CRP (Common Reference Point) on High-Definition 3D Map

Method to Exchange Location Information Based on a Position on a Road

- Automated driving uses High-Definition 3D Maps. However, the methods of linking different High-Definition 3D Maps and exchanging location information of the road structures have not been established.
- Common Reference Point (CRP) is a common point for matching location information accurately among the maps.

Physical Space

Drive

Refer

Virtual Space
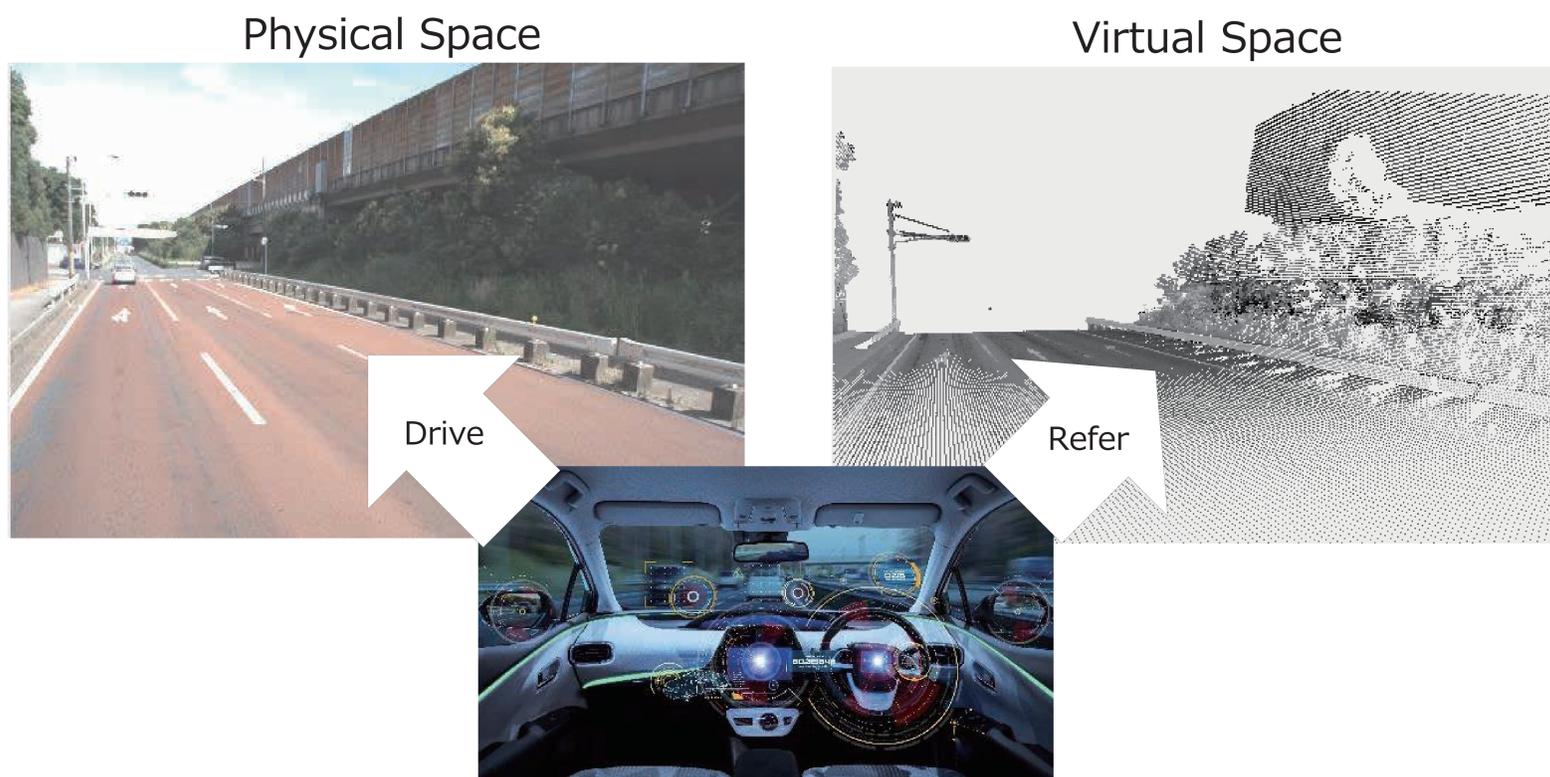
Concept of CRP

☐CRPs are virtually set on intersections, junctions or others.

AP 【Warning Sign】

GCP 【Hard Nose etc.】

AP 【Warning Sign】

CRP

AP 【Information Sign】
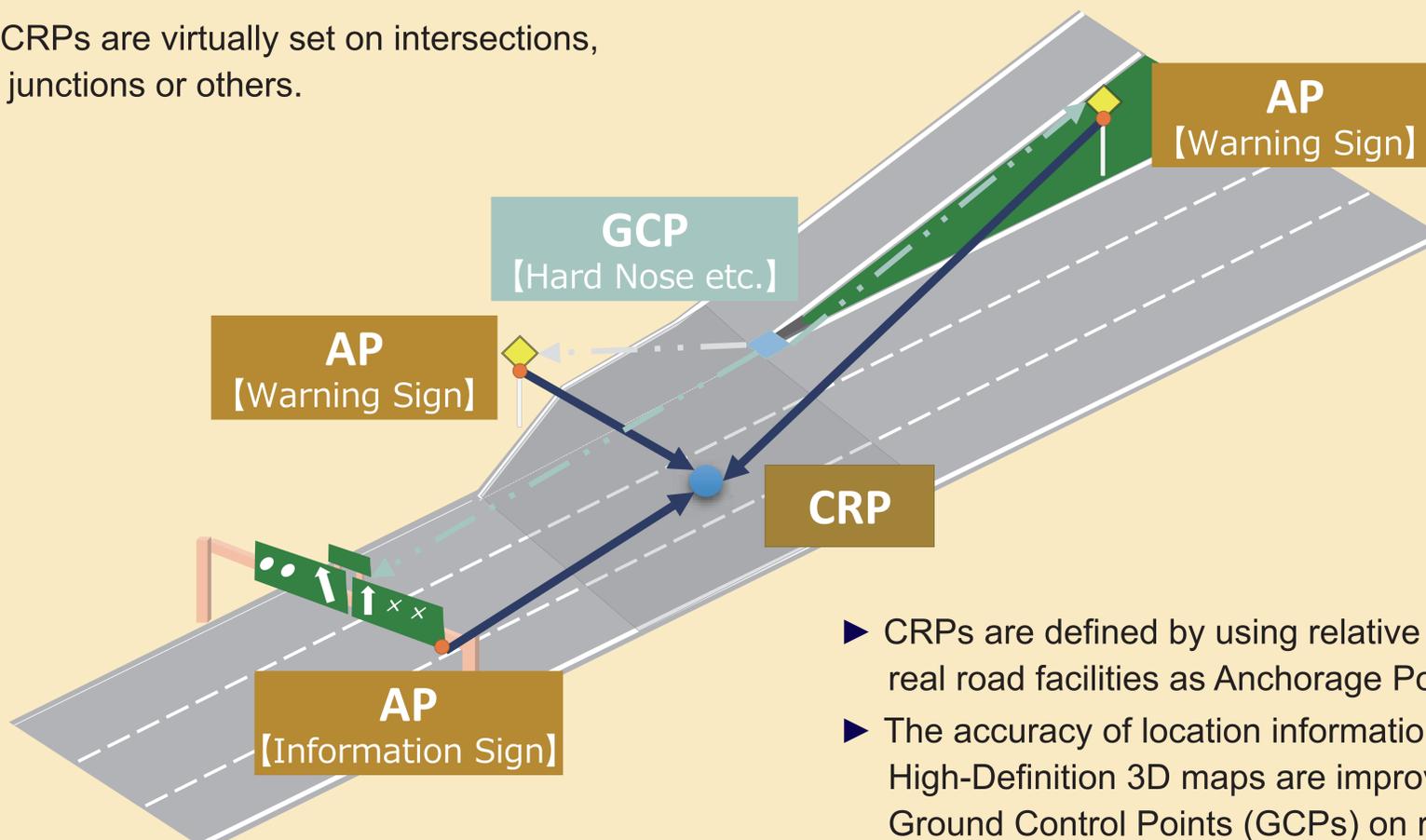
► CRPs are defined by using relative distance from real road facilities as Anchorage Points (APs).

► The accuracy of location information on High-Definition 3D maps are improved by setting Ground Control Points (GCPs) on roads.