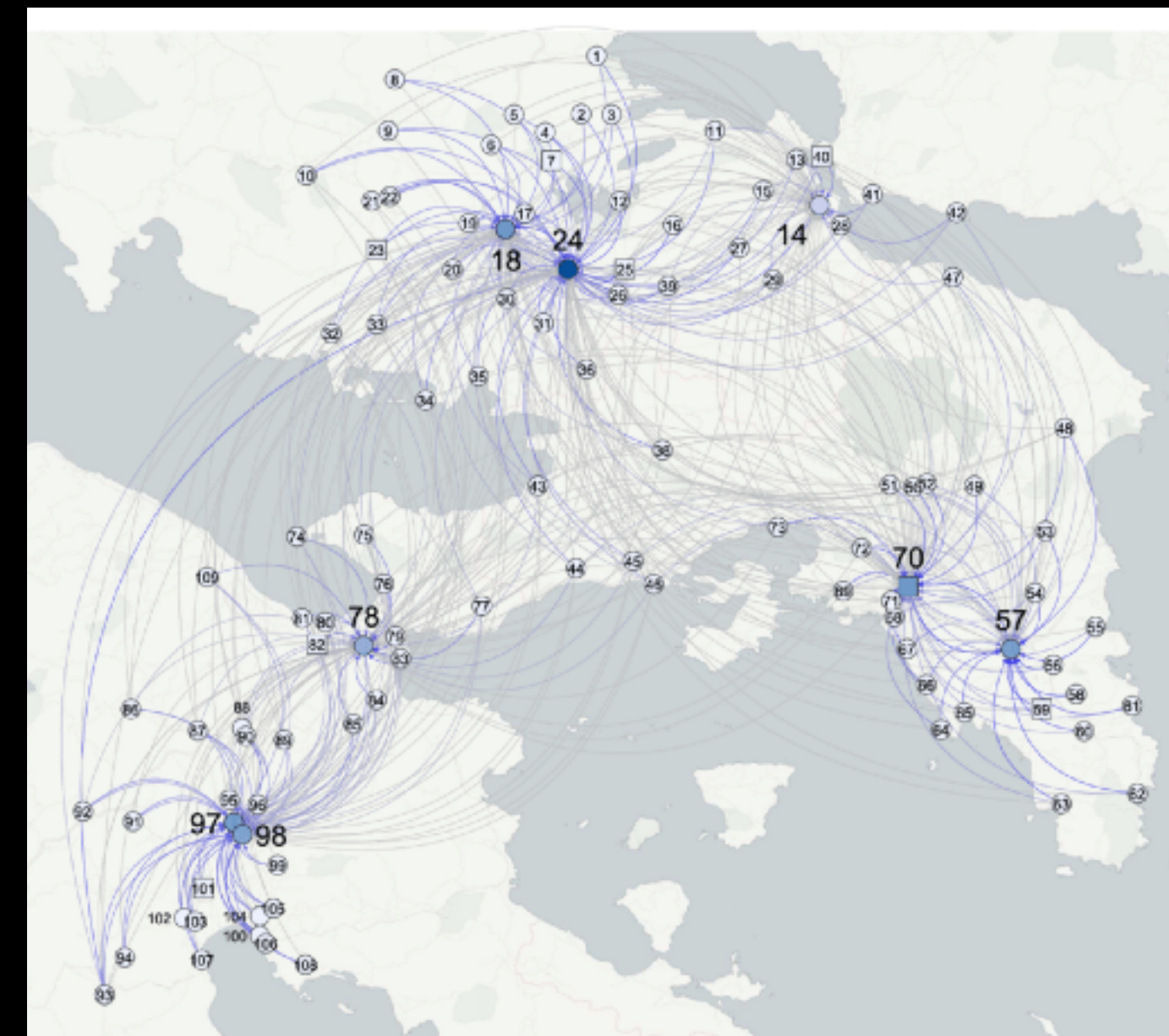


Agent based modelling vs other kinds of modelling

- One could derive a single equation, maybe, that could capture a lot of the dynamics of social systems. Here, a gravity model from retail economics is used to predict the emergence of Greek city-states

$$P_{ik} = \frac{A_i}{D_{ik}^\pi} \bigg/ \sum_{j=1}^m \frac{A_j}{D_{jk}^\pi} \quad (2)$$

$k \in j = 1, \dots, m$



But I can't do that math.

An agent model is specified at the level of the individual. This means I don't exactly need to.

- 3 key elements of agent models:
 - Individual, heterogeneous, and autonomous software units/agents
 - Rules of behaviour specified for those units
 - Explicit spatial or temporal dimensions (often, but not always)

