## Cells and Agents: modelling the spatial and a-spatial city

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Cellular Automata (CA) and Agent Base Models (ABM) were two separate modeling approaches. They started being developed during the post IIWW and the departed from different modeling assumptions.

Nowadays, we start to defend an integration of these approaches as a way to solve the divide of the aspatial and spatial modeling environment. This presentation will explore the basis assumptions of these modeling approaches, its advantages and disadvantages; and the increasing opportunities of its integration. It will use examples from Lisbon, Porto, California in order to compare and contrast simulations that use CA and ABM as stand alone products and simulations that integrate both modeling approaches. The models SLEUTH, CVCA and IMAGICOM will be used to illustrate these new developments.

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