

Participation to public events organized by public authorities

Final Version

Deliverable Number D.2.4.4.



Università
degli Studi
di Ferrara




COMUNE DI FERRARA
Città Patrimonio dell'Umanità

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Project Title	Preventing, Managing and Overcoming natural-hazards risk to mitiGATE economic and social impact
Priority Axis	2: Safety and Resilience
Specific objective	2.2: Increase the safety of the Programme area from natural and man-made disaster
Work Package Number	2
Work Package Title	Communication Activities
Activity Number	2.4
Activity Title	Awareness campaign
Partner in Charge	UNIFE
Partners involved	ALL PPS
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This document is consistent with the contents of the Communication Reports and with specific Deliverables of the periods RP2 - RP3 - RP4 - RP5 - RP6 - RP7

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During the 3 years of the Project, PMO-GATE participated in many public events organized by public authorities. The main ones are listed below.

Report Period 2

Presentation of the PMO-GATE Project at the conference “Upravljanje Obalnim Područjem u Jadranskoj Hrvatskoj”

RERA presented the project and its goals at a conference held in the City of Kastela on 21.10.2019. as part of the Co-evolve project, Interreg MED (n. 53 persons registered). 3 members of RERA project team (Marica Babić, Srećko Radnić, Ivan Samardžija) presented overall objectives and outputs of PMO GATE project.

The conference was attended by representatives of:

- 7 Regional and local development agencies, environmental agencies and regional associations: ZADRA NOVA, DUNEA, CROATIAN WATER, ECO AGENCY, INSTITUTE FOR PHYSICAL PLANNING SDC., INSTITUTE FOR PHYSICAL PLANNING SKZ, INSTITUTE FOR PHYSICAL PLANNING PGZ.
- 11 Local, regional and national public authorities and related entities: Municipality of Dugi Rat, Municipality of Milna, Municipality of Tribunj, Municipality of Zazablje, Municipality of Podstrana, Municipality of Brela, Municipality of Bol, Municipality of Okrug, City of Vodice, City of Supetar, City of Hvar..

More information: ["UPRAVLJANJE OBALNIM PODRUČJEM U JADRANSKOJ HRVATSKOJ" - ZAVRŠNA KONFERENCIJA :: Javna ustanova RERA S.D. za koordinaciju i razvoj Splitsko-dalmatinske županije](#)








JAVNA USTANOVA
rerasd

Konferencija
*Upravljanje obalnim područjem u Jadranskoj
Hrvatskoj*

AGENDA

Kaštel Lukšić, Brce 1, Dvorac Vitturi
21/10/2019

09:30 - 10:00	Registracija
10:00 - 10:30	Uvodni govori
	Grad Kaštela - Denis Ivanović, gradonačelnik
	JU RERA SD – Marica Babić, zamjenica ravnateljice – kratko predstavljanje projekta PMO Gate sufinanciranog iz sredstava Europske Unije kroz program 2014 – 2020 Interreg V-A Italy- Croatia CBC Programme
10:30 - 11:00	Predstavljanje Plana upravljanja obalnim područjem grada Kaštela
11:00 - 11:30	Otvorene prigodne izložbe i pauza za kavu
11:30 - 13:00	Predstavljanje Plana upravljanja obalnim pojasom - Šibensko kninska županija
	Predstavljanje Smjernica za integralnu zaštitu ruralnih krajolika i održiv razvoj turizma delte rijeke Neretve - Dubrovačko neretvanska županija
	Predstavljanje Plana upravljanja obalnim pojasom - Splitsko dalmatinska županija
13:00 - 14:00	Ručak i druženje
	<i>Završetak konferencije</i>

European Regional Development Fund

www.italy-croatia.eu

INGV at the AGU Fall Meeting

A scientific work concerning the database of the effects of the Italian tsunamis and in which the goals of PMO-GATE project are illustrated, was presented (by INGV) as a poster at the AGU Fall Meeting held in San Francisco from December 9th to 13th, 2019 . It has been estimated that about 500 scientists from different scientific fields in geophysics visited the poster area during the time of exposure of the poster.

Report Period 4

Lecture about PMO-GATE project activities

An important promotion of the project was held at November 23rd 2020.

Prof. Željana Nikolić gave a lecture about PMO-GATE project activities with special focus on Activity 3.3 Assessment of climateunrelated hazards exposure in urban and coastal area (seismic action) at online workshop “Reconstruction of Zagreb after the earthquake”. Organizers of the workshop were Faculty of Civil Engineering, Architecture and Geodesy Split, Croatian Chamber of Civil Engineers and Faculty of Civil Engineering Zagreb under the sponsorship of International company Wienerberger.

More than 500 registered participants from all over Croatia, among others representatives of the Croatian Chamber of Civil Engineers, representatives of other Croatian faculties of civil engineering and representatives of a number of companies for design, supervision and construction of the buildings attended the workshop. In this lecture an importance of project activities that can affect better management and increase the earthquake resistance of historic city cores was emphasized.

The lecture reached Target group 21 - Universities and research institutes and Target group 15 - General public (urban residents).

Representatives of 8 universities and research institutes from Croatia and 2 universities from BiH participated in this event. Some of the registered participants are urban residents of Split and Kaštela. There were 56 participants living at the Split and Kastela area who reached the information on the project.

Schedule of the workshop is presented in Figure 4. It is also available at the following link:

<https://www.wienerberger.hr/informacije/dogadanja-i-treninzi/savjetovanje-obnova-zagreba-nakon-potresa.html>

Complete presentation is available at the link: https://www.hcpi.hr/sites/default/files/inline-files/5_NIKOLIC.pdf.

Recording of all lectures are available at the link: <https://www.hcpi.hr/23112020-savjetovanje-4-obnova-zagreba-nakon-potresa-zagrebu-od-splita-77>


Organizatori
Hrvatska komora inženjera građevinarstva
<http://www.hki.hr>

Pokrovitelj
Wienerberger
<http://www.wienerberger.hr>

Savjetovanje 4: OBNOVA ZAGREBA NAKON POTRESA - Zagrebu od Splita
POTRESNO INŽENJERSTVO (projektiranje, proračuni, izvođenje, eksperimenti, rizici...)
23.11. (ponedjeljak)

PROGRAM

Vrijeme	Naslov	Voditelji
08:30-08:40	Pozdrav, najava i vođenje Programa.	Boris Trnjar, FGAG u Splitu Nina Dražić Lovreć, HOG Josip Alčić, GF Zagreb
08:40-09:00	Uvod.	Ana Mihanović, FGAG u Splitu
Predavači		
1. blok, 09:00-12:00		
09:00-09:45	Istraživa i eksperimentalna istraživanja u vezi seizmičke sanacije zidanih zgrada	Miha Tomžanič, Zavod za gradbeništvo Slovenije, Oddelek za konstrukcije
09:45-10:30	Primer projekta sanacije objekta oštećenog eksplozijom Nelinearne numeričke simulacije i eksperimentalna istraživanja statičkog i dinamičkog ponašanja zidanih konstrukcija	Alan Horajec, FGAG u Splitu Goran Balošević i Nikola Orgić, FGAG u Splitu
10:30-11:15	Tehnološki postupci ojačanja konstrukcija - osvrt	Srećko Šurina i Mijenko Vlačić, SPESRA d.o.o. Split
2. blok, 12:00-15:00		
12:00-12:30	Primjena pojedinačnog djelovanja potresa na objekte kulturne baštine	Blaž Odovac, Nives Kurbalo, FGAG u Splitu
12:30-13:00	Procjena potresne ranjivosti i nosivosti zgrada kao preduvjet sprječavanja, upravljanja i prevladavanja potresnog rizika u povijesnim gradskim središtima	Željana Nikolić, FGAG u Splitu
13:00-13:30	Praktični primjeri seizmičkog ojačanja općnog zida šelirnim okvirima i mrežama stakloplastike GFRP u mjestu na zgrađenoj grad Zagrebu	Nikola Milešić, KAP 4 d.o.o. Zagreb / SIGMA PROJEKT d.o.o. Split
13:30-14:00	Primjena FEM/DEM metode u potresnom inženjerstvu	Hrvoje Sročajević, FGAG u Splitu
14:00-14:30	New generation of masonry solutions	Andreas Jäger, Tomislav Franko WIENERBERGER Austria/Hrvatska
14:30-	Rasprava/zaključci	


<http://www.hki.hr>

Agenda of the workshop

Organizatori


Organizatori
Hrvatska komora inženjera građevinarstva

WEBINAR
SAVJETOVANJE 4: OBNOVA ZAGREBA NAKON POTRESA = ZAGREBU OD SPLITA

Clavni pokrovitelj
Wienerberger

Prof. dr. sc. Željana Nikolić
Sveučilište u Splitu, FGAG
Katedra za teoriju konstrukcija
Split, Hrvatska

PROCJENA POTRESNE RANJIVOSTI I NOSIVOSTI ZGRADA KAO PREDUVJET SPRJEČAVANJA, UPRAVLJANJA I PREVLAĐAVANJA POTRESNOG RIZIKA U POVJESNIM GRADSKIM SREDIŠTIMA



The first page of presentation

Report Period 5

Participation of the PMO-GATE Project at the event "New training and employment opportunities for water management and environmental remediation" (Nuove opportunità formative ed occupazionali per la gestione delle acque e il risanamento ambientale) organized by Italian Ministry of Education

In the fourth period we were contacted by the Italian Ministry of Education which invited PMO-GATE to participate in the online event "New training and employment opportunities for water management and environmental remediation".

Prof. Elena Benvenuti (UNIFE) and the Communication Manager Marco Faggioli presented the Educational programs for schools and of the PMO-GATE Project and presented the work they are doing with IS Copernico Carpeggiani.

The event was also attended by Prof. Laura Sensi of the IS Copernico Carpeggiani representing the school teachers who collaborate with PMO-GATE.

Our speech was titled "Communicate Natural Risks, between awareness and teaching. A model to involve, to know the territory and its management and to develop interdisciplinary skills. "

The contact with the network of GARA Schools (Gestione delle acque e recupero ambientale/Water Management and Environmental Recovery) is a good opportunity to get in touch with a large number of Italian schools that deal with water management and flood risk in their programs. We want to intensify relations in the next RP.

The event took place on April 22, 2021 and was attended by 58 representatives of schools, public bodies and Italian businesses.

List of subjects reached: I.C. "A.Rosmini" – Crotone, Secondary School IS Serpieri – Bologna, Secondary School IS Pertini – Crotone, Secondary School IS Piera Cillario Ferrero – Alba (CN), Secondary School IPSIA Majorana – Cernusco sul Naviglio e Melzo, Secondary School IS Ferraris Fermi – Verona, Secondary School IS Gobetti Marchesini – Casale Arduino (TO), Comune di Crotone, ARPA Liguria, University of Calabria, Sorical SpA, Mec Service



Evento GARA

Nuove opportunità formative ed occupazionali per la gestione delle acque e il risanamento ambientale

Crotone, 22 Aprile 2021, ore 15:30 – 17:30

Moderatrice:

Prof.ssa Elena Gaudio, Ministero dell'Istruzione, DGOSVI, Ufficio IV

PROGRAMMA

- Saluti della DS dell'IIS Pertini – Santoni Crotone
Dott.ssa Ida Sisca
- *Il nuovo percorso dell'istruzione professionale "Gestione delle acque e risanamento ambientale – (G.A.R.A.)*
Dott. Fabrizio Proietti, Dirigente dell'Ufficio IV della Direzione generale per gli ordinamenti scolastici e la valutazione del sistema nazionale di istruzione (DGOSVI) – MI
- *Realizzazione di un modello per il trattamento delle acque meteoriche e la rilevazione da remoto dei parametri fisico-chimici*
Prof. Fabrizio Marcelli e **Prof.ssa Katia Cunetto** IIS "Lampertico" di Vicenza in collaborazione con **Carlo Pellegrino**, titolare dell'azienda Mec Service
- *Comunicare i Rischi Naturali, tra sensibilizzazione e didattica. Un modello per coinvolgere, conoscere il territorio e la sua gestione, sviluppare competenze interdisciplinari.*
Prof.ssa Elena Benvenuti, Dipartimento di Ingegneria, Università di Ferrara, PMO-GATE Project
Ing. Marco Faggioli, Communication Manager PMO-GATE Project (Interreg Italy – Croatia)
Prof.ssa Laura Sensi, IS Copernico-Carpeggiani di Ferrara

INTERVENTI

Referente USR Calabria nominativo da definire

Dott. in attesa del nominativo... e da confermare l'ufficio del DIPARTIMENTO TUTELA DELL'AMBIENTE/ISTRUZIONE Regione Calabria

Dott. Emilio Cellini Agenzia Regionale Protezione Ambientale Calabria – A.R.P.A.C.A.L.

Dott. Claudio Liotti, Presidente CONGESI, Consorzio tra Comuni per La Gestione del Servizio Idrico Integrato nel Crotonese

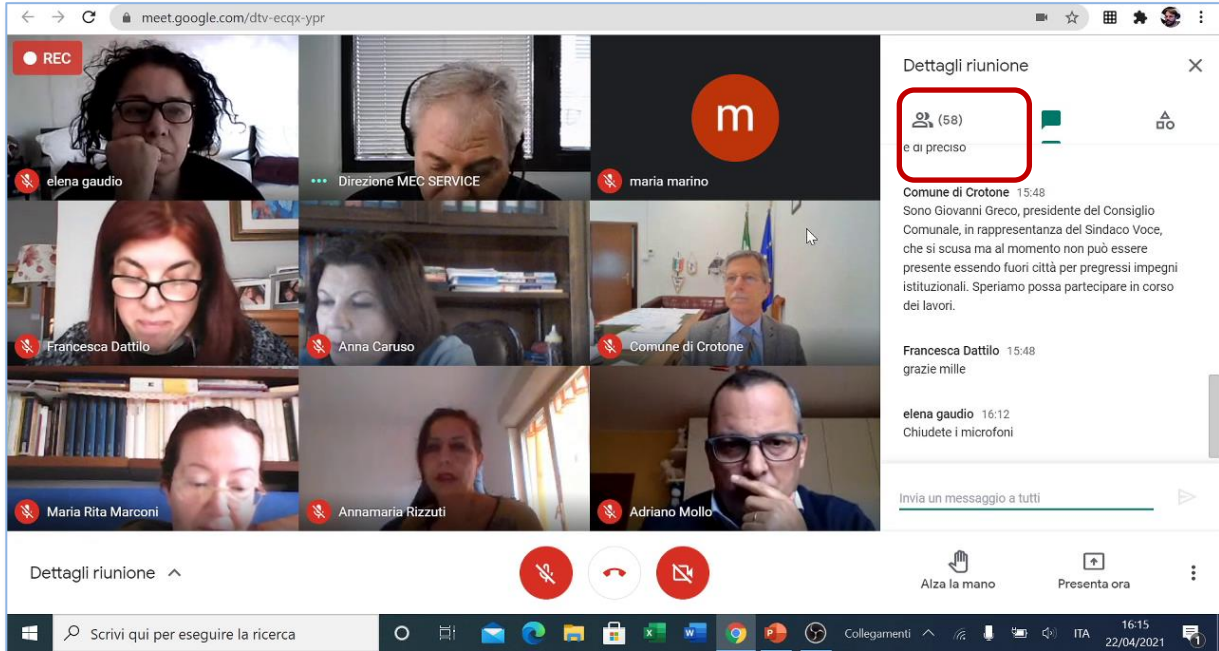
Dott. Adriano Mollo, SOCIETA RISORSE IDRICHE CALABRESI S.P.A. (SORICAL)

Avv. Simone Saporito -Presidente della Provincia di Crotone

Conclusioni

Ing. Vincenzo Voce -Sindaco di Crotone

The Agenda of *New training and employment opportunities for water management and environmental remediation*



A screenshot of the event

The power point presentation of our speech



All'Ing. Marco Faggioli
Communication Manager PMO-GATE Project
(Interreg Italy – Croatia)

Nell'ambito delle attività di orientamento e di ampliamento della propria offerta formativa, il nostro Istituto ha organizzato un convegno finalizzato a promuovere il nuovo indirizzo dell'istruzione professionale "Gestione delle acque e risanamento ambientale" G.A.R.A., attivo in Calabria anche presso l'Istituto "IIS G. Falcone-N. Green" di Corigliano Calabro (Cs).

L'evento, "Nuove opportunità formative ed occupazionali per la gestione delle acque e il risanamento ambientale" è finalizzato a promuovere un'attività didattica che sviluppi una maggiore integrazione tra il curriculum e le competenze ambientali, economiche e sociali, necessarie ai futuri cittadini e operatori, in contesti complessi caratterizzati da forte innovazione. Realizzato in collaborazione con la Prof.ssa Elena Gaudio, coordinatore nazionale della rete G.A.R.A. presso l'Ufficio IV D.G.O.S.V.I. del Ministero dell'Istruzione, prevede l'intervento di diversi stakeholder territoriali, e la presentazione di testimonianze ed esperienze significative realizzate o da porre in essere.

In qualità di Communication Manager per il progetto PMO-GATE, si chiede un Suo intervento all'evento, previsto per giovedì 22 aprile 2021, dalle ore 15,30 alle ore 17,30, in modalità video-conferenza.

Certi di una sua repentina risposta, si inviano i più cordiali saluti

Dirigente Scolastico
Elena Sisca



The invitation letter

Project presentation at the 1st Croatian Conference on Earthquake Engineering (1CroCEE) held in Zagreb, Croatia in March 2021

UNIST-FGAG promoted the project through presentations at international conferences. The paper “Estimation of the seismic capacity of civil engineering structures” has been presented at the 1st Croatian Conference on Earthquake Engineering (1CroCEE) held in Zagreb. The abstract of the paper is available at the web-site <https://crocee.grad.hr/event/1/contributions/108/>.


Extended abstract have been published in the Conference Proceedings. The representatives of the universities and research institutes who participate at the conference, received information about the project results achieved in WP3.

About 30 different research institutions (Target group 21 - Universities and research institutes) received information about the project results through the presentation and/or extended abstract published in the Conference Proceedings.

Additionally, the presented paper has reached the members of Croatian Chamber of Civil Engineers who participated at the conference.



Abstract of the paper “Estimation of the seismic capacity of civil engineering structures” at the web-site of the 1CroCEE conference


 Proceedings of 1st Croatian Conference on Earthquake Engineering, 1CroCEE
 Zagreb, Croatia - March 22nd to 24th 2021
 Edited by Leporek, S. and Jukić, Z.
 Copyright © 2021 1CroCEE

ESTIMATION OF THE SEISMIC CAPACITY OF CIVIL ENGINEERING STRUCTURES

Željana Nikolić¹

¹ Full Professor, University of Split, Faculty of Civil Engineering, Architecture and Geodesy, zeljana.nikolic@gradit.hr

Keywords: Seismic capacity, Collapse mechanism, Historical masonry buildings, Static non-linear analysis

Estimation of the seismic capacity of existing buildings is of great importance for the safety of inhabitants in the old cities and settlements. This paper presents estimation of the seismic bearing capacity and collapse mechanism of several masonry buildings typical for the historical city centres and surrounding areas along Dalmatian coast (Fig.1). The evaluation is performed according to Eurocode 8 [1] and corresponding Croatian standard [2, 3] using static non-linear pushover analysis. Complete 3D models of masonry structures were made by TREMURI software [4] assembling 2-nodes macro-elements, representing the non-linear behaviour of masonry panels and piers. The macro-element considers both the shear-sliding damage failure mode and its evolution, controlling the strength deterioration and the stiffness degradation, and rocking mechanisms, with toe crushing effect, modelled by means of phenomenological non-linear constitutive law with stiffness deterioration in compression.

The response of the structure is investigated along the two orthogonal axes, in both the positive and negative directions. Non-regular distribution of the masses is considered by the assumption of an eccentricity of the lateral loads equal to 25% of the maximum floor dimension at each level. Three lateral load distributions (uniform, linear and modal) with the presence of eccentricity give in total 24 analyses. Each pushover analysis results with the MDOF capacity curve which transforms in bilinear SDOF ones. The capacity of the structure is expressed in peak ground acceleration corresponding to the end of bilinear curve. Type 1 response spectrum 11, 21 and soil class A are used. The design ground acceleration defined by seismic hazard map for the return period of 475 years is equal to $a_g=0.22g$. The seismic capacity of the buildings is defined by checking if the seismic demand represents with 475 years is satisfied. Local mechanism failure was analysed in order to check local behaviour, such as the lack of connection among perpendicular walls, poor connection among floors/roofs and walls, etc.





Figure 1. (a) Historical centre of Šibenik with stone masonry buildings; (b) Typical family houses outside of historical centre.


 Proceedings of 1st Croatian Conference on Earthquake Engineering, 1CroCEE
 Zagreb, Croatia - March 22nd to 24th 2021
 Edited by Leporek, S. and Jukić, Z.
 Copyright © 2021 1CroCEE

The first group of examples considers stone masonry buildings in the historical city centre of Šibenik (Kamblarovo, Fig.1a) built between the 15th and 19th centuries. They were made of stone blocks with mortar joints with a thickness of the walls between 45 and 75 cm and flexible wooden floors. Numerical predictions of the collapse accelerations by non-linear static analysis show that no building meets the seismic requirement equal to $a_g=0.22g$ in either direction. Namely, the peak ground acceleration corresponding to the collapse of the buildings are in the range of 0.07g and 0.10g. The failure occurs due to different collapse modes such as shear, bending, tension and compression failures. Evaluation of the local mechanism failure shows that critical acceleration yet it arises for the global behaviour. For example, analysis of public library showed that the lowest collapse acceleration is obtained for linear distribution of lateral forces and it is equal to 0.079g, while the lowest value of the failure acceleration in analysis of local mechanism is 0.130g (Fig.2).

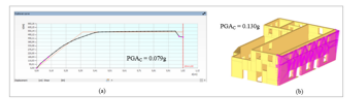


Figure 2. Results of global and local analysis of Public Library: (a) Critical pushover curve; (b) Critical local mechanism failure.

The second group of buildings are typical family houses (Fig.1b) outside of the historical core made as masonry structures consist of concrete or clay blocks without or with concrete boundary elements (beam and/or columns) depending on the construction period. The results for collapse accelerations obtained by pushover analysis are compared for 2-floor and 3-floor buildings made of (1) unbonded concrete masonry built before the first seismic regulation in 1964, (2) concrete masonry with horizontal RC beams typical for the period between 1964 and 1990; (3) concrete masonry with horizontal RC beams and RC columns built between 1990 and 2005; and (4) clay masonry with horizontal RC beams and RC columns which are seismically resistant structures due to the applications of modern design standards based on Eurocode 8. Calculated capacity accelerations show that only buildings built according Eurocode 8 meet the seismic requirement.

Acknowledgements
This work has been supported through the project "Preventing, managing and overcoming natural-hazards risks to mitigate economic and social impact" (PMO-GATE), funded by the European Union through the programme Interreg Italy-Croatia, and the project KK.01.1.1.02.0027, co-financed by the Croatian Government and the European Union through the European Regional Development Fund - the Competitiveness and Cohesion Operational Programme.

References

- [1] EN 1998-1 Eurocode 8 (2004): Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings, European Committee for standardization CEN.
- [2] HRN EN 1998-1 Eurocode 8 (2011): Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings, Croatian Standards Institute.
- [3] HRN EN 1998-3 Eurocode 8 (2011): Design of structures for earthquake resistance - Part 3: Assessment and retrofitting of buildings, Croatian Standards Institute.
- [4] TREMURI software (2019). S.T.A.DATA, Professional version, Torino.

Extended abstract of the paper "Estimation of the seismic capacity of civil engineering structures" at the web-site of the 1CroCEE conference




SVEUČILIŠTE U SPLITU
FAKULTET GRAĐEVINARSTVA,
ARHITEKTURE I GEODEZIJE

ESTIMATION OF THE SEISMIC CAPACITY OF CIVIL ENGINEERING STRUCTURES

Željana Nikolić

University of Split, Faculty of Civil Engineering, Architecture and Geodesy



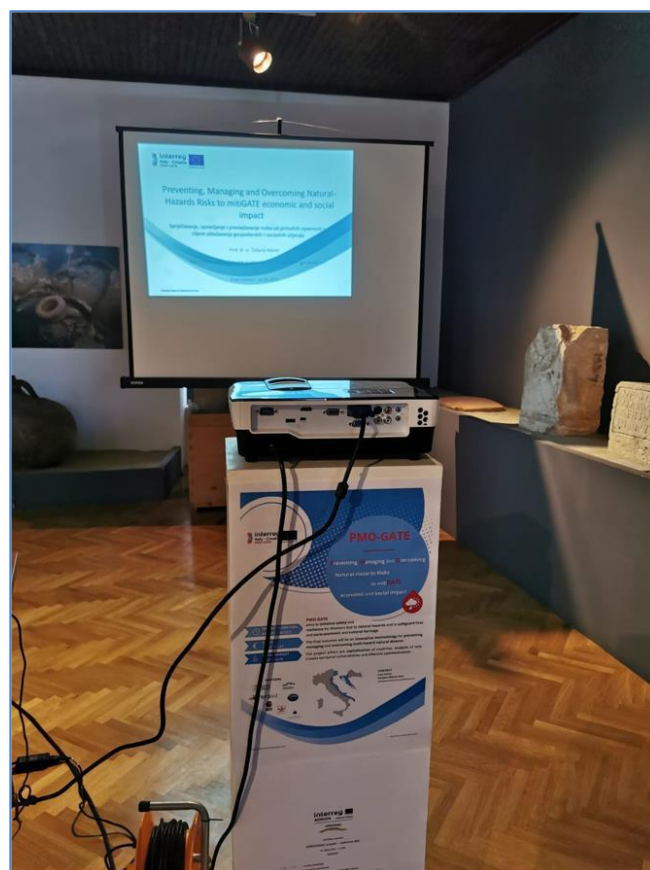

PMO-GATE: Preventing, Managing and Overcoming Natural-Hazards Risks to mitigate economic and social impact

1CroCEE, Zagreb 22-24.03.2021.

The first page of presentation of the paper "Estimation of the seismic capacity of civil engineering structures"

Workshop with stakeholders, June 16th 2021, Kaštela City

The project activities and results were presented at the workshop with stakeholders held in June, 16th, 2021, in Kaštela City. Effective approaches to territorial safety regarding the seismic risks, developed in the project, were presented. An importance of recognizing buildings with reduced seismic resistance was highlighted as well as the methodology for vulnerability assessment of the buildings, developed within the project, which will enable the prioritization of building rehabilitation and increase their seismic resistance. The workshop raised the awareness of the Target group 16 - Local, regional and national public authorities and related entities because they reached the information on the project results. Namely, 26 local and regional stakeholders and authorities from 11 institutions were participated at the workshop. This activity contributed to Deliverable 2.3.7 “Increase the amount of people reached by the information of the project” because the participants of the workshop are urban residents of Split and Kaštela. Therefore, presentation on the project results has also reached the target group 15 - General public (permanent urban residents).



Presentation and poster of the project



UNIST-FGAG researcher (Željana Nikolic) presents the project results



Participants of the workshop

OGS presented research results obtained in Kastela site at the GNGTS (Gruppo Nazionale Geofisica e Terra Solida) 39th Conference, June 2021

OGS presented research results obtained in Kastela site at the GNGTS (Gruppo Nazionale Geofisica e Terra Solida) 39th Conference, June 2021. The presentation was held remotely.

Abstract: Activity 2.4_GNGTS 39-Conference_June2021_Abstract.pdf

Report Period 6

Participation of the PMO-GATE Project at the contest of Emilia Romagna Region "L'Europa è Qui"

PMO-GATE participated in the contest of the Emilia Romagna region "Europe is HERE".

The contest was aimed at those who have carried out projects financed by the European funds of the Emilia-Romagna Region - local authorities, companies, startups, professionals, research centers, training institutions, universities, associations, doctoral students.

The aim of the contest is to make them protagonists in communicating the contribution of Europe to the community.

Data:

Italian version (L'Europa è QUI website): <https://www.youtube.com/watch?v=4gZqOkHr2zU>

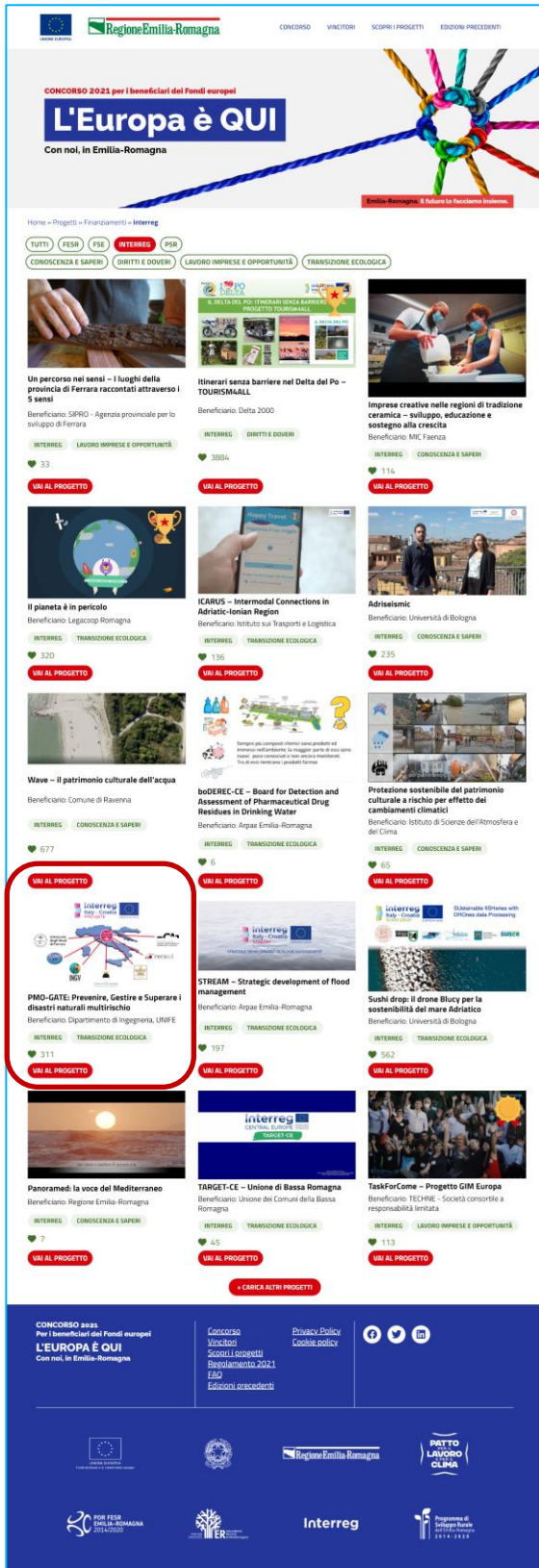

English version (PMO-GATE website): <https://www.youtube.com/watch?v=A2AplZ0iflM&t=4s>

Number of likes: 311

Video Visualization: 165



PMO-GATE video presentation on the "L'Europa è QUI"

PMO-GATE Project on the "L'Europa è QUI" contest

Project presentation at ECCOMAS MSF conference in Split

Project activities and the project results were presented at the 5th International Conference on Multi-scale Computational Methods for Solids and Fluids - ECCOMAS MSF 2021 in held in Split, June 30th – July 2nd, 2021 (<http://gf.unsa.ba/eccomas-msf-2021/>). Namely, 4 scientific papers about project activities related to flood risk, seismic risk and multi-hazard risk have been presented by Croatian and Italian partners. UNIST-FGAG have presented 2 papers: “Seismic assessment of historical stone masonry buildings” and “Coastal flood exposure assessment due to sea level rise and extreme wave events”. The papers have been published in on-line conference proceedings (http://gf.unsa.ba/eccomas-msf-2021/Eccomas_MSF_2021.pdf).

The UNIST-FGAG staff has prepared an information on Mini-symposium for official project’s web-site together with LP communication manager.

The presentations at the ECCOMAS-MSF 2021 conference have reached the target group “Universities and research institutes”. The presentations are also available at the project web-site.

Representatives of 8 international universities and research institutes with 43 participants (20 at the site and 23 on-line) received information on the project results.

The 8 international universities and research institutes are:

- UTC - université de technologie de Compiègne
- IZIS - Institute of Earthquake Engineering and Engineering Seismology - (Macedonia)
- EPFL – Switzerland
- University of Padova – Italy
- UCD Connect – Ireland
- Technische Universität Braunschweig – Germany
- UPV Universitat Politècnica de València
- FSB - Fakultet strojarstva i brodogradnje – Croatia

and UNIST-FGAG and UNIFE (which are not accounted in total number because they are project partners).

The lectures of the PMO-GATE researchers in the minisymposium ECCOMAS MSF 2021 has been recorded and published on the YouTube Channel end on the website of the PMO-GATE Project.

Seismic assessment of historical stone masonry buildings

Željana Nikolić (Full Professor at the Department of Theory of Structures, Faculty of Civil Engineering, Architecture and Geodesy of the University of Split) exposes the activities and

the results of the investigation of "Seismic assessment of historical stone masonry buildings" realized as part of the PMO-GATE Project.

<https://youtu.be/KzMCflkVrPY>

<https://www.italy-croatia.eu/web/pmo-gate/-/eccomasnikolic>



The screenshot of the video of the lecture "Seismic assessment of historical stone masonry buildings"

Coastal Flood Exposure Assessment due to sea level rise and extreme waves events

Toni Kekez (Postdoctoral student at the Department of Hydrotechnical Engineering of the University of Split) exposes the results of the activities aimed at the "Coastal Flood Exposure Assessment due to sea level rise and extreme waves events".

<https://youtu.be/9VSC8Hhj-aM>

<https://www.italy-croatia.eu/web/pmo-gate/-/kekezeccomas21>



The screenshot of the video of the lecture "Coastal Flood Exposure Assessment due to sea level rise and extreme waves events"

A Promethee multiple-criteria methodology for combined seismic and hydraulic risk assessment

Andrea Chiozzi (Post Doc at Department of Engineering, University of Ferrara) illustrates the research that was carried out for the development of "A Promethee multiple-criteria methodology for combined seismic and hydraulic risk assessment".

<https://youtu.be/doSimgy15G4> - <https://www.italy-croatia.eu/web/pmo-gate/-/eccomas2021-chiozzi>

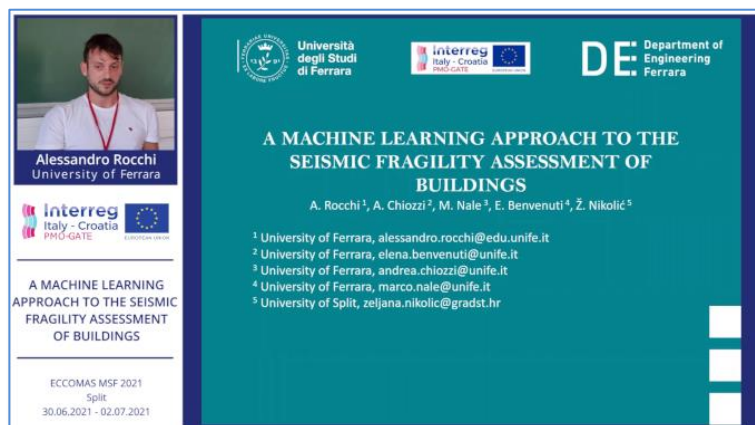


The screenshot of the video of the lecture "A Promethee multiple-criteria methodology for combined seismic and hydraulic risk assessment"

A machine learning approach to the seismic fragility assessment of buildings

Alessandro Rocchi, civil engineer with structural major, graduate of the University of Ferrara, exposes the research about "A machine learning approach to the seismic fragility assessment of buildings".

<https://youtu.be/QBftPBxBdKl> - <https://www.italy-croatia.eu/web/pmo-gate/-/eccomas-rocchi>



The screenshot of the video of the lecture "A machine learning approach to the seismic fragility assessment of buildings"

Project presentation at 11th meeting of Croatian Society of Mechanics held in Rijeka, September 16-17, 2021

The paper "Metodologija određivanja krivulja potresne ranjivosti kamenih zidanih zgrada" has been presented at 11th meeting of Croatian Society of Mechanics, held in Rijeka in September 16-17, 2021.

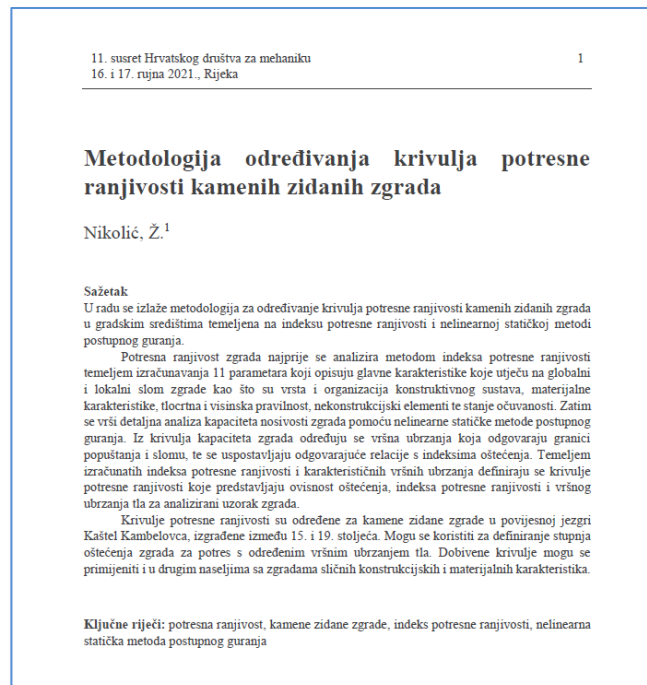
The paper has been published in the Conference Proceedings.

Representatives of 6 Croatian technical faculties (50 researchers) from different universities received information on the project results (Target group 21 - Universities and research institutes) through the presentation and a scientific paper published in the Conference Proceedings. Number of participants was estimated according to the total number of participants of the conference.

The 6 Croatian technical faculties who participated at the event are :

- Faculty of Engineering Rijeka,
- Faculty of Civil Engineering Rijeka,
- Faculty of Mechanical Engineering Zagreb,
- Mechanical Engineering Faculty Slavonski Brod,
- Faculty of Civil Engineering Osijek,
- Faculty of Civil Engineering Zagreb

and UNIST-FGAG (which is not account in total number because it is project partner).



The first page of the paper

  **SVEUČILIŠTE U SPLITU**
FAKULTET GRAĐEVINARSTVA ARHITEKTURE I GEODEZIJE
Laboratorij za numerička modeliranja



Metodologija određivanja krivulja potresne ranjivosti kamenih zidanih zgrada

Željana Nikolić

e-mail: zeljana.nikolic@gradst.hr

11. susret Hrvatskog društva za mehaniku - 16. i 17. rujna 2021., Rijeka

The first page of presentation of the paper “Metodologija određivanja krivulja potresne ranjivosti kamenih zidanih zgrada”

Participation of the PMO-GATE Project at the event "National Conference in Science Communication" in Trieste

The INGV scientist Alessandra Maramai participated in the roundtable "The importance of play in science communication and science learning" at the "11th National Conference in Science Communication" in Trieste - 17-20 November 2021.

In his speech she presented the "Educational programs for schools" of PMO-GATE Project within which we work with the students of Ferrara to realize a serious game to raise awareness of natural hazards.

<https://comunicazionescienza.com/programma/>

UNIFE made the slides.

Photos and news about this activity are published on website and social media channel of the Project.

Data: 100 people reached (in presence + online)



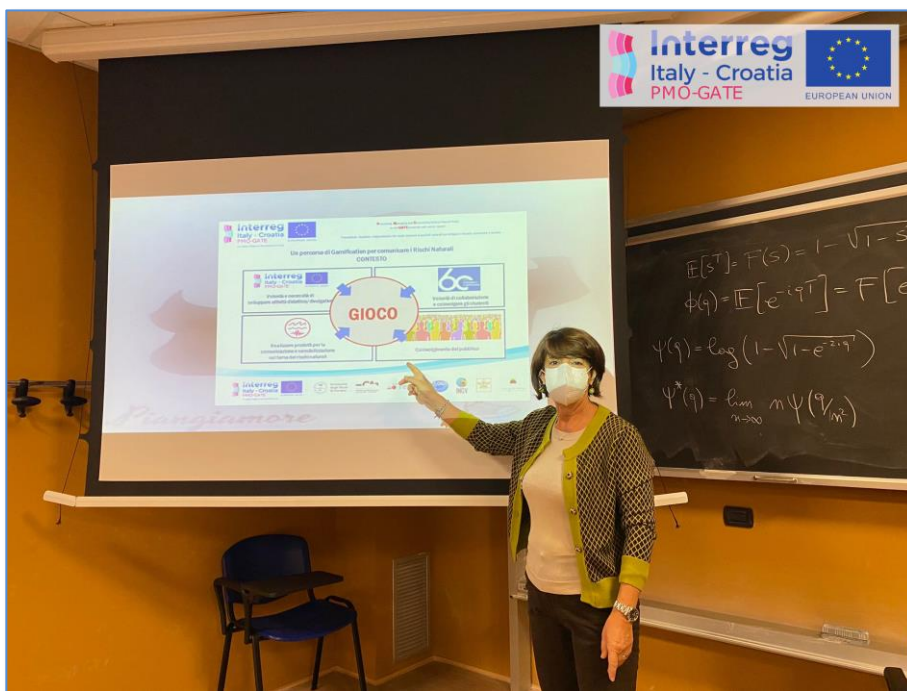
Some slides of the presentation



La Gamification come percorso didattico
Gli studenti sono coinvolti in prima persona nel percorso di **ideazione** e **realizzazione** del gioco

- Aumento della conoscenza** del territorio e della sua gestione (sia a livello tecnico che amministrativo)
- Sviluppo di un percorso **didattico/divulgativo** sul tema dei rischi naturali (Idraulico, Sismico e Sismico/Idraulico) basato sulla **consapevolezza del rapporto uomo/acqua/ambiente** (Compresa la Produzione di materiale didattico divulgativo)
- Coinvolgimento** in prima persona degli studenti → **sviluppo delle competenze**
- Definizione di un **modello/format** replicabile in diversi contesti da divulgare a livello nazionale e internazionale (IT-CR-EU)
- Realizzazione di un **prodotto** in grado di coinvolgere altri studenti ed efficace nella comunicazione e sensibilizzazione sui rischi naturali

Per ulteriori informazioni  www.italy-croatia.eu/pmo-gate
PMO-GATE Communication Manager (Marco Faggjoli): pmo.gate@gmail.com



Alessandra Maramai at the roundtable "The importance of play in science communication and science learning"

Participation of the PMO-GATE Project in conference “Disaster risk management” (Interreg Firespill)

RERA participated in conference “Disaster risk management” (Interreg Firespill) that was organized in Split (21-22/10). In the occasion the RERA team presented the goals and objectives of PMO_GATE.

Data: 70 leaflets, 70 pencil and 70 block-notes of the Project was distributed.

9 Local, regional and national public authorities and related entities achieved:

- Splitsko-dalmatinska županija
- Grad Dubrovnik
- Varaždinska županija
- Region of Istra
- Zadar County
- Primorsko goranska županija
- Osječko baranjska županija
- Međimurska županija
- Koprivničko križevačka županija

9 Emergency services and coast guard centre achieved:

- HGSS Stanica Split
- HGSS
- VZSDŽ
- MUP CZ
- Lučka kapetanija Split
- PU SD
- HCK SPLIT
- JVP GRAD SPLIT
- DVD Mladost

17:00	Conference first day conclusions	MODERATOR: Marijan Vundač , President of the Croatian Counties and Cities Platform for Disaster Risk mitigation MODERATOR
19:30	Dinner	Restaurant Gusar (Špinutska 69, Split)



October 22, 2021
08:30 – 12:30

09:30	REGISTRATION OF PARTICIPANTS	
10:00	Beginning of the second day of the conference Introductory greetings	
10:15	Presentation of the FireSpill project	Helena Brčić , Project Manager - Public Institution RERA S.D. for Coordination and Development of the Split-Dalmatia County
10:30	Opportunities for financing projects in the field of climate changes adaptation and disaster risk prevention through European Territorial Cooperation Programmes	Perica Gabrić , Head of Service for Cross Border Cooperation - Ministry of Regional Development and EU Funds
10:50	Presentation of EU funded projects 1. PMO Gate Project 2. STREAM Project 3. TransCPEarlyWarning Project 4. E-CITUENS	1. Ivica Šitum, PI RERA S.D. 2. Ana Maričić, ZADRA NOVA 3. Ivan Bugarin, PI RERA S.D. 4. Ognjen Čavar, Splitsko – dalmatinska županija
11:50	Conference second day conclusions	Split Dalmatia County JU RERA S.D.
12:00	Lunch	

The Interreg Fire Spilla Agenda – pg 2

Participation of the PMO-GATE Project in Public Event “Cross Border Accessibility for All”

RERA participated in the Public event “Cross Border Accessibility for All” in Rimini Exhibition Centre during TTG fair on 13th October 2021.

Data: 160 leaflets, 160 pencil and 160 block-notes of the Project was distributed.



The promote PMO-GATE Project at the Public Event “Cross Border Accessibility for All”

Presentations at international conference "Završna konferencija projekta CHANGE WE CARE"

PMO-GATE participated in "Završna konferencija projekta CHANGE WE CARE", the conference of 'Change we care' Project (Italy Croatia programme) about climate change.

The event was organized by our Partner RERA SD (Regional Development Agency of Split Dalmatia county, Split, Croatia) and by Faculty of Geodesy (University of Zagreb).

The conference was a great opportunity to present the PMO-GATE activities to all 10 Interreg Projects with similar topics, in order to enrich our Joint Action Plan.





Završna konferencija projekta CHANGE WE CARE
“Klimatske promjene u obalnom i prijelaznom području”
07/12/2021
Geodetski fakultet Zagreb, Kačićeva 26, Zagreb

AGENDA	
09:30 – 10:00	Registracija sudionika
UVODNA OBRAČANJA	
10:00 – 10:30	Almin Đapo, dekan Geodetskog fakulteta u Zagrebu Diana Gracin Petrović, Joint Secretariat IT-HR Dunja Mazzocco Drvar, ravnateljica Uprave za klimatske aktivnosti Ministarstva gospodarstva i održivog razvoja
REZULTATI CHANGE WE CARE PROJEKTA	
10:30 – 11:10	Izazovi klimatskih promjena na projektu CHANGE WE CARE, Davide Bonaldo, koordinator projekta, CNR-ISMAR Venecija Rezultati za pilot područje Delta Neretve, Paola Marinović, Urbanex Rezultati za pilot područje Kaštelanskog zaljeva i rijeke Jadro, Martina Baučić, Fakultet građevinarstva, arhitekture i geodezije Split, Rezultati za pilot područje Vransko jezero, Norma Fressel, Park prirode Vransko jezero
11:10 – 11:40	Pauza za kavu
PRIJEDLOZI ZA ZAJEDNIČKE BUDUĆE AKTIVNOSTI PROJEKATA IZ OSI SO 2	
11:40 – 12:30	KRATKE PREZENTACIJE PROJEKATA ADRIADAPT CREW ECOSS JOINT_SECAP MOST PMO GATE RESPONSE WATERCARE NET4MPLASTIC
12:30 – 12:50	Prijedlog Zajedničkog akcijskog plana Daria Povh, Priority Actions Programme/Regional Activity Centre Mili Novak, JU RERA SD
12:50 – 13:00	Zaključci i zatvaranje konferencije Druženje sudionika