EUR-OPA MAJOR HAZARDS AGREEMENT
ACCORD EUR-OPA RISQUES MAJEURS

COUNCIL OF EUROPE
CONSEIL DE L'EUROPE

Strasbourg, 16 June 2022 AP/CAT(2022)02

EUROPEAN AND MEDITERRANEAN MAJOR HAZARDS AGREEMENT (EUR-OPA)

Compilation of Network of Specialised Centres' 2022 Project Proposals

Document prepared by the Secretariat
of the EUR-OPA Major Hazards Agreement

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Cyprus – BeSafeNet

Protect yourself from hazards

PRIORITY FOR ACTION OF THE MEDIUM TERM PLAN: [*Please select one or more priorities*]

☒ Using scientific and technological knowledge to better assess evolving risks and adapt accordingly the resilience strategies.

☐ Developing cooperation among all decision-makers to better define authorities' adequate role in DRR.

☒ Promoting risk culture among population (children, adults and groups with special vulnerability).

☒ Fostering population's active participation (as individuals and as community) to DRR.

NAME OF THE CENTRE	*BeSafeNet - European Centre for Disaster Awareness*
COUNTRY	*Cyprus*
REPRESENTED BY	*Demetris Christou, Ministry of Interior, Republic of Cyprus*
TITLE OF THE PROJECT	*BeSafeNet - Protect yourself from hazards*

1. **Project background**

   [Maximum 12 lines. What is the context and which problems/situation led to this project? Why it is important to carry out this project? Which issue(s) do you hope to address with this project? Why does it need/justify funding? If this is the continuation of a previously implemented project, describe past achievements and new objectives]

BeSafeNet is a tool for promoting risk culture among populations. Natural and technological disasters cause great human and economic losses. We cannot prevent many of them but there is a way to minimize the risk of disaster by sharing internationally valid and reliable information on the nature, causes and consequences of natural and technological disasters. A wide distribution of such information will help people better understand the potential risks and consequently better protect themselves against disasters.

2. **Expected Results**

   [Maximum 12 lines. Describe the expected results and give examples of the:

   a) *Impact (e.g. vulnerable groups in prone-risk areas know how to behave in an emergency. Implementation of new measures. Increased consultations with local and national government. Increased networking. etc.)*
   b) *Intermediate outcomes (e.g. trainers now train vulnerable groups on major hazards)*
   c) *Immediate outcomes (e.g. training of trainers on major hazards and vulnerable groups)]*

2022

To reach the aim of the website which is to become a multilingual educational tool in the hands of teachers focusing on risk prevention, preparedness, immediate reaction and rehabilitation.

- BeSafeNet to become an interactive tool.
- Enroll as many participant teams to the Olympiad 2022 Competition as possible
- Make a successful Olympiad 2022 competition.
- Make BeSafeNet website more popular among young people.
- Organize a memorable Winners Ceremony.
- Enrich content of the website

2023

To reach the aim of the website which is to become a multilingual educational tool in the hands of teachers focusing on risk prevention, preparedness, immediate reaction and rehabilitation.

- BeSafeNet to become an interactive tool.
- Enroll as many participant teams to the Olympiad 2022 Competition as possible.
- Make a successful Olympiad 2022 competition.
- Make BeSafeNet website more popular among young people.
- Organize a memorable Winners Ceremony.
- Enrich content of the website

3. **Deliverables (Outputs)**

[Maximum 12 lines. For example: workshop report, vulnerability maps, guidelines, recommendations, brochures, leaflets, development of websites, etc.]

2022

Coordinator Centre:
Statistics for the competition.
Dissemination of the Olympiad Competition.
Launch Olympiad 2022.
Memorable Winners Ceremony.
Update the website with improved content and new information.
Organize Olympiad 2023 and launch the registration.

Partner #1, #2, #3 centres:
Dissemination of the Olympiad Competition.
Re-write content and add new information.
Propose terms of reference when adding a new topic/ hazard (content, questions, glossary etc.) and the rules of development of MCQs.
Essays evaluation.
Translations.
Prepare the MCQs for next Olympiad.
Any other related task according to the needs of the project.

2023

Coordinator centre:
Statistics for the competition.
Dissemination of the Olympiad Competition.
Launch Olympiad 2023.
Memorable Winners Ceremony.
Update the website with improved content and new information.

Organize Olympiad 2024 and launch the registration.

Partner #1, #2, #3 centres:
Dissemination of the Olympiad Competition.
Re-write content and add new information.
Essays evaluation
Translations.
Prepare the MCQs for next Olympiad.

4. **Activities**

[Maximum 12 lines. Describe the detailed activities. What are you spending the funds on?]

2022

Coordinator Centre:

- Disseminate the Olympiad competition using digital posters, social media, Permanent Correspondents and Council's Networks, etc.
- Promote participation for the Olympiad.
- Organize the Olympiad competition.
- Essays evaluation.
- Winners Ceremony/Editorial Board meeting.
- Joint meeting of the Permanent correspondents and Director of the Specialized Centers.
- Upload Cultural Heritage/improved content.
- Develop website in order to accept new inputs

Partner #1, #2, #3 centres:

- Disseminate the Olympiad competition using digital posters, social media, Permanent Correspondents and Council's Networks, etc.
- Promote participation for the Olympiad.
- Essays evaluation.
- Winners Ceremony/Editorial Board meeting.
- Review/Rewrite the content of the website and add information about recent disasters
- Propose terms of reference when adding a new topic/ hazard (content, questions, glossary etc. and the rules of development of MCQs
- Translations.
- Prepare the MCQs for next Olympiad.

2023

Coordinator Centre:

• Disseminate the Olympiad competition using digital posters, social media, Permanent Correspondents and Council's Networks, etc.
• Promote participation for the Olympiad.
• Organize the Olympiad competition.
• Essays evaluation.
• Winners Ceremony/Editorial Board meeting.
• Joint meeting of the Permanent correspondents and Director of the Specialized Centers.
• Upload new content.
• Develop website in order to accept new inputs

Partner #1, #2, #3 centres:
• Disseminate the Olympiad competition using digital posters, social media, Permanent Correspondents and Council's Networks, etc.
• Promote participation for the Olympiad.
• Essays evaluation.
• Winners Ceremony/Editorial Board meeting.
• Review/Rewrite the content of the website and add information about recent disasters
• Translations
•Prepare the MCQs for next Olympiad

5. Budget

DURATION	2022 □	2023 □	
PARTNERS	BUDGET IN EURO	BUDGET IN EURO	TOTAL BUDGET 2022 – 2023
Coordinator Centre: BeSafeNet	€5000	€5000	€10000
Partner Centre 1: TESEC	€2000	€1500	€3500
Partner Centre 2: ICoD	€2000	€1500	€3500
Partner Centre 3: CERG	€2000	€1500	€3500

6. Target groups and community involvement

[Maximum 10 lines. Please describe which are the groups targeted by the project and the communities involved. How do you address gender equality in your project?]

The main aim of the BeSafeNet initiative is to better protect people and especially young people from hazards through an improved information process on the nature, causes and consequences of natural and technological hazards. A wide distribution of such knowledge will help people to better understand the potential risks and consequently to better protect themselves against them.

The BeSafeNet initiative represents an opportunity for networking to provide e-learning material on natural and technological hazards and related risks to all countries, distributing the best international experience on Emergency Management.

Georgia – GHHD

Application of nonlinear dynamics and machine learning methods to analysis of seismicity/strains in the region of Large Dams (using Enguri High Dam area) and developing modern monitoring equipment

PRIORITY FOR ACTION OF THE MEDIUM TERM PLAN: [*Please select one or more priorities*]

☒ Using scientific and technological knowledge to better assess evolving risks and adapt accordingly the resilience strategies.

☐ Developing cooperation among all decision-makers to better define authorities' adequate role in DRR.

☐ Promoting risk culture among population (children, adults and groups with special vulnerability).

☐ Fostering population's active participation (as individuals and as community) to DRR.

NAME OF THE CENTRE	Geodynamical Hazards of High Dams GHHD
COUNTRY	Georgia
REPRESENTED BY	Prof. Tamaz Chelidze
TITLE OF THE PROJECT	Application of nonlinear dynamics and machine learning methods to analysis of seismicity/strains in the region of Large Dams (using Enguri High Dam area) and developing modern monitoring equipment

1. Project background

[Maximum 12 lines. What is the context and which problems/situation led to this project? Why it is important to carry out this project? Which issue(s) do you hope to address with this project? Why does it need/justify funding? If this is the continuation of a previously implemented project, describe past achievements and new objectives]

Large dams are complex structures with a complex dynamic behavior. Engineers often are forced to assess dam safety based only on the traditional linear elasticity approach, which ignores nonlinear effects. These effects are very important for analysis of dam damage accumulation using available monitoring data. The problem of time-dependence of the dam structure to the varying water load can be solved using the modern theory of complex systems (nonlinear dynamics). It It is possible to derive characteristics of the whole unknown dynamics of a structure using few data sets of certain carefully selected representative parameter(s). Namely, we will use recurrence plots (RP), recurrence quantification analysis (RQA), mutual information (MI) and singular spectrum analysis (SSA) as well as machine learning (ML) for analysis of high arc dams' behavior using Enguri dam International Test Area in the frame of the International DAMAST (Dams and Seismicity) project (Germany, Georgia, Armenia).In 2022 the chapter for the Monograph "Dam Engineering" (IntechOpen) will be prepared.As the monitoring equipment of Enguri dam needs modernization, we'll try to develop the tilt/acceleration recording/transmiting equipment based on the modern MEMS technology.

2. Expected Results

[Maximum 12 lines. Describe the expected results and give examples of the:

d) Impact -

e) Intermediate outcomes

f) Immediate outcomes

2022

a) Impact - Development of new measures of high dams stability using nonlinear dynamics tools and new monitoring equipment. Preparation of chapter for the Monograph "Dam Engineering" (Publ. House InterOpen)

b) Intermediate outcomes Development of new methods of analysis of strains/seismicity in the area of large dams, testing the new monitoring equipment in the Enguri dam

c) Immediate outcomes Testing of new methods for analysis of complexity strains/seismic activity at Enguri high Dam before and after its construction, testing the new monitoring equipment in laboratory conditions

2023

a) Impact - Development of new measures of high dams stability using machine learning tools

b) Intermediate outcomes Development of new methods of analysis of strains/seismicity in the area of large dams, using machine learning tools

c) Immediate outcomes Testing of new methods for analysis of complexity of strains/seismic activity at Enguri high Dam before and after its construction, testing the new monitoring equipment in laboratory conditions

3. Deliverables (Outputs)

[Maximum 12 lines. For example: workshop report, vulnerability maps, guidelines, recommendations, brochures, leaflets, development of websites, etc.]

2022

Coordinator Centre:

Partner 1: GHHD

Application of new measures of high dams stability using nonlinear dynamics tools and compilation of guidelines
Preparation of chapter for the Monograph "Dam Engineering" (Publ. House InterOpen)
Testing the new strains/acceleration monitoring equipment in the Enguri dam

2023

Coordinator Centre:

Partner 1: GHHD

a) Development of new methods of analysis of strains/seismicity in the area of large dams, using machine learning tools

4. Activities

[Maximum 12 lines. Describe the detailed activities. What are you spending the funds on?]

2022

Coordinator Centre:

Partner 1: GHHD

Application of new measures of high dams stability using nonlinear dynamics tools and compilation of guidelines
Preparation of chapter for the Monograph "Dam Engineering" (Publ. House InterOpen)

Testing the new strains/acceleration monitoring equipment in the Enguri dam
2023 Coordinator Centre: Partner 1: GHHD **a)** *Development of new methods of analysis of strains/seismicity in the area of large dams, using machine learning tools*

5. Budget

DURATION	2022 □	2023 □	
PARTNERS	BUDGET IN EURO	BUDGET IN EURO	TOTAL BUDGET 2022 - 2023
Coordinator Centre: *[Name of coordinator centre]*			
Partner Centre 1: GHHD	*6000*	*6000*	*12000*

6. Target groups and community involvement

[Maximum 10 lines. Please describe which are the groups targeted by the project and the communities involved. How do you address gender equality in your project?]

The groups targeted by the project are people, populating the area of the Enguri river valley below the Enguri Dam. The communities involved are villages and rescue groups in the area. *The project is important to all genders involved.*

Germany – GFMC

Facilitation and preparation of the development on the "International Landscape Fire Management Framework"

PRIORITY FOR ACTION OF THE MEDIUM TERM PLAN:

☐ Using scientific and technological knowledge to better assess evolving risks and adapt accordingly the resilience strategies.

☒ Developing cooperation among all decision-makers to better define authorities' adequate role in DRR.

☐ Promoting risk culture among population (children, adults and groups with special vulnerability).

☐ Fostering population's active participation (as individuals and as community) to DRR.

NAME OF THE CENTRE	Global Fire Monitoring Center (GFMC)
COUNTRY	Germany
REPRESENTED BY	Johann Georg Goldammer, Director
TITLE OF THE PROJECT	Facilitation and preparation of the development on the "International Landscape Fire Management Framework"

1. Project background

Within the Member States of the Council of Europe and globally, wildfires constitute an unprecedented and growing threat to natural, cultural, rural, urban and industrial landscapes and society living therein. Collective international efforts are needed to address impacts of landscape fires that are of transboundary nature and currently affecting – at an unacceptable level – common global assets. Streamlining the effectiveness and efficiency of international cooperation towards enhancing governance in landscape fire management at local, national, regional and international level will require an international instrument. The Mid-term Review of the Sendai Framework for Disaster Risk Reduction and the Global Platform for Disaster Risk Reduction (GPDRR) 2022 provide an opportunity to formulate such an instrument. In continuation of previously implemented EUR-OPA funded and other projects and activities, the GFMC will prepare serve as initiator and facilitator the dialogue for the development of an international instrument tentatively called "International Landscape Fire Management Framework".

2. Expected Results

2022

Immediate outcomes: Interest of CoE Member States and intergovernmental organizations is generated to provide relevant inputs / proposals in support of the creation of an international instrument, tentatively called "International Landscape Fire Management Framework". The Mid-term Review of the Sendai Framework for Disaster Risk Reduction (initiated in 2021, ongoing in 2022-23) and the Global Platform for Disaster Risk Reduction (GPDRR) 2022 (Indonesia, May 2022) are the proposed platforms / mechanisms for placing the proposal in the UN system.

Intermediate outcomes: Discussion and possible statement or resolution of the UN General Assembly in the concluding phase of the Mid-term Review of the Sendai Framework for Disaster Risk Reduction (New York, May 2023).

2023

Impact: The overall impact of the envisaged International Framework will result in enhanced governance of land management with regard to increasing the resilience of natural and cultural landscapes and society living therein to wildfires. In support of this process, the project aims at supporting scientists and practitioners to compile and draft "International Principles for Integrated Landscape Fire Management Governance", which will provide guidance to countries and international organizations for the development of national and cross-boundary policies for landscape fire management and their application in practice.

3. **Deliverables (Outputs)**

2022

Coordinator Centre and Partners 1, 2 and 3:

Final report about activities in 2022 in cooperation with EUR-OPA and CoE Member States and other countries in addressing the theme of the "International Landscape Fire Management Framework" in the Mid-term Review of the Sendai Framework for Disaster Risk Reduction and the Global Platform for Disaster Risk Reduction (GPDRR) 2022.

2023

Coordinator Centre and Partners 1, 2 and 3:

Final report about activities in 2023 in cooperation with EUR-OPA and CoE Member States and other countries in discussing and preparing a possible statement or resolution of the UN General Assembly in the concluding phase of the Mid-term Review of the Sendai Framework for Disaster Risk Reduction (New York, May 2023).

4. **Activities**

[Maximum 12 lines. Describe the detailed activities. What are you spending the funds on?]

2022

Coordinator Centre and Partners 1, 2 and 3:

Work with governments of CoE Member States North Macedonia, Portugal, Switzerland and Ukraine as well as non-Member States – notably Mongolia and Indonesia – in preparing and submitting relevant inputs to the Mid-term Review of the Sendai Framework and GPDRR 2022.

2023

Coordinator Centre and Partners 1, 2 and 3:

Work with governments of CoE Member States North Macedonia, Portugal, Switzerland and Ukraine as well as non-Member States – notably Mongolia and Indonesia – in preparing and submitting relevant inputs to the Mid-term Review in preparation of the concluding phase of the Mid-term Review of the Sendai Framework for Disaster Risk Reduction (New York, May 2023).

5. Budget

DURATION	2022 ☒	2023 ☒	
PARTNERS	BUDGET IN EURO	BUDGET IN EURO	TOTAL BUDGET 2022 - 2023
Coordinator Centre: Global Fire Monitoring Center (GFMC)	€ 10.000,--	€ 10.000,--	€ 20.000,--
Partner Centre 1: Regional Fire Monitoring Center SE Europe / Caucasus (RFMC)	*Inputs will not require a budget; necessary expenses covered by GFMC*	*Inputs will not require a budget; necessary expenses covered by GFMC*	
Partner Centre 2: Regional Eastern Europe Fire Monitoring Center (REEFMC)	*Inputs will not require a budget; necessary expenses covered by GFMC*	*Inputs will not require a budget; necessary expenses covered by GFMC*	
Partner Centre 3: Regional Fire Management Resource Center – Central Asia Region (RFMRC-CAR)	*Inputs will not require a budget; necessary expenses covered by GFMC*	*Inputs will not require a budget; necessary expenses covered by GFMC*	

6. Target groups and community involvement

The target groups include:
(a) Country level: Countries will be encouraged / assisted in developing policies for integrated landscape fire management. This can be reached by improving governance of State authorities to plan and implement cross-sectoral and holistic approaches in land management and Integrated Landscape Fire Management with the overall aim of creating wildfire-resilient landscapes and society.

(b) Community / local level: National policies will be implemented primarily through involvement and active participation of local communities.

(c) International level: International donors shall be encouraged to support the endeavour of countries to implement the principles of Integrated Landscape Fire Management.

Greece - ECPFE

Inclusion of Vulnerable groups in Disaster Preparedness and Response for coping with emerging risks: Evacuation exercise including people with disabilities

☒ Using scientific and technological knowledge to better assess evolving risks and adapt accordingly the resilience strategies.

☐ Developing cooperation among all decision-makers to better define authorities' adequate role in DRR.

☒ Promoting risk culture among population (children, adults and groups with special vulnerability).

☒ Fostering population's active participation (as individuals and as community) to DRR.

NAME OF THE CENTRE	European Center for Prevention of Earthquakes (ECPFE)
COUNTRY	Greece
REPRESENTED BY	Dr Evangelia Linda PELLI
TITLE OF THE PROJECT	*Inclusion of Vulnerable groups in Disaster Preparedness and Response for coping with emerging risks: Evacuation exercise including people with disabilities*

1. Project background

The increased severity and frequency of extreme weather events that has been observed the recent years, as a result of the climate emergency, combined with the urbanization and the population growth has intensified the risks and hence, the urgency for anticipation and preparation against disasters risks seems crucial. Moreover, the COVID-19 pandemic crisis has augmented the challenges and difficulties for effective disaster risk management. It appears that complex emergencies will be the case for the future and therefore a multi-hazard risk approach might be necessary for copying with the relevant impacts.

Vulnerability of population can significantly affect the grade of injuries and losses in case of emergencies caused by natural and/or man-made disasters. For example, people with disabilities are considered vulnerable in disasters because they are rarely consulted on provisions for their safety, most of them are not prepared for disasters and probably they have not been consulted about their needs in an emergency.

In the above concept and aligned with the "Priority 1: Understanding disaster risk", as well as "Priority 4: Enhancing disaster preparedness" of the Sendai Framework for Disaster Risk Reduction 2015-2030, this project targets at supporting inclusive disaster preparedness and response; actual involvement of all the citizens in the disaster risk management cycle in order to strengthen community disaster resilience. ECFF and ECPFE have already participated in two joint projects focusing on emergency evacuation and people with disabilities. This new project will capitalize the results and outputs obtained so far, going forward by planning, organizing and running an evacuation exercise with the involvement of people with disabilities; the lessons learned will be provided.

2. Expected Results

2022

Impact

- Foster networking among academics, scientists, operational people, experts and people with disabilities

- Promote disaster preparedness among interested parties, such as individuals that take care of people/children with disabilities, special education teachers and of course people with disabilities, as well as educate them on safe evacuation procedures, by following specific practical guidelines.
- Raise awareness upon emerging risks for all the groups of population
- Enhancing disaster preparedness for effective response and "Build Back Better".

2023

Impact

- Exchange knowledge and hands on experience in rescuing people with impairments.
- Empower community engagement is the disaster management cycle for strengthening disaster resilience
- Create a network of people and organizations that share the same interest on emergency response for people with disabilities
- Prepare targeted response plans and implement inclusive evacuation exercises
- Promote inclusive active citizens' role in emergency preparedness and response - people-centred approach and local participation for effective disaster risk management

3. **Deliverables (Outputs)**
[Maximum 12 lines. For example: workshop report, vulnerability maps, guidelines, recommendations, brochures, leaflets, development of websites, etc.]

2022

ECFF: Workshop report - Prepare the evacuation scenario and the table-top exercise

ECPFE: Determination of accessibility issues that should be taken into account in the preparation of the evacuation actions that will take place in the second year of the project, concerning both the evacuation procedure itself and the warning of disabled persons during emergencies.

2023

ECFF: Report on the evacuation exercise's debriefing and on the lessons learned

ECPFE: Accessibility evaluation focusing on the obstacles encountered in the evacuation of the selected building through the use of a structured methodology, taking into account persons with sensory, mobility and mental disabilities. The evaluation will examine both the evacuation procedure itself and the warning of disabled persons during emergencies. The methodology used will be based on related checklists developed in the frame of relevant research projects.

4. **Activities**
[Maximum 12 lines. Describe the detailed activities. What are you spending the funds on?]

2022

Workshop to prepare the evacuation plan of the exercise with inclusion of people with disabilities (Table-Top exercise).*

ECFF: Goal:

- To bring together people with different backgrounds like scientists, operational people, people with impairments, stakeholders etc.
- Promote dialogue on the issue of emergency response for people with disabilities
- To leverage the outputs of a recent work prepared by ECFF with participation of ECPFE entitled "Evacuation Planning of Critical Infrastructures in case of an Earthquake or a Fire for People with Disabilities"
- Outline the plan of the evacuation exercise that will run on the second year of the project

ECPFE

- Prepare a report on the accessibility assessment of the building that the exercise will take place
- Contribute to the preparation of the workshop report, together with ECFF

* *It should be mentioned that due to the pandemic situation the workshop may finally have a hybrid format (physical presence and remote attendance) or it can be a webinar; hence, budget reallocation might be considered accordingly.*

2023

Organization and execution of an Evacuation Exercise including People with Disabilities.

ECFF

The exercise will run with the contribution and support of the General Secretariat of Civil Protection, Hellenic Mistry for Climate Crisis and Civil Protection.

Goal:

- evaluate the evacuation plan that was prepared in year 2022
- promote awareness among the involved parties
- practice interoperability of means and actors
- validate training of the rescuers
- identify possible gaps
- evaluate equipment, techniques and processes
- leverage the outputs of a recent work prepared by ECFF with participation of ECPFE entitled "Multi-hazard Risk Approach and Inclusive Community Engagement in Disaster Risk Management: Experiences & Lessons learned by a recent Wildfire Event in the Greek Island of Rhodes amidst COVID-19 pandemic crisis"

A number of expert guests will be invited to participate and observers to attend so as to share knowledge, as well as to extent the impact of the exercise and disseminate the results. ECFF will be responsible for the final compilation of the inputs provided by the observers after debriefing of the exercise, as well as for preparation of the lessons learned.

ECPFE

- Define the accessibility issues of the building and make relevant comments

5. **Budget**

DURATION	2022 □	2023 □	
PARTNERS	BUDGET IN EURO	BUDGET IN EURO	TOTAL BUDGET 2022 - 2023
Coordinator Centre: *ECPFE*	7150	9310	16460
Partner Centre: ECFF			

6. **Target groups and community involvement**

- Disability Community
- Rescuers
- Trainers of the rescuers
- First responders
- Researchers
- Teachers of schools for children with special needs
- Civil Protection
- Stakeholders

Edition of an Atlas of the "Monuments of Greece classified according to their seismic behavior"

PRIORITY FOR ACTION OF THE MEDIUM TERM PLAN: [*Please select one or more priorities*]

- ■ Using scientific and technological knowledge to better assess evolving risks and adapt accordingly the resilience strategies.
- ■ Developing cooperation among all decision-makers to better define authorities' adequate role in DRR.
- ☐ Promoting risk culture among population (children, adults and groups with special vulnerability).
- ☐ Fostering population's active participation (as individuals and as community) to DRR.

NAME OF THE CENTRE	European Center on preventing of Earthquakes
COUNTRY	*Greece*
REPRESENTED BY	*Dr. Evangelia-Linda Pelli*
TITLE OF THE PROJECT	*"Edition of an Atlas of the "Monuments of Greece classified according to their seismic behavior"*

1. Project background

[Maximum 12 lines. What is the context and which problems/situation led to this project? Why it is important to carry out this project? Which issue(s) do you hope to address with this project? Why does it need/justify funding? If this is the continuation of a previously implemented project, describe past achievements and new objectives]

Since 2016, the ECPFE has been ellaborating the project of the " Pre-Earthquake assessment of Monuments", for different types of Monuments , classified according to their structural system and seismic behavior (Lagomarsino). During these previous years many typologies have been examined and the relevant records concerning the first pre-seismic assessment have been produced. It is a need to gather all this usufull material in one volume where to illustrate their structural system, their vulnerability, accompanied by relevant photos as well as other usuful information.This Atlas will assist a designer Civil Engineer to select the proper Intervention design

In addition ECPFE in 2010, has composed in Greek and in English a "Draft Framework Regulatory Document for structural interventions to and seismic protection of MONUMENTS". This Document will serve as apilot study for further expansion of the topic. In this framework it is necessary to estimate and select the proper seismic action for the redesign in an intervention study of a monument, taking into account the monumental and social values of the monument, many times contradictory.

2. Expected Results

[Maximum 12 lines. Describe the expected results and give examples of the:

g) Impact (e.g. vulnerable groups in prone-risk areas know how to behave in an emergency. Implementation of new measures. Increased consultations with local and national government. Increased networking. etc.)

h) Intermediate outcomes (e.g. trainers now train vulnerable groups on major hazards)

i) Immediate outcomes (e.g. training of trainers on major hazards and vulnerable groups)]

2022

a.The protection of human lives(of the neighbours, curators, visitors or even inhabitants of the monument)
b.The protection of the monument itself
c.saving money, as the cost for damage restoration, not say for human lives, is much more than that for prevention
d. The estimation of the vulnerability of each category
e. the selection of the proper intervention design

3. Deliverables (Outputs)

[Maximum 12 lines. For example: workshop report, vulnerability maps, guidelines, recommendations, brochures, leaflets, development of websites, etc.]

2022

Coordinator Centre: ECPFE

- The syntax and edition of the Atlas : *"Monuments of Greece classified according to their seismic behavior",* in English and in Greek
- Production of a report concerning, the selection of design seismic action for the redesign, in English and in Greek

4. Activities

[Maximum 12 lines. Describe the detailed activities. What are you spending the funds on?]

2022

Coordinator Centre:
Two scientific Committees will be nominated in order the first one : to select the proper material for the Atlas : (Vulnerability assessment of each structural system based on pre-seismic assessments, photos, sketches etc) and second one : to estimate the seismic action for the redesign, in an intervention study

5. Budget

DURATION	2022
Coordinator Centre: *ECPFE*	*6000*

Italy - CUEBC

Schools Against Domestic and Urban Risks (SADUR)

PRIORITY FOR ACTION OF THE MEDIUM TERM PLAN: [*Please select one or more priorities*]

☐ Using scientific and technological knowledge to better assess evolving risks and adapt accordingly the resilience strategies.

☐ Developing cooperation among all decision-makers to better define authorities' adequate role in DRR.

☒ Promoting risk culture among population (children, adults and groups with special vulnerability).

☒ Fostering population's active participation (as individuals and as community) to DRR.

NAME OF THE CENTRE	*CUEBC Centro Universitario Europeo per I Beni Culturali*
COUNTRY	*Italy*
REPRESENTED BY	*Eugenia Apicella – Secretary General*
TITLE OF THE PROJECT	*SADUR. Schools Against Domestic and Urban Risks*

1. Project background

[Maximum 12 lines. What is the context and which problems/situation led to this project? Why it is important to carry out this project? Which issue(s) do you hope to address with this project? Why does it need/justify funding? If this is the continuation of a previously implemented project, describe past achievements and new objectives]

The experience carried out by the CUEBC within the framework of EUR-OPA - the IKMeFiND and LoKSAND projects - have proven the effectiveness of the involvement of schools as a tool for disseminating natural risk prevention programs to the local community (launch of the PYT Pages in Italy and Portugal, the "Protect Your Territory" website; requests by other schools to renew the project). The experience of recent times leads us to think that there is also the field of domestic and urban risks in which the involvement of schools can help to reduce them. Just 3 examples: In December 2021, in Naples, the collapse of a corniche killed a boy; in December 2021, in Sicily and Rome, two explosions (produced by a gas leak) destroyed three buildings and caused 12 deaths; in January 2022, in New York, a fire (caused by an electric oven) produced 17 deaths. In fact, these accidents, even though can be qualified as "minor", have a territorial spread and a recurrence which produce a strong impact on the local communities and urban systems. It is therefore proposed to carry out the "SADUR - Schools Against Domestic and Urban Risks" project in 2022-2023. The project aims to draft a Manual for the Detection of Hidden Domestic Risks (DHDR Manual) and a Manual for the production of the District Risk Map (DRM Manual), as well as the document on the HDRs detected and the DRM carried out by involved schools on the pilot areas invested by the project.

2. Expected Results

[Maximum 12 lines. Describe the expected results and give examples of the:

j) Impact (e.g. vulnerable groups in prone-risk areas know how to behave in an emergency. Implementation of new measures. Increased consultations with local and national government. Increased networking. etc.)

k) Intermediate outcomes (e.g. trainers now train vulnerable groups on major hazards)

l) Immediate outcomes (e.g. training of trainers on major hazards and vulnerable groups)]

2022

a) Systemic census of domestic accidents at national level in Italy and Portugal (explosions, fires, poisoning by gas)
b) Definition of the guidelines to be used for drafting the DHDR Manual and the DRM
c) Definition of criteria for the choice of pilot areas where to carry out the DRDHDR Manual and the DRM
d) Selection of schools to be involved in the project and definition of areas where to carry out the DHDR Manual and the DRM (Italy, Portugal, San Marino)
e) Initiation of actions finalized to produce the DHDR Manual and the DRM
f) Dissemination of project through internet

2023

a) Completion of actions with schools
b) Systematization of experiences
c) Amendments to the guidelines based on field experience
d) Edition and publication of guidelines
e) Presentation to local and national authorities of the census a) and the guidelines, as well as DHDRs and the DRMs produced by the schools
f) Dissemination of project results through internet and printed materials

3. Deliverables (Outputs)

[Maximum 12 lines. For example: workshop report, vulnerability maps, guidelines, recommendations, brochures, leaflets, development of websites, etc.]

2022

Coordinator Centre and Partner 1 and 2:

- Guidelines for the involvement of schools in the Detection of Hidden Household Risks (DHDR Manual) and in the production of the Map of Neighborhood Risks (DRM Manual)
- Territorial systemic census of domestic accidents
- Blog on hidden domestic risks

2023

Coordinator Centre:

- Print on paper of the articles published on the blog
- DHDR and DRM documents for the areas concerned

Partner 1 and 2:

- DHDR and DRM documents for the areas concerned

4. Activities

[Maximum 12 lines. Describe the detailed activities. What are you spending the funds on?]

2022

Coordinator Centre:
Organization of a videoconference between the partners to define activities to carry out
Census and systematization of domestic accidents (origins, deaths, territorial distribution) to highlight their overall impact
Drafting of the above mentioned census, DHDR and DRM

Workshop with selected schools to present the project and define the areas where to carry out the DHDR and DRM Starting up of actions finalized to produce the DHDR and the DRM Organization of a videoconference between the partners to report the activities carried out in 2022 Dissemination: Creation on a local online portal of a blog dealing with hidden domestic risks Partner 1 Analysis of data on domestic accidents at national level in Portugal (explosions, fires, poisoning by gas) Updating and maintenance of the Urban Risks webpage developed for a pilot municipality. Inclusion of domestic accidents Participation in videoconferences promoted by the coordinator centre Project presentation and awareness sessions on domestic accidents in selected schools Partner 2 Participation in videoconferences promoted by the coordinator centre Contacts with schools Field actions
2023 Coordinator Centre: Organization of a videoconference between the partners to discuss the carried out activities and products and finalize them based on field experience Completion of actions with schools and finalization of the DHDR and DRM of its competence Editing and publication of products 2022 Organization of a conference presenting to local and national authorities, SADUR products produced by the schools and Centers involved. Dissemination of guidelines to support similar actions Partner 1 and 2: Participation in Video conference and conference promoted by the coordinator centre Completion of actions with schools and finalization of the DHDR and DRM of its competence

5. Budget

DURATION	2022 ⛀	2023 □	
PARTNERS	BUDGET IN EURO	BUDGET IN EURO	TOTAL BUDGET 2022 - 2023
Coordinator Centre: *CUEBC Italy*	10.000	10.000	20.000
Partner Centre 2: CERU, Portugal	2.000	2.000	4.000
Partner Centre 3: *CEMEC San Marino*	2.000	2.000	4.000

6. Target groups and community involvement

[Maximum 10 lines. Please describe which are the groups targeted by the project and the communities involved. How do you address gender equality in your project?]

The project targets on the one hand the families who live in the districts where the school(s) involved is/are located, on the other the political decision makers to whom the DHDR and the District Risk Map will be presented. At the end of the project, the two products will be presented to the national authorities involved.

Malta – ICoD

Assessment and Mapping of Climate-Change Related Vulnerability and Risk

PRIORITY FOR ACTION OF THE MEDIUM TERM PLAN: [*Please select one or more priorities*]

☒ Using scientific and technological knowledge to better assess evolving risks and adapt accordingly the resilience strategies.

☒ Developing cooperation among all decision-makers to better define authorities' adequate role in DRR.

☐ Promoting risk culture among population (children, adults and groups with special vulnerability).

☐ Fostering population's active participation (as individuals and as community) to DRR.

NAME OF THE CENTRE	Euro-Mediterranean Centre on Insular Coastal Dynamics ICoD
COUNTRY	*Malta*
REPRESENTED BY	*Prof Anton. Micallef*
TITLE OF THE PROJECT	Assessment and Mapping of Climate-Change Related Vulnerability and Risk

Project relevance:
INTEGRATING DISASTER RISK REDUCTION IN OTHER AREAS
Focus area: *Climate change, environment and risk management*

1. **Project background**

[Maximum 12 lines. What is the context and which problems/situation led to this project? Why it is important to carry out this project? Which issue(s) do you hope to address with this project? Why does it need/justify funding? If this is the continuation of a previously implemented project, describe past achievements and new objectives]

The project addresses risk management challenges presented by Climate Change. In particular, the need of producing clearly defined risk maps of both coastal and mountainous areas, two territories highy exposed to modification in future climate scenarios, is addressed via the identification of triggering, hazard, exposure and vulnerability factors. The global objective of the overall project is to provide national authorities / ministries responsible for planning and civil protection with a clear risk maps of selected areas accompanied by well-defined methodology for risk mapping including climate-change projections.

2. **Expected Results**

[Maximum 12 lines. Describe the expected results and give examples of the:

m) <u>Impact</u> (e.g. vulnerable groups in prone-risk areas know how to behave in an emergency. Implementation of new measures. Increased consultations with local and national government. Increased networking. etc.)

n) <u>Intermediate outcomes</u> (e.g. trainers now train vulnerable groups on major hazards)

o) <u>Immediate outcomes</u> (e.g. training of trainers on major hazards and vulnerable groups)]

2022

- Identification of methodology for vulnerability assessment and risk mapping that will be used in this project but which will also serve as guidelines for other researchers and trainers working in this field.
- Field data collection for vulnerability assessment on three selected areas in Normandy (France) and Malta for coastal environments, and Alpes-Maritimes France) for mountain environments.

2023

- Production of risk maps, including climate change scenarios, related to hazards for selected areas of Normandy, Malta and Alpes-Maritimes that may be used by territory administrators and planners for effective zone management.

3. Deliverables (Outputs)

[Maximum 12 lines. For example: workshop report, vulnerability maps, guidelines, recommendations, brochures, leaflets, development of websites, etc.]

2022

Coordinator Centre: ICoD, University of Malta, Malta:

- Report on the chosen methodology for vulnerability assessment and risk mapping that will be used in Malta, providing guidelines and recommendations for field data collection and risk mapping.
- Associated field data on risk vulnerability for selected areas in Malta.

Partner 1: CERG (with the support of University of Caen-Normandy and University of Strasbourg):

- Report on the chosen methodology for vulnerability assessment and risk mapping that will be used in Normandy and Alpes-Martimes, providing guidelines and recommendations for field data collection and risk mapping.
- Associated field data on risk vulnerability for selected areas in Normandy.

Partner 2: UNIMORE, University of Modena and Reggio Emilia, Italy:

- Contribution to the report on the chosen methodology for vulnerability assessment and risk mapping that will be used in Malta, providing guidelines and recommendations for field data collection and risk mapping.
- Associated field data on risk vulnerability for selected areas in Malta

2023

Coordinator Centre: ICoD, University of Malta, Malta:

- Production of risk maps for selected areas in Malta.
- Brochure on the production of risk assessment and mapping.

Partner 1: CERG (with the support of University of Caen-Normandy and University of Strasbourg)

- Production of risk maps for selected areas in Normandy and Alpes-Martimes.
- Brochure on the production of risk assessment and mapping.

Partner 2: UNIMORE, University of Modena and Reggio Emilia, Italy:

- Production of risk maps for selected areas in Malta.
- Brochure on the production of risk assessment and mapping.

***4.* Activities**

[Maximum 12 lines. Describe the detailed activities. What are you spending the funds on?]

2022

Coordinator Centre: ICoD, University of Malta, Malta:

- **Data collection** on Malta study site for chosen methodology(ies).

Partner 1: CERG (with the support of University of Caen-Normandy and University of Strasbourg)
- **Data collection** on Normandy and Alpes-Maritimes study site for chosen methodology(ies).

Partner 2: UNIMORE, University of Modena and Reggio Emilia, Italy:
- **Data collection** on Malta study site for chosen methodology(ies).

2023
Coordinator Centre: ICoD University of Malta, Malta:
- Vulnerability **assessment and risk mapping** on selected areas of Malta.
- Development of a **brochure** on risk mapping

Partner 1: CERG (with the support of University of Caen-Normandy and University of Strasbourg)

- Vulnerability **assessment and risk mapping** on selected areas of Normandy.
- Development of a **brochure** on risk mapping.

Partner 2: UNIMORE, University of Modena and Reggio Emilia, Italy:
- Vulnerability **assessment and risk mapping** on select coastal areas of Malta.
- Development of a **brochure** on risk mapping.

5. Budget

DURATION	2022 x	2023 x	
PARTNERS	BUDGET IN EURO	BUDGET IN EURO	TOTAL BUDGET 2022 - 2023
Coordinator Centre: *ICoD University of Malta*	5000	5000	10,000
Partner Centre 1: *CERG* / (Univ. of Caen-Normandy, Univ. of Strasbourg)	5000	5000	10,000
Partner Centre 2: UNIMORE, University of Modena and Reggio Emilia, Italy:	5000	5000	10,000

6. Target groups and community involvement

[Maximum 10 lines. Please describe which are the groups targeted by the project and the communities involved. How do you address gender equality in your project?]

The main groups targeted by the project are coastal / inland administrators by providing guidelines for improved / safer planning that take into consideration climate change related hazards and associated risks. The project also targets Civil Protection agencies by identifying high risk areas where priority action may be needed. This need is particularly urgent in view of the influence of Climate Change that is considered to be influencing the magnitude and frequency of particular coastal hazards. While the main beneficiaries of the project are coastal / inland communities and local / overseas visitors, the project will have a wider positive implication by addressing mitigation of Climate Change. Within this project, gender equality is addressed by seeking a balanced participation of both sexes.

North Macedonia - ECILS

Seismic Vulnerability Assessment of the Skopje Old Bazar

PRIORITY FOR ACTION OF THE MEDIUM TERM PLAN: [*Please select one or more priorities*]

☒ Using scientific and technological knowledge to better assess evolving risks and adapt accordingly the resilience strategies.

☐ Developing cooperation among all decision-makers to better define authorities' adequate role in DRR.

☐ Promoting risk culture among population (children, adults and groups with special vulnerability).

☐ Fostering population's active participation (as individuals and as community) to DRR.

NAME OF THE CENTRE	*European Centre on Vulnerability of Industrial and Lifelines Systems – ECILS*
COUNTRY	*North Macedonia*
REPRESENTED BY	*Prof. d-r Veronika Shendova and Prof. d-r Vlatko Sesov*
TITLE OF THE PROJECT	*Seismic Vulnerability Assessment of the Skopje Old Bazar* *(new proposal for 2022-2023 as continuation of Activity 1 in 2021 – First-Level Seismic Vulnerability Assessment of the Skopje Old Bazar)*

1. Project background

[Maximum 12 lines. What is the context and which problems/situation led to this project? Why it is important to carry out this project? Which issue(s) do you hope to address with this project? Why does it need/justify funding? If this is the continuation of a previously implemented project, describe past achievements and new objectives]

The old part of the city of Skopje is one of the oldest and largest marketplaces in the Balkans and its trade and commerce centre since XII century. During its existence, it has been exposed to earthquakes and man-made damaging factors, as well as to inevitable various rebuilding following these events. The recent Skopje 2016 earthquake with magnitude M=5.1 confirmed the seismic vulnerability of many buildings located in the Skopje Old Bazaar with various damage level, from slight nonstructural one, to localized structural damage, and several isolated cases of considerable structural damage and disturbed stability. This demonstrates that pre-earthquake seismic vulnerability assessment is an imperative in the process of the Skopje Old Bazaar' revitalization.

The aim of this project proposal is to assess the seismic vulnerability of representative part of Skopje Old Bazaar by: (1) rapid visual screening using Level 1 Data_Record_Form (developed in 2021), resulting in category for each of the surveyed buildings according to the seismic risk, (2) creation of Database with information from the screening, (3) re-evaluation and harmonization of the ranking of identified vulnerable buildings based on evaluation of structural parameters, and (4) performing the relevant structural analysis for one or two representative buildings to verify the proposed methodology. Since this will be done for the first time, experiences from already realized similar projects will be used.

2. Expected Results

[Maximum 12 lines. Describe the expected results and give examples of the:

p) <u>Impact</u> (e.g. vulnerable groups in prone-risk areas know how to behave in an emergency. Implementation of new measures. Increased consultations with local and national government. Increased networking. etc.)

q) Intermediate outcomes (e.g. trainers now train vulnerable groups on major hazards)

r) Immediate outcomes (e.g. training of trainers on major hazards and vulnerable groups)]

2022

- Gathering of important data relating seismic vulnerability of Skopje Old Bazar
- Raising awareness among the institutions, population and especially among the owners about possible earthquake consequences in the case of Skopje Old Bazaar
- Mutual acquaintance with the characteristics and good practices related to the old city cores of the neighboring countries
- Protection of the urban historic centre of Skopje and protection of human lives by in-time structural assessment and identification of the most vulnerable buildings

2023

- Defining possible key structural interventions for the buildings seismic upgrading based on findings from relevant structural analysis
- Reducing post-earthquake urban and human losses
- Dissemination activities – organizing workshop *"Seismic vulnerability of buildings in Skopje Old Bazaar"*

3. Deliverables (Outputs)

[Maximum 12 lines. For example: workshop report, vulnerability maps, guidelines, recommendations, brochures, leaflets, development of websites, etc.]

2022

Coordinator Centre: ECILS

D1: Completed Level 1 Data_Record_Forms from rapid visual screening of 30 buildings in Skopje Old Bazaar with the preliminary seismic risk score
D2: Contributing to the Final Seismic Risk calibrating of the buildings according to ECPFE's Methodology
D3: Database and vulnerability map on 30 screened buildings

Partner Centre: ECPFE

D2:- Providing the ECPFE's Methodology concerning the First-Level Pre-Earthquake Assessment
- Final Seismic Risk calibrating of the buildings according to ECPFE's Methodology
- Comparison of the two Methodologies

2023

Coordinator Centre: ECILS

D4: Providing the necessary input data for further relevant structural analysis of three characteristic buildings
D6: Report on bearing and deformation capacity of the structures of the selected buildings
D7: Final Report on seismic vulnerability assessment and the possible key structural interventions for seismic upgrading of buildings located in Skopje Old Bazaar

Partner Centre: ECPFE

D5: Report of the output based on the dynamic Analysis for one or two representative models concerning the dominant typology of the Old bazaar.

4. Activities

[Maximum 12 lines. Describe the detailed activities. What are you spending the funds on?]

2022

Coordinator Centre: ECILS

- Preparatory work: providing the mandatory permission for access to the buildings, setting up the survey teams and introducing them with seismic screening methodology, desk study and remote data collection
- Hold of first joint meeting in Skopje Old Bazaar with participation of the responsible people and the representatives from ECPFE. In case of the pandemic via videoconference.
- Selection of at least 30 representative buildings for further assessment
- Rapid visual outside/inside screening of selected 30 buildings using Level 1 Data_Record_Form (developed in 2021) followed by preliminary seismic risk rating of the buildings
- Harmonization of evaluation criteria and re-evaluation of the ranking based on detailing and evaluation of structural parameters
- Fill-in the database with the final results and create the vulnerability map of selected part of Skopje Old Bazaar
- Selection of three representative buildings for further structural analysis

Partner centre: ECPFE

- Participation to the first joint meeting in Skopje Old Bazaar (if possible, considering pandemic)
- Contribution to the harmonization of evaluation criteria and re-evaluation of the buildings ranking, based on own expertise and previous experience

2023

Coordinator Centre: ECILS

- Providing the necessary information to the partner ECPFE as the input data for the phase of dynamic analysis (if necessary, by repeated on-site inspection)
- Performing analysis of bearing and deformation capacity of the structures of the selected buildings
- Participation to the second joint meeting in ECPFE premises in Athens (if possible, considering pandemic)
- Comparing/commenting on the results from the dynamic and bearing and deformation capacity analyses
- Proposing the possible key structural intervention for seismic upgrading of the buildings identified as most vulnerable
- Preparing the final report

Partner centre: ECPFE

- Performing relevant dynamic analysis for one or two representative models concerning the dominant typology of the Old Bazar
- Holding the Joint meeting in Athens. In case of the pandemic via video-conference
- Report concerning the above and Proposals for amelioration

5. Budget

DURATION	2022 □	2023 □	
PARTNERS	BUDGET IN EURO	BUDGET IN EURO	TOTAL BUDGET 2022 - 2023
Coordinator Centre: *ECILS*	*3800*	*3120*	6920
Partner Centre: *ECPFE*	*1350*	*1750*	3100

6. Target groups and community involvement

[Maximum 10 lines. Please describe which are the groups targeted by the project and the communities involved. How do you address gender equality in your project?]

- Architects, engineers, conservators (both males and females) involved in the earthquake protection of structures pertaining to cultural heritage, who can easily apply the understandable guideline for pre-earthquake vulnerability assessment of specific historic urban centre
- Owners of the facilities, who will find out their seismic safety and vulnerability level as well as required further activities, and who usually do not pay attention to the existing state of the buildings
- Authorities, who will in this way support risk mitigation and management strategies for this very important urban historic centre in North Macedonia in the process of establishment of national disaster risk management system.

Portugal - CERU

POPIRiM. Population involvement on risk management and mitigation - Testing in small communities

PRIORITY FOR ACTION OF THE MEDIUM TERM PLAN: [*Please select one or more priorities*]

☐ Using scientific and technological knowledge to better assess evolving risks and adapt accordingly the resilience strategies.

☐ Developing cooperation among all decision-makers to better define authorities' adequate role in DRR.

☒ Promoting risk culture among population (children, adults and groups with special vulnerability).

☒ Fostering population's active participation (as individuals and as community) to DRR.

NAME OF THE CENTRE	*CERU - EUROPEAN CENTRE ON URBAN RISKS*
COUNTRY	*PORTUGAL*
REPRESENTED BY	*Manuel João M. Ribeiro – Vice President*
TITLE OF THE PROJECT	*POPIRiM. Population involvement on risk management and mitigation - Testing in small communities*

1. **Project background**

[Maximum 12 lines. What is the context and which problems/situation led to this project? Why it is important to carry out this project? Which issue(s) do you hope to address with this project? Why does it need/justify funding? If this is the continuation of a previously implemented project, describe past achievements and new objectives]

The project aims to test the public participation in governance and DRR in different communities exhibiting susceptibilities to one or more risks, in different countries. In Portugal it will be applied to a peripheral area of the city of Lisbon, located in the municipality of Odivelas, in France, it will be applied to the city of Barcelonnette (South Alps), which presents characteristics of strong susceptibility to landslides, floods and earthquakes. It is intended to characterize the social content of the area, in its demographic, socio-economic, urban and cultural components, so that, in association with the dangers present in the region, to identify the main social vulnerabilities and perceptions that are constructed about these types of risk on the part of the resident population. Through this survey and diagnosis, we intend to build a formative and informative program providing citizens with the conditions and tools needed to act in the field of disaster risk reduction, in order to adequate their behavior and to promote the public policies of local resilience.

Similar studies must be carried on in a small community of their country by the other partners. Methodologies and results will be present and discuss in project meetings.

2. **Expected Results**

[Maximum 12 lines. Describe the expected results and give examples of the:

s) <u>Impact</u> (e.g. vulnerable groups in prone-risk areas know how to behave in an emergency. Implementation of new measures. Increased consultations with local and national government. Increased networking. etc.)

t) <u>Intermediate outcomes</u> (e.g. trainers now train vulnerable groups on major hazards)

u) <u>Immediate outcomes</u> (e.g. training of trainers on major hazards and vulnerable groups)]

2022

- Identification of the main risks and local vulnerabilities as well as the existent social capacities
- Definition of local mechanisms for public participation of residents in the management of their security, enhancing the creation of groups of volunteers to support the subsequent development of the project

2023

- Synchronization of the action of the Civil Protection local department, in order to develop a concerted intervention with the population of the studied areas, to identify the main risks and establish measures for their management – mitigation, reduction and elimination.
- Training exercises for the population on the management of the main risks.

3. Deliverables (Outputs)

2022

Coordinator Centre:

- Minutes of the meetings held
- Maps of hazard and of susceptibility (in association with partner 2)
- Project progress report

Partner 1: EUCCH

- Critical analysis of population participation in previous EUR-OPA Projects carried out in Amalfi Coast
- Draft guidelines on population participation

Partner 2: CERG

- Maps of landslide and flood hazard for the target city communities (in association with the coordinator centre)
- Meetings in the French use case to engage with citizens and the risk managers in the community to involve the population in risk management

2023

Coordinator Centre:

- Minutes of meetings held
- Training programs syllabus
- Implementation of on-site hazard signage
- Final project report
- Preparation of a scientific paper to be submitted to a peer-reviewed journal

Partner 1: EUCCH

- Tips and traps in population participation (edited guidelines)

Partner 2:

- Definition of a global methodology to create mental distance maps reflecting the social distance of the citizens to the hazards
- Application of the methodology to the French use case community

4. **Activities**

2022

Coordinator Centre:

1) Survey and preparation of hazard and susceptibility maps, referring to landslides, floods and soils seismic characteristics.

2) Survey and identification of the housing and socio-demographic, structural and cultural characterization of the resident population.

3) Analysis and diagnosis of social vulnerabilities and study on existing risk perceptions.

4) Public sessions with local authorities in defining disaster risk reduction interventions. Involvement of schools in the dissemination and promotion of the project.

5) Project intermediate meeting (by videoconference).

Partner 1: EUCCH

1) Critical analysis of population participation in previous EUR-OPA Projects carried out in Amalfi Coast

2) Discussion with Coordinator Centre about the guidelines on population participation

3) Production of draft guidelines on population participation

4) Participation to Project intermediate meeting

Partner 2: CERG

1) Database of the factors necessary to create the landslide susceptibility and hazards maps for the use case communities

2) Creation of landslide susceptibility and hazard maps for the use case communities

3) Meeting with risk stakeholders and citizens in the French use case to identify the communication methods classically used to involve the population in risk management

2023

Coordinator Centre:

1) Definition of awareness-raising, information and public training programs with a view to reducing the risk of disasters.

2) Implementation of signage with indication of information regarding measures related to emergency plan - preventive actions, concentration sites, evacuation routes, etc.

3) Organization of awareness and training actions for the population.

4) Organization of a seminar with different stakeholders - population, local authorities, scientific community.

5) Project final meeting.

Partner 1:EUCCH

1) Editing of guidelines

2) Publication of "Tips and traps in population participation"

3) Participation to the Project final meeting

Partner 2: CERG

Setup of a consortium meeting to define jointly a methodology to create mental distance maps reflecting the social distance of the citizens to the hazards

Application of the methodology of mental maps to the Barcelonnette Mountain community

Contribution to the general writing of the project results with the partner Centres.

5. Budget

DURATION	2022 ☒	2023 ☒	
PARTNERS	BUDGET IN EURO	BUDGET IN EURO	TOTAL BUDGET 2022 - 2023
Coordinator Centre: *CERU, Portugal*	10.000	10.000	20.000
Partner Centre 1: *CUEBC, Italy*	2.000	2.000	4.000
Partner Centre 2: *CERG, France*	3500	3500	7000

6. Target groups and community involvement

[Maximum 10 lines. Please describe which are the groups targeted by the project and the communities involved. How do you address gender equality in your project?]

The target population of the project will be residents in the studied zones (in Portugal, Encosta da Luz community, in Odivelas; in Italy, Almafi; in France, Barcelonnette Mountain community), as well as the municipal entities responsible for acting in these areas. In the selected/studies zones the resident community is composed by less favorable people including children, old-age people, and also new people arriving in the territory and not customized to risk.

Gender equality issues will be considered in the project, namely within the scope of the research team, which will have gender equity in the development of activities.

Romania – ECBR

Enhancing the resilience of buildings and persons with special vulnerabilities to earthquakes and pandemics in Romania, within the EUR-OPA goals for inclusive societies

PRIORITY FOR ACTION OF THE MEDIUM TERM PLAN: [*Please select one or more priorities*]

X ☐Using scientific and technological knowledge to better assess evolving risks and adapt accordingly the resilience strategies.

X ☐Developing cooperation among all decision-makers to better define authorities' adequate role in DRR.

X ☐Promoting risk culture among population (children, adults and groups with special vulnerability).

☐Fostering population's active participation (as individuals and as community) to DRR.

NAME OF THE CENTRE	ECBR – European Centre for Buildings Rehabilitation
COUNTRY	*Romania*
REPRESENTED BY	Emil Sever Georgescu
TITLE OF THE PROJECT	*Enhancing the resilience of buildings and persons with special vulnerabilities to earthquakes and pandemics in Romania, within the EUR-OPA goals for inclusive societies*

1. Project background

Romania was struck by earthquake disasters and recently by the Covid 19 pandemic. A new National Strategy of Seismic Risk Reduction - for buildings – will be enforced by the ministry in charge – Ministry of Public Works, Development and Administration –MPWDA, with the support of the World Bank, starting with 2022. The ECBR field, i.e. "building rehabilitation" needs to be combined with the protection of persons with special vulnerabilities for these risks, as to enforce EUR-OPA goals for inclusive societies.
In this context, the general aim of the new ECBR Project for 2022-2023 is to work as a partner to enforce that strategy in a new and integrated approach, such as:

- to use of scientific and technological knowledge to promote this Strategy as to strengthen the governance capacity and coperation of local authorities and for implementing the new National Strategy of Seismic Risk Reduction while enhancing networking among all decision-makers in DRR.
- to share and disseminate the risk culture for communities, children, adults and staff in charge / groups with special vulnerability, migrants, disabled etc.
- to use the knowledge from EUR-OPA specialized centres and specifically from ECBR, Bucharest, Romania and ECPFE - European Centre on Prevention and Forecasting of Earthquakes, Greece, Athens.
- It is a continuation of the previous successful project (on public facilities, as schools, hospitals and other crowded public institutions/facilities) but with new aims and other social stakeholders.

2. Expected Results

2022

- Transfer of knowledge in prone-risk areas, concerning the risk reduction and protection and behavior in an emergency, for vulnerable groups and staff in charge, in case of institutions for care and treatment of disabled, NGO for disabled individuals and some individuals, special schools for students with disabilities.

- Social impact and immediate outcomes by training of staff and volunteers on anticipated preparedness and safe behavior during earthquakes and pandemics of vulnerable groups as disabled students in schools.
- Increased networking and exchange of experience using knowledge from EUR-OPA specialized centres, especially of the partner centre (ECPFE Greece, Athens).

2023

- Transfer of knowledge in prone-risk areas, concerning the risk reduction and protection and behavior in an emergency, for vulnerable groups and staff in charge, in case of buildings and persons with restrained conditions (penitentiaries) and in centers and facilities for migrants, asylum seekers and refugees.
- Social impact and immediate outcomes by training of staff on anticipated preparedness and safe behavior during earthquakes and pandemics of vulnerable groups in such special centres and facilities.
- Increased networking and exchange of experience using knowledge from EUR-OPA specialized centres, especially of the partner centre (ECPFE Greece, Athens).

3. Deliverables (Outputs)

2022

Coordinator Centre: ECBR, Bucharest, Romania

- Training materials with recommendations for vulnerable groups in case of institutions for care and treatment of disabled, NGO for disabled individuals and for individuals, special schools for students with disabilities, as seminar support text (brochures, leaflets in printed and/or electronic version) and scientific knowledge transfer on seismic risk reduction and pandemics protection for seminar participants
- Reports of ECBR seminars to be distributed to the EUR-OPA specialized centres.

Partner 1: ECPFE Greece, Athens

- Presentations and recommendations (brochures, leaflets) including expertise and educational materials for earthquake and pandemics preparedness in similar facilities in Greece, to be shared with Romanian participants in seminars.

2023

Coordinator Centre: ECBR, Bucharest, Romania

- Training materials with recommendations for vulnerable groups in case of buildings and persons with restrained conditions (penitentiaries) and in centers and facilities for migrants, asylum seekers and refugees, as seminar support text (brochures, leaflets in printed and/or electronic version) and scientific knowledge transfer on seismic risk reduction and pandemics protection for seminar participants
- Reports of ECBR seminars to be distributed to the EUR-OPA specialized centres

Partner 1: ECPFE Greece, Athens

- Presentations and recommendations (brochures, leaflets) including expertise and educational materials for earthquake and pandemics preparedness in similar facilities in Greece, to be shared with Romanian participants in seminars.

***4.* Activities**

2022

Coordinator Centre: *ECBR, Bucharest, Romania*

Organization of a training seminar on seismic risk reduction and pandemics protection for vulnerable groups in case of institutions for care and treatment of disabled, NGO for disabled individuals and some individuals, for staff in charge.

- Date: October 2022, duration - one day
- Venue: ECBR Hall in URBAN-INCERC, about 25 participants (On-line seminar)

Organization of a training seminar on seismic risk reduction and pandemics protection for vulnerable groups in case of special schools for students with disabilities, addresed to professors, school principals / directors and administrative staff, as well as to some students.

- Date: October 2022, duration - one day
- Venue: ECBR Hall in URBAN-INCERC, about 25 participants (On-line seminar)

Partner 1:*ECPFE Greece, Athens* – participating as on-line lecturers to ECBR seminars for providing expertise and educational materials

2023

Coordinator Centre: *ECBR, Bucharest, Romania*
Organization of a training seminar on seismic risk reduction and pandemics protection for vulnerable groups in case of buildings and persons with restrained conditions (penitentiaries), for staff in charge.

- Date: October 2023, duration - one day
- Venue: ECBR Hall in URBAN-INCERC, about 25 participants (On-line seminar)

Organization of a training seminar on seismic risk reduction and pandemics protection for vulnerable groups in case centers and facilities for migrants, asylum seekers and refugees, for staff in charge and some centre's residents.

- Date: October 2023, duration - one day
- Venue: ECBR Hall in URBAN-INCERC, about 25 participants (On-line seminar

Partner 1:*ECPFE Greece, Athens* – participating as on-line lecturers to ECBR seminars for providing expertise and educational materials

5. Budget

DURATION	2022□	2023□	
PARTNERS	BUDGET IN EURO	BUDGET IN EURO	TOTAL BUDGET 2022 - 2023
Coordinator Centre: *ECBR, Romania*	3500	3500	7000
Partner Centre 1: *ECPFE, Greece*	1200	1200	2400

6. Target groups and community involvement

In Romania, according to the law, the concerned facilities belong to some ministries and/or central/local government agencies, while NGO or other are self-governed. The earthquake safety and adequate training for proper behavior of staff, patients and students, old or disabled persons, visitors etc as vulnerable groups, is a matter of community interest. Besides the implementation of the National Strategy of Seismic Risk Reduction, the project aims at a multiple impact, since the know-how will be shared after ECBR seminars to other family members, office colleagues and to neighborhoods around such facilities and public institutions. A cascade effect of “training of trainers” is quite expected. The gender equality is addressed by inviting a fair share of women to ECBR seminars, as well as providing knowledge and training that enables the vulnerable gender to cope with disaster situations.