in different WPs according to their skills and expertise, so that the project will be jointly implemented. In each WP a partner has in charge the coordination of the activities of the different partners in a coherent way so as to grant the project successful and timely implementation with quality of results. LP coordinates and supervises the overall project implementation activities and cooperation between WPs, guided by the project Steering Committee
Joint staffing	Yes	All partners will define the staff members to involve in project implementation. Each partner will appoint one coordinator and one financial supervisor along with its staff that will be involved in the project implementation. A Steering Committee (SC) will be assembled comprising one member per partner. The SC and the individual WP joint implementation teams comprising staff members of the different partners represent the project core joint staff.
Joint financing	Yes	The project will be jointly financed. Each partner contributes to project financing with its expenditures to carry out the assigned activities and ensure its commitment to the common effort. Individual WP budget is broken down to the different project partner budgets according to their involvement and activities. Each partner budget consists of ERDF and national cofinancing, thus contributing to the overall joint project budget

C.7.6 Horizontal principles

Please indicate which type of contribution to horizontal principles applies to the project, and justify your choice.

Horizontal principles	Type of contribution	Description of contribution
Sustainable development	positive effects	The project contributes to make the Adriatic areas more prepared against natural disaster, and it will focus on sustainable development as a key strategy to ensure the prevention of natural disasters. Through their activities, the partners in Adriatic area will raise environmental awareness on issues through common instruments, policies, strategies, and action plans already developed to validate concrete solutions to be transferred to a larger number of beneficiaries and territories.
Equal opportunities and non-discrimination	positive effects	All the project's activities will be carried out with an inclusive approach, accomplishing both internal tasks and addressed to external activities with an approach characterized from non-discrimination and equal opportunities. Actually the partners will build the project team without any discrimination because of race, color, national or ethnic origin, age, religion, disability, sex, sexual orientation, gender identity and expression, or any other characteristic protected under applicable laws.
Equality between men and women	positive effects	The composition of the project staff and external groups and other targets groups, will fully respect the principle of gender equality. In fact, the planned activities don't imply any form of discrimination between men and women and will be implemented without any discrimination due to sex, sexual orientation, gender identity and expression. It will promote neutral language in all project material and communication.

C.8 Long-term plans

As a programme, we would like to support projects that have a long-lasting effect in the territory and those who will benefit from them. Please describe below what you will do to ensure this.

C.8.1 Ownership

Please describe who will ensure the financial and institutional support for the outputs/deliverables developed by the project (e.g., tools), and explain how these outputs/deliverables will be integrated in the work of the institutions.

The 2 Technical partners of the Project will ensure the maintenance of the platform delivered after the project ends. Both organizations had skilled personnel able to guarantee also further development of the tool. The pilots delivered will act as a model and for this reason the deliverable and in particular, the structure and the curriculum can be easily integrated into the work of institutions as it represents a tested methodology on how to implement digital tools. Moreover, the action plan produced and the signing of the Memorandum of Understanding will commit all the partnership to integrate the work done into their organization both operational and institutional level.

C.8.2 Durability

Some outputs/deliverables should be used by relevant groups (project partners or others) after the project's lifetime, in order to have a lasting effect on the territory and the population. For example, new practices in urban transport need to be used by local authorities to have cleaner air in the city, and the whole population will benefit from this. Please describe how your outputs/deliverables will be used after the project ends and by whom.

Project main outputs durability is ascertained by the strong commitment of the project partners that hold ownership of them, while the WP T3 aiming at transferring knowledge and competences on the usability of the platform in partner countries and beyond by spreading and making the acquired knowledge and learnt lessons accessible and exploitable by regional and national policy makers and stakeholders through the implementation of regional/national seminars. Capitalization effort will result in a Memorandum of Understanding with interested stakeholders denoting their willingness to proceed in the necessary actions to influence the civil protection regulatory frameworks in their countries with reference to effective civil protection plans and leading to a permanent change in the Italy-Croatia area towards an EU cooperation harmonized paradigm. The project grants their durability during and after its implementation because they belong to CP bodies and citizens and represent: (i) the Operational instruments to enhance emergency management measures; (ii) the strengthening of EU Civil Protection Mechanism and both CP national chain of commands; (iv) permanent guidelines for any future relevant measures and actions.

The envisaged results: increased involvement of citizens and enhanced CP cross-border Coordination measures get stronger and durable the safety of ecosystems and population even after the end of the project.

Final transnational conference of the project in Venice is envisaged as an important capitalization event with the

project intends to utilize the Italy-Croatia Programme capitalization mechanism to further capitalize its outputs. In this context, it intends to actively participate Italy-Croatia capitalization events offering a further opportunity for its output transfer beyond project geographical context and timeframe.

C.8.3 Transferability

Some outputs/deliverables that you will deliver could be adapted or further developed to be used by other target groups or in other territories. What will you do to make sure that relevant groups are aware of your outputs/deliverables and are able to use them?

The features of all outputs will ensure a wide transferability, since it could be easily used by Civil Protection and public authorities from other regions in Adriatic Basin and beyond in facing the natural and man-made risks.

They indeed, produced by tested methodologies and monitor system, used methodologies in fact (deployed in different crossborder pilot sites) represent an all-purpose background that can be easily used by other territories, with the necessary adjustment to their needs and specific context.