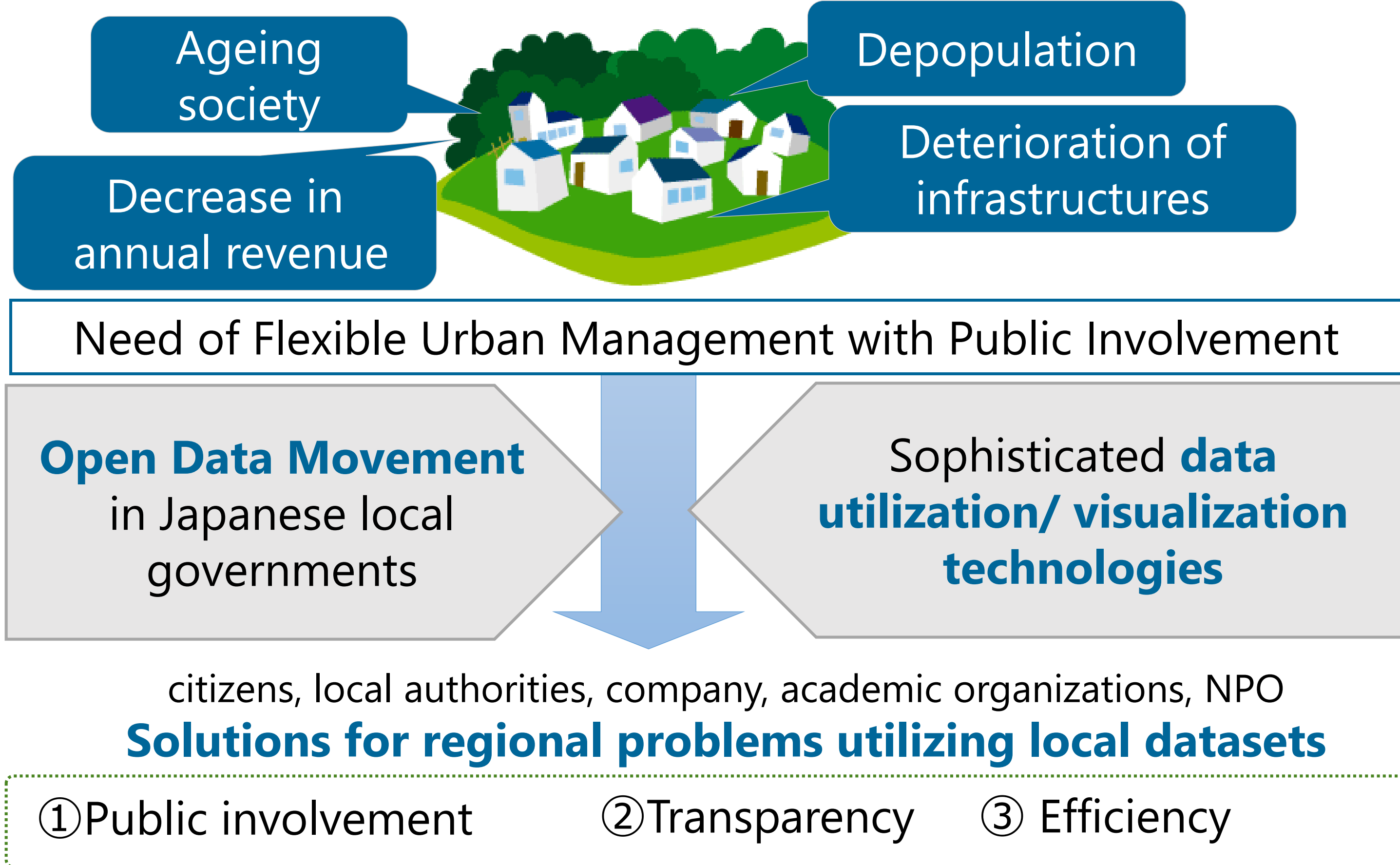


My City Forecast: Urban Planning Simulator for Citizens

Yoko Hasegawa, Yoshihide Sekimoto, Toshikazu Seto, Yuki Fukushima

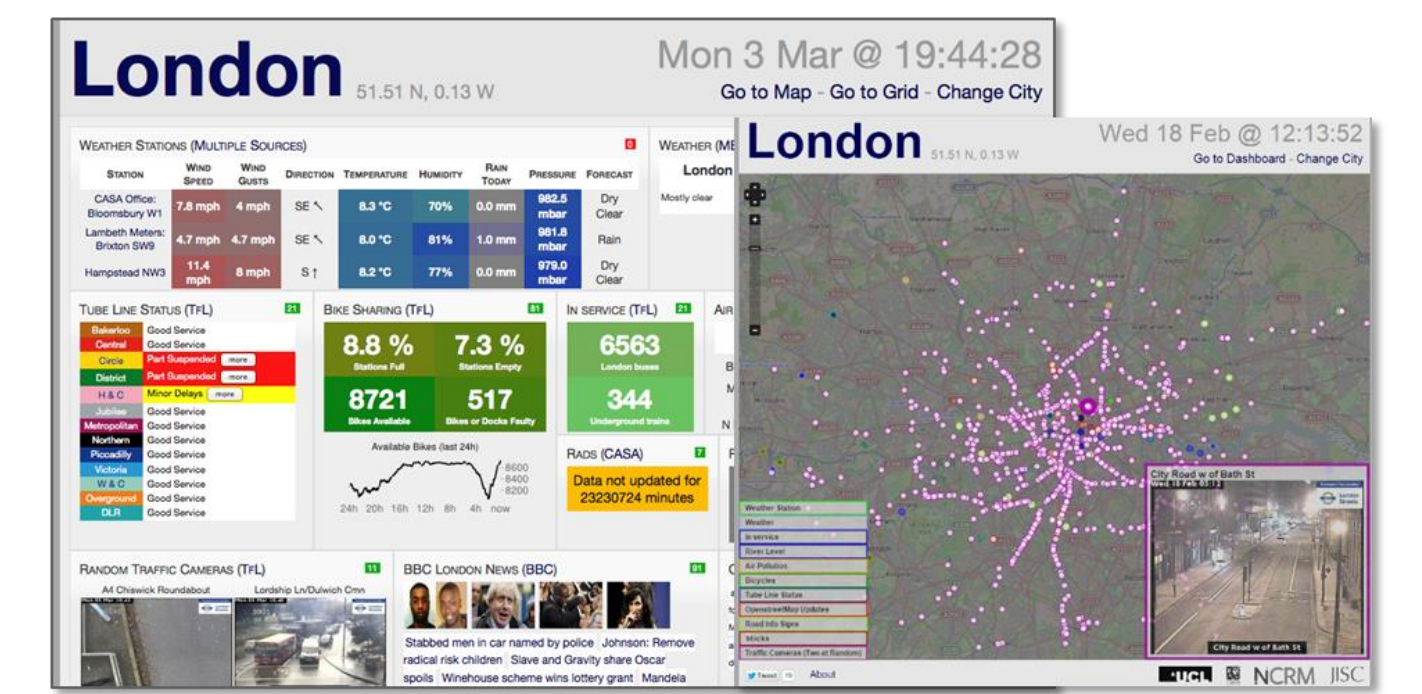
Background



Development of tools to understand your city

- Real-time city information visualization
- Public spending open data visualization

<http://citydashboard.org/london/>



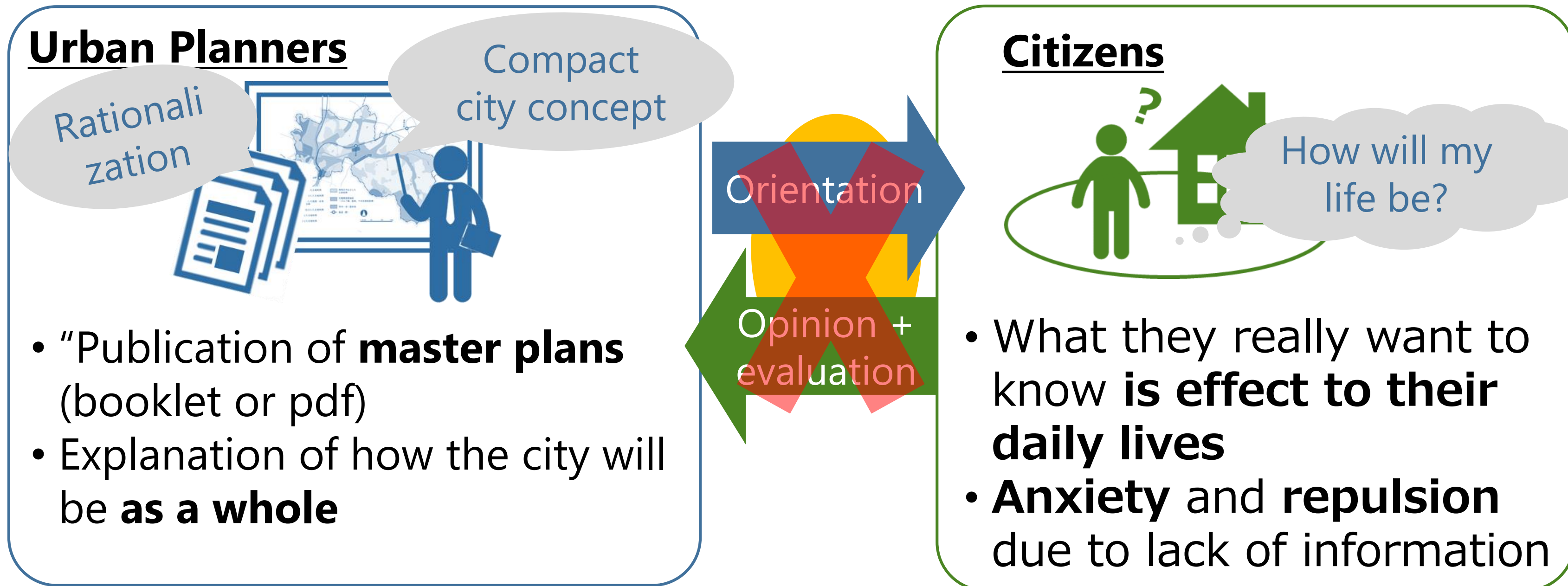
<https://openspending.org/>



Global community driven platform

Aim of Research

Lack of communication opportunities in urban planning field



<Our Aim>

To develop a tool for citizens that shows info about the future of their city to enhance their awareness and communication with urban planners.

Urban planners (Local gov.)



Can positively obtain public opinion for city management



Decide whether to agree or disagree to plans in the view of their living

Developing Web-App: 'My City Forecast'

Have a look at: <http://mycityforecast.net/>

a. Title: MY CITY FORECAST 茨城県水戸市

b. City map for area selection and visualization

c. Scroll bar for year selection (2015, 2020, 2025, 2030, 2035, 2040)

d. Estimation result of 15 indicators, comparing current, BAU case, and compact city case

e. Link to questionnaire page

<Simulation flow>

6 fundamental datasets that illustrates the urban structure

- Population distribution
- Urban facility distribution
- Public transportation system
- Green land distribution
- Land use plans
- Administrative cost information

input
Population distribution model

- Cohort estimation
- Change of residential areas

Urban facilities distribution model

- Withdraw based on population density threshold

Administrative cost

- Change according to population and number of urban facilities

output

15 indicators of living environment

a: title b: city map for area selection and visualization c: scroll bar for year selection d: Estimation result of 15 indicators, comparing current, BAU case, and compact city case e: link to questionnaire page