



## Examples

- Hydrology, river flow, groundwater,..
- Ecology, plant growth, animals,..
- Land use science, land use change over time
- Epidemiology, disease spreading • Traffic, traffic flows over time
- Social science, knowledge dispersal in social networks • Climate, climate simulation models

• ...



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Time step 1 year Cell size 1 km

Neighbourhood rules are used to update land use over time

















Why are simulation models valuable in (applied) research? Three aspects are important

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Model development cycle

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field data

Program the model

Use appropriate tool: • Spreadsheet • Modelling toolbox • Generic programming language

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