



KAIDA Special Session II



새로운 자동차 규제 및 제도 도입 시 고려해야 할 신차 개발 process

박주선*

The New Car Development Process to Have to Consider When the New Regulation and System Will be Planned and Introduced

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Key Words : PR(Public Relations: 홍보), Legislation(법률제정), Statistical(통계)

ABSTRACT

When introducing new systems or regulations related to automobiles, it is essential to understand the vehicle development process. Such understanding plays a crucial role in ensuring that these regulations are effectively applied to actual vehicles and that their intended impact is achieved.

This report aims to describe the overall procedure of new vehicle development — starting from the initial concept creation of an entirely new automobile product, followed by detailed product planning and market research, establishment and finalization of the initial design concept, engineering design and performance evaluation through simulations, production of actual components, pilot vehicle manufacturing and testing, pre-mass-production quality evaluation and improvement, and finally, certification and manufacturing quality assessments leading up to full-scale mass production.

In addition, a comprehensive understanding of the entire process — from the early stages of vehicle development to the commencement of mass production — is often difficult even for professionals working in the automotive industry, as many of these stages are not directly experienced in day-to-day operations. Therefore, this report seeks to provide and share an overview of the full vehicle development process to enhance general understanding across all stages.

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자동차 첨단안전장치의 선제적 적용을 위한 안전기준 특례절차 실증 연구

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Key Words : Vehicle management system(자동차관리제도), Exemptions for vehicle safety standards(자동차 안전기준 특례), Regulatory sandbox(규제샌드박스)

ABSTRACT

Recently, various advanced safety devices have been developed for vehicles. In addition, with the emergence of autonomous vehicles and Software-Defined Vehicles (SDVs), new technologies that are distinct from traditional automotive technologies are being created. The government regulates vehicle safety standards to ensure that citizens can use safer vehicles. However, the pace of developing and applying new technologies is always faster than the pace of institutional regulation. To address such situations, the government operates special exemption systems (special provisions) for new technologies or technologies with public benefits, etc. The vehicle industry has raised concerns that the current special provision clauses in the vehicle safety standards lack specific procedures and therefore need to be improved. Therefore, this study aims to present a clear and practical procedure for operating the special exemption system by conducting research on the history of the vehicle special exemption system, the current status of regulatory sandboxes, and domestic and international cases of special exemption systems.

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