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Investigating a Science Gateway for an agent-based simulation application using Repast

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The Repast-infection-model is an example of an Agent-Based Simulation Infection Model implemented in the well-known Repast Simphony agent-based simulation toolkit. Agent-based simulation is a highly useful technique that allows individuals and their behaviours to be represented as they interact over time. This means that, with appropriate data, agent-based simulation can be used to study various socio-medical phenomena such as the spread of disease and infection in a population.
In this section we will show how a science gateway could support the study of the spread of disease or infection in a population. As well as having direct healthcare application, it can also be used in the field of health economics to study the cost effectiveness of various infection preventive strategies.

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