

Title of Research Subject	New ways of living using automated driving vehicle-identifying the pressing matters in the near future and how to resolve them.
Background and Objectives	<p>While the use of automated driving vehicle is nearing, many essential and difficult questions remain unsolved. For example, how cities and roads should be rebuilt in order to be as adequate as possible for such vehicles, how the benefit and cost that would result from using such vehicles could be calculated in consideration of the welfare of the stakeholders, the attribution of civil and criminal liability in case of accidents and the relevance of today's related legal system for the new era. These matters are to be considered based on expert knowledge of engineering, economics, medical science, sociology, psychology, ethics and jurisprudence. A proposal that is not only interdisciplinary but also internationally acceptable shall be made to the public regarding this issue, including policy decision makers.</p>
Expected Results	<p>Firstly, the effect of the enforcement of the 2022 amended Japanese Road Traffic Act will be checked and evaluated. The Act shall permit using the level 4 technique of automated driving through remote supervision of the entity to whom permission shall be given. The effect would be found, for example, in the safer traffic flow in the designated rural area which would presumably contribute to the economy there. Secondly, the way of monitoring the medical condition of passengers in the vehicle that should be run under Level 4 will be confirmed. As there is no one who should care for the condition of such passengers, the majority of whom would be elderly or handicapped, the use of suitable devices such as D-call net should be strongly recommended in scientific research.</p> <p>Thirdly, the way of investigating the possible traffic accidents among the automated vehicles should be explored. As such vehicles are to be controlled not by human beings but by ADS (i.e., automated driving system), the present legal system which depends on the existence of a human driver cannot be applied. This problem has not been recognized widely and clearly, but it is an urgent task to develop a new legal system by means of mathematical legal thinking.</p> <p>In 2023, the basis for solving the above three major problems will be presented on which the following study should be continued.</p>