



Japanese Automobile Industry Establishes Joint Research Organization, the Research Association of Automotive Internal Combustion Engines (AICE)

TOKYO, Japan, May 19, 2014 – Eight Japanese automakers and one automobile research institute have jointly established the Research Association of Automotive Internal Combustion Engines (AICE) as of April 1, 2014.

In an effort to realize the further improvement of the fuel economy of automobiles and the reduction of tailpipe emissions, the participating automakers will work together to identify and present research needs that address issues and challenges facing the automakers in the area of combustion technologies for internal combustion engines and technologies which achieve cleaner tailpipe emissions. The AICE members will jointly conduct basic and applied research utilizing knowledge and expertise amassed in academia. The ultimate purpose of AICE is to utilize the research results to help accelerate the development activities of each automaker. To this end, AICE will operate under the following two principles:

<AICE Principles>

- 1) AICE amasses the knowledge and expertise of industry, academia and the government to strengthen the fundamental technologies of internal combustion engines -- which will remain one of most promising power sources in the future -- and contribute to the enduring enhancement of the world-leading industrial strength of Japan.
- 2) Promoting research conducted through mutual enlightenment among industry, academia and the government, AICE strives to improve Japan's collective expertise in the area of internal combustion engines and to nurture engineers and leaders who will continue promoting collaboration among industry, academia and the government.

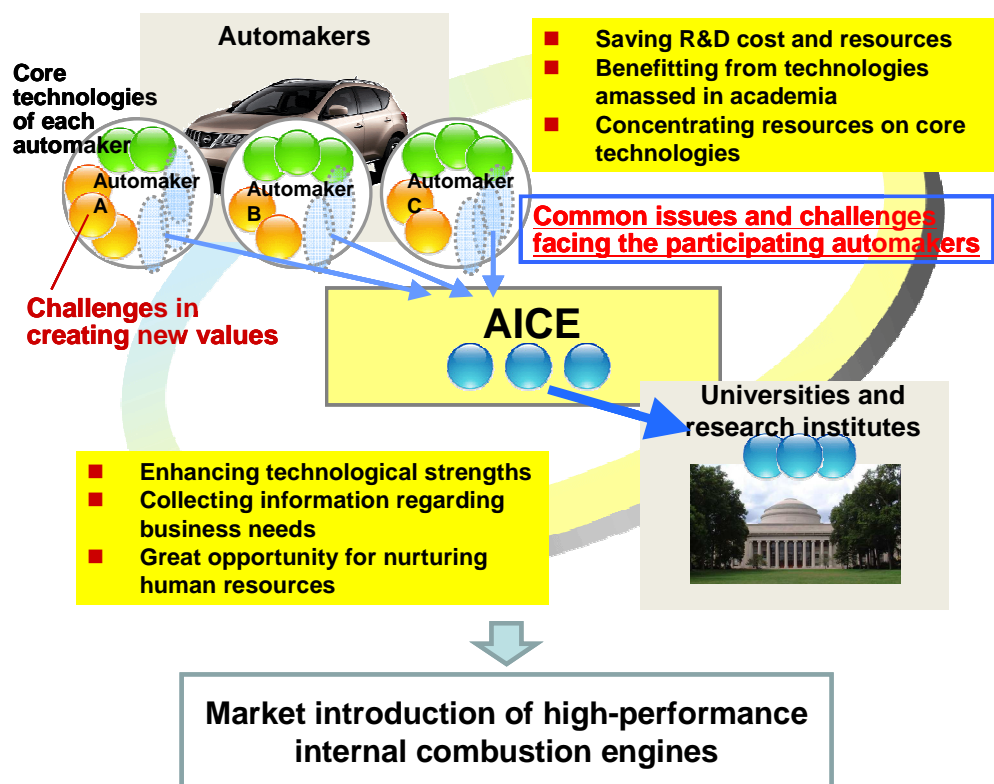
For issues and challenges in the areas of combustion and aftertreatment technologies, AICE will scientifically explain, give shape to and develop evaluation methods for each phenomenon, and the results of AICE research will be available to be incorporated into the product development conducted by each participating automaker. Through these initiatives, AICE will strive to realize the practical use of advanced technologies toward promoting the market introduction of higher-performance, more fuel-efficient and cleaner internal combustion engines.

Through this effort, AICE strives to further advance Japan's combustion technologies for internal combustion engines and technologies that achieve cleaner tailpipe emissions and contribute to the enhancement of Japan's global competitiveness. Moreover, AICE also will focus on nurturing a wide range of human resources who will forge the future of the industry.

■ Comment of Mr. Keiji Otsu, President of AICE

"Eight Japanese automakers and one automobile research institute newly established an organization to work together to accelerate our research in the area of the environmental performance of internal combustion engines, which continues to attract global interest. Through research conducted by AICE, we would like to further increase Japan's global competitiveness in the area of internal combustion engines. AICE also will promote collaboration among engineers and the nurturing of younger engineers of the next-generation. Moreover, I hope that the initiatives of AICE will gain praise and support from an increasing

number of universities, research institutions, relevant organizations and experts and spread broadly to contribute to the further advancement of industrial technologies in Japan.”



- **About the Research Association of Automotive Internal Combustion Engines (AICE)**
 - Establishment: April 1, 2014
 - President: Keiji Ohtsu (Managing Officer, Honda R&D Co., Ltd.)
 - Members: Suzuki Motor Corporation, Daihatsu Motor Co., Ltd., Toyota Motor Corporation, Nissan Motor Co., Ltd., Fuji Heavy Industries Ltd., Honda R&D Co., Ltd., Mazda Motor Corporation, Mitsubishi Motors Corporation and Japan Automobile Research Institute (JARI) (Total eight corporations and one organization).
 - Project budget: Approximately 1 billion yen (including subsidy granted from the Ministry of Economy, Trade and Industry for fiscal year started April 1, 2014)
 - Project outline: Basic and applied research on technologies that improve the performance of internal combustion engines

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