

# Optimising relief chain logistics

**Concept.** The idea here is

- Full sim: full event-based spatial stochastic model
  - Inference model: spatial mean field inference features using the probabilistic reweighting
  - Also use the likelihood-free inference model?
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- Humanitarian aid logistics in response to flooding, fire or other natural disasters
  - Routing of transportation
  - Where to focus searches
  - Transportation size distribution
  - Supply chain logistics of resources and allocation of budget
  - Example paper here with stochastic network models [\[1\]](#)



# Bibliography

- [1] D. Alem, A. Clark, and A. Moreno, “Stochastic network models for logistics planning in disaster relief,” *European Journal of Operational Research*, vol. 255, no. 1, pp. 187–206, 2016.