



shiny rrisk: a web application for transparent exposure and risk modelling an open-source software tool developed at the BfR for the risk modelers

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In exposure and risk assessment, complex scenarios often have to be investigated and modeled in which different stochastic influences have to be taken into account. Applications that work on the basis of Excel are often used for this purpose. Models created with these applications can quickly lose transparency and traceability if the modelers do not work with great discipline. In addition, many of these software products are proprietary and can only be used with a purchase license. Models can then only be recalculated by others if they have the purchased license.

The *open-source* web application *shiny rrisk* was developed at the BfR to meet the requirements of modern exposure and risk modeling. This includes methods such as *2D Monte Carlo simulation*, which allows separate consideration of variable and uncertain variables, and *automated report generation* for rapid exchange between modelers and risk managers.

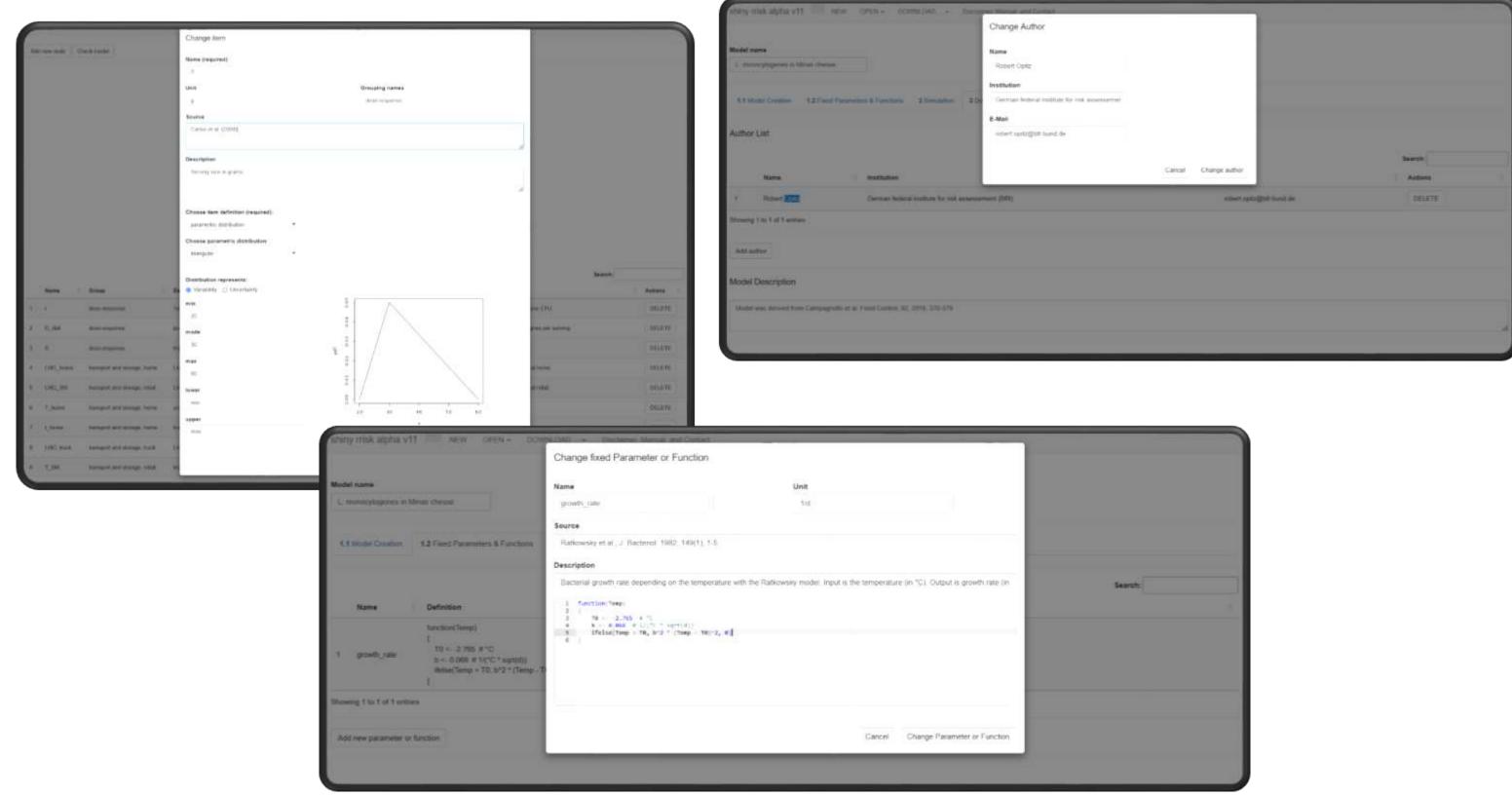


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Transparent modelling





Transparent automatic reporting



