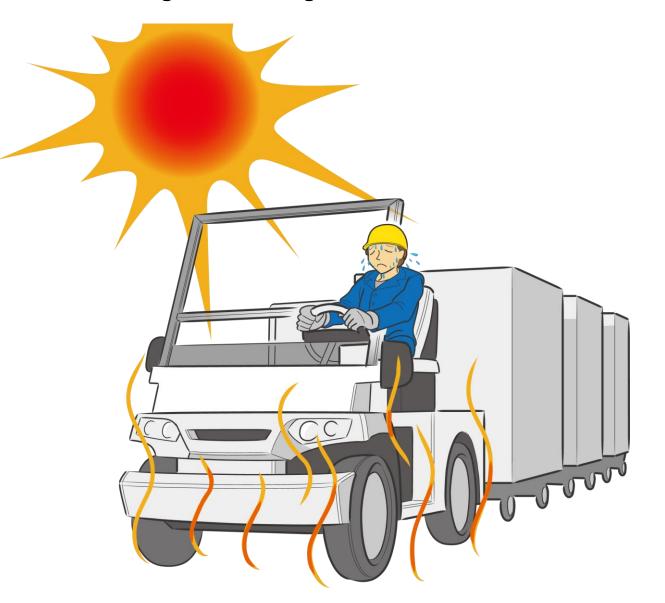
Contributing to Remote Control

\sim Remote Control Unit, Camera, and Image Integration ECU \sim

遠隔操作に貢献する ~ 遠隔操作コントロールユニットとカメラ及び映像統合ECU ~

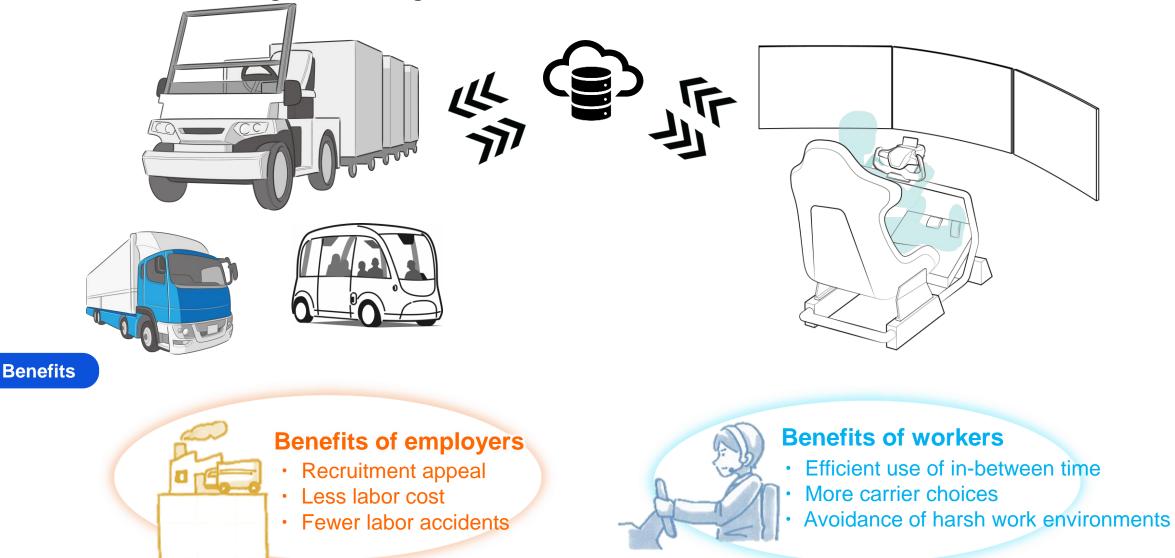
Background

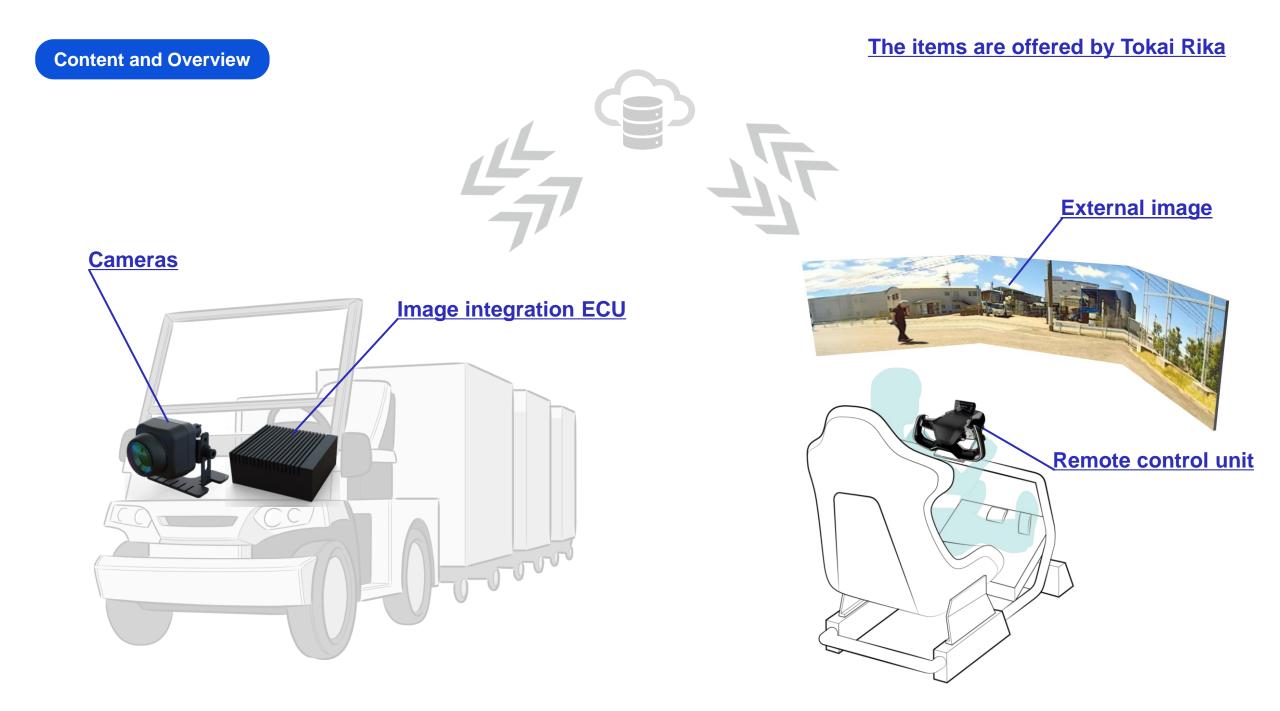
Harsh work environments and resulting labor shortage in various fields have become social issues.



Summary

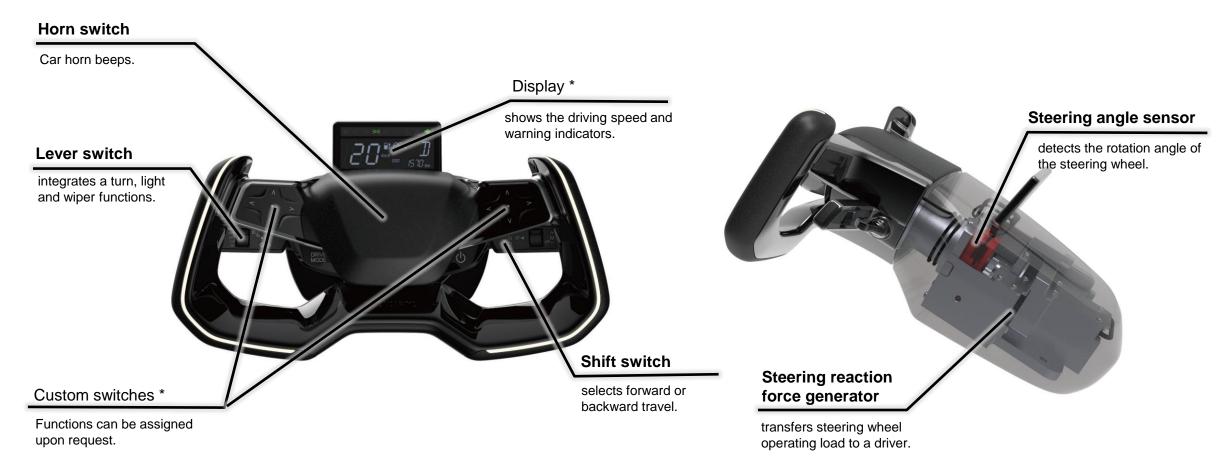
There is a need of remote control mobility systems as a solution to social problems such as harsh work environments and resulting labor shortage in various fields.





Technology Remote control unit

This all-in-one control unit incorporates switches, a display, and a sensor that have the same strengths as those installed in an actual car. The switches also have realistic operating feelings.



Technology

Image processing

High visibility for safe operation

Clear visible images are created according to brightness.









Rain





Waterdrops are quickly removed on a rainy day





Optimal data quantity for less time lag

Required images are stitched to reduce transmission quantity



Data quantity is controlled according to the state of communications

Example of application of technology

The image processing technology is used for the remote monitoring system of a self-driving bus.

(Tokai Rika offered the system in some demonstration experiments.)









Safe postures Passengers are sitting in a seat or holding a strap Unsafe posture A standing passenger is not holding a handrail or strap

Self-driving bus

Remote control room

In-cabin monitoring system

- When detecting any passenger' unsafe behavior, the monitoring system informs the supervisor to prevent the passenger from falling.
- The system is also available for existing regular bus services.