

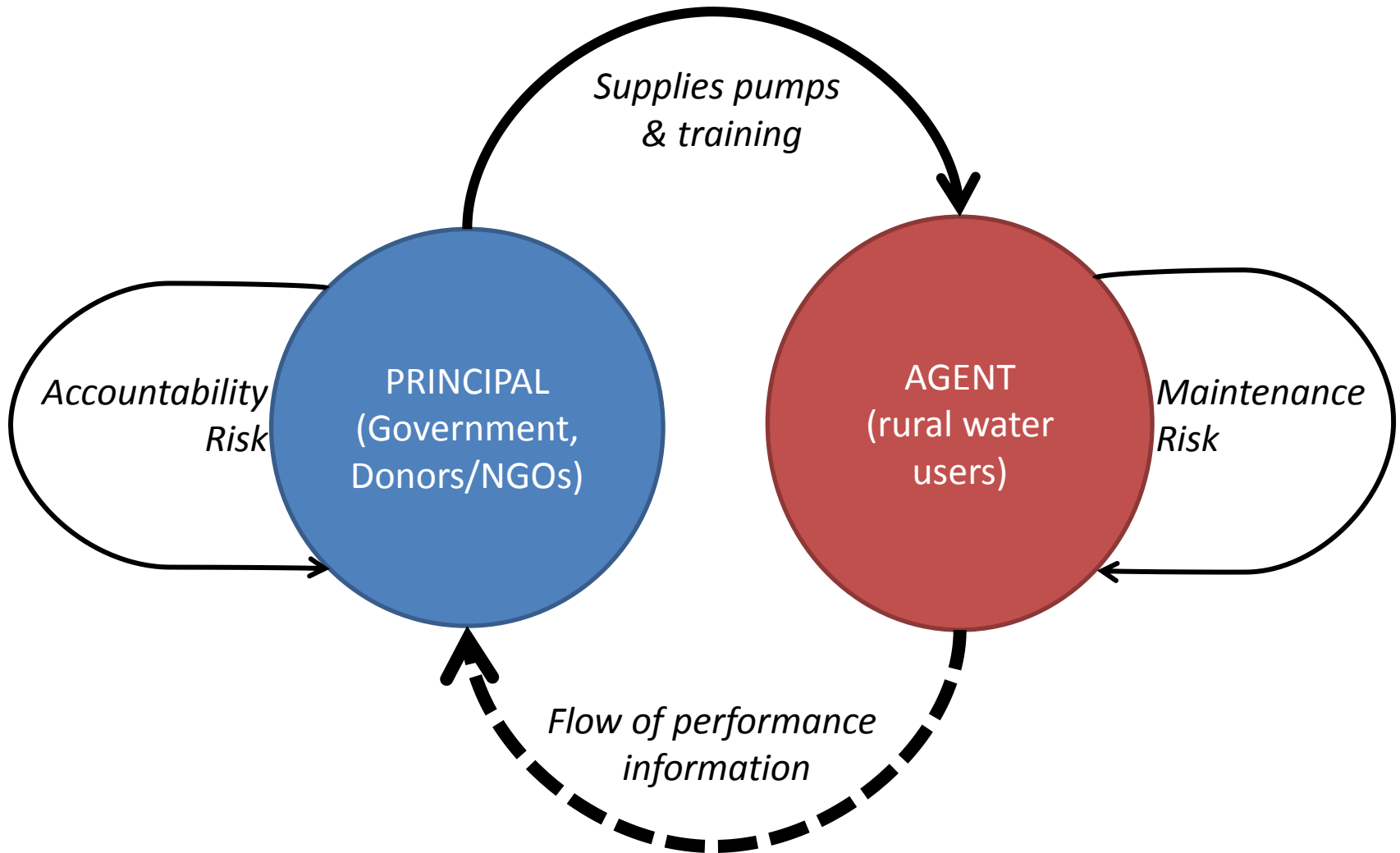
# *Smart handpumps & rural water security risk*

*Rob Hope, Patrick Thomson & colleagues, Oxford University*

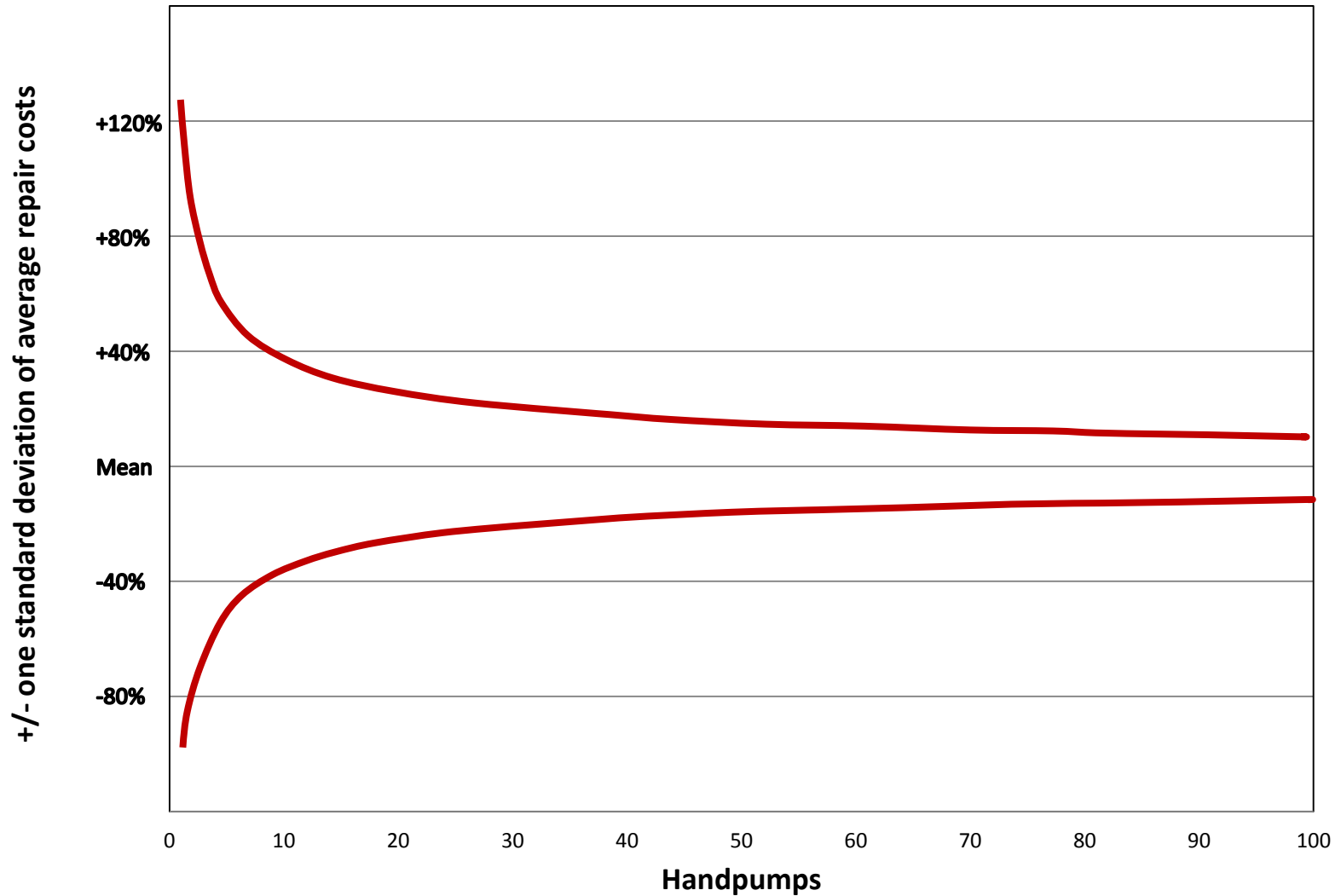
*Water Security, Risk & Society*  
*St Hugh's College, Oxford University*  
*18<sup>th</sup> April, 2012*



# *Understanding rural water security risk as a Principal-Agent problem*

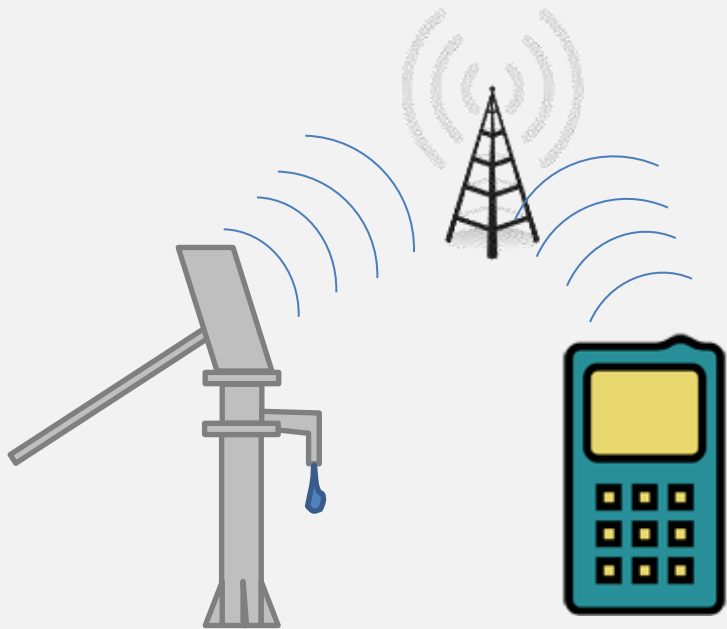


# *Logic of pooling financial risk at scale to smooth handpump repair costs*

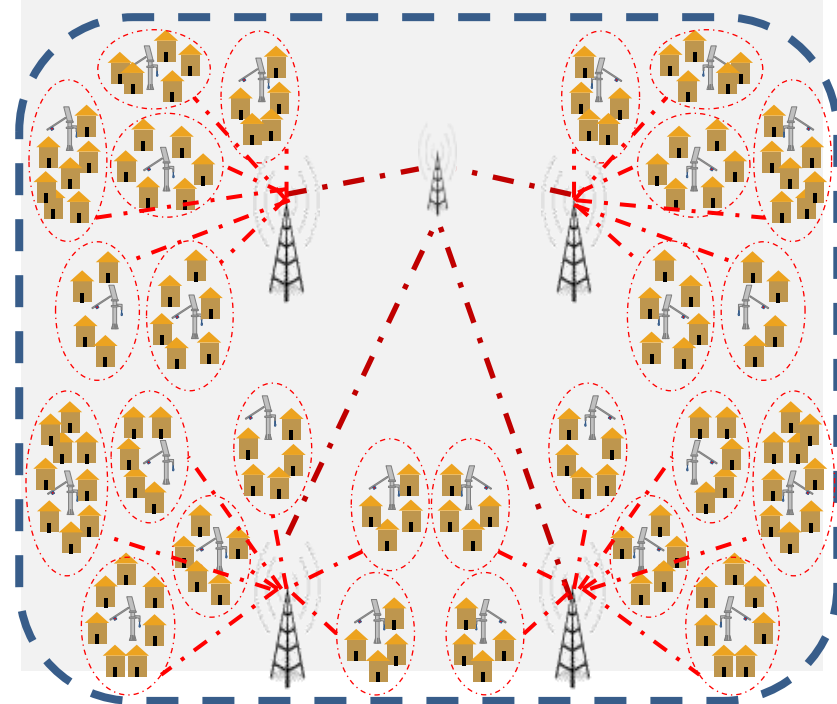


*Smart handpumps can monitor groundwater abstraction, pool risk of handpump repair costs, and drive accountability and transparency in the rural water sector*

Smart handpumps monitor functionality and water delivery of dispersed rural handpumps



O&M models at scale could pool risk and provide basis for more accountable service delivery





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smart handpumps



smart rivers



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mw4d is a research initiative within the [Oxford Water Futures Programme](#) at the University of Oxford. mw4d seeks to apply mobile communications technologies within the water sector, with the aim of improving water security and reducing poverty in the developing world.

