

# Occupant Monitoring Solution

## Highlights

- Multiple functions can be provided without extra hardware by leveraging the digital key module.
- Child presence detection can be achieved with a single module in 3rd row vehicles.

## Technology

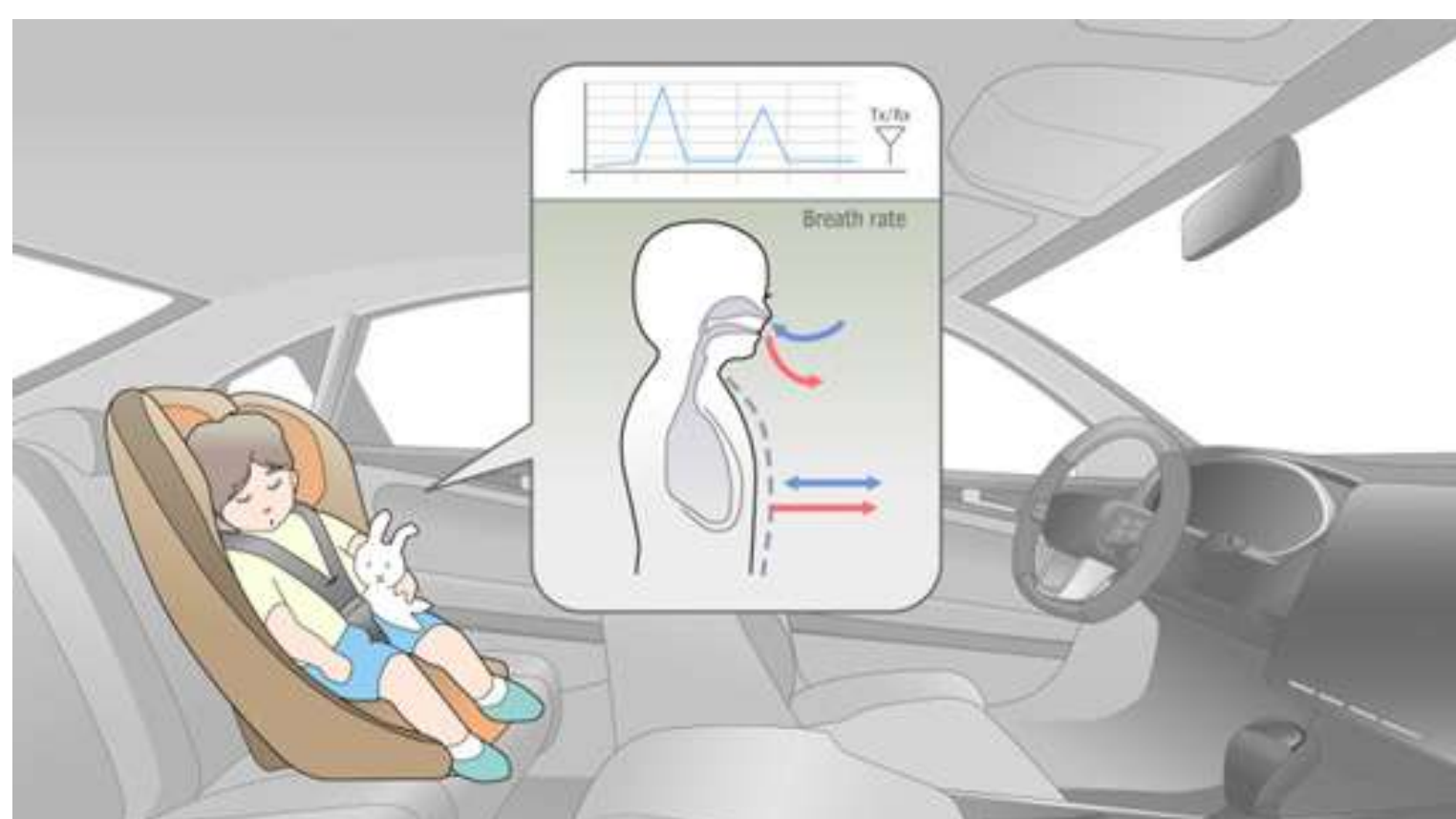
- By simply modifying the functionality via software, we can implement new solutions through installed hardware by sharing the digital key module.
- For example, child presence detection (\*1 can be achieved with just a single module by using UWB (\*2 Radar, which has high radio wave transmittance.
- Our robust algorithm development will ensure against false detections as well

(\*1 Euro NCAP to add points for sensors that directly detect child presence in 2025)  
(\*2 UWB: Ultra Wide Band)

## Feature

<Offered function① : inside>

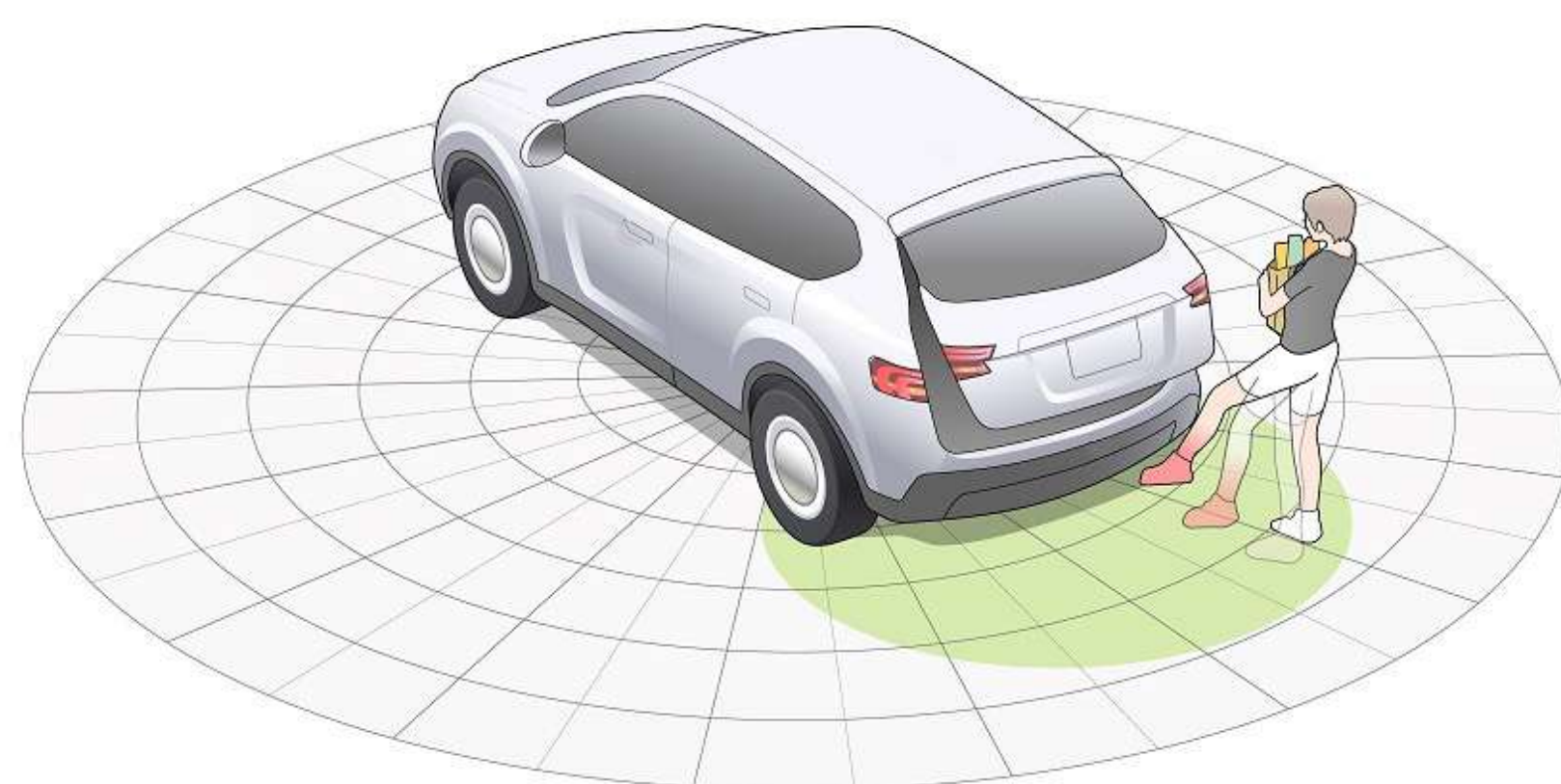
Detects breathing and body movements from the body surface movement



- Child presence detection
- Seat belt reminder

<Offered function② : outside>

Detects leg movements



- Kick sensor

## Technical Challenges

- Remove external disturbances of vehicle
- Improve responsiveness
- Integrate with digital key