

Dear Editor,

taking into account your comments, we have substantially integrated the paper in some parts.

Specifically, we have introduced a new paragraph on validation analysis and a supplementary part in the discussion: this regards the limits and the ability of the model.

The validation analysis is a depth comparison analysis using well documented studies (like a blind test) regarding theoretical numerical simulation and experimental seismic analysis of two real different complex areas (figure 13 and fig 15 in addition).

Undoubtedly, this new version of the manuscript provides a greater insight into the performance of model in application cases.

Best regards,

Gerardo Grelle