

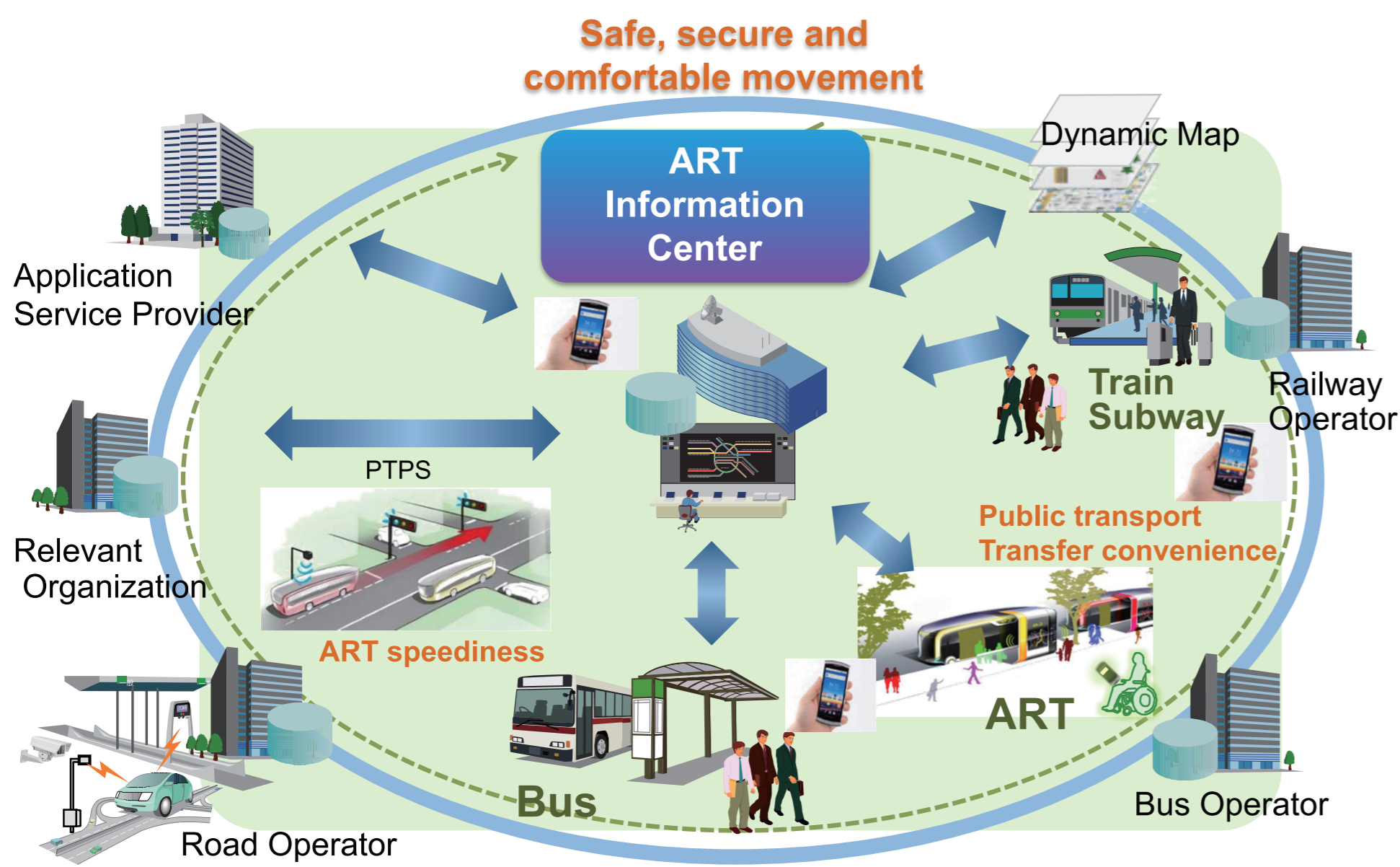


Next Generation Transport

Smart Mobility Service by ART(Advanced Rapid Transit) Information System

■ ART Information Center

- The center works as an open platform for traffic-related data collection and utilization



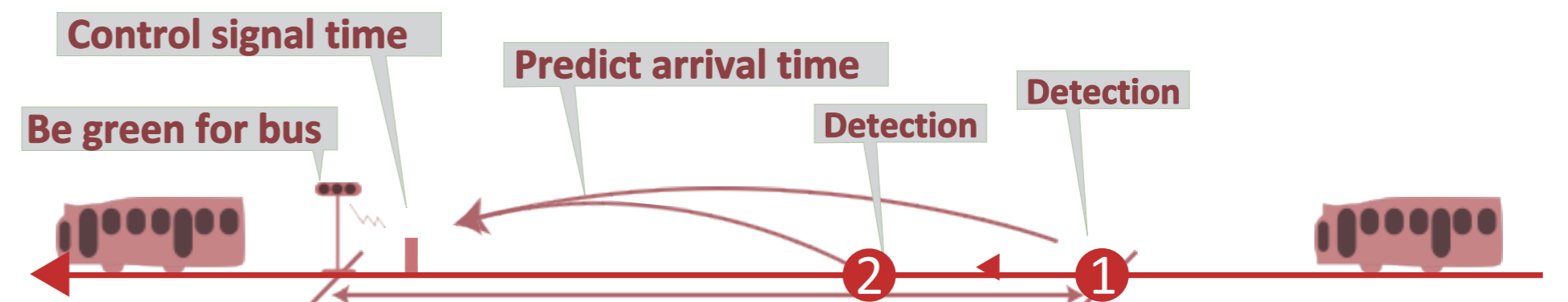
Functions evaluated in verification experiment

- Advanced PTPS priority mediation
- API and application services
- Provision of pedestrian transfer support data
- Provision of information for bus user (ex. Bus congestion, getting on/off timing)

■ Verification on the speediness of ART by Advanced PTPS (Public Transportation Priority Systems)

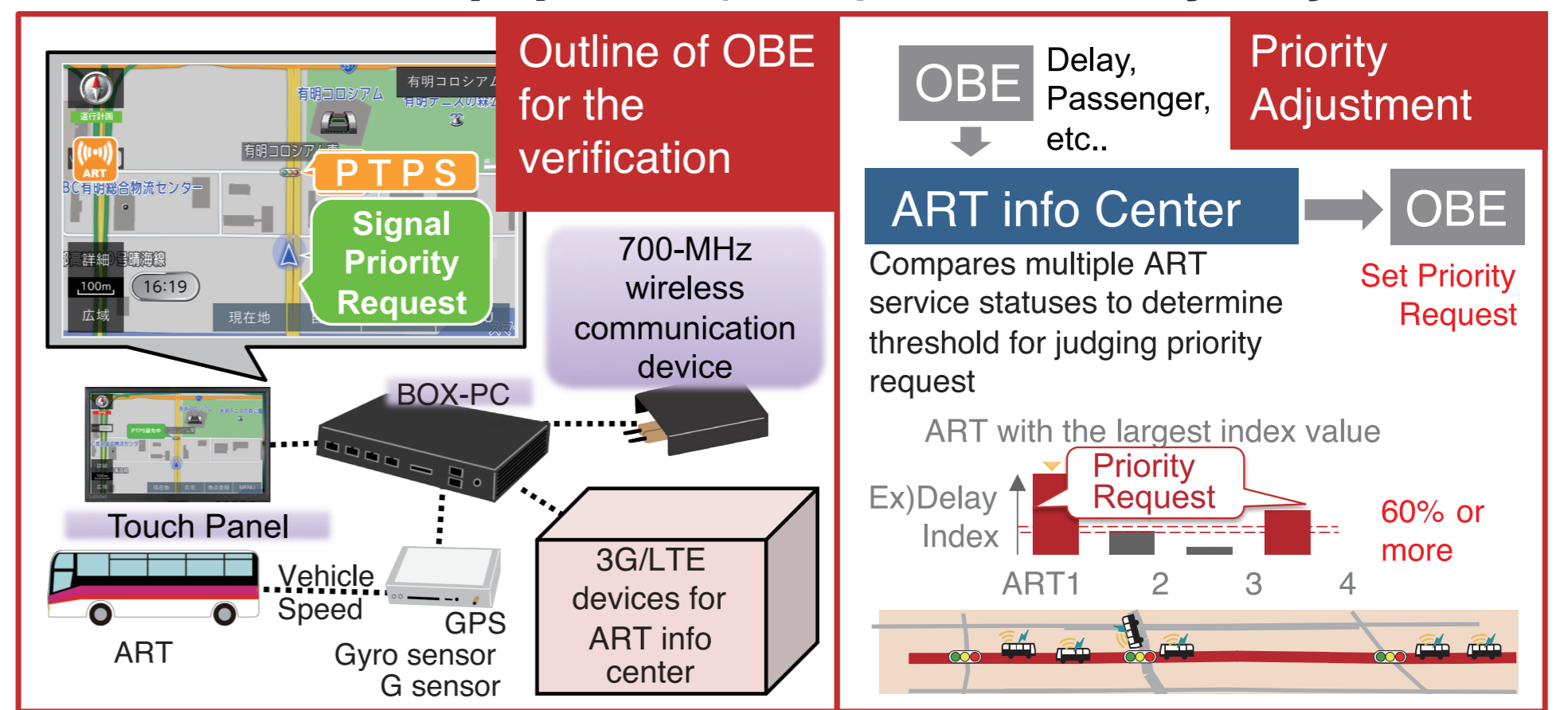
- Advanced PTPS can control signal time flexibly as the situation demands using 700MHz band.

Detecting twice and communicating with driver



Advanced PTPS detects approaching ART twice at an intersection and decides to extend green time, to shorten red time or to keep same signal time. Then, the system sends the information of the traffic signal to the ART driver.

The on-board equipment(OBE) and Priority Adjustment



■ Congestion Forecast, Congestion Avoidance, Verification Test

I. Congestion Forecast:

Forecasting daily/unusual transportation demand

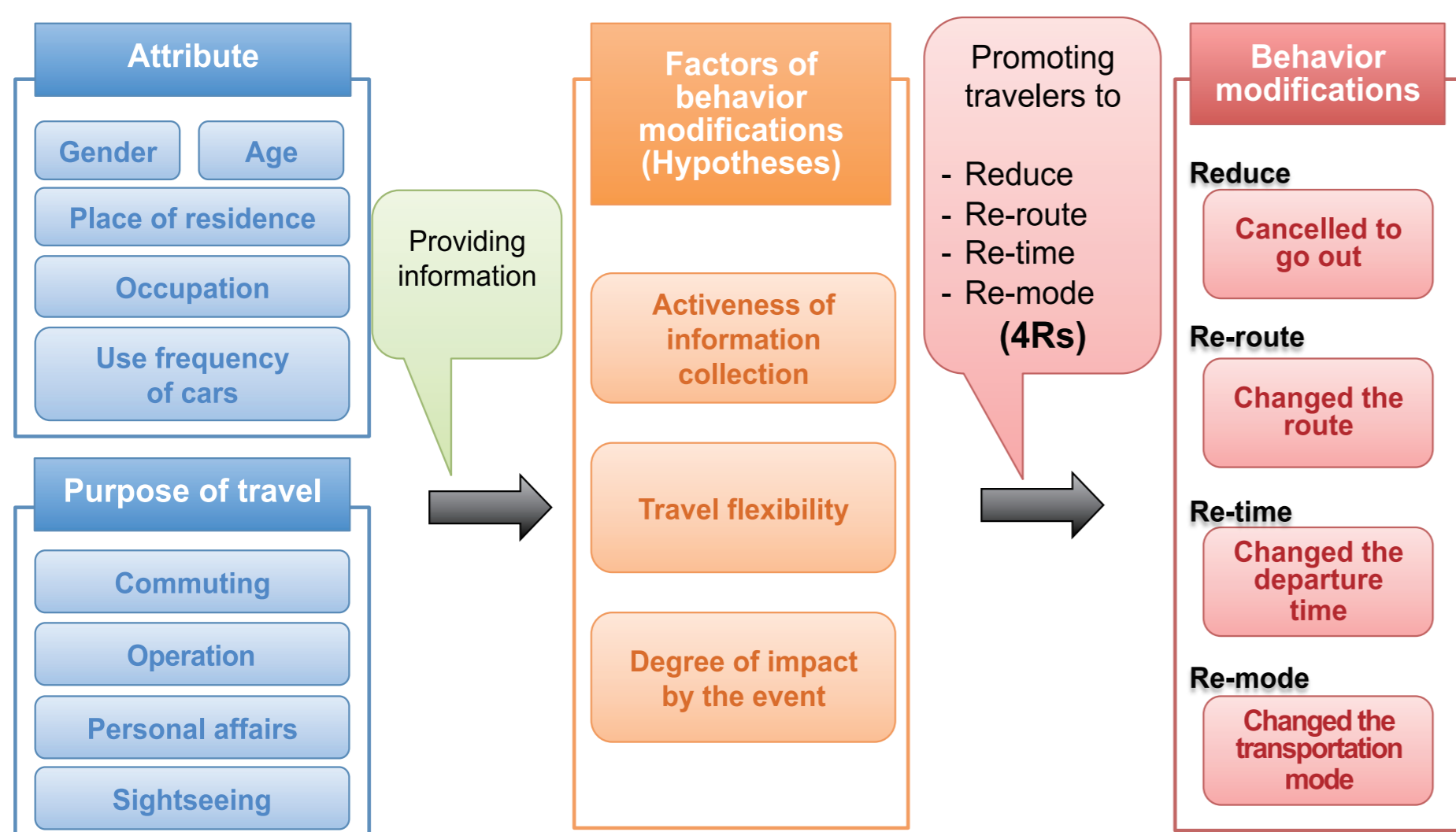
II. Congestion Avoidance :

Studying/verifying the technologies to avoid congestions by providing information corresponding to attribute, purpose of travel, etc.

III. Verification Test :

Design/implementation of verification test

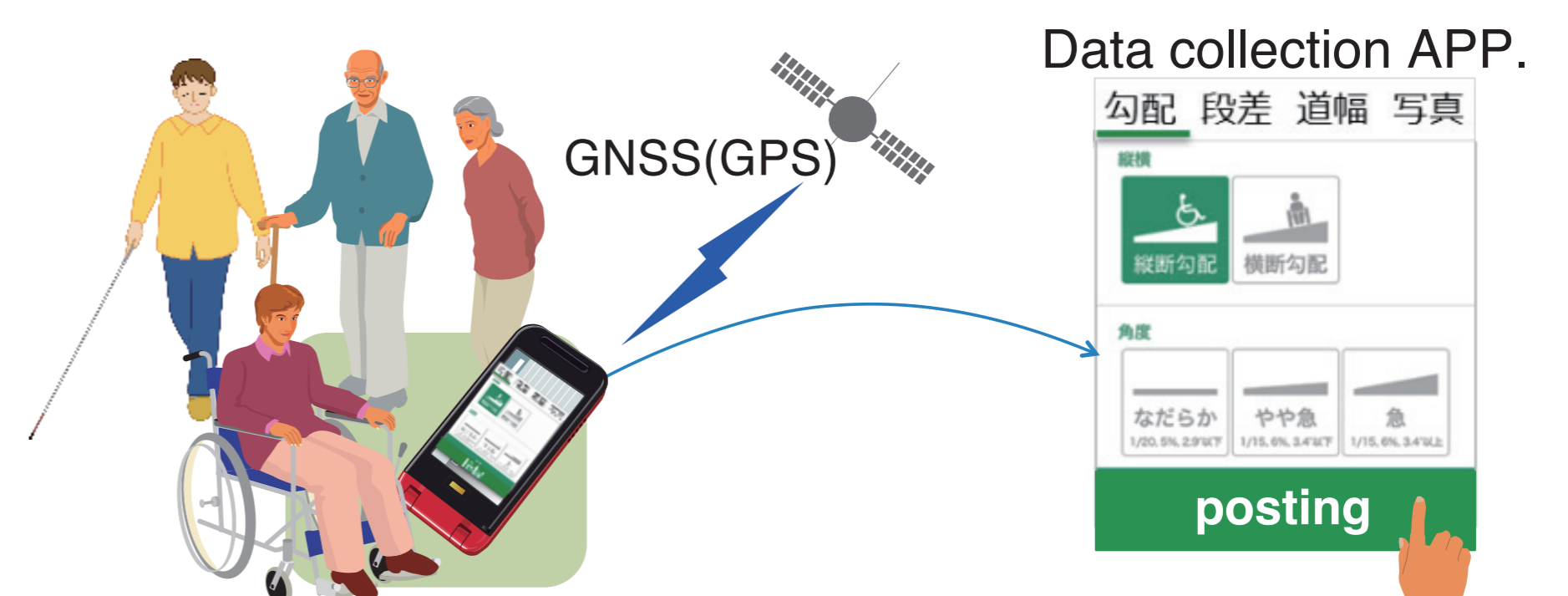
- Functions evaluated in verification experiment



Designing questionnaire to grasp the measures of behavioral modifications based on the idea of "Nudge theory" this year.

■ Pedestrian Transfer Support System

- Realization of route guide adjusted to individual characteristics which enable each person to move safely, securely and comfortably



Moving route data collection by GNSS probe

- Barrier/barrier-free data
- Landmark, concerns, etc.

Making walking network

for visually impaired for wheelchair user for the elderly ... etc.

Route guide adjusted to individual characteristics

