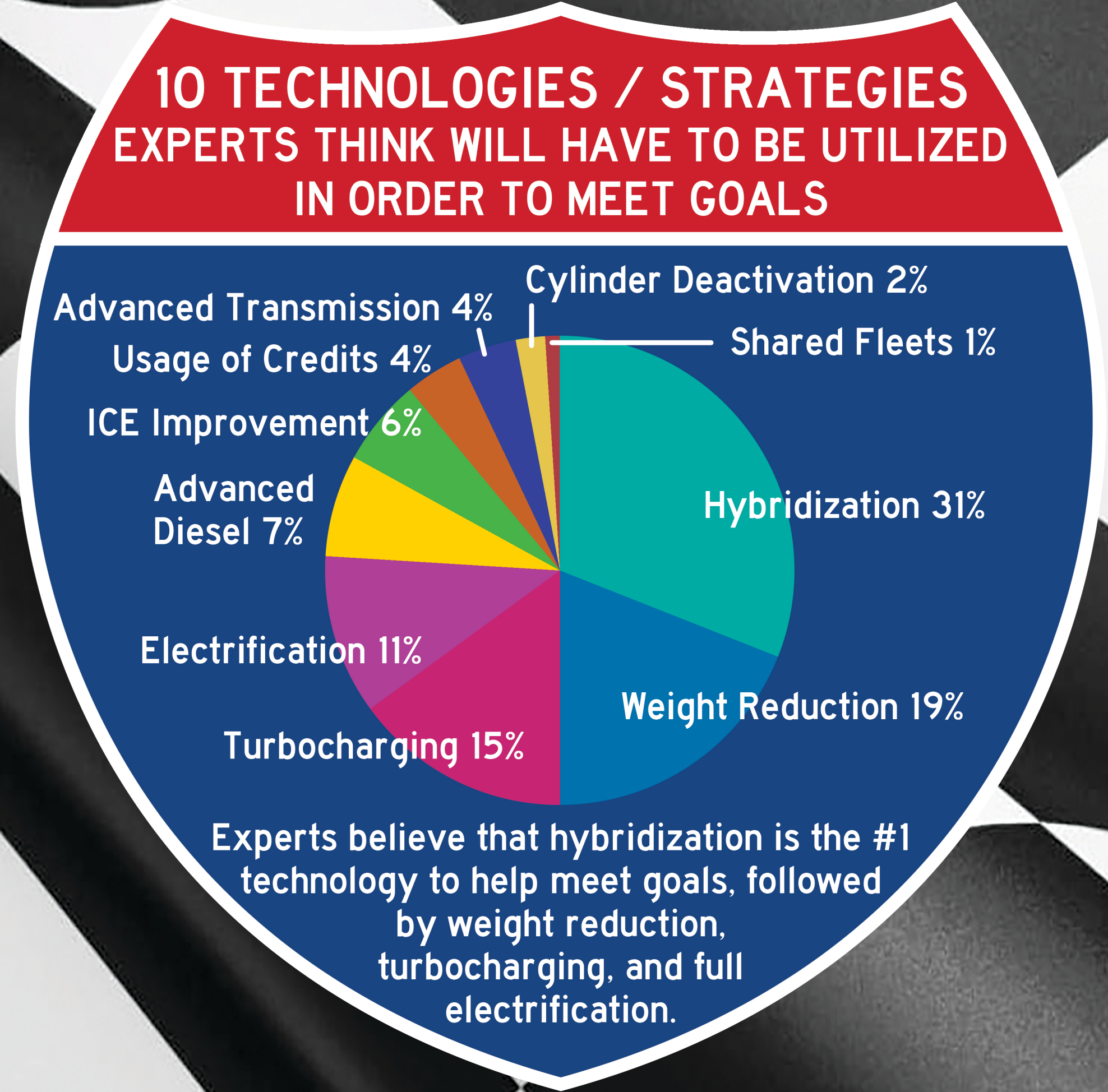
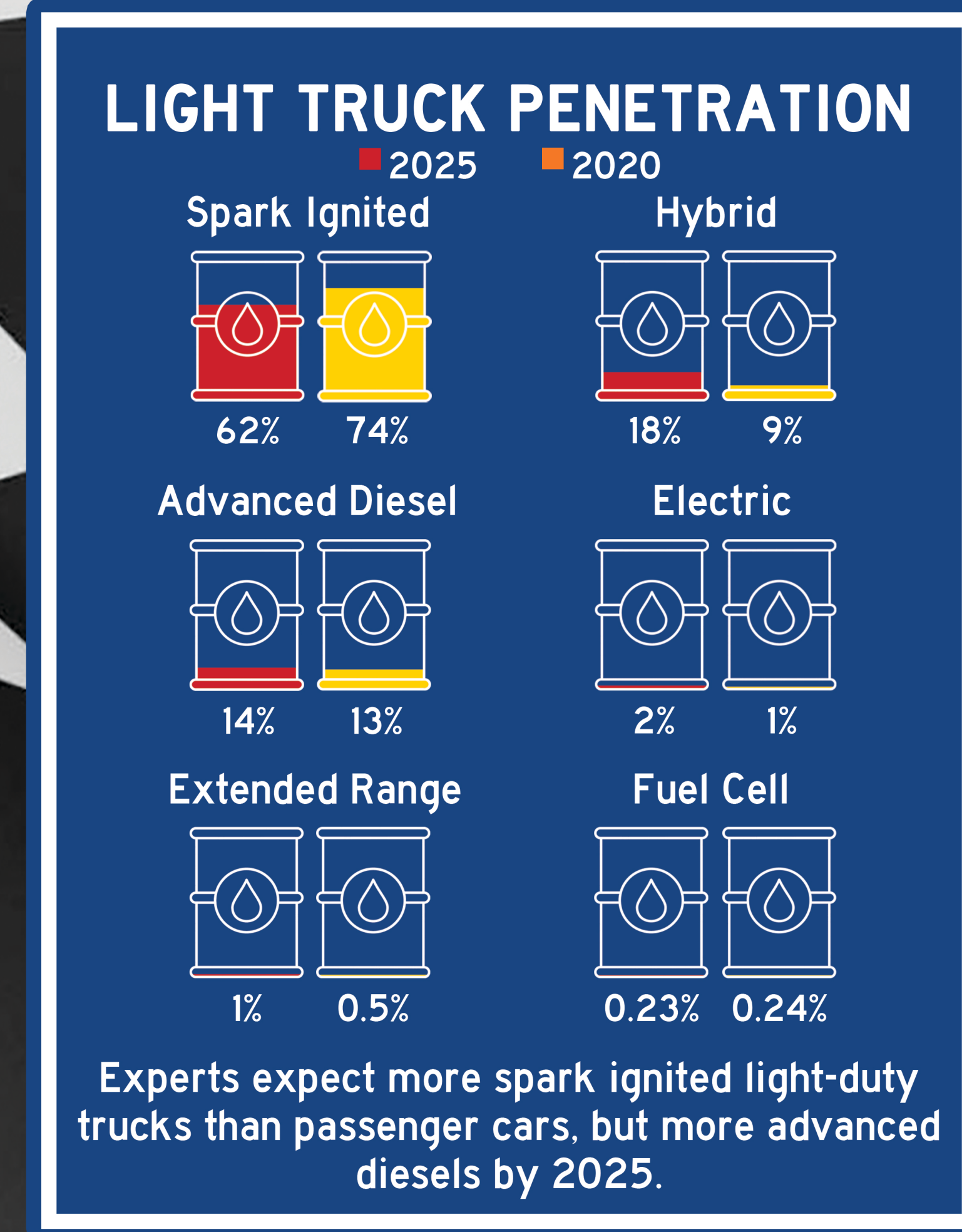
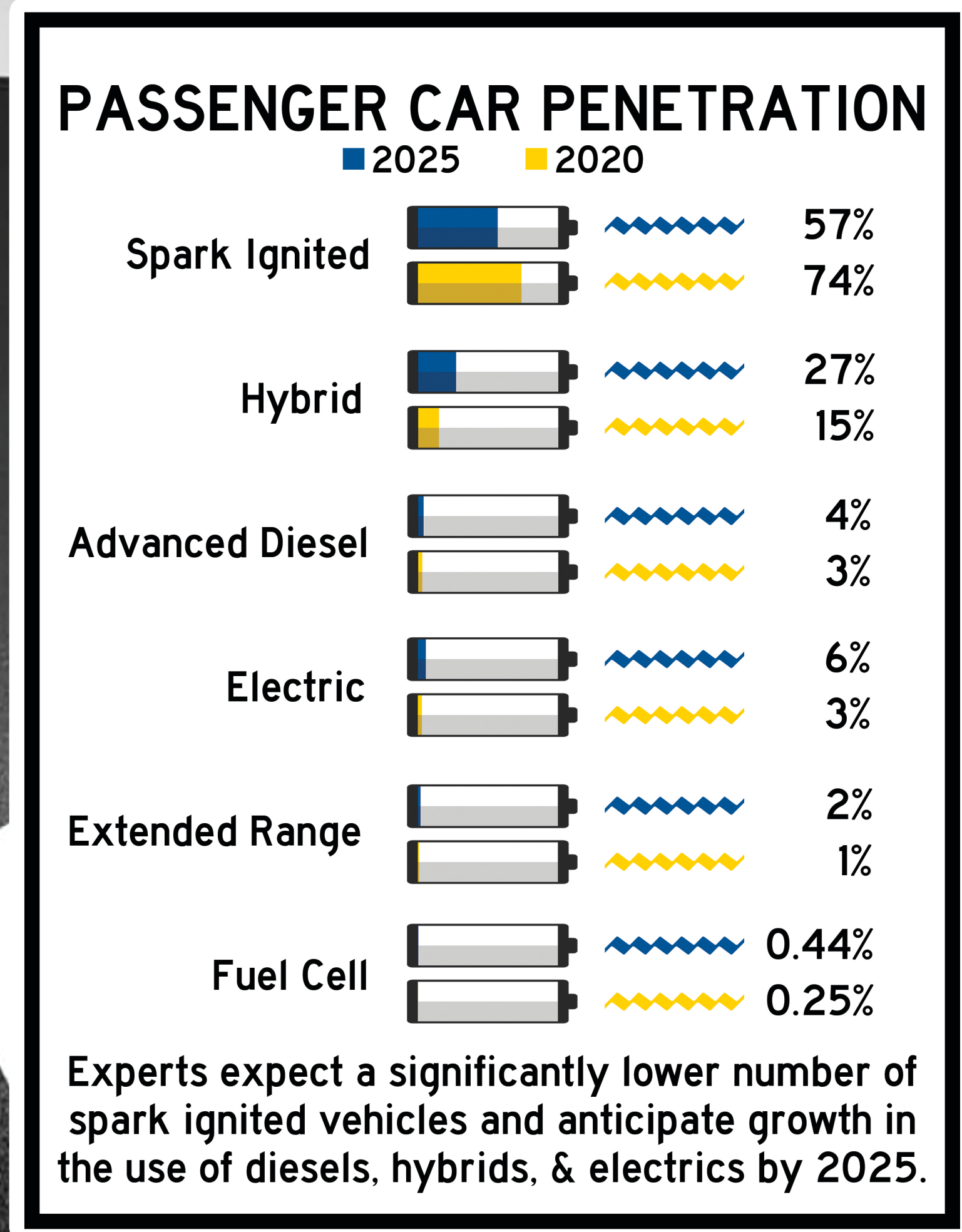
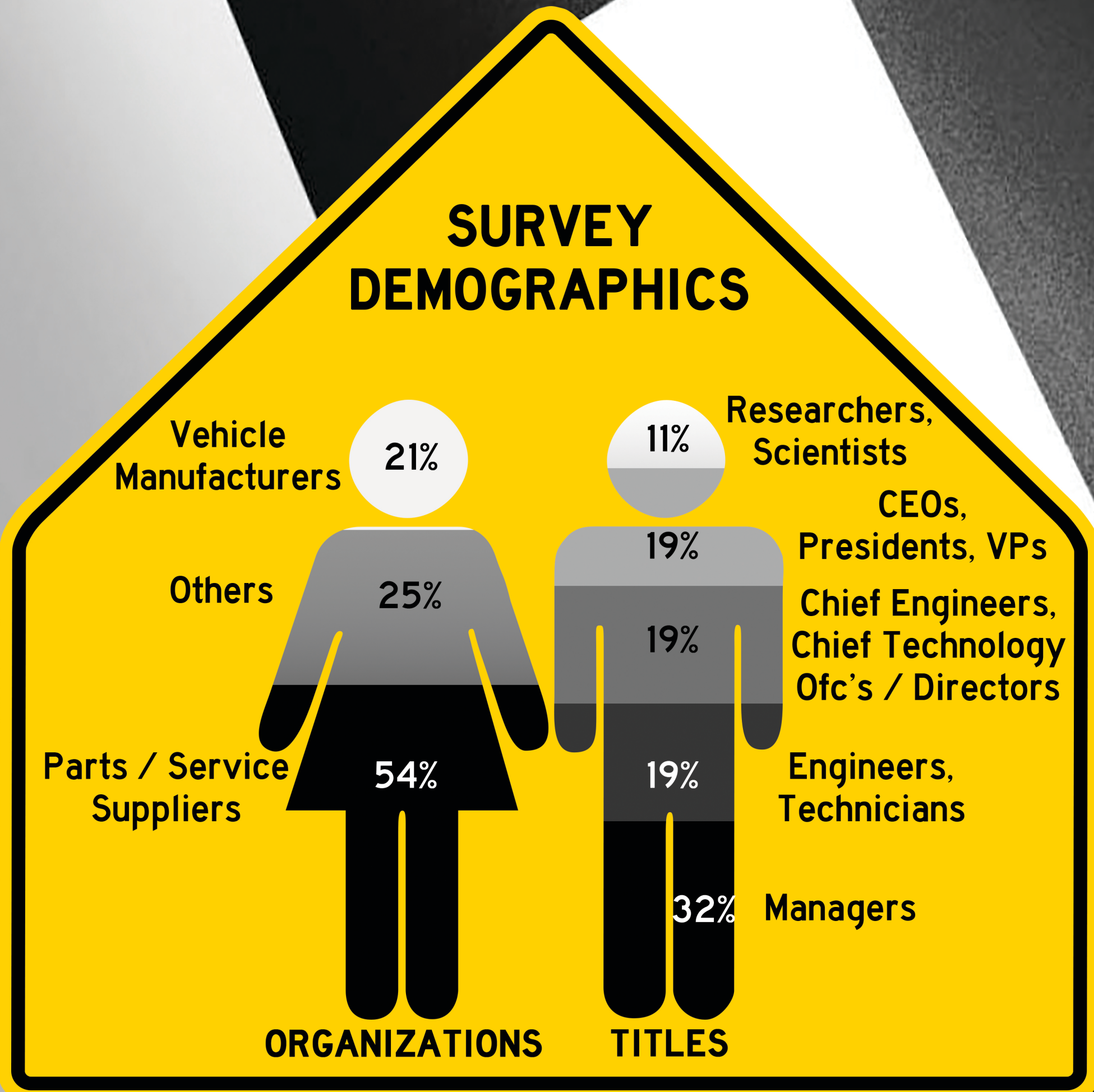
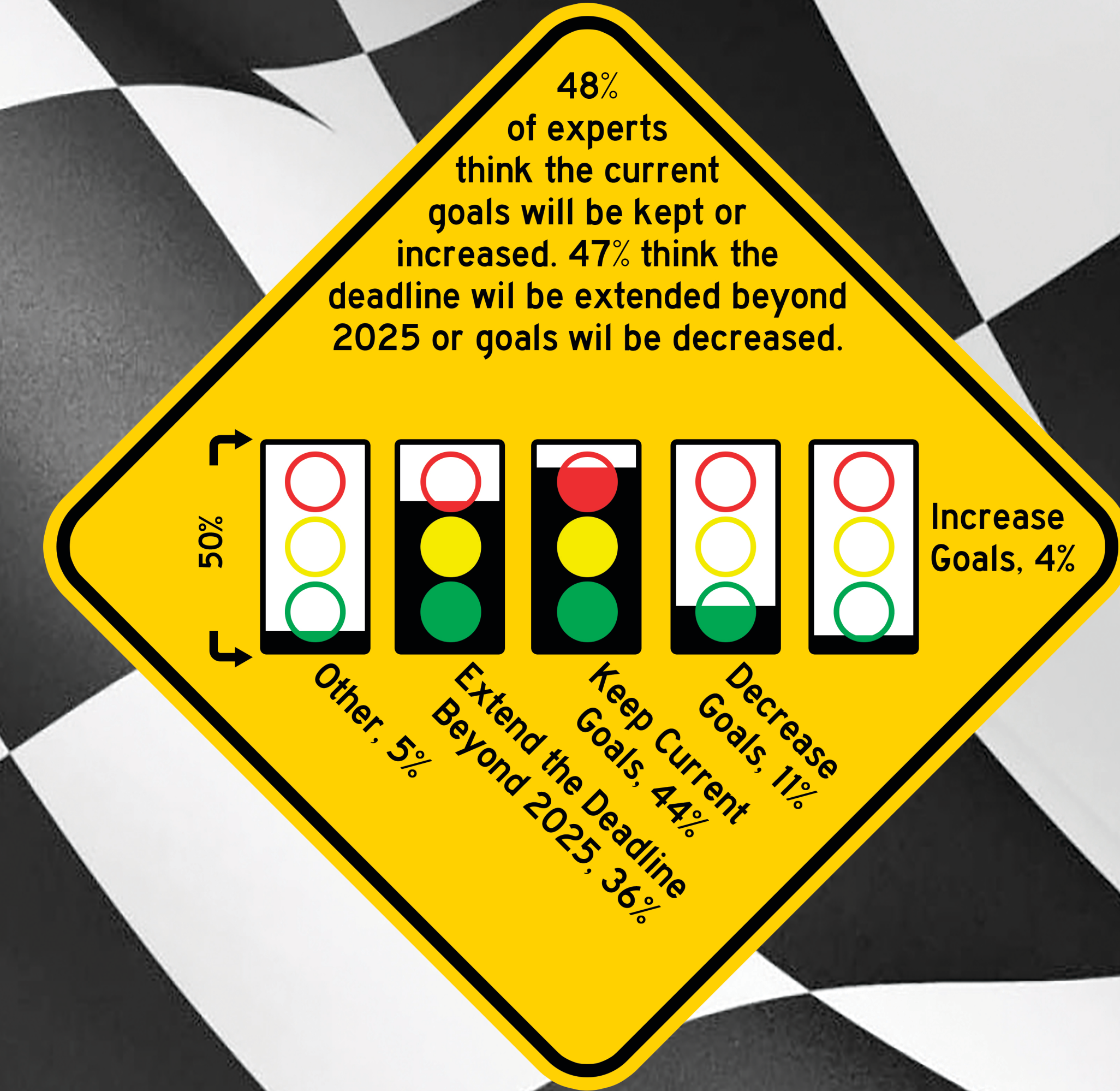


ABSTRACT

Motivated by the rising concern about greenhouse gases (GHG) and U.S. dependence on foreign oil, Congress ordered the U.S. National Highway Transportation Safety Administration (NHTSA) and the U.S. Environmental Protection Agency (EPA) to set separate automotive standards to regulate GHG emissions and fuel economy in light-duty trucks and passenger cars. In 2012, the NHTSA in conjunction with the EPA issued final fuel economy regulations requiring manufacturers to meet a fleet-wide goal of 54.5 MPG by 2025. This study forecasts powertrain penetration in the automotive industry in the 2015 - 2025 timeframe. Using a web-based survey of industry experts, the purpose of this study is to explore the challenges faced by manufacturers and suppliers in meeting the Corporate Average Fuel Economy (CAFE) standards as well as emissions standards. The survey results will provide information to aid in the development of a technology roadmaps for future powertrain components.

Powertrain STRATEGIES FOR THE 21ST CENTURY

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DIFFICULTY MEETING 2025 CAFE GOALS

Experts expect manufacturers to have difficulty meeting goals for both passenger cars and light-duty trucks, but more difficulty doing so for light-duty trucks than passenger cars.

