

# Collaborative Construction of a Simple Economic Agent-based Model of a City System

## *Working Paper*

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### **Abstract**

## **1 Description of the model**

**Ontology** We propose an agent-based model in which basic agents are cities, and their interactions causes the emergent behavior of the city system. Because of the thematic aim of the model, the following variables qualify cities :

- population  $P(t)$
- economic production of secondary sector  $E_2(t)$
- economic production of tertiary sector  $E_3(t)$