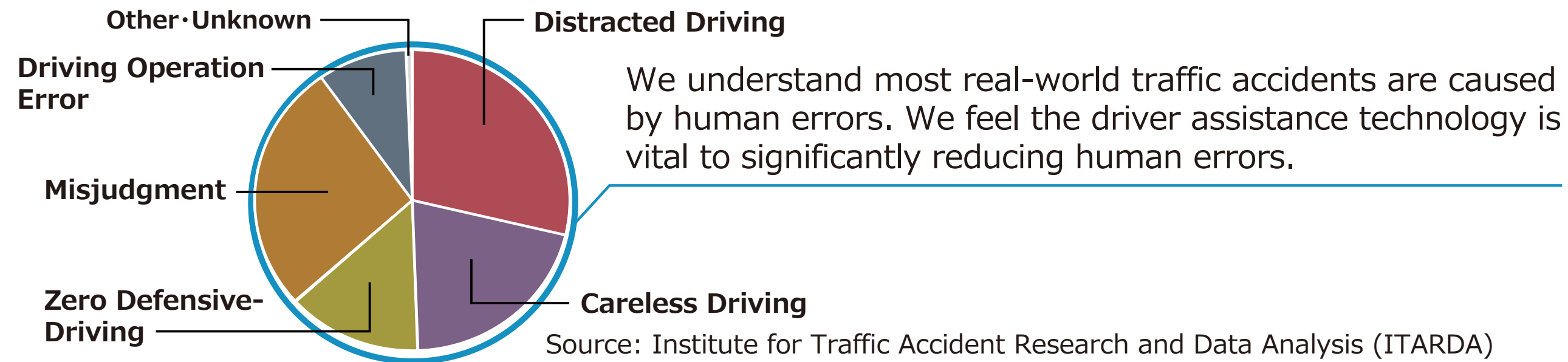


# Honda SENSING Elite

## Desire for Safety

Honda customers are led by “curiosity”, and drivers continue to make new discoveries from various destinations to find much joy and happiness in life. We want to deliver the “fun” in the freedom of mobility to all. That’s why Honda deeply cares about safe mobility that protects lives, and we continue to strive in creating a safer society.

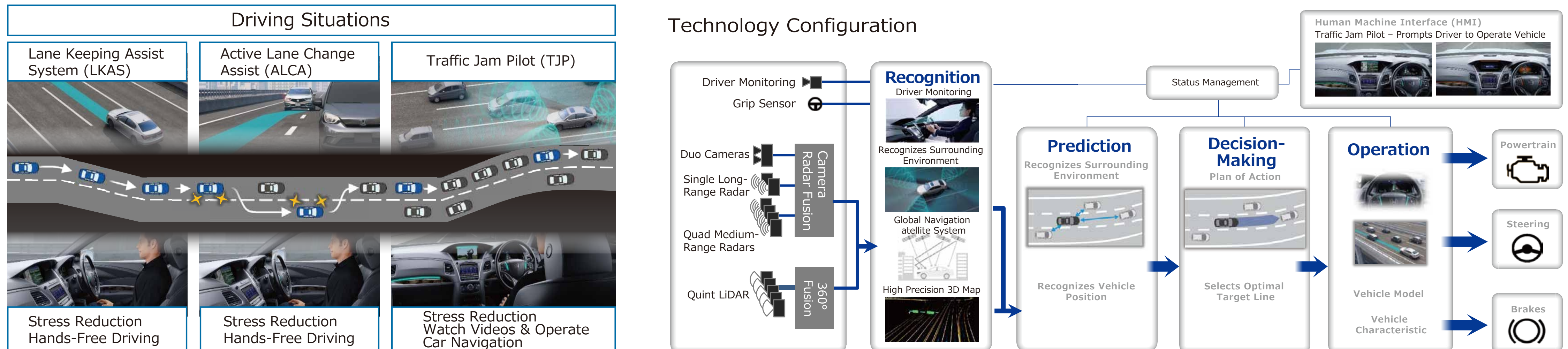
## Highway Accidents Caused By Human Factors



The advanced driving assistance technology with great potential in eliminating human errors is essential.  
(E.g.) Driver Monitoring Camera



## Next Stage in Advanced Safety Technology and Our Aim to Eliminate Human Errors



# Honda SENSING Elite

## Importance of Safety and Reliability

Examined presumable cases from early stages of development and ran multiple simulations. In order to reduce unforeseen cases too numerous to list, a 1.3 million kilometer demonstration experiment was conducted. Based on the collected data, an additional 10 million patterns of simulation were conducted. The verification activity will continue until the system is confirmed to be safe.

## System Architecture and Concept



### Demonstration Experiment

Actual images of driving environments from the 1.3 million kilometer demonstration experiment



Overhead Crossings



Highway Lanes

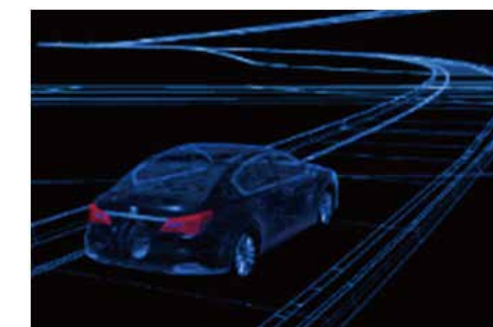


Tunnels



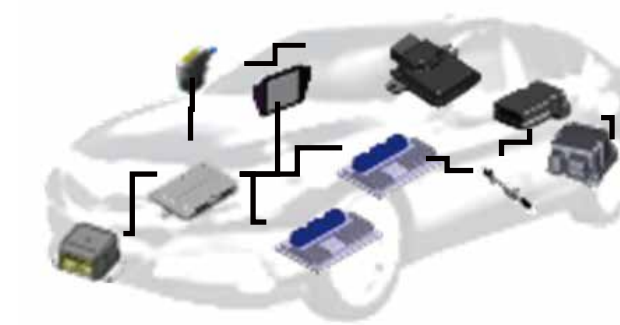
Traffic Jams

### Confirmation of Safe Operation



Model in the Loop Simulation (MIL)

10 million patterns of simulation using an advanced computer system



Hardware in the Loop Simulation (HIL)



Driving Simulator

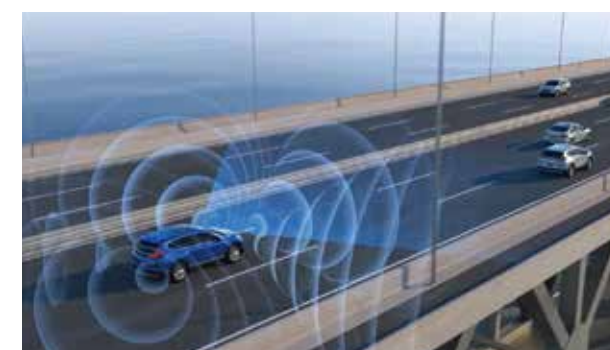
## Safety Measures Before Driver Takes Over

### HMI



The Human Machine Interface (HMI) Simulator accurately informs the driver of operation status and driving conditions. The system prompts the driver to take over operation of vehicle with specific actions when necessary.

## Further efforts to achieve a zero accident society



Our knowledge and expertise gained through the research and development of Level 3 autonomous driving technology will be utilized to further enhance the level of ADAS (Advanced Driving Assistance System) intelligence, and similarly aim to improve the accident coverage ratio. The all new ADAS which evolved into an omnidirectional advanced driver-assistance will be adopted into four-wheeled vehicle models in developed countries by 2030.