

Mid-Term Meeting SECURE (Dynamic Planet Project 2023–25)
June 19–20, 2025 – Milan -Italy

11:30 Opening & Overview, *Regional-Scale Earthquake Ground Motion Predictions Through Physics-based and Empirical Approaches: A Case study Central Italy, SECURE, Akinci A.*

WP1. Improvements to Existing Crustal Velocity Models and Seismic Data

Responsible WP & Convener, *De Gori P.*

11:45 V_p and V_s Velocity Models in the three Target Areas, *De Gori P.*

12:00 Application of Machine Learning Techniques to Fucino Seismic Data for the Detection of Local Earthquakes *Fonzetti R.*

12:15 Shallow Geological Models of the Aterno Valley (Target Area #2) and the Fucino Basin (Target Area #3), *Burrato P. and P. Vannoli*

12:45
Lunch Break

WP2. Earthquake Source Characteristics and Seismic Wave Propagation in CA

Responsible WP & Convener, *Calderoni G.*

14:15 Spectral Correction for Propagation and Site Effects: Impact on Stress Drop Estimation, *Calderoni G. et al.*

14:30 Analysis of stress drop variations in the strongest earthquakes of the AVN 2016-2017 Seismic Sequences, *Calderoni G., Morasca P., Bindi, D.*

14:45 Linking Slip Heterogeneity and Stress Drop–Directivity Effect to Near-Source Ground Motion: Application to the 2009 L’Aquila Earthquake and to the 2016 Central Italy Seismic Sequence, *Cirella et al.*

15:00 GITpy: A Python-based tool for Generalized Inversion Technique, *Morasca P. et al.*

15:15 Analysis of the Impact of Attenuation Variations on Ground Motion in Central Apennines, *Gabrielli et al.*

15:30 Modeling Seismic Source Directivity Effects from Apparent Source Spectra: A GIT-Based Approach for Small Earthquakes, *Khafaj E. et al.*

WP4. Performance of Ground Motion Models and Empirical Relationships

ResponsibleWP, *Taroni M.*

15:45 Weighted Likelihood Scores for Ground Motion Model Evaluation, *Taroni et al.*

16:00–16:30 Discussion / Q&A

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WP3. Ground Motion Prediction Using Innovative Approaches

ResponsibleWP & Convener, *Sgobba S.*

9:30 Non-Ergodic Ground Motion Model for the N3 Central Italy Area: Results on Spatio-Temporal Variability, *Sgobba S. et al.*

9:50 Towards a Regionalized GIT Approach for Italy: a source-attenuation tale, *Bindi D. et al.*

10:10 Regionalized GMM for Hazard Applications in Italy, *Lanzano G. et al.*

10:30 Results from 3D deterministic ground motion simulations in the Central Italy, *Akinci A. et al.*,

10:45 Advances in Simulations Based on the 1D-FK Deterministic Method for Earthquakes in Central Apennines, *Artale Harris P. et al.*,

11:00 Evaluating the Performance of Italian Intensity Prediction Equations and Analysis of Directivity Using Macroseismic Data, *Antonucci A. et al.*,

11:15 Updating the Italian IPE: Introducing a New Flatfile to Explore Distance-Related Variability, *Gomez-Capera A. et al.*

14:00–15:00 Round Table *All Participants*

