

Interactive comment on “GO2OGS: a versatile workflow to integrate complex geological information with fault data into numerical simulation models” by T. Fischer et al.

Anonymous Referee #3

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The article proposed a workflow to integrate complex geological information with fault data into numerical simulation models. A suitable mesh creation strategy is also introduced to satisfy the numerical computation and simulation. It is an important topic in nowadays and also very interesting for me. From the applications, I feel that this method can contribute to a correct simulation in hydrology area. I have some small suggestions for the author to improve their paper. 1. In the title, the authors use a word “versatile” to describe his strategy. However, I do not know whether it is suitable for other situations without using GOCAD and VTU, and whether the mesh creation method is suitable for other numerical models? Maybe the authors can remove this. 2. In the first section, the authors discussed the importance of integration of data and

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models for collaborative work and comprehensive research. It is indeed a hot topic currently, and there are much research has been done in this fields, especially data conversion between models, model integration and sharing though web, et al., the author may reference more papers about model integration and talked about some essential difficulties when build a ‘versatile’ workflow. 3. The authors use the abbreviation of VTU, VTK in the abstract and first paragraph, but give their full names in the later parts. I think the full names should be given when these words appeared for the first time. 4. In section 2, I suggest to put the explanation of EQ.1 also in 2.1 background because it seems undertake the same task as 2.1.1 and 2.1.2. 5. According to the workflow introduced in 1.4, maybe “2.2 Converting gocad SGrid data to an open data format” can be changed to “2.2 Converting GOCAD SGrid data to an open data format and its quality evaluate”. 6. Please explain VTU+ in figure 2. 7. Maybe “g” in Figure 3 should be “G”.

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