

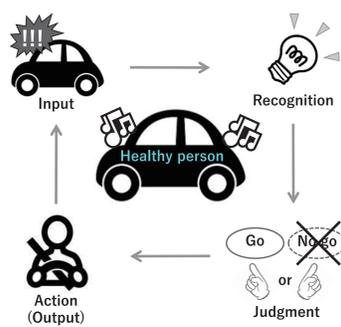


# Application of ADAS technology for driver who has a narrow field of view

## ▶ Introduction-1 | Driving Process

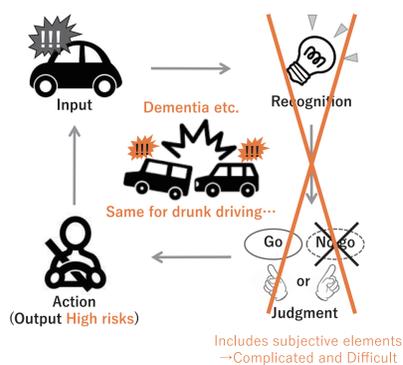
▶ Car driving process | Fig.1

Input→Recognition→Judgment→Action



▶ Driving risk due to illness or drinking | Fig.2

Recognitive and Judgmental decline  
Recognition and Judgment are subjective...



## ▶ Introduction-2 | Visual function & Driving

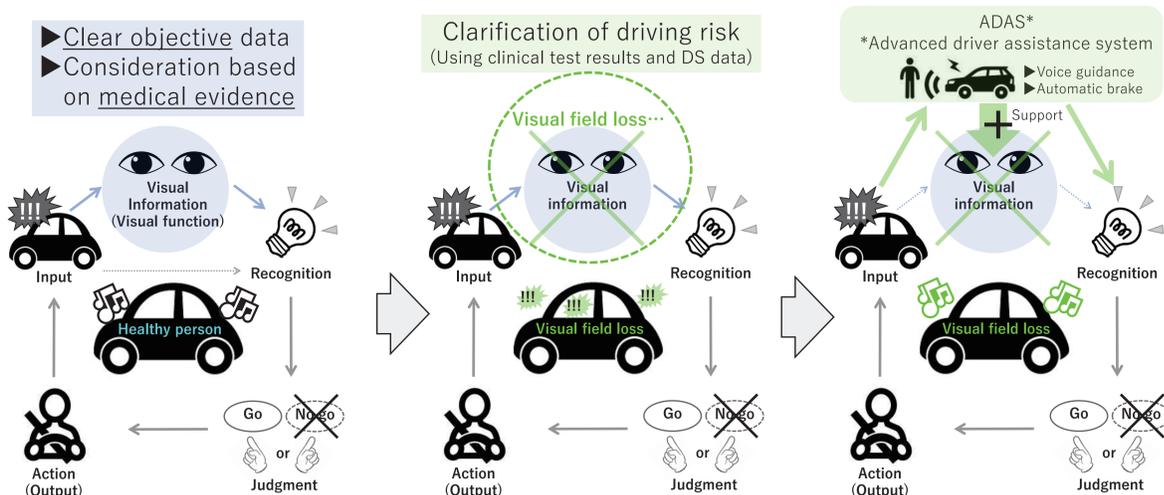
▶ More detailed car driving process | Fig.3

Subdivide recognition: Consider visual function

Visual function estimated by the objective clinical data

Possible to consider based on medical evidence

Apply ADAS technology to compensate for driving risks due to visual field defect



Ensuring safety equivalent to healthy person with ADAS

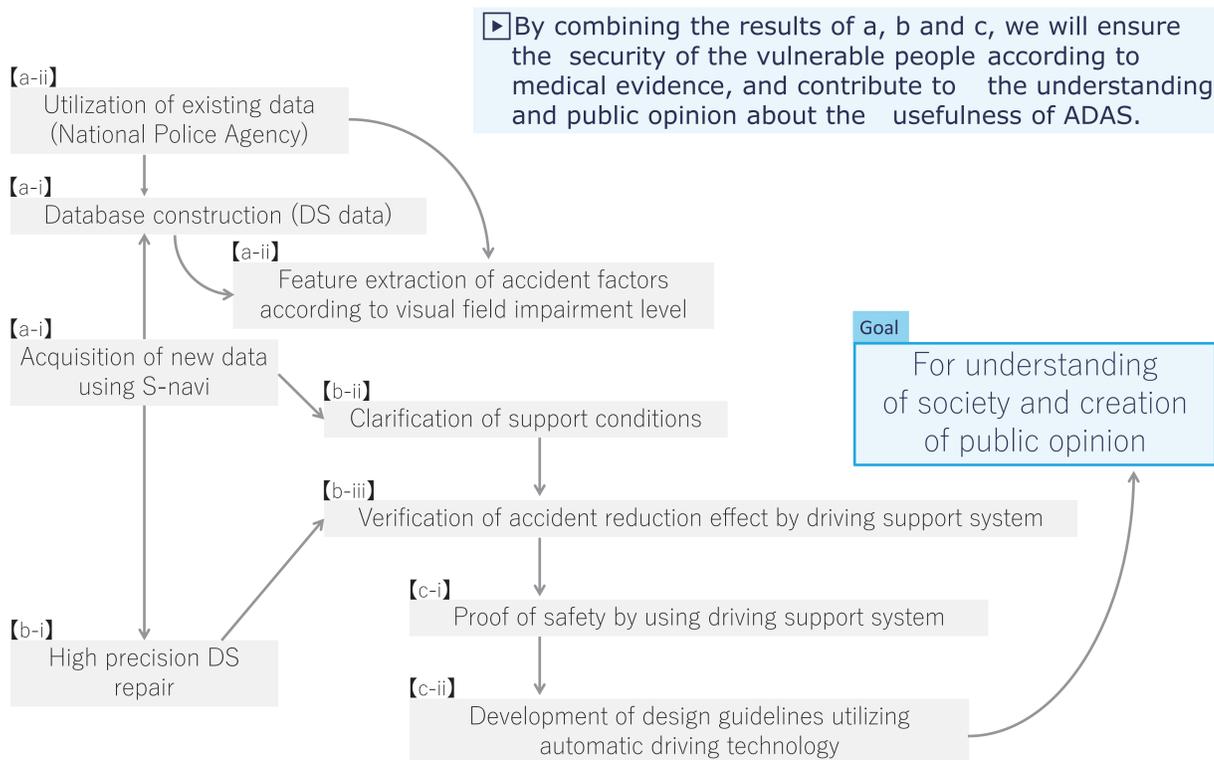
▶ For people who have a narrow field of view and can obtain a driver's license, we propose a method to ensure safety with advanced technology without returning a driver's license.

## ▶ Project | Overview

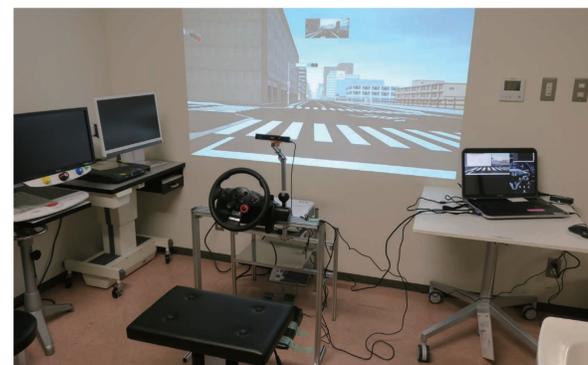
▶ Research consortium

RIKEN, Nagoya university, University of Tsukuba

(Tohoku university, Niigata university, Kobe eye center Hospital)



## ▶ Driving simulator



↑ Simple type\_Honda Safety navi



↑ High precision DS @NIC