BUSINESS
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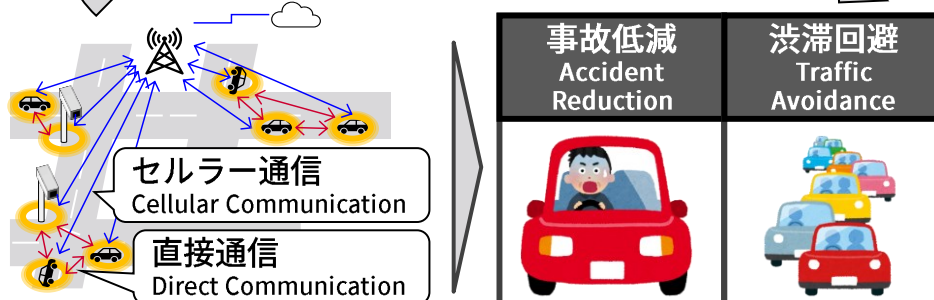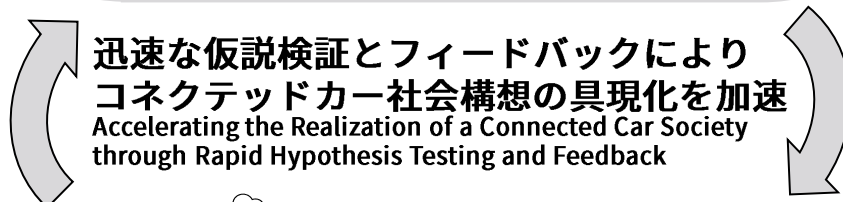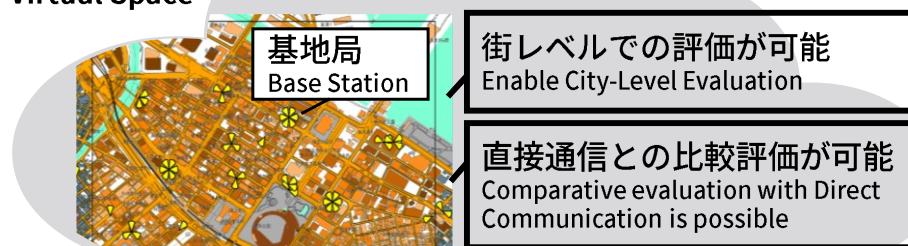
Connected car simulator that wireless communication

Contribution to the early achievement of cooperative driving automation use cases by simulator evaluation

#Customer Experience Value Creation

仮想空間による街レベルでのセルラー通信性能評価
City-Level Cellular Communication Performance Evaluation Using Virtual Space

基地局
Base Station

街レベルでの評価が可能
Enable City-Level Evaluation

直接通信との比較評価が可能
Comparative evaluation with Direct Communication is possible

迅速な仮説検証とフィードバックにより コネクテッドカー社会構想の具現化を加速
Accelerating the Realization of a Connected Car Society through Rapid Hypothesis Testing and Feedback

事故低減
Accident Reduction

渋滞回避
Traffic Avoidance

セルラー通信
Cellular Communication

直接通信
Direct Communication

セルラー通信を活用したコネクテッドカー社会構想
Connected Car Society Concept of Utilizing Cellular Communication

///Technical Issue

It is difficult to verify wireless communication performance in case of cooperative driving automation with huge numbers of vehicles.

///Research Goal

Utilizing simulators to achieve safe driving assistance and cooperative driving automation support to contribute to traffic accidents and traffic jam avoidance.

---Technology

- Utilizing base station data of docomo for cellular communication.
- Cooperation of traffic and propagation simulators.
- Support for both direct and cellular communication.

---Applicable Business

Knowledge of simulator will make use for enhancement of safety driving support and cooperative driving automation assistance in the traffic society.

---Novelty

- Utilizing actual base station data allows for evaluations in a real environment.
- Traffic simulator with incorporating car movements allows city level evaluations that so reality.
- Accurate comparisons can be made by evaluating both communications in the same environment.