



Exhibition Outline of the 20th ITS WORLD CONGRESS TOKYO 2013

Tokyo, October 15, 2013 – Fuji Heavy Industries Ltd. (FHI), the manufacturer of Subaru automobiles, announced its participation in the 20th ITS WORLD CONGRESS TOKYO 2013 to be held mainly at Tokyo Big Sight from October 14 to 18, 2013. This international event consists of sessions and exhibitions which focus on intelligent transport systems (ITS) and is hosted by the Japan Organizing Committee of ITS WORLD CONGRESS TOKYO 2013. FHI will be exhibiting a model vehicle equipped with its new “cooperative driving assistance system”.

FHI strives to eliminate the possibility of any and all automobile accidents. It views automated driving as a safeness technology that is effective in preventing undesirable vehicular mishaps. To achieve this, FHI continues to enhance its driving assist technology “EyeSight” which is based on recognition abilities using a stereo camera system. FHI’s recent development of the next generation “EyeSight” is nothing other than proof of advancement towards an accident-free society. At ITS WORLD CONGRESS TOKYO 2013, FHI will present a model vehicle equipped with a new “cooperative driving assist system” which stems from the advanced driving assist system “EyeSight” and utilizes a vehicle-to-vehicle communication system.



Model vehicle with “cooperative driving assistance system”



Subaru booth image

Demonstrations of the “cooperative driving assistance system”

- Advanced Safety Vehicle (ASV) with communication systems

FHI will present its cooperative automated driving technology and how it can prevent accidents even in low visibility situations by acknowledging traffic and pedestrian movements with vehicle-to-vehicle and pedestrian-to-vehicle communication systems.

<List of assistance features>

- Right-hand turn collision prevention assistance system
 - Pedestrian information notification system
 - Broadside collision prevention assistance system
 - Construction vehicle information notification system
 - Left-hand turn collision prevention assistance system
 - Emergency vehicle information notification system
- Cooperative Adaptive Cruise Control (CACC) for smooth traffic flow at highway sag sections
Adaptive Cruise Control (ACC) and Cooperative Adaptive Cruise Control (CACC) incorporating ITS Spot service (DSRC) and vehicle-to-vehicle communication system can maintain optimal distance between vehicles by allowing responsive and smooth acceleration/deceleration. FHI will demonstrate how controlling the distance between vehicles can contribute to a decrease of congestions at highway sag sections and more fluent traffic flow.

“EyeSight” demonstration

- Collision avoidance

At Aomi West Parking Lot Section K, participants will be able to test ride with a Subaru driver to experience automatic pre-collision braking from a speed of 30 km/h to avoid collision with an obstacle. This is one of the main features of “EyeSight”.

[Restrictions due to road, weather and/or vehicle conditions may apply.]

Subaru booth main exhibitions

Subaru’s automated driving technology roadmap includes endeavors such as “EyeSight” and the next generation “EyeSight”. They will be the principle technologies to be presented at the FHI exhibit as described below, and will be accompanied by an actual model car equipped with the “cooperative driving assistance system” and video screenings of ASV/CACC experiments.

- Next generation “EyeSight”

Panels and test videos

<Main features of the next generation “EyeSight”>

- Lane Keeping Assist (maintain position in middle of lane; prevent straying from lane)
 - enhanced Pre-collision Braking Control
 - improved Adaptive Cruise Control; Brake Lights Recognition
 - Pre-collision Reverse Throttle Management
 - Hazard Avoidance Assist
- “EyeSight”
Illustrative video of how “EyeSight” processes the images gained from its stereo camera system and recognizes the object.

[20th ITS WORLD CONGRESS TOKYO 2013]

Date: October 14 - 18, 2013

(Opening ceremony on October 14; Sessions and exhibitions from October 15 to 18;

Closing ceremony on October 18)

Location: Opening ceremony at Tokyo International Forum; October 15 - 18 at Tokyo Big Sight

Official website: www.itsworldcongress.jp

Hosted by Japan Organizing Committee of ITS WORLD CONGRESS TOKYO 2013

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