Honda SENSING Elite Next Generation

Objective

This is an innovative safe driving system that aims to realize a zero-accident society.

Technical features

- Accident avoidance with risk prediction
- Reduction in the burden of driving on ordinary roads with course understanding
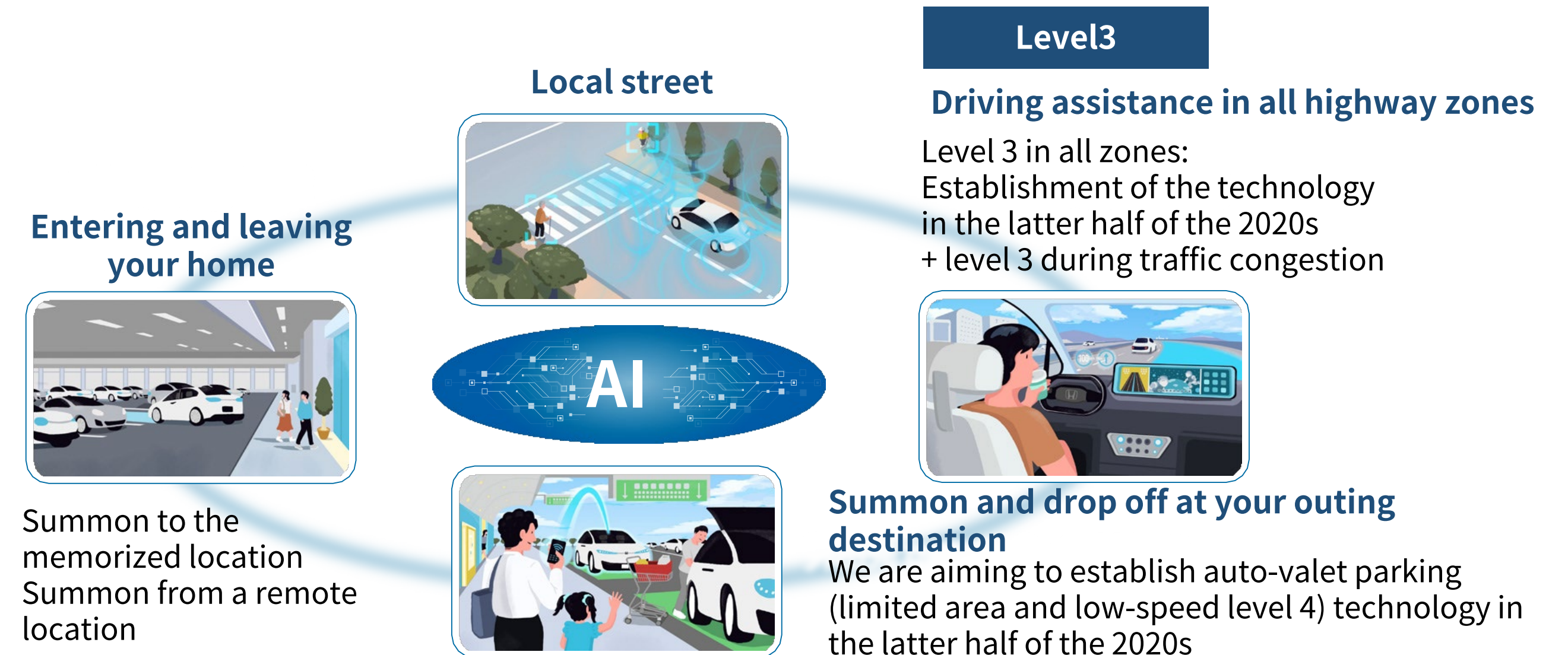
Details of the Technology

※ This technology is applied according to the laws of each country

It supports safe and seamless mobility with peace of mind including on ordinary roads from your home to your destination with recognition and understanding technologies in the complex environment of ordinary roads

We will realize driving support including on ordinary roads by developing advanced recognition and control that also supports complex environments
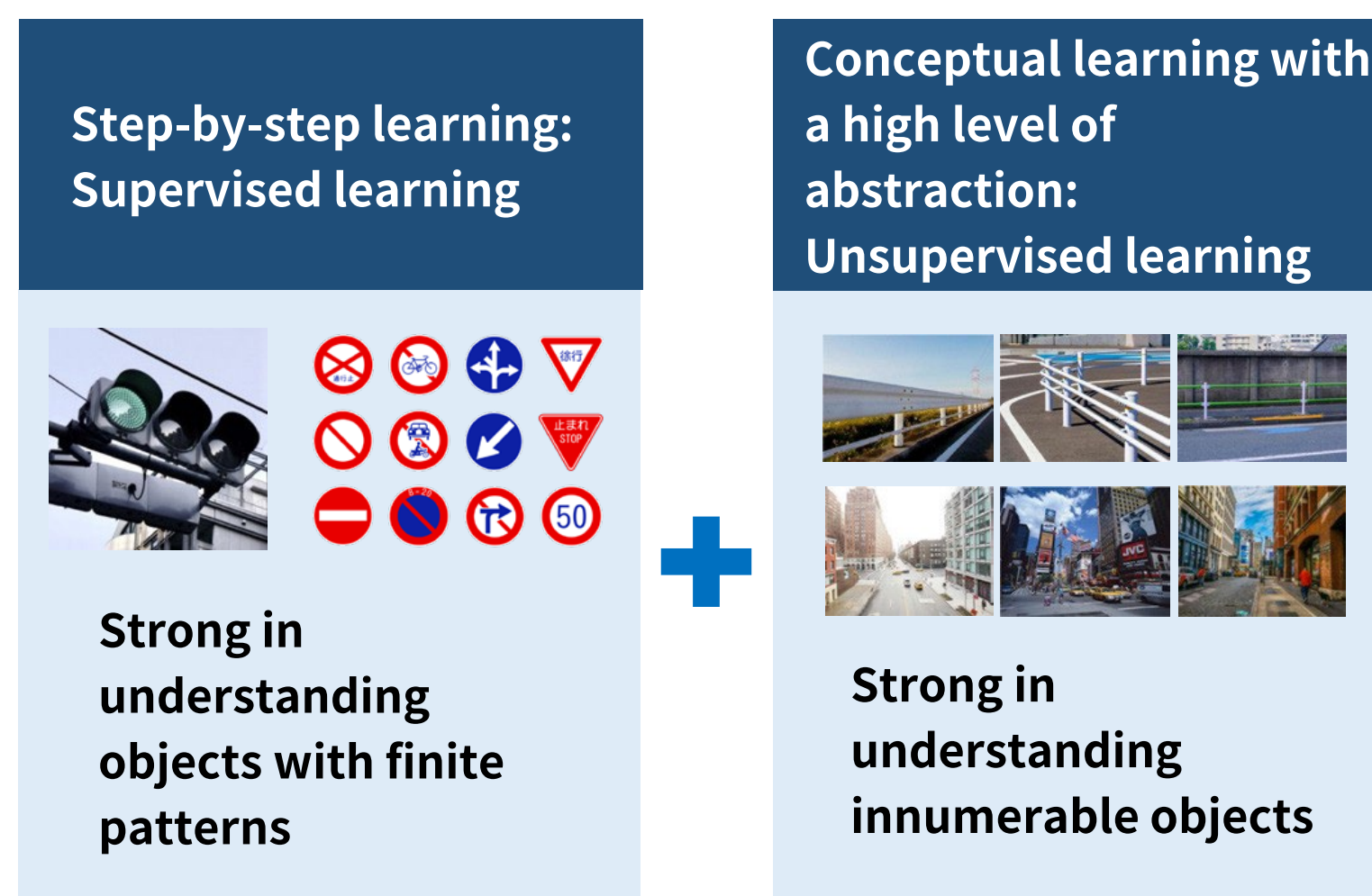
Local street

AI

Entering and leaving your home

Summon to the memorized location
Summon from a remote location

Level3

Driving assistance in all highway zones

Level 3 in all zones:
Establishment of the technology in the latter half of the 2020s
+ level 3 during traffic congestion

Summon and drop off at your outing destination

We are aiming to establish auto-valet parking (limited area and low-speed level 4) technology in the latter half of the 2020s
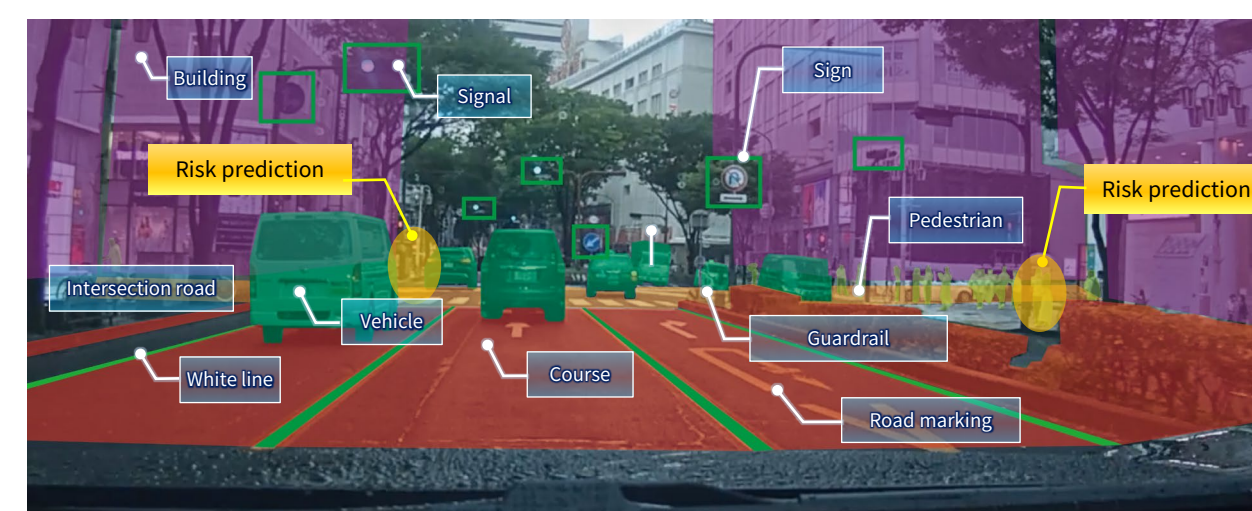
Introducing AI technology into recognition and understanding technology in the complex environment of local street
Can lead to a further reduction in accidents in all settings

Honda's Original AI

It is possible to understand, like humans, even objects with infinite patterns with original AI technology to understand the target conceptually

Step-by-step learning: Supervised learning

Strong in understanding objects with finite patterns

+

Conceptual learning with a high level of abstraction: Unsupervised learning

Strong in understanding innumerable objects

We are aiming to realize driving support on ordinary roads by predicting hazard risks at intersections and on roads with poor visibility

It is possible to recognize complex settings including buildings, guardrails and intersecting roads

Building · Signal · Sign · Risk prediction · Pedestrian · Risk prediction · Intersection road · Vehicle · White line · Course · Guardrail · Road marking

Growing AI
Feedback of knowledge and concepts obtained through experience in the real world

AI captures unknown settings in various road environments with cloud information obtained from vehicles equipped with Honda SENSING.
Updating hazard risks and course understanding leads to a continual improvement of the capacity to deal with ordinary roads.

Image & Data

Unknown settings etc.

Cloud
Storage

Acquisition of knowledge and concepts through experience

AI

Update

Danger hazard estimation | Course understanding

Response capability acquisition

Update

Update