

Use of Single GMPE as a “Backbone”



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Advantage of the process

- If you have a single “robust” GMPE
 - Which can be extrapolated to the ranges of applications
- And other “not-robust” GMPEs
 - Which cannot be extrapolated to the ranges of applications
- Using one GMPE as the backbone curve is a very good idea

Disadvantages of using single GMPE as the backbone

- Can easily be abused
 - Non-technical issues will influence the selection of that one GMPE
- Reduces the incentive of developing “good” GMPEs
 - As their model will not be selected
 - The authors will not get the credit for their work
 - The authors will not deliver their models on time to be used

A proposal...

- If you have a single “robust” GMPE
 - Which can be extrapolated to the ranges of applications
 - Use that as the backbone
- If you have multiple “robust” GMPEs
 - Use multiple GMPEs (not one)