

Methodology for analysis validation

Misc BB notes to overwrite:

- Develop a hierarchy of different computational model 'types' that could be analysed (i.e. From SDOF to 1D lumped models to full 2D/3D element-by-element representation)
- Develop processes by which different data types can be considered: (1) lab data on small-to-large scale static tests; (2) dynamic tests at small scale; (3) field data from instrumented structures in earthquakes; (4) field data from ambient or forced vibration; (5) variants of the above
- Identify existing work that has already been completed in the context of the above two points
- Identify initial efforts which can deliver relatively large research gains with low effort and begin retrospective testing of models against data
- Develop alignment with other research efforts, both nationally and internationally, and expand on the number computational model types and datasets being used for response history analysis validation
- Work with DesignSafeCI and QC TP4 Computational team to develop workflow to facilitate validation testing (both retrospective and prospective) in a more formal manner