How do we use obtained source models from waveform inversion for theoretical prediction of strong ground motions?

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To achieve the theoretical prediction of strong ground motions precisely, it is very important to characterize source models. Recent strong motion network data enable us to obtain the detail source models of earthquakes occurred, using source inversion technique. For example, there are many source models of the 1995 Hyogoken-Nanbu earthquake. Although those models are heterogeneous in time and space, and we need to discuss how to simplify those models for prediction of strong ground motions. Finite extent fault model is one of the ways for simplification of the obtained source models, however, we need to validate this simplification through the wave-field modeling.