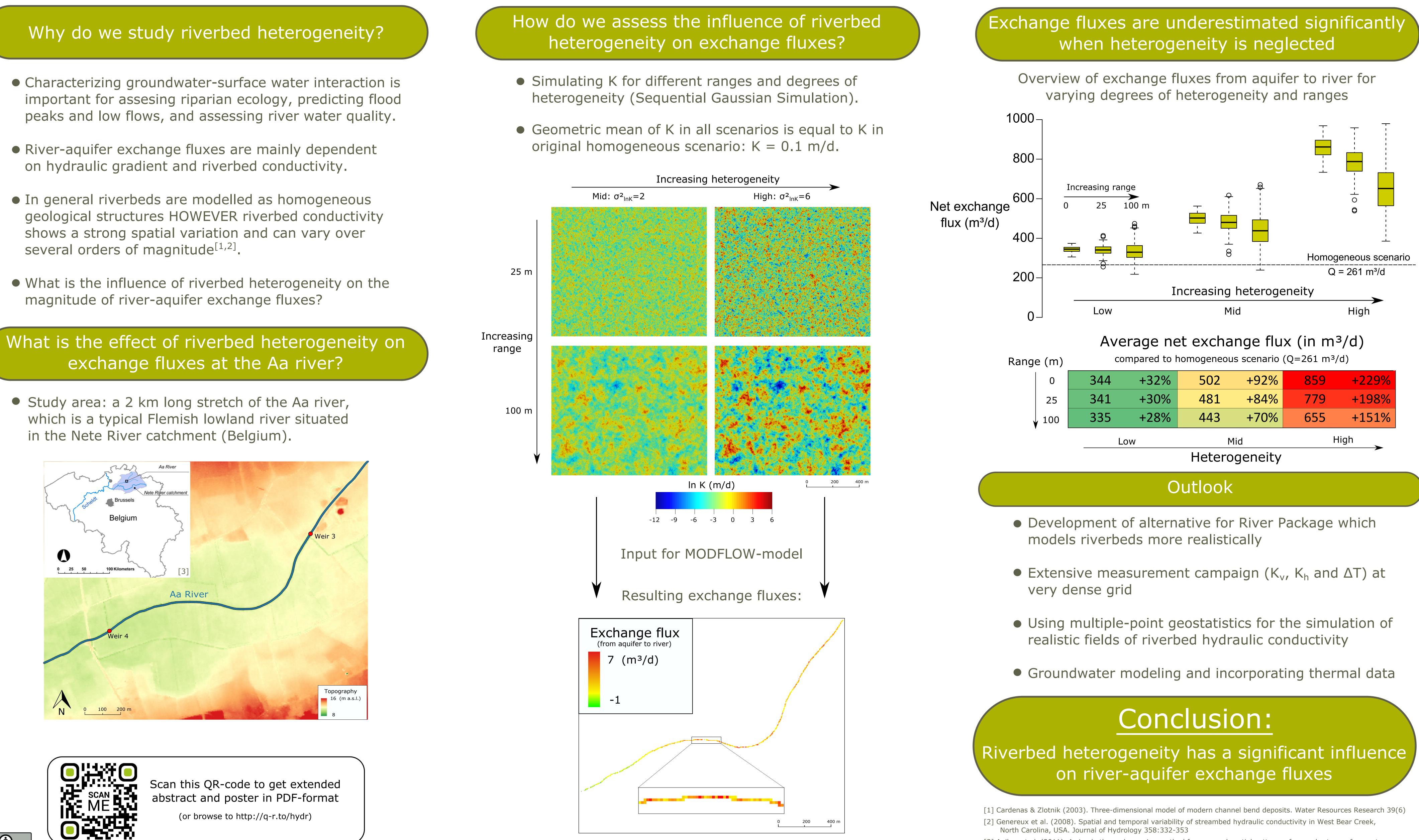
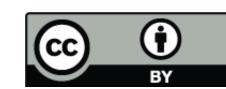
# Assessing the influence of riverbed heterogeneity on river-aquifer exchange fluxes

- on hydraulic gradient and riverbed conductivity.
- In general riverbeds are modelled as homogeneous several orders of magnitude<sup>[1,2]</sup>.
- magnitude of river-aquifer exchange fluxes?

Study area: a 2 km long stretch of the Aa river, which is a typical Flemish lowland river situated in the Nete River catchment (Belgium).







Gert Ghysels & Marijke Huysmans Department of Hydrology and Hydraulic Engineering, Vrije Universiteit Brussel

> [3] Anibas et al. (2011). A simple thermal mapping method for seasonal spatial patterns of groundwater-surface water interaction. Journal of Hydrology 397:93-104





Hotorogonaity				
	Μ	lid	High	
28%	443	+70%	655	+151%
·30%	481	+84%	779	+198%
·32%	502	+92%	859	+229%