

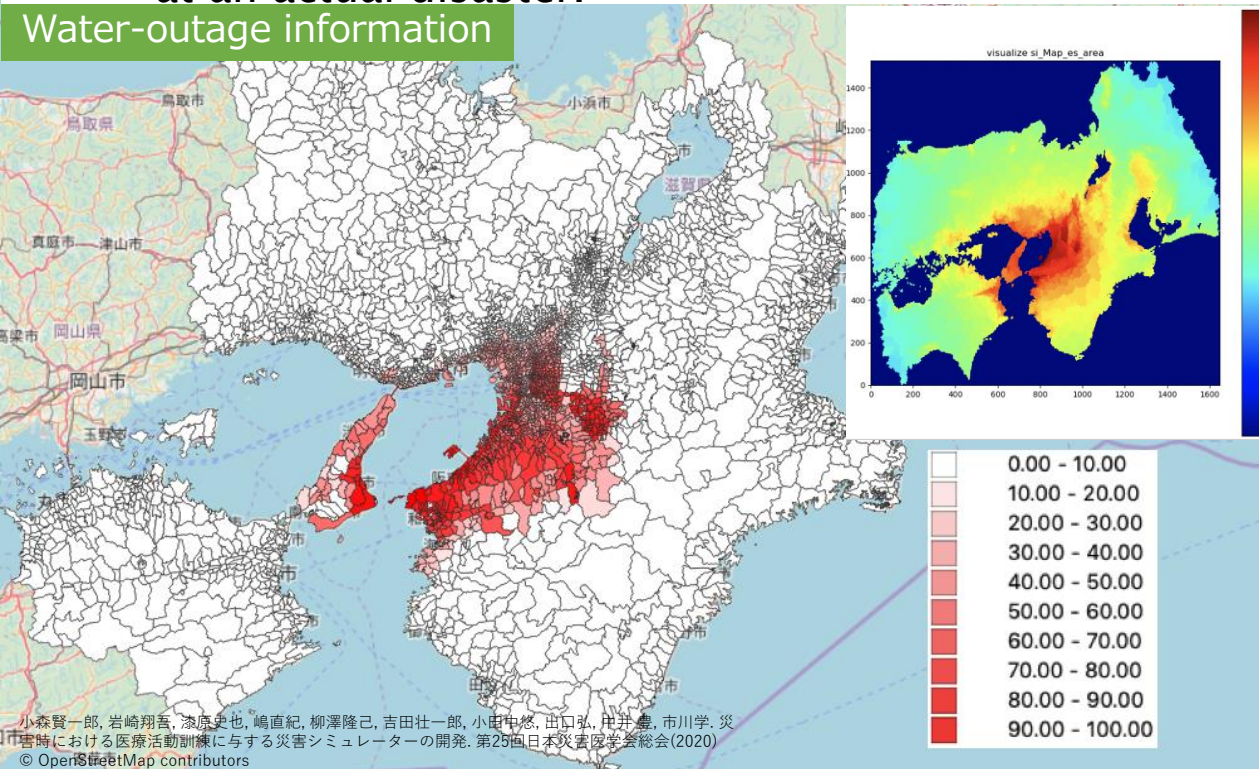
Research Introduction

Dept. of Health crisis Management K.KOMORI

simulator to reproduce the damage of infrastructure networks in a disaster

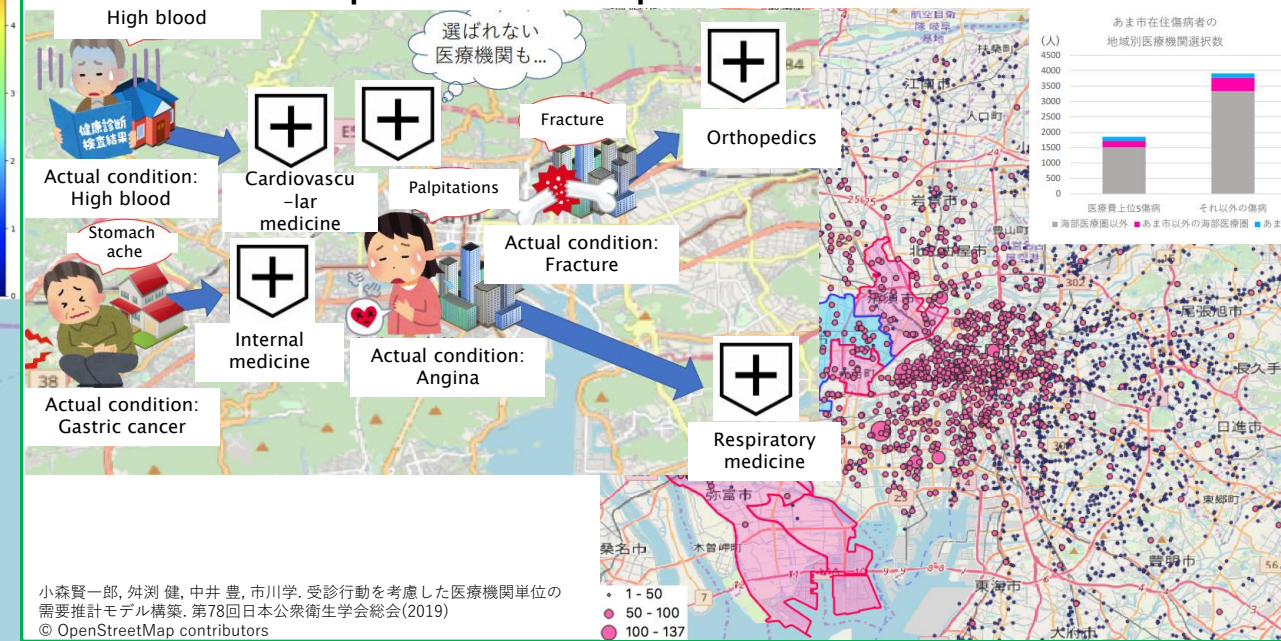
- (1) Replication of an infrastructure network of electricity, water, gas, and electrical telegraph.
- (2) Simulation of damage / outage.
 - Simulation that matches the information format at an actual disaster.

Water-outage information



Estimating medical demands for each medical institution

- Representing people and their households with attributes such as age, gender, condition, symptoms and so on in simulated city based on various statistics such as the national census.
- People choose one of the medical institutions that has a clinical department based on their own symptoms
- Representation of selective behavior, considering clinical department mismatch and the difference of first visit, follow-up visit or hospitalization.



小森賢一郎, 舛刈健, 中井豊, 市川学. 受診行動を考慮した医療機関単位の需要推計モデル構築. 第78回日本公衆衛生学会総会(2019)
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