

## Digital twin simulation for better disaster prevention planning

Our system enables Evidence Based Policy Making (EBPM) for municipal disaster management plans

**#Business Resilience** 



## ///Technical Issue

Disaster prevention plans often rely on local government employees' experience rather than evidence, especially for assisting those unable to return home.

## ---Technology

A Digital twin simulation will be performed by integrating DOCOMO's demographic data with municipality's open data (such as detailed city maps, person-trip surveys results, and signal information) and utilizing high-speed computing resources from the city's research institute.

## ---Applicable Business

---Novelty

///Research Goal

The first simulation in Japan to combine private-sector and municipal data based on detailed city information; offered as a NTT Group product for the public sector, reducing the amount of work municipalities spend on disaster prevention measures by about 45%.

Developing a system for instant, accurate

evacuation simulations based on scientific

evidence, adaptable to municipal changes,

without needing specialized knowledge.

This will be applied disaster prevention plans, like helping those unable to return home and preventing crowd crushes, as well as urban planning for pedestrian flow and evacuation routes during city redevelopment, by around 2026.