Project Wrong-way driving detection
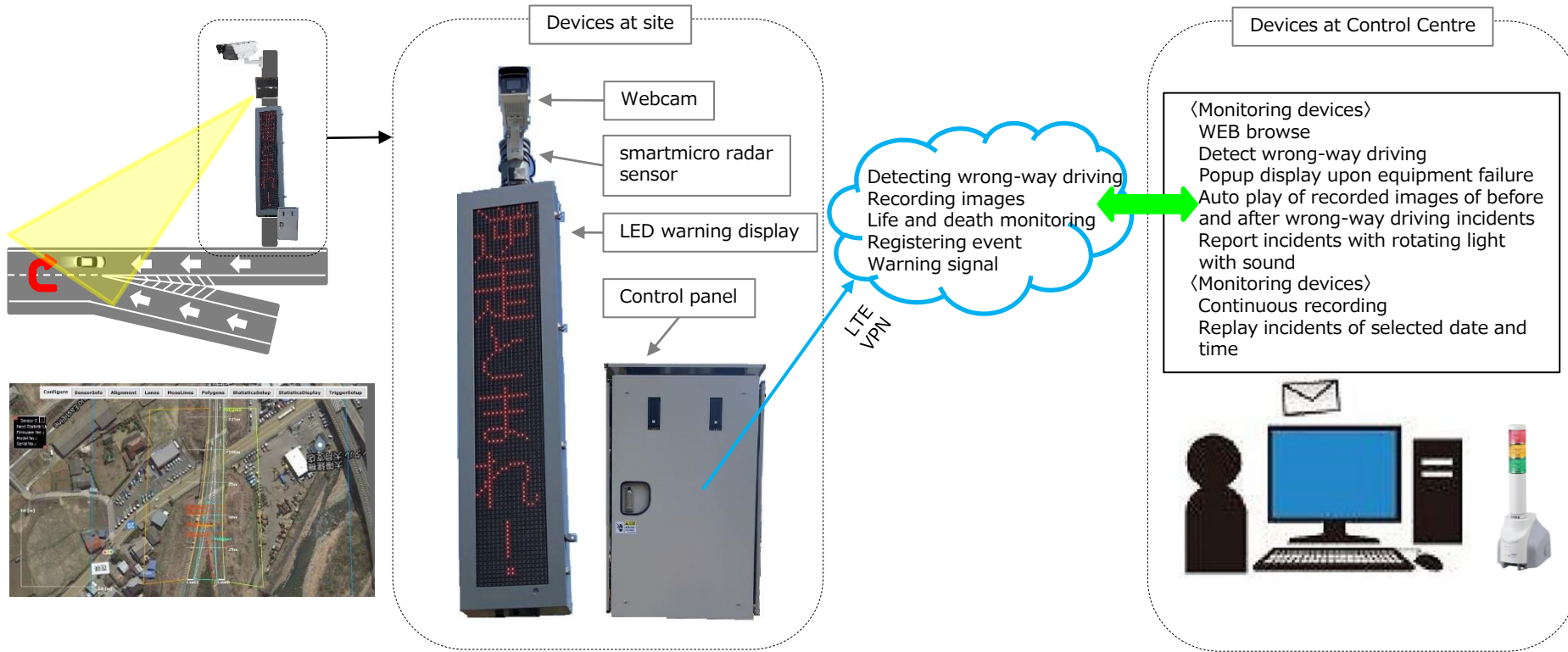
Project Wrong-way driving detection

Summary

- ✅ This project is based upon the motto 'Zero tolerance of accident caused by wrong-way driving 2020' initiated by MLIT* made public offering to private sector.

- ✅ Thema II 'The technology which detect wrong-way driving violation at the roadside and collect its data'
  Three companies are selected.

- ✅ Aiming for practical application of wrong-way driving countermeasure technology installing at IC junctions and approach of SA and PA on Expressways, set up equipment preferentially to verify and evaluate the technology at several violation points.

- ✅ The component of devices at sites is smartmicro traffic radar sensor, LED warning display, webcam and control panel.
  Wrong-way drivers will be warned by LED display upon violation and simultaneously warning signal will be sent and images of before and after violation will be popped up and recorded at Traffic Control Centre through control panel network.

*MLIT: Ministry of Land, Infrastructure, Transport and Tourism

smartmicro SMART MICROWAVE SENSORS

Saftec Co.,Ltd

System configuration

Devices at site

- Webcam
- smartmicro radar sensor
- LED warning display
- Control panel

LTE VPN

Detecting wrong-way driving
Recording images
Life and death monitoring
Registering event
Warning signal

Devices at Control Centre

〈Monitoring devices〉
 WEB browse
 Detect wrong-way driving
 Popup display upon equipment failure
 Auto play of recorded images of before and after wrong-way driving incidents
 Report incidents with rotating light with sound
〈Monitoring devices〉
 Continuous recording
 Replay incidents of selected date and time

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Project Wrong-way driving detection

Current sites

Tsuchitaru PA

Akita Chuo IC

Toga Nishikata PA

Kurume IC
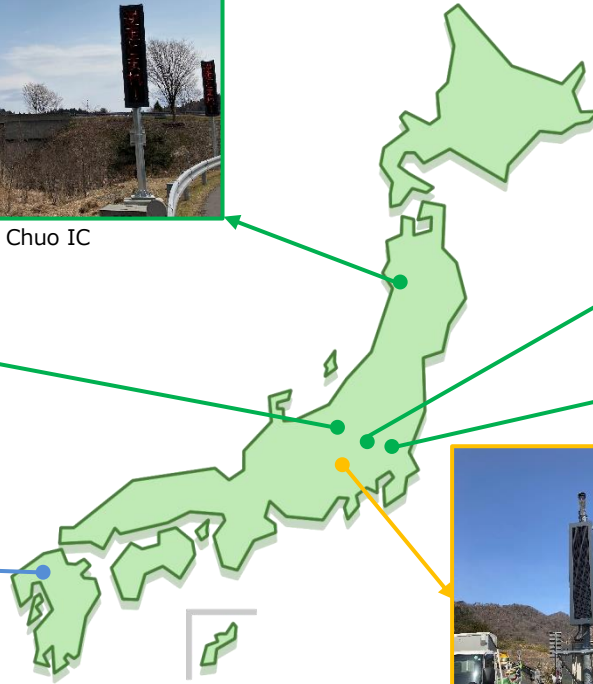
Ohtsuki JCT

Ibarakicho Nishi IC

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Project Wrong-way driving detection

Installation site 1
Chuo Highway, Ohtsuki JCT in Yamanashi-prefecture 35.601174, 138.918004

Place of a radar sensor, a LED and a camera
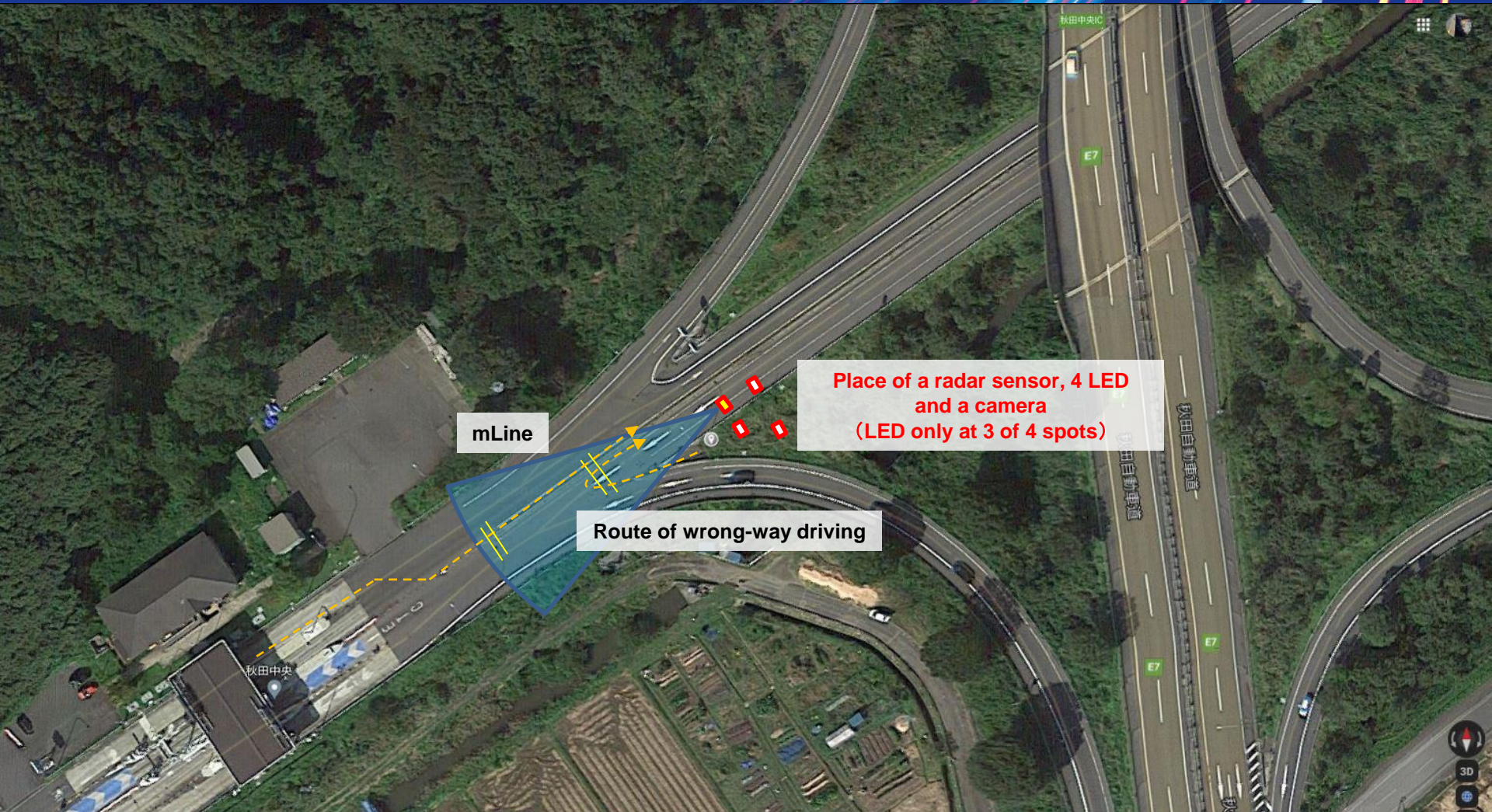
mLine

Route of wrong-way driving

Project Wrong-way driving detection

Project Wrong-way driving detection

mLine

Place of a radar sensor, 4 LED and a camera
（LED only at 3 of 4 spots）

Route of wrong-way driving

Project Wrong-way driving detection

This project 'Zero tolerance of accident caused by wrong-way driving' was launched in 2020 starting from just one site.
Now we are deploying at six sites among key region in Japan from North to South, and expected to be expanded.

Since then the data is being evaluated by the system and is occasionally checked.

It is still too soon to tell for the final results but the detection has never been failed, so we are aiming for the 100% achievement.

smartmicro's traffic sensors were easily installed, and offer a reliable detection solution.