

Data Assimilation for Agent-Based Modelling

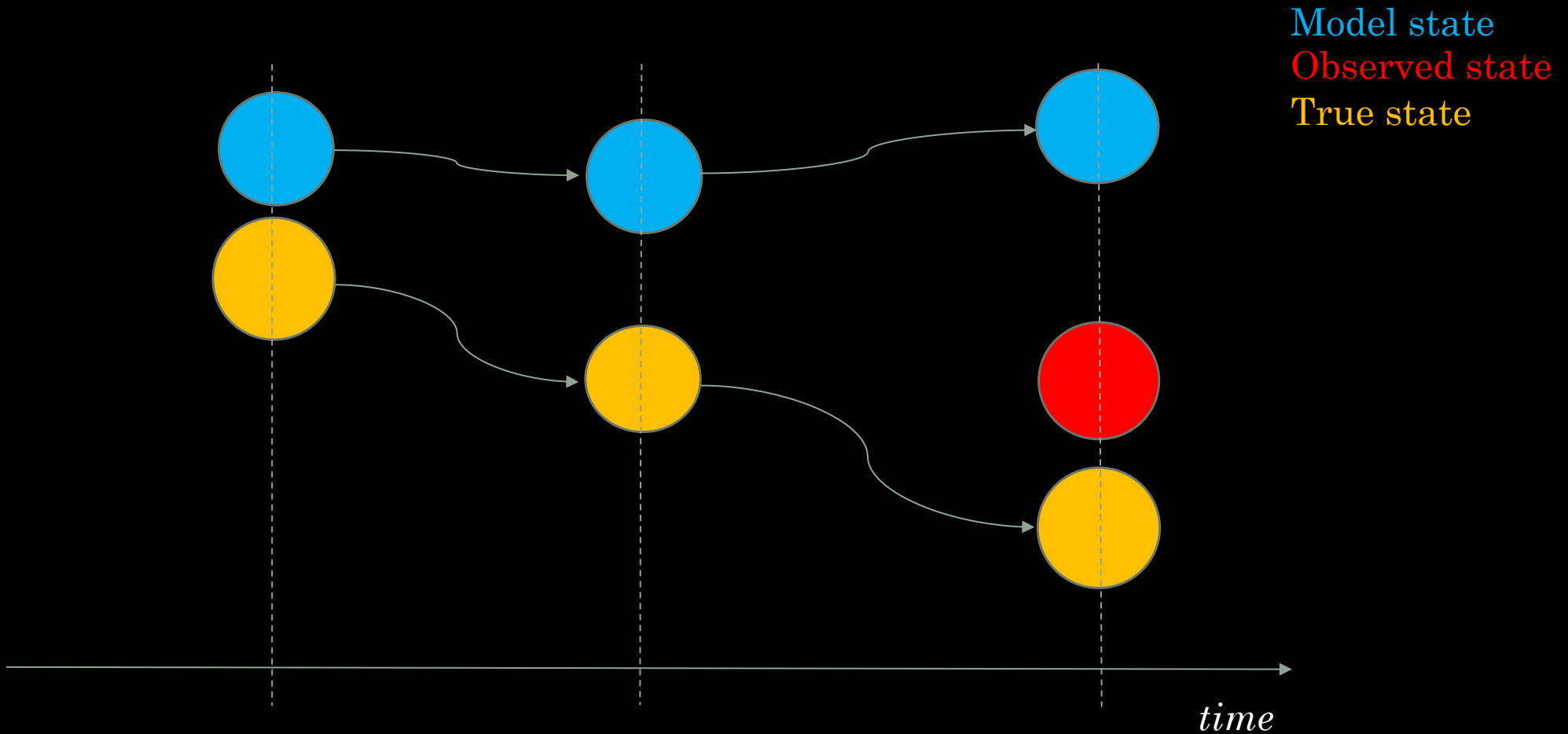
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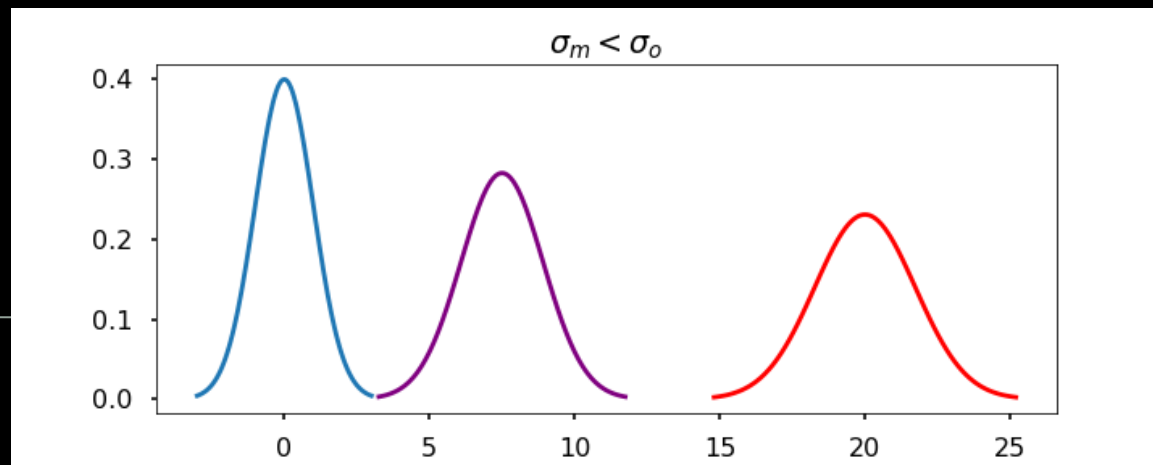
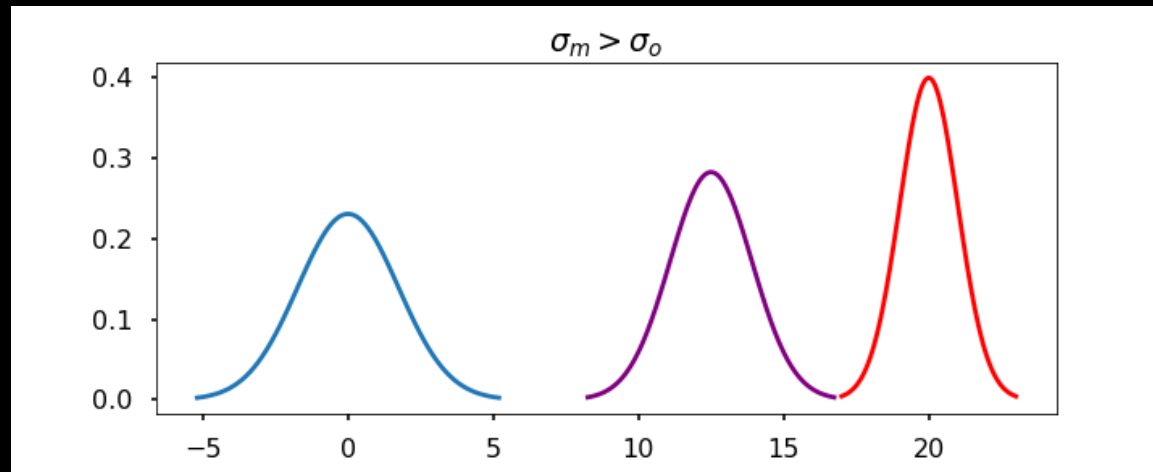


Data Assimilation

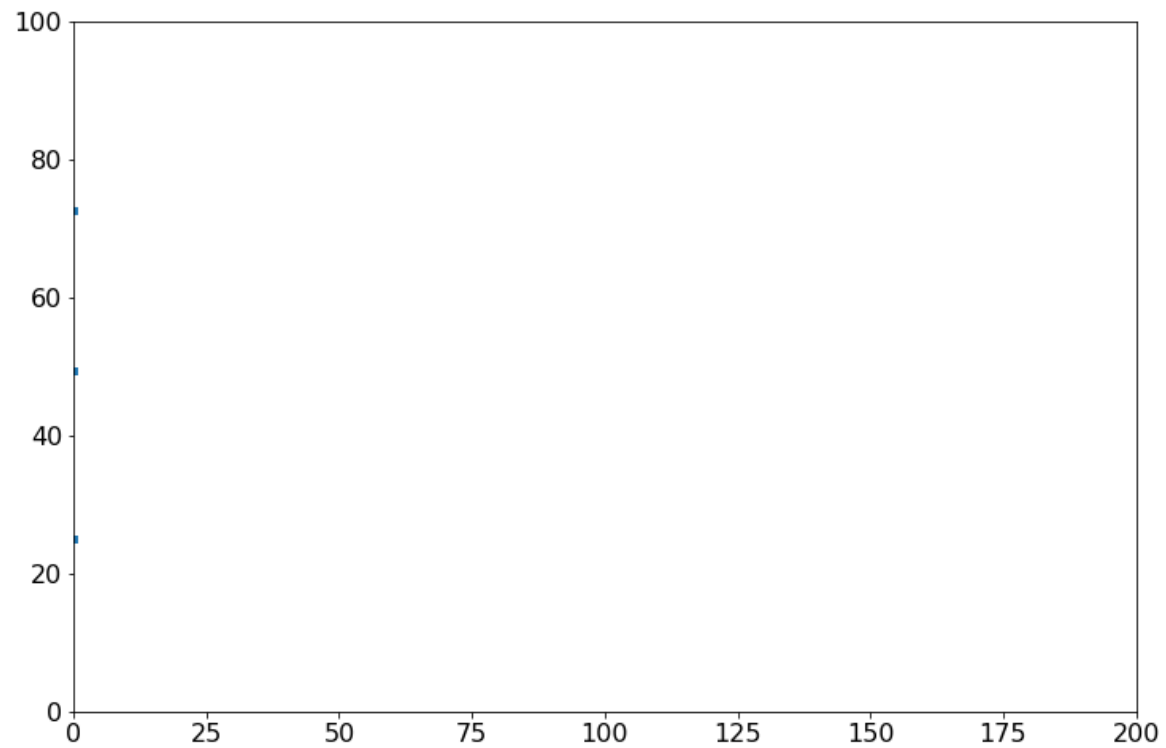


Ensemble Kalman Filter (EnKF)

Model state
Observed state



Agent-Based Model



Ongoing and Future Work

- Implement EnKF with agent-based model
- Investigate the impact of varying filter parameters
- Compare effectiveness of EnKF against other data assimilation methods
- Implement EnKF with agent-based model using real data

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Project repo: <https://github.com/Urban-Analytics/dust/>