HORIZON 2020

METHODS AND TOOLS INNOVATIONS FOR SEISMIC RISK ASSESSMENT

Risultati

Informazioni relative al progetto

METIS

ID dell’accordo di sovvenzione: 945121

Sito web del progetto

DOI
10.3030/945121

Data della firma CE
20 Maggio 2020

Data di avvio
1 Settembre 2020

Data di completamento
31 Maggio 2025

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Euratom

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€ 6 040 841,25

Contributo UE
€ 3 965 335,00

Coordinato da
ELECTRICITE DE FRANCE
France

CORDIS fornisce collegamenti ai risultati finali pubblici e alle pubblicazioni dei progetti ORIZZONTE.

I link ai risultati e alle pubblicazioni dei progetti del 7° PQ, così come i link ad alcuni tipi di risultati specifici come dataset e software, sono recuperati dinamicamente da .OpenAIRE.

Risultati finali

Documents, reports (11)

Methodology for selecting ensembles of rock-hazard consistent ground motions suitable for fragility curve computations and dataset ↗
Methodology for selecting ensembles of rockhazard consistent ground motions suitable for fragility curve computations and dataset

Project quality plan ↗
The deliverable defines the quality procedures within METIS

Seismic source characterizations methodologies and applications ↗

Definition and classification scheme of SSCs for specific and generic seismic fragility evaluation (Technical report) ↗
Definition and classification scheme of SSCs for specific and generic seismic fragility evaluation Technical report

End users survey and exploitation of results ↗
The deliverable will summarise the information on endusers interest and on the exploitation of results

Detailed work plan ↗
The aim of the deliverable is to detail the work plan of METIS

Communication and Dissemination plan report ↗
The deliverables will provide the information on the Communication and Dissemination strategy

Application to METIS study case (WP4) ↗
Application to METIS study case WP4

Methodology for selecting ensembles of rock-hazard consistent ground motions suitable for fragility curves computations for clustered seismicity and dataset. ↗
Methodology for selecting ensembles of rockhazard consistent ground motions suitable for fragility curves computations for clustered seismicity and dataset

Description of case study and collection of data and reports ↗
The deliverables will provide information on case study and collection of data and reports

Project branding, document templates, Project presentation brochure, base public website and collaborative tools ↗

the deliverable will provide the following items Project branding document templates Project presentation brochure base public website and collaborative tools

Websites, patent fillings, videos etc. (1)

Project website on-line
The public website is online at M6

Open Research Data Pilot (1)

Data Management Plan
The deliverable explain the data lifelycle in METIS

Other (1)

Physics-based simulation of ground motion tools and database

Pubblicazioni

Peer reviewed articles (4)

The Effect of Seismic Sequences in Probabilistic Seismic Hazard Analysis
Autori: Nevena Sipcic, Mohsen Kohrangi , Athanasios N. Papadopoulos , Warner Marzocchi , Paolo Bazzurro
Pubblicato in: Bulletin of the Seismological Society of America, Numero volume 112, number 3, 2022, Pagina/e 1-16, ISSN 1943-3573
Editore: Bulletin of the Seismological Society of America
DOI: 10.1785/0120210208

Deriving Site Effect-Free Hard-Rock Time Histories in Japan from the Generalized Inversion Technique
Autori: M. Pilz, F. Cotton, C. Zhu, K. Nakano, H. Kawase
Pubblicato in: Bulletin of the Seismological Society of America, Numero 113, 2,

2023, Pagina/e 732-744, ISSN 1943-3573
Editore: Bulletin of the Seismological Society of America
DOI: 10.1785/0120220155

Advanced numerical simulation and modeling for reactor safety – contributions from the CORTEX, McSAFER, and METIS projects.
Autori: Christophe Demazière, Victor Hugo Sanchez-Espinoza and Irmela Zentner
Pubblicato in: EPJ Nuclear Sci. Technol. /Euratom Research and Training in 2022: challenges, achievements and future perspectives, 2022, ISSN 2491-9292
Editore: EPJ N
DOI: 10.1051/epjn/2022026

Regional Calibration of Hybrid Ground-Motion Simulations in Moderate Seismicity Areas: Application to the Upper Rhine Graben
Autori: Hoby N. T. Razafindrakoto, Fabrice Cotton, Dino Bindi, Marco Pilz, Robert W. Graves, Sanjay Bora
Pubblicato in: Bulletin of the Seismological Society of America, Numero 111/3, 2021, Pagina/e 1422-1444, ISSN 0037-1106
Editore: Seismological Society of America
DOI: 10.1785/0120200287

Conference proceedings (6)

Relevant intensity measures for seismic damage prediction with artificial neural networks
Autori: Goldschmidt, K., H. Sadegh-Azar, H., Mohtasham Miavaghi, M.
Pubblicato in: Proceedings SMiRT 26th International Conference on Structural Mechanics in Reactor Technology, 2022
Editore: Proceedings SMiRT 26th International Conference on Structural Mechanics in Reactor Technology

Effects of Near-Fault Ground Motions on Nuclear Power Plant Containment Structures
Autori: Soyluk, K.; Sadegh-Azar, H.; Yilmaz, D.
Pubblicato in: Proceedings SMiRT 26th International Conference on Structural Mechanics in Reactor Technology, 2022
Editore: Proceedings SMiRT 26th International Conference on Structural Mechanics in Reactor Technology

A preliminary evaluation of using hazard-consistent real and simulated ground motions for structural response assessment
Autori: Pablo García de Quevedo Iñarritu, Nevena Sipcic, Luis Alvarez-Sanchez, Mohsen Kohrangi , Paolo Bazzurro

Pubblicato in: Progresses in European Earthquake Engineering and Seismology, 2022, ISBN 978-3-031-15104-0
Editore: Progresses in European Earthquake Engineering and Seismology

Long Short-Term Memory Networks for prediction of earthquake demand parameter time series in seismic fragility analysis
Autori: Goldschmidt, K., Mohtasham Miavaghi, M., H. Sadegh-Azar, H.
Pubblicato in: Proceedings 3rd European Conference on Earthquake Engineering & Seismology, 2022, Pagina/e 1978-1982
Editore: Proceedings 3rd European Conference on Earthquake Engineering & Seismology

Innovative approaches for Seismic Fragility Analysis within METIS project
Autori: Goldschmidt, K., Sadegh-Azar, H., Sevbo, O., Richard, B., A. Garcia de Quevedo Iñarritu, P., Bazzurro, P., Vamvatsikos, D.
Pubblicato in: Proceedings SMiRT 26th International Conference on Structural Mechanics in Reactor Technology, 2022
Editore: Proceedings SMiRT 26th International Conference on Structural Mechanics in Reactor Technology

Auswahl relevanter ingenieurseismologischer Parameter mithilfe künstlicher Neuronaler Netze
Autori: Goldschmidt, K.; Miavaghi, M.; Sadegh-Azar, H.
Pubblicato in: VDI Berichte Nr. 2379, 2022, Pagina/e 451-462
Editore: VDI Berichte

Other (1)

Validation and verification of nonlinear mechanical models for nuclear buildings and equipment: an application
Autori: Thomas Langlade, Thomas Heitz, Alexis Courtois, François Voldoire
Pubblicato in: Transactions, SMiRT-26, 2022
Editore: Transactions, SMiRT-26

Ultimo aggiornamento: 19 Marzo 2025

Permalink: https://cordis.europa.eu/project/id/945121/results/it