

Delivering Products which Help Prevent Traffic Accidents



FY2019 Materiality Targets and Results

○: As planned △: Delayed

Details of Main Initiatives	Ideal Image	FY2019 Targets	Indicators	FY2019 Results	Self-Evaluation
Delivering products which help prevent traffic accidents	Realization of a car society with zero traffic accidents	Formulate basic policies for individual safety technologies as planned	Formulation of policies	Formulated as planned	○

Basic Approach

MITSUBISHI MOTORS is aware of its responsibility towards traffic safety as an automaker, and we have set "Delivering products which help preventing traffic accidents" as a key part of our sustainability activities.

Approximately 1.35 million people are lost in traffic accidents worldwide every year* As vehicle ownership increases in emerging countries in particular, traffic accident fatalities are also on the rise. Reducing traffic accidents is an urgent global issue, and Target 3.6, the United Nations Sustainable Development Goals, (SDGs) calls for halving the number of global deaths and injuries from road traffic accidents by 2020.

MITSUBISHI MOTORS is upholding the R&D safety philosophy towards a car society with zero traffic accidents. To this end, we are taking action from two perspectives: developing safety technologies and promoting traffic safety education.

*2018 World Health Organization (WHO) survey

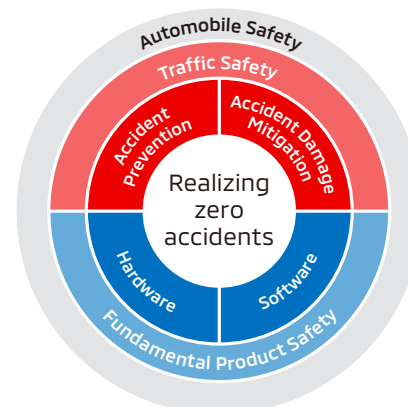
Management Structure

The vision for the safety concept behind product development is "the realization of a car society with zero traffic accidents," and guidelines and a strategy for safe development have been established by the

product safety committee. We also formulated an automobile safety framework as our approach to safety technology. We are conducting initiatives based on three points: 1. Technology to prevent traffic accidents (active safety), 2. technology to mitigate damage from traffic accidents (passive safety) and 3. avoidance of dangers, both in hardware and software, assumed as industrial products (fundamental product safety).

We are also working to enhance the management structure by educating R&D personnel, promoting awareness of the R&D safety philosophy and automobile safety framework.

Automobile Safety Framework



Development of Safety Technology

We strive to incorporate various safety technologies into our products, and to provide comfortable and safe mobility. Our goal is to help customers enjoy the freedom of movement, the convenience of transportation, and the pleasure of driving.

Active Safety Technology to Avoid Crashes

The ultimate solution to eliminate traffic accidents caused by automobiles is to prevent collisions, that is, to prevent accidents in advance. MITSUBISHI MOTORS puts its energies into developing and equipping vehicles with various types of preventive safety technologies and providing safety to society in order to achieve this objective.

Active Safety Technologies

We are increasing the models equipped with active safety technology: "Active Safety Technologies" to support safe and comfortable driving using equipment such as millimeter wave radar and cameras.

Active Safety Technologies comprises one or more of the following functions to support safe operation by drivers.



Active safety functions

Function	Description
Forward Collision Mitigation Brake System	Detects vehicles and pedestrians ahead. If there is a risk of collision, the system alerts the driver or automatically applies the brakes to help avoid a collision or mitigate collision damage.
Lane Departure Warning System and Lane Departure Prevention Function	Continuously monitors the lane markers ahead of the vehicle. If the vehicle appears to nearly drift out of the lane, the system will alert the driver. In addition, Lane Departure Prevention Function takes control of the brakes for a short period of time, helping to return the vehicle to its lane.
Adaptive Cruise Control System	Automatically follows the vehicle ahead by decelerating or stopping. Maintains a constant, preset headway distance from the vehicle ahead to reduce the risk of a collision.
Ultrasonic Misacceleration Mitigation System	When the driver starts a car to drive forward or in reverse, the system prevents rapid acceleration caused by the driver's improper operation of the gear shift or accelerator pedal.
Automatic High Beam	Automatically switches between low beams and high beams depending on whether there is an approaching vehicle or vehicle ahead, the ambient lighting conditions, and other factors, helping safe nighttime driving.

Body Structures that Protect People

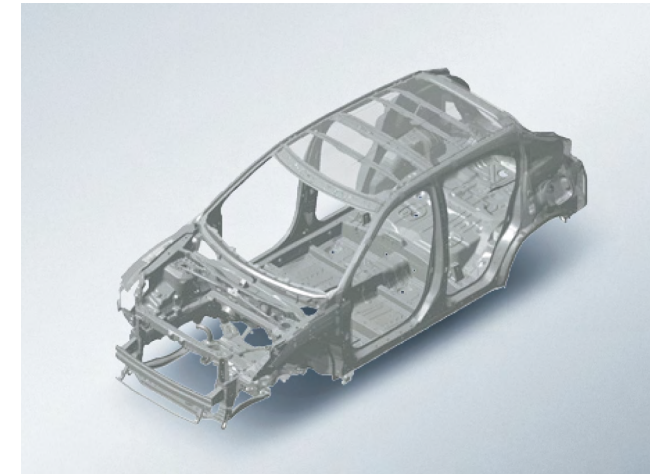
In the event of a collision, it is crucial to have a vehicle body structure that mitigates the impact on passengers and provides adequate space. MITSUBISHI

MOTORS has adopted the Reinforced Impact Safety Evolution (RISE) body, and enhance collision safety performance in all directions: front, rear, and sides.

The ECLIPSE CROSS adopts a front-to-rear straight frame structure that can efficiently absorb collision energy. The vehicle interior (cabin) has numerous high tensile strength steel plates to restrict deformation and protect passengers.

MITSUBISHI MOTORS is also pursuing safety with regard to pedestrians, as well as drivers and passengers. We have adopted energy-absorbing structures in the hood, cowl top, windshield wipers and other parts to mitigate injury to pedestrians' heads. Energy-absorbing structures that protect pedestrians' legs are used in bumper faces and headlights, for example.

These efforts have earned us high marks for safety performance in locations around the world.



RISE Body used in the ECLIPSE CROSS

Results of Major Third-Party Safety Evaluations

Region	Third-Party Evaluation		Model	Rating
Japan	JNCAP*2	Collision safety performance evaluation	eK WAGON/eK CROSS	5★ (Five-Star Award)
		Preventive safety performance evaluation	eK WAGON/eK CROSS	ASV+++
United States	NCAP*2		ECLIPSE CROSS OUTLANDER (AWD) OUTLANDER PHEV	Overall 5★
		IIHS*3	ECLIPSE CROSS OUTLANDER	2019 TOP SAFETY PICK
ASEAN	ASEAN NCAP*2		OUTLANDER PHEV	5★

Period: In Japan, April 2019 to March 2020 for JNCAP; in the United States, 2020MY for NCAP and December 2018 to November 2019 for IIHS; in the ASEAN region, January to December 2019 for NCAP

*2 Abbreviation of New Car Assessment Program. An automobile safety testing and assessment program implemented by a third party organization in each country or region.

*3 Abbreviation for Insurance Institute for Highway Safety. A not-for-profit organization that publicizes information on automotive safety performance testing.



Avoidance of Dangers Assumed as Industrial Products

On the hardware side, we work to reduce the risk of factors other than traffic accidents, such as fires, electric shocks and injuries. To do so, we use flame-retardant materials, employ isolation structures on high-voltage components and use anti-pinch function during automatic open/close operations of electric opening/closing devices (such as power windows).

On the software side, we use firewalls on vehicle networks and employ encrypted communications to reduce the risk of cyber threats via electrical equipment mounted in vehicles.

TOPICS

Scope of Support Cars Expanded

Safety support cars are vehicles equipped with advanced technologies that support safe driving. As part of the effort to prevent traffic accidents caused by all drivers including elderly people, and to mitigate damages and injuries caused by the accidents, Japanese government recommends this new automobile safety concept. Vehicles are classified into the following categories: "Safety Support Cars" or and "Safety Support Cars S" (Basic, Basic +, and Wide) depending on the features in each vehicle. MITSUBISHI MOTORS is expanding its lineup of safety support cars.

Safety Support Car Models (as of June 2020)

Category	Safety Support Car S Wide	
Model	OUTLANDER PHEV	OUTLANDER
	DELICA D:5	DELICA D:5 URBAN GEAR
	ECLIPSE CROSS	RVR
	eK WAGON	eK CROSS
	eK SPACE	eK CROSS SPACE
	DELICA D:2	DELICA D:2 CUSTOM
	MIRAGE	TOWN BOX
	MINICAB	MINICAB TRUCK

Among these models, the eK WAGON and eK CROSS were awarded the highest rating, ASV+++, by the National Agency for Automotive Safety and Victims' Aid (NASVA) in its fiscal 2019 car assessment of preventive safety performance.

In addition, in the Ministry of Land, Infrastructure, Transport and Tourism's "Advanced Emergency Braking System Performance Evaluation System," the ECLIPSE CROSS, DELICA D:5, eK CROSS SPACE and eK SPACE received recognition for their AEBs performance.

Traffic Safety Education and Promotion

MITSUBISHI MOTORS conducts traffic safety education and promotes safe driving to raise safety awareness throughout society with the objective of reducing traffic accidents.

Dissemination of Traffic Safety Information

Automobile Safety Facts Guide Website

We disseminate information on the proper use of equipment and other topics that require drivers' special attention so that drivers will use automobiles more safely.



Automobile Safety Facts Guide

(WEB) <https://www.mitsubishi-motors.co.jp/support/safety/popup/index.html>

(This site is only available in Japanese.)