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Drinking Water Engineering and Science Discussions

Interactive comment on "Review of applications of SIMDEUM, a stochastic drinking water demand model with small temporal and spatial scale" *by* Mirjam Blokker et al.

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Thank you for your psotive review.

We will add some info on the traditional models and their characteristics. We shall also add some more info on PRP (and PRP like models). For the CCWI version of this paper we decided to leave this information out, but for the DWES paper we agree that this info should be there.

Your last observation is quite an interesting one.

* One of the co authors has used SIMDEUM before she started working with us (publications of Claudia Agudelo-Vera in 2012 and 2013c) and has also done some work

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Discussion paper

with it since she is our colleague.

* a TU Delft PhD candidate (defense in March 2017) has used SIMDEUM for her measurement setup. This did lead to a paper, which is co-authored by Blokker.

* There have been some MSc. students (in the UK, Germany and the Netherlands) that have worked with it. And an Italian student who has made her own version. Their work is not always easily referable, but we will add some info and references where we can find them.

* There also has been an interest from several PhD students over the world that I have shared SIMDEUM with, and I am chasing them to share some experience with us. The same for some companies that have access to SIMDEUM through KWR founded inititiative WaterShare.

* the design rules for non-residnetial water dmand and for self cleaning networks are based on SIMDEUM simulations and are now used in regulation respectively by water companies. But they have not (yet) worked with the full SIMDEUM version.

* I do sometimes see publications from PhD students who'd rather re-invent the wheel than add and improve on existing models. I think this is a shame. We are all too happy to share SIMDEUM. Rather than discussing why, so far, little external publications on SIMDEUM are available (but I think that with the above points we can tackle this already), we would like to invite people to contact us for the code and use it and let us know what is lacking.

We shall add a discusion section on applicaibility outside of KWR's world.

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