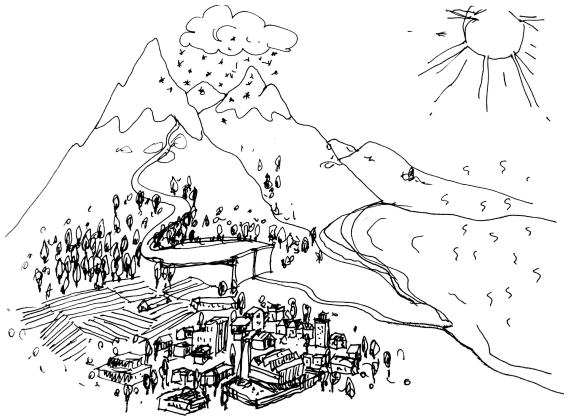
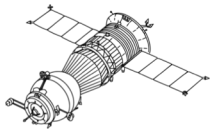
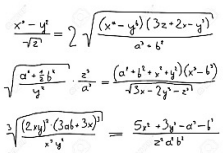
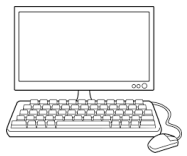
Francesca Pianosi
Lecturer in Water and Environmental Engineering
University of Bristol

EPSRC Early Career *Living with Environmental Uncertainty* Fellowship
"Robust and transparent planning and operation of water resource infrastructure"
(2017-2022) [EP/R007330/1]



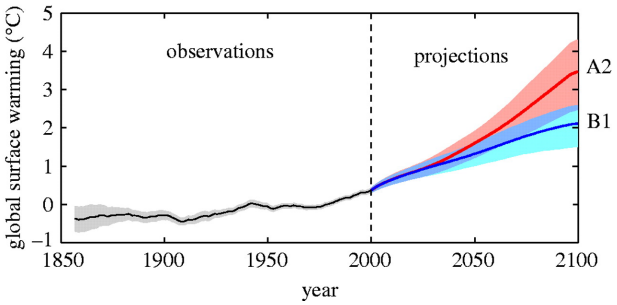
My research interests is the advancement and application of systems analysis and mathematical modelling to improve the understanding and inform the management of environmental systems (and water systems in particular)



My Fellowship project brings together my two main lines of research:

[1] Uncertainty and sensitivity analysis of simulation models



[2] Planning and management of water resource systems

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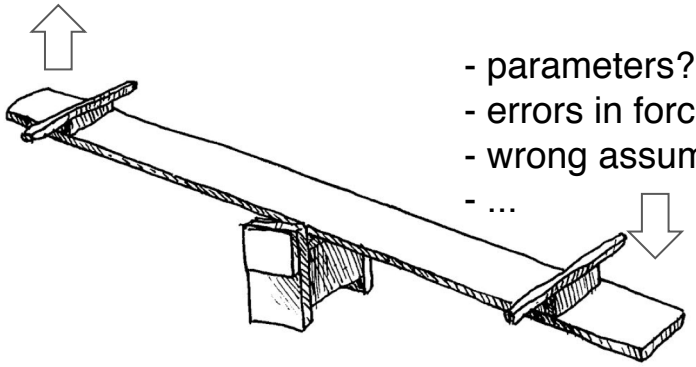
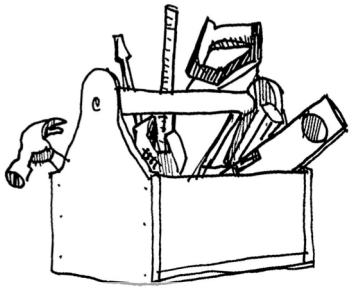
[1] Uncertainty and sensitivity analysis of simulation models

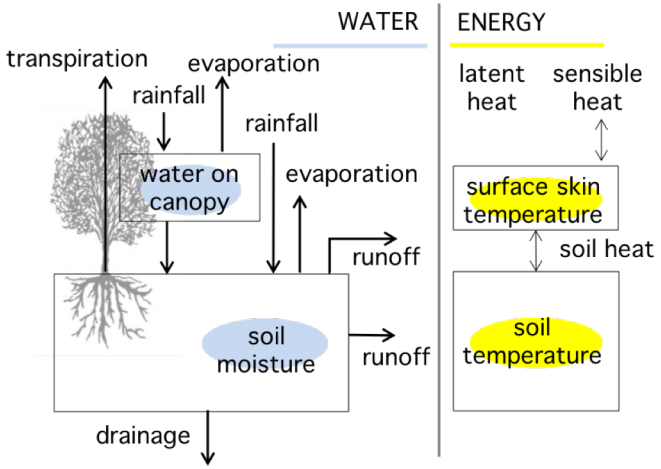
Where does the variability of model predictions come from?



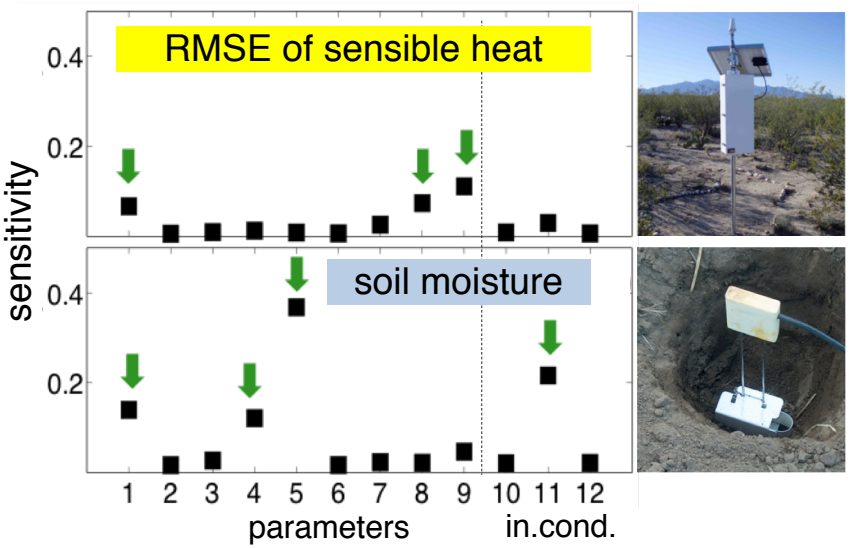
- parameters?
- errors in forcing input data?
- wrong assumptions?
- ...



www.safetoolbox.info



[Pianosi et al 2016]



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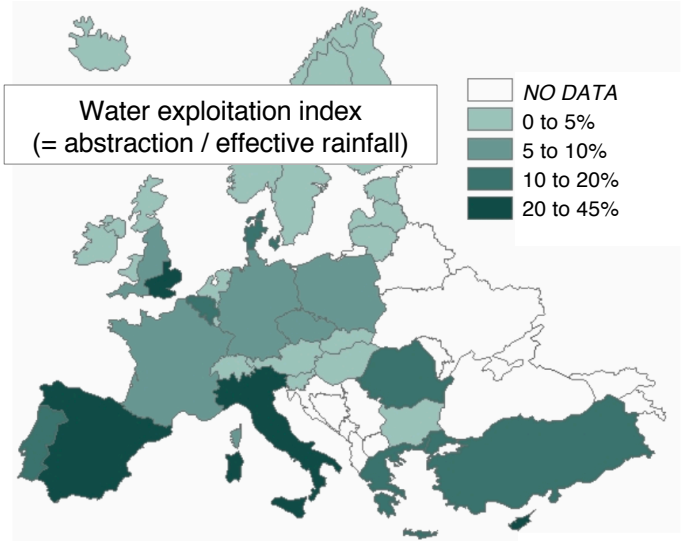
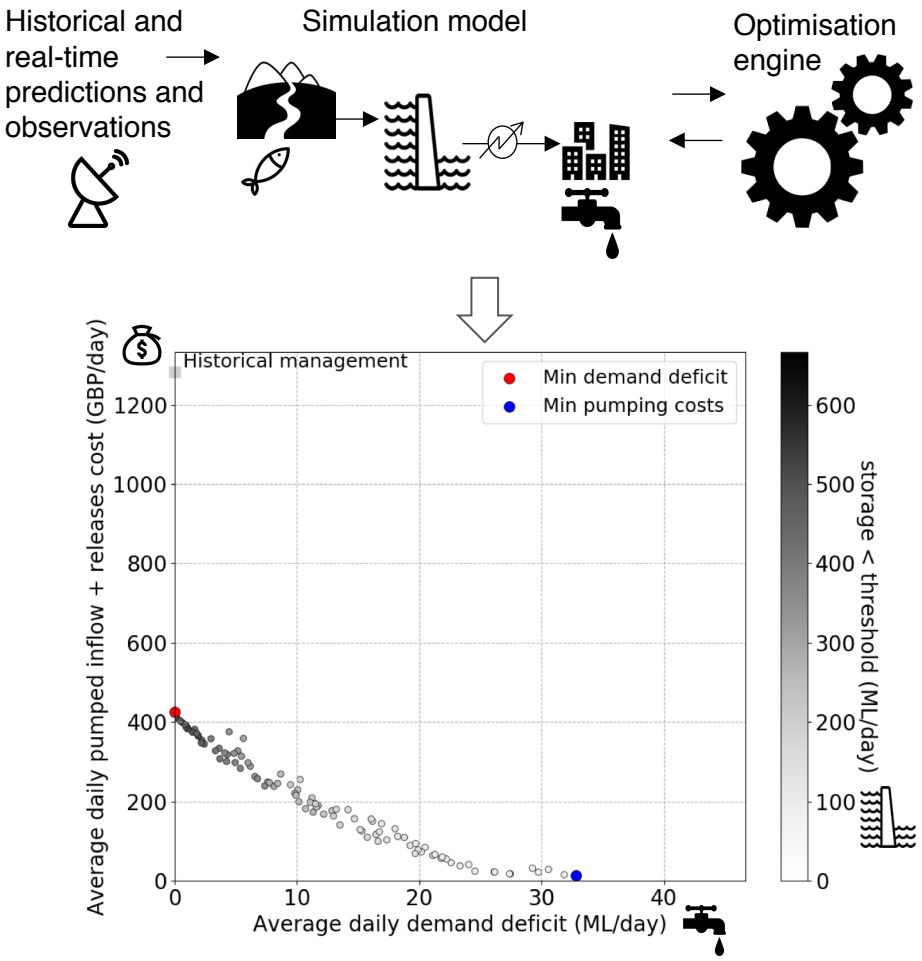
[2] Planning and management of water resource systems





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