SIP · National Police Agency · Cabinet Office
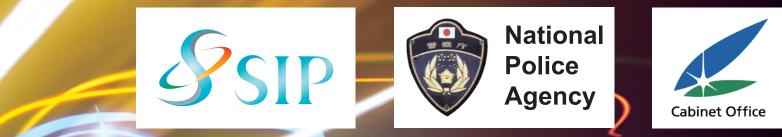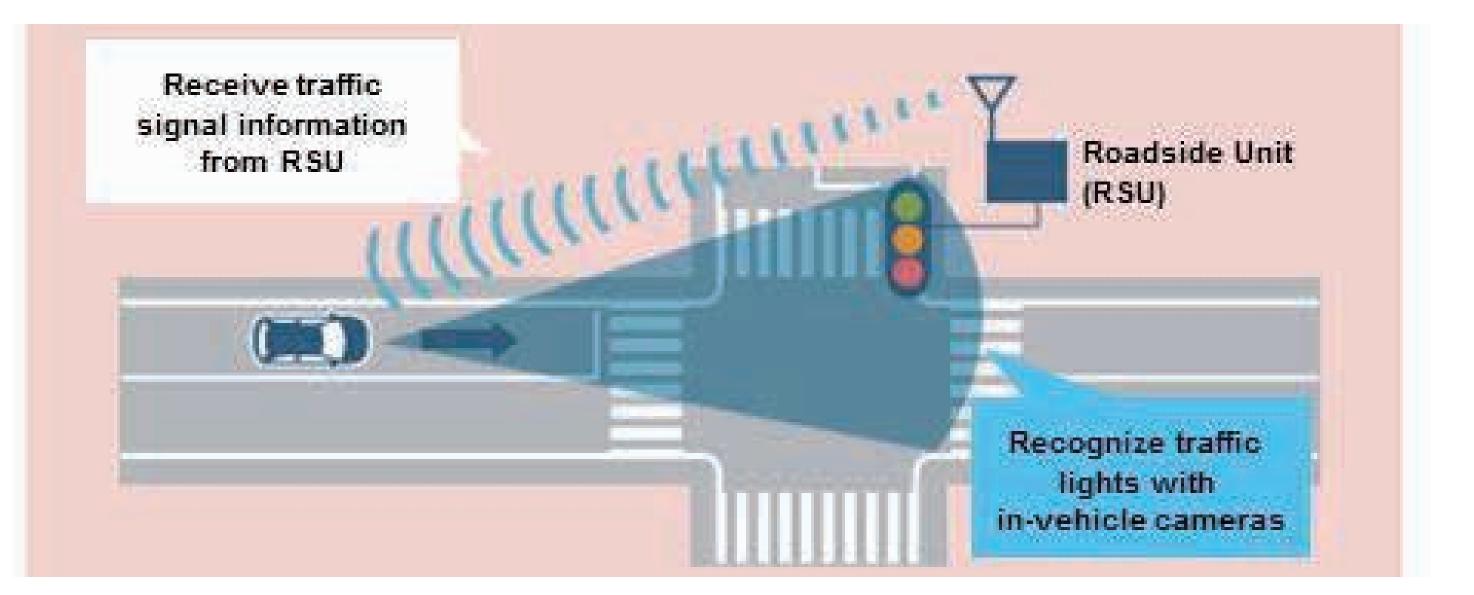
Connected Vehicles
（National Police Agency）

Provision of traffic signal information from roadside unit

Automated driving vehicles can pass intersections safely by recognizing traffic lights with in-vehicle cameras and receiving traffic signal information from roadside unit (RSU).
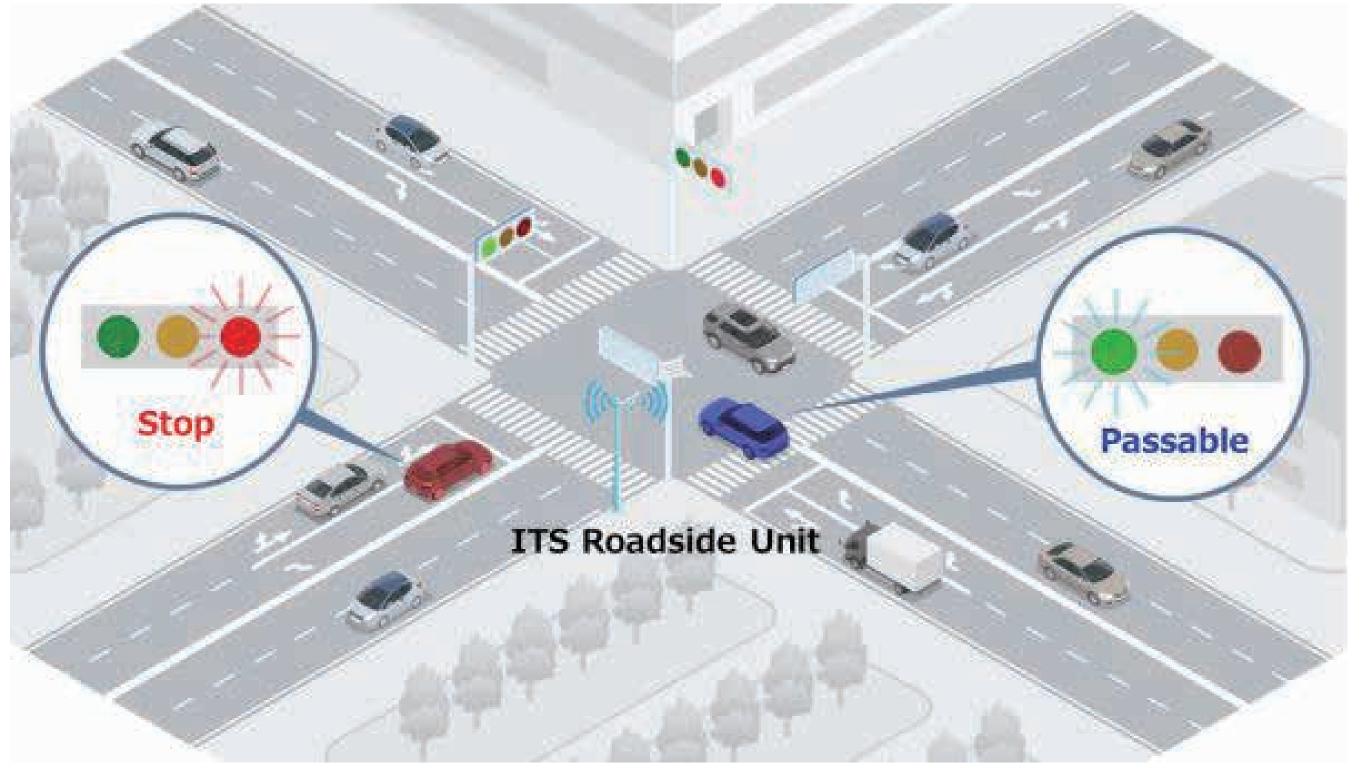

Establishment of the technology to provide traffic signal information from ITS Roadside Unit

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 the request from organizations such as automobile manufacturers.
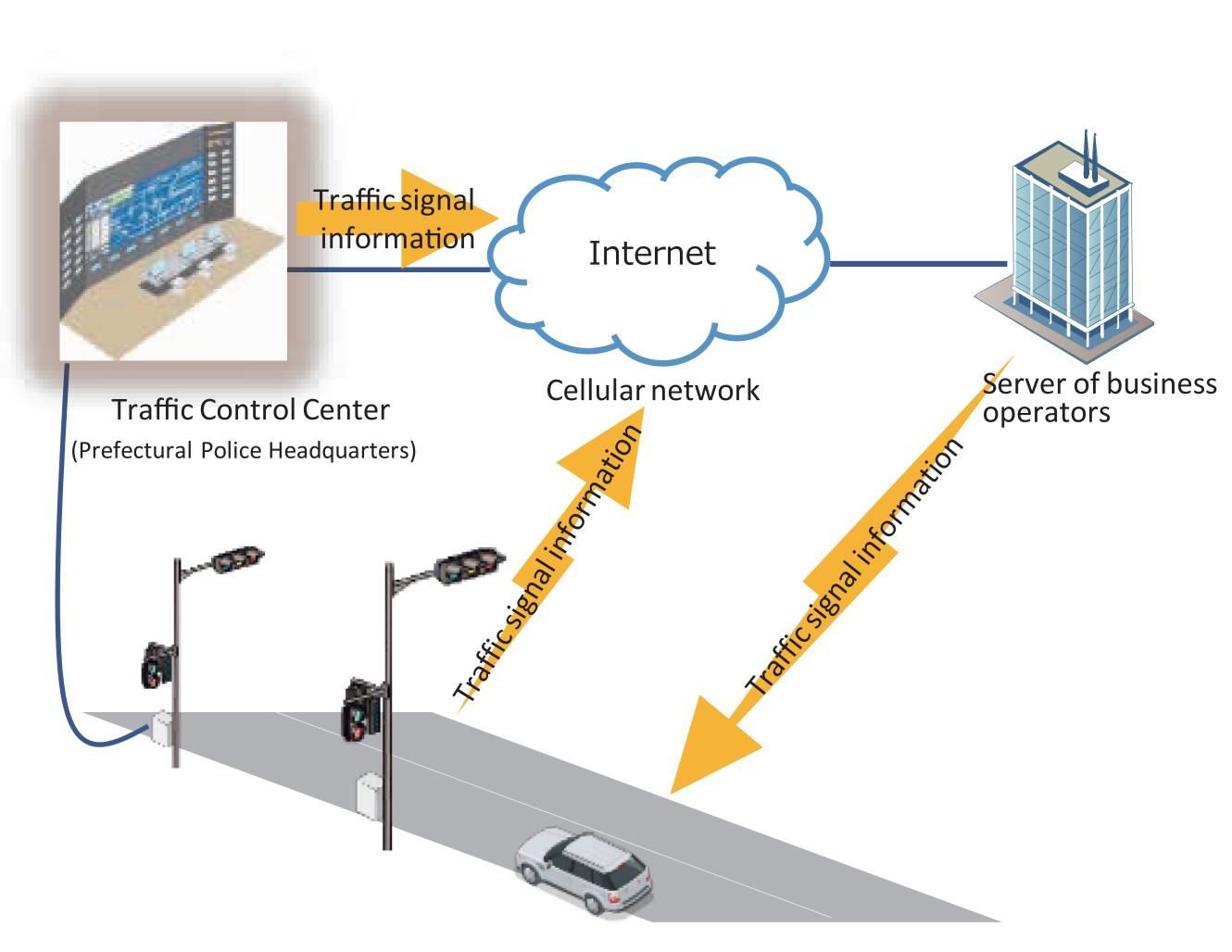
Items to be examined

◆ 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
◆ Creation and validation of model systems
◆ Review of specifications of the ITS RSU

(※)ITS Roadside Unit: The 760MHz band radio equipment which provides traffic signal information, information about the existence of crossing pedestrians and so on

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

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 the request from private business operators.

Items to be examined

◆ Examination of functional and technical requirements, means of provision and system plans
◆ Creation and validation of simulation systems
◆ Examination of specifications of model systems