SIP-adus Workshop 2020

Provision of traffic signal information and Control of traffic signal

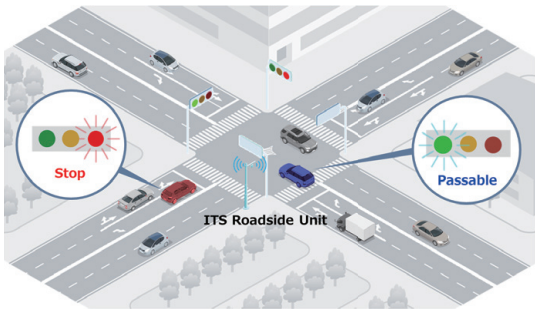
Establishment of technology to provide traffic signal information from ITS Roadside Unit (V2I)

Purpose

For the introduction of automated driving, we examine the content of traffic signal information and the function of the ITS Roadside Unit (ITS RSU), based on requests from organizations such as automobile manufactures.

Items to be examined in FY 2020

- ☐ Examination of
  - the content of traffic signal information that cannot be predetermined under specified signal control
  - the enhancement of the fail-safe function for the ITS RSU
- ☐ Review of specifications of the ITS RSU
- ☐ Comparison between V2I and V2N



(*)ITS Roadside Unit: 700MHz band radio equipment which provides information on traffic signal, the existence of pedestrians crossing the road and so on

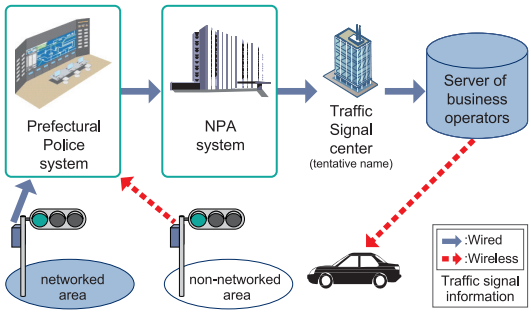
Technological examination to provide traffic signal information using cloud and other technologies (V2N)

Purpose

For the introduction of automated driving, we examine the technology to provide traffic signal information using methods other than direct communication from roadside unit, based on requests from private business operators.

Items to be examined in FY 2020

- ☐ Creation and validation of Prefectural Police model system
- ☐ Examination of functional and technical requirements, specifications of NPA model system



Technological examination to control traffic signal priority using GNSS (bus location information) and cellular network

Purpose

For the introduction of automated buses, we examine the technology to control traffic signal priority without roadside unit using GNSS (bus location information) and cellular network.

Items to be examined in FY 2020

- ☐ Examination of functional and technical requirements and system plans
- ☐ Examination of specifications of model system
- ☐ Examination of the use of bus location information
- ☐ Comparison with the current system