# SEKIMOTO LAB.

[Urban Relate Spatial Information – Science for City and People –]

Department of Human and Social Systems

Human Centered Urban Informatics

Department of Civil Engineering Department of Advanced Interdisciplinary Studies Center for Spatial Information Science

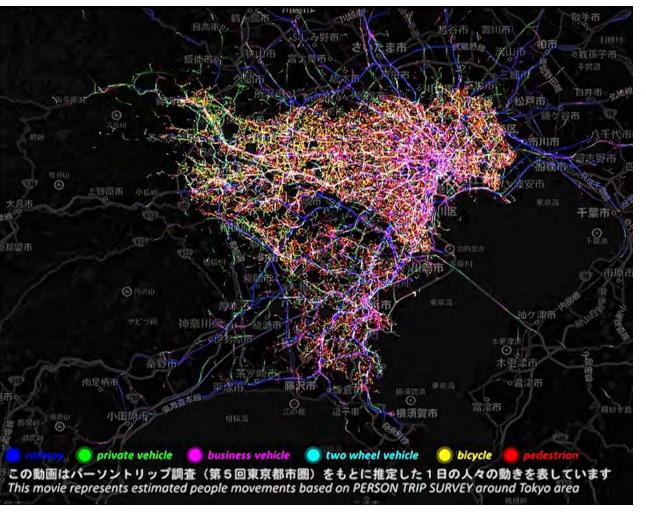
http://sekilab.iis.u-tokyo.ac.jp

Assembling spatial information related to people, objects, and events in urban and local area helps understand past/current/future situations through compilation, analysis, and share. We study on discovering and solving wide variety of social-issues with such spatial information.

# **Estimating People Flow in Combination of Sensing and Behavior Modeling**

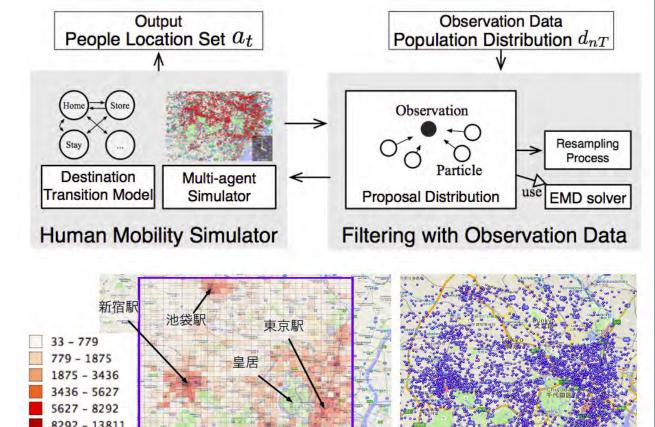
**People Flow dataset** 

We develop datasets for people mass movement and provide the datasets to researchers and the general public.



**Data Assimilation** Method Approach

We realize highly accurate human flow estimation by assimilating observation data into behavior model.

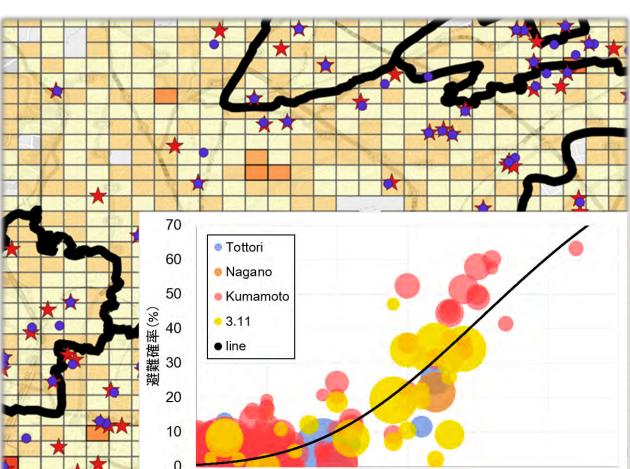


定結果のメッシュ分布

**Unravelling People Movement in Specific Contexts** 

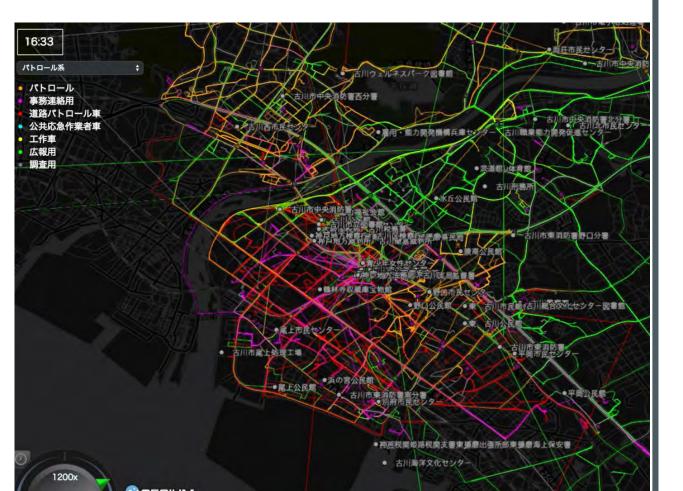
### **Human Movement Analysis in Disasters**

We analyze irregular human behavior after disasters using location information.



### **Public Vehicle Analysis**

We analysis public vehicle use with GPS data and the possibility of use optimization.

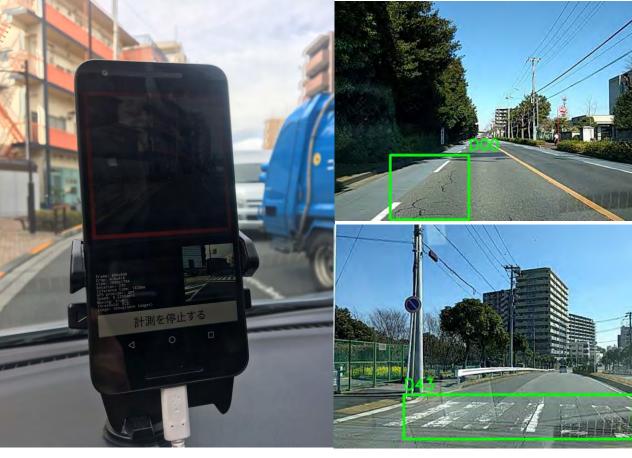




# **Monitoring Urban Infrastructure Rapidly and Cheaply**

#### **Road Monitoring**

We monitor road damage by image processing using smartphone and deep learning.



On board Smartphone

**Road damages** 

#### **Sky Monitoring**

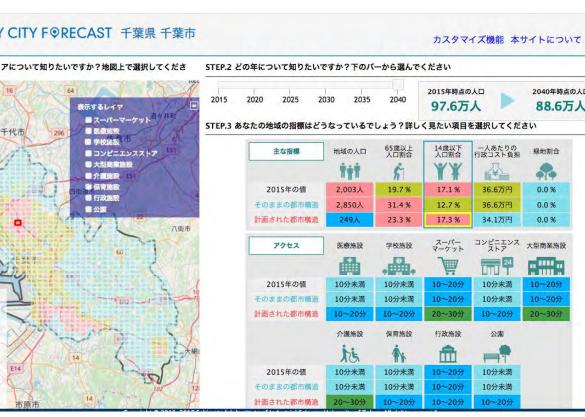
We observe the sky by image monitoring and classify flying objects.



# **Operating Cities by Designing and Establishing Information Distribution**

#### **Urban Planning** Simulator

We simulate future urban structure and visualize the results with familiar indicators.



# **Distribution of Geospatial Information**

We promote distribution of geospatial information held by the public and private sectors.



		🍃 データセッ	トから探す
タセット数	ファイル数	登録組織数	データセットへ >
,068	11,310	422	





