

Using ABM to model geographical systems: Hard lesson's learnt and challenges

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Developing spatially representative agent-based models (ABMs) presents a unique set of challenges. Often we need to capture noisy and complex processes and dynamics at multiple spatial scales. Added to this is the challenge of simulating the behaviour of individuals. This talk will briefly present the main challenges that modelling spatially dynamic systems offer. Based on current and past work within the Centre for Spatial Analysis and Policy at Leeds, I will discuss potential solutions for some of these challenges including how to handle behaviour and the potential benefits from 'Big Data'.