



Italian Seismic Hazard Model (ISHM) Project

Kickoff Meeting

Thursday, February 27th, 2025. 10:30 am – 17:30 pm

INGV, Via di Vigna Murata, 605, Rome, main conference room (in person)

Virtual Meeting (online, <https://meet.google.com/mqy-yyvz-qme>)

10:00-10:30 Welcome Coffee & Pastries

National Seismic Hazard Model for Italy, Conveners: *Claudio Chiarabba & Giovanni Lanzano*

10:30-10:45 Welcome (*Prof. Carlo Doglioni*, President, INGV)

10:45-11:00 The Seismic Hazard Center (CPS) at INGV: Overview and Activities (*Aybige Akinci*, Coordinator, CPS)

11:00-11:20 Previous Italian Seismic Hazard Models (*Claudio Chiarabba*, Director of the Earthquake Division)

11:20-11:30 ISHM Project Overview (*Vera D'Amico*)

11:30-11:40 Introduction to Seismicity Models (*Matteo Taroni*)

11:40-11:50 Updating the Earthquake Catalogue, the Assessment of its Completeness and Declustering (*Andrea Rovida*)

11:50-12:00 Coffee break

National Seismic Hazard Model for Italy, Conveners: *Aybige Akinci & Matteo Taroni*

12:00-12:10 Efforts Towards Integrating Aftershocks and Foreshocks into Seismicity Models (*Matteo Taroni*)

12:10-12:20 Advancing 3D Smoothed Seismicity Models (*Claudia Pandolfi*)

12:20-12:30 Area Source Based Seismicity Model (*Francesco Visini*)

12:30-12:50 Fault-Based Seismicity Model (*Roberto Basili*)

12:50-13:00 Geodesy-based Forecasts in Italy: Addressing Open Questions on Seismic Coupling, Multi-decadal Transients, and Rheological Constraints (*Michele Carafa*)

13:00-13:20 Seismicity Models of Volcanic Areas (*Raffaele Azzaro & Vincenzo Convertito*)

13:20 - 14:30 Lunch break

14:30-14:50 Main Challenges in Treating Ground Motion Models for Hazard Applications in Italy (*Giovanni Lanzano*)

International Seismic Hazard Models & experiences, Conveners: *Michael L. Blanpied & Paolo Bazzurro*

14:50-15:10 ESHM20 – Earthquake Rate Forecast: Insights and Challenges Ahead (*Laurentiu Danciu*)

15:10-15:30 The Aotearoa New Zealand NSHM: 2022 Release and Future Focus (*Matt Gerstenberger*)

15:30-15:50 USGS Perspectives on Source Model (Earthquake Rupture Forecast) Developments (*Ned Field*)

15:50 – 16:00 Coffee break

International Seismic Hazard Models & experiences, Conveners: *Ned Field & Matt Gerstenberger*

16:00-16:20 Ground Motion Modelling for National/Regional PSHA: Lessons Learned from the ESHM20 and Other Developments (*Graeme Weatherill*)

16:20-16:40 Hazard Estimates in Building Codes: from Current Paradigm to Risk Target Ground Motions for Structures with More Uniform Performance (*Paolo Bazzurro*)

16:40-17:30 General Discussion (*all participants*)