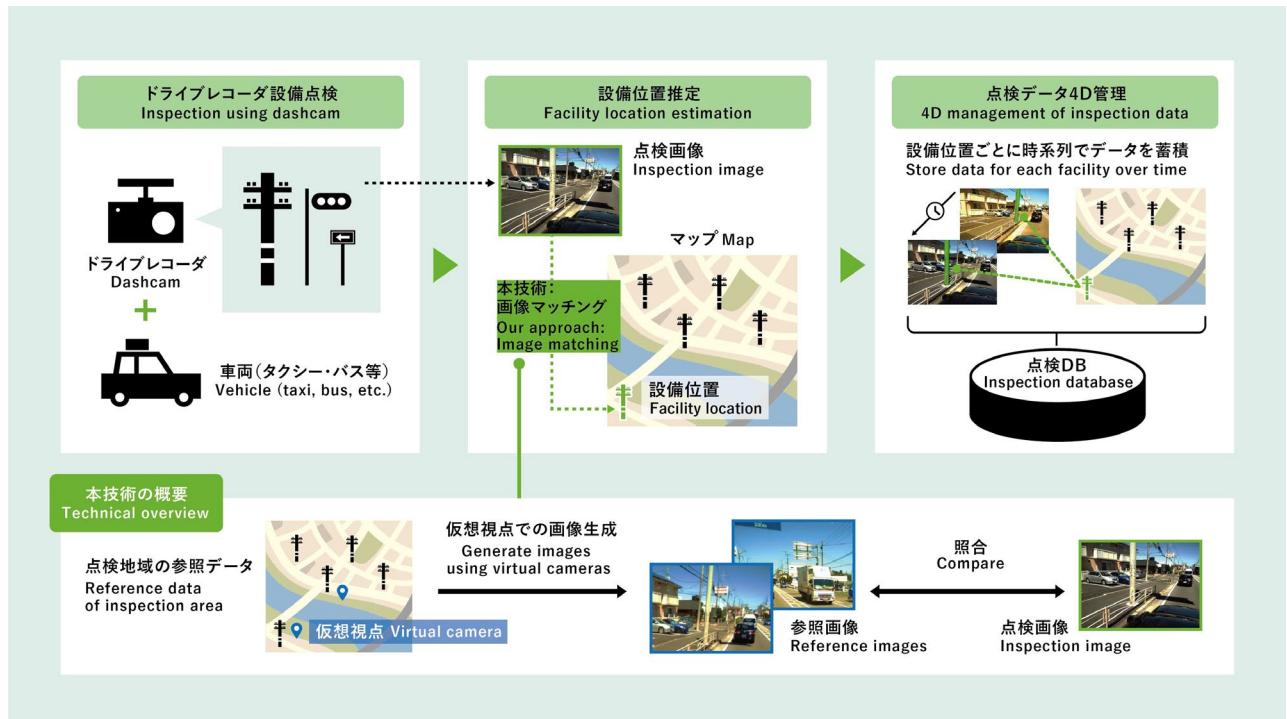


Estimating facility location in dashcam images for time-series management Mapping infrastructure for 4D management

Background and Technical Challenges

Dashcams have begun to be used for infrastructure inspection. However, dashcam GPS accuracy is insufficient to estimate facility locations in the inspection images.



R&D Goals and Outcomes

Estimating facility locations in images enables automated inspection data management and supports repair planning and data sharing.

Key Technologies

01 Core Technologies

- Build reference data using NTT's Mobile Mapping System.
- Estimate facility locations by comparing inspection images with virtual-reference ones.

02 Key Differentiators

- Dashcam GPS errors (of up to 10 m) prevent precise estimation of facility locations.
- Our method targets 50 cm-level facility localization using image matching.

Use Cases Smart City

R&D phase Research

Technology Schedule FY25-26

Commercialization Schedule FY27-29

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