*Replication dataset form*

**Efficient uncertainty quantification for impact analysis of river works**

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*Table of contents and brief description of replication files (RF)*

**RF1: SOBEK hydraulic models <RF1\_models.zip>**

This RF contains the three basic SOBEK hydraulic models:

1. Reference model: idealised\_waal\_ref\_steady.dsproj
2. Dike Relocation intervention: idealised\_waal\_dikerelocation\_steady.dsproj
3. Vegetation removal intervention: idealised\_waal\_vegremoval\_steady.dsproj

To open these files you require software version SOBEK 3.4.2 or higher

**RF2: Samples <RF2\_samples.xlsx>**

This RF contains the quasi random sample and stratified subsamples

**RF3: Code <RF3\_code.zip>**

This RF contains the Python (language syntax 2.7) source code implementation of the methods described in the paper.

**RF4: Model output <RF4\_modeloutput.zip>**

This RF contains the output of all model runs

**RF5: Figure data <RF5\_figure\_data.zip>**

This RF contains all data needed to reproduce the figures in the paper.