Al-based Future Traffic Forecasting Solution



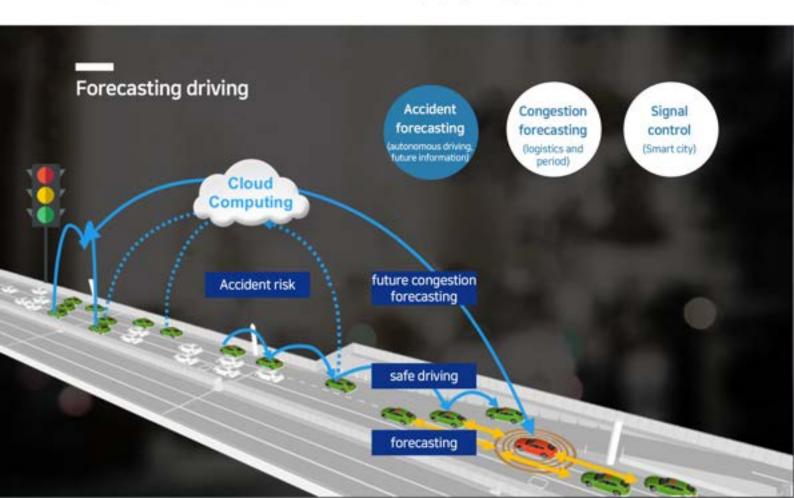
Technology development and service for solving urban traffic issues

Technology to forecast the future of transportation

- Solving the urban transport issues by facilitating the Al-based cloud resources
- Forecast the traffic demand to establish intelligent traffic signal control and plan
- Providing hazard information and traffic related information in order to provide safe routes to drivers
- Providing forecasting information on traffic hazard level for each vehicle lane on the autonomous driving cars

By forecasting the traffic situation (risk, congestion) of the future (after 2 minutes to 2 days), it may be possible to prepare for possible traffic issues by providing this future information to the applicable industry (automobiles, logistics, insurance, government - effective signal control) that requires the future traffic information

- Required forecastable information: Calculate the future traffic information by analyzing location, speed and traffic volume



Product group

Providing future transport information on automobile manufacturer, logistics, government, insurance company, and emergency transport industry

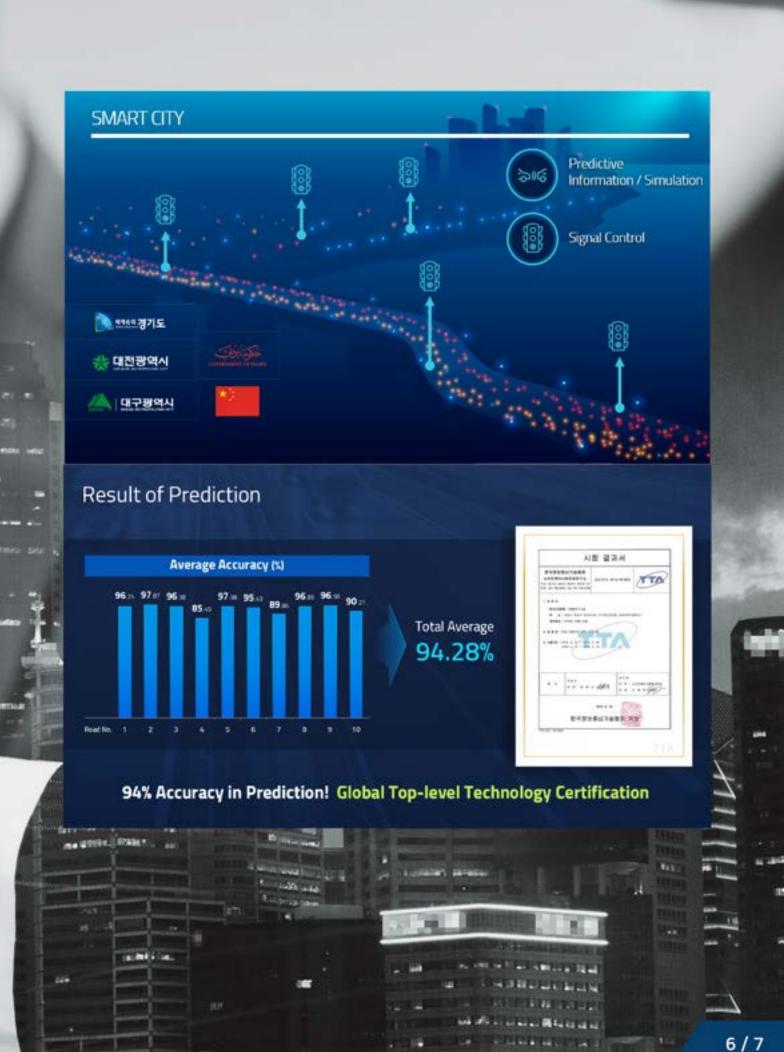


Automobile: Navigation, HUD (Head Up Display)

HUD design of TPCW



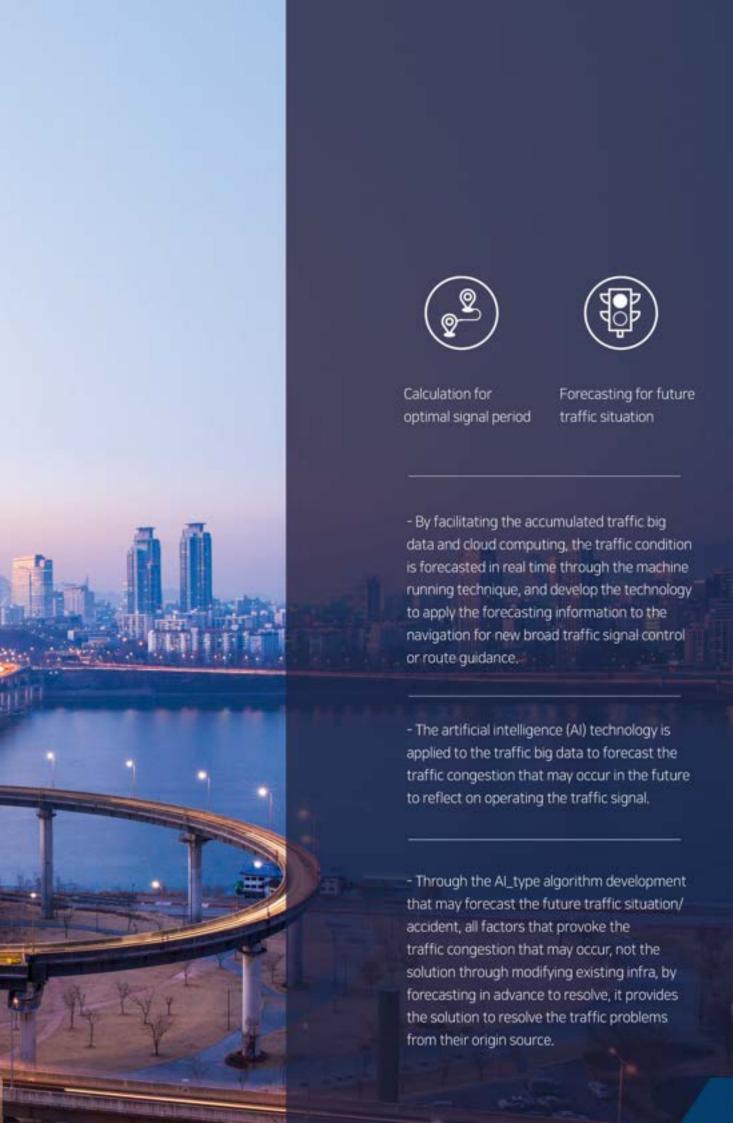




Solution of government for Smart City

By forecasting the future traffic volume for each direction in congested area or hazardous area based on the information in a way of calculating the time period for the signal control and deliver the same to the control center, it brings significant effect to the traffic congestion.





Al-based Future Traffic Forecasting Solution

www.bluesignal.co.kr

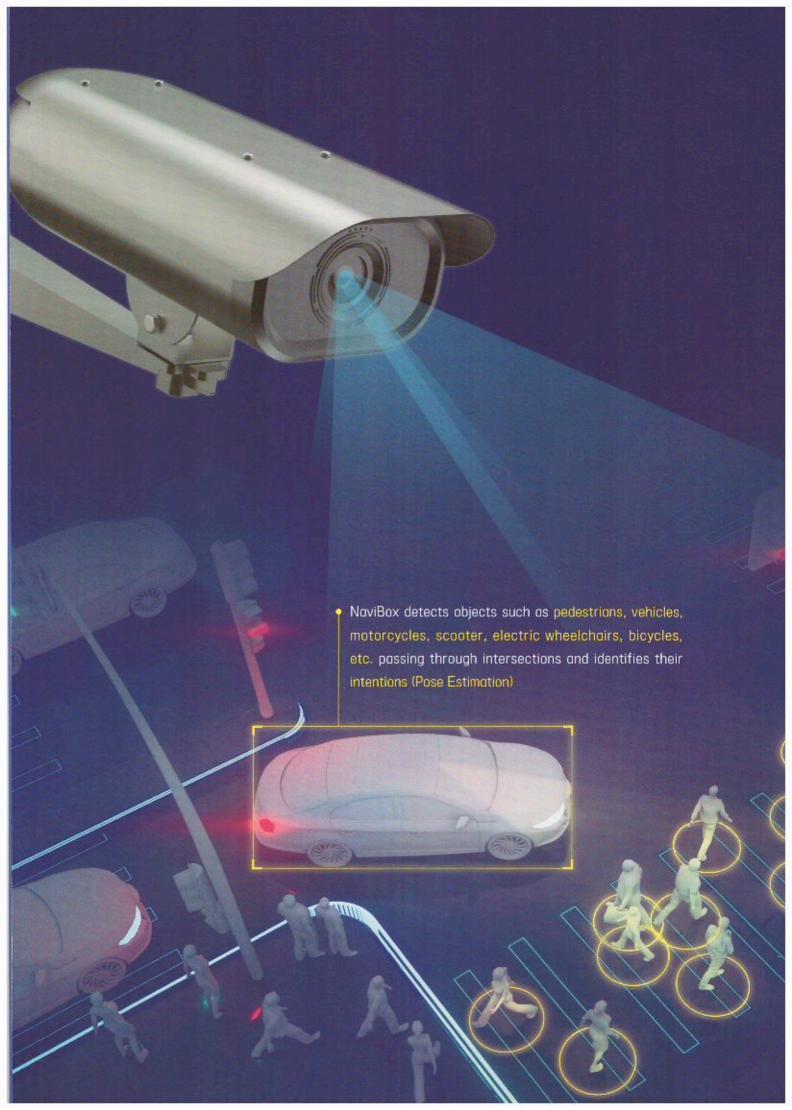
Cel:+82-10-9245-6136

E-mail: red3922@bluesignal.co.kr



Artificial Intelligence CCTV to prevent pedestrian-vehicle accidents

Edge-computing based NaviBox



NaviBox

NaviBox is the device that prevents pedestrian-vehicle accidents by monitoring crossings in real time, predicting and warning various dangerous situations occurring at intersections in advance.

It prevents possible accidents at intersections by predicting possible dangerous situations which may happen after 1-2 seconds.

Dangerous situation to predict





- 1 Jaywalking pedestrians
- 2 Traffic violation vehicles
- Collision due to failure to perceive moving objects

 (All moving objects including pedestrians moving when turning right)
- Warning on risk of collision between vehicles from changing the line (Scheduled)

It mainly predicts and warns the collision points of moving objects by identifying the direction of the final target point of the object or the shape of the human joints

NaviBox

System Items

- 1 NaviBox Main Body
- 2 LED Display
- 3 Logo Projector
- 4 Super-oriented Speaker
- 5 Management Program

<NaviBox Main Body>





<LED Display>



<Logo Projector>

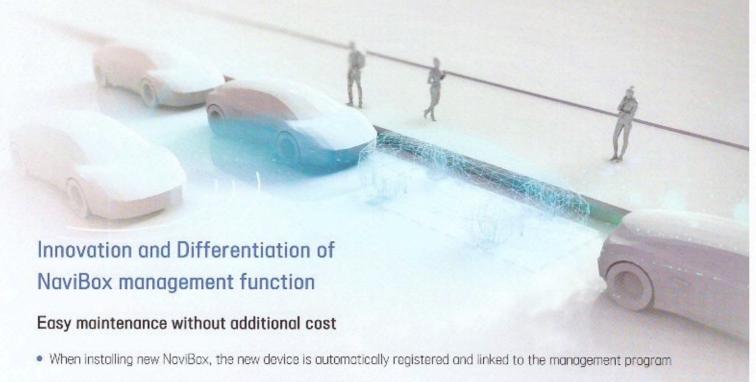


<Super-oriented Speaker>



<Management Program>

- MS Azure-based IoT hub, docker VM -



- One-click version upgrade system (No maintenance cost)
- Convenient user interface
- Real-time operation based on edge-computing (No delay)

Screen interpreted by NaviBox





Actual analysis screen when using NaviBox



Type of warning displayed on LED screen and logo projectors for warning pedestrians and vehicles

<Logo Projector>





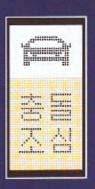




<LED Display>









Pedestrians

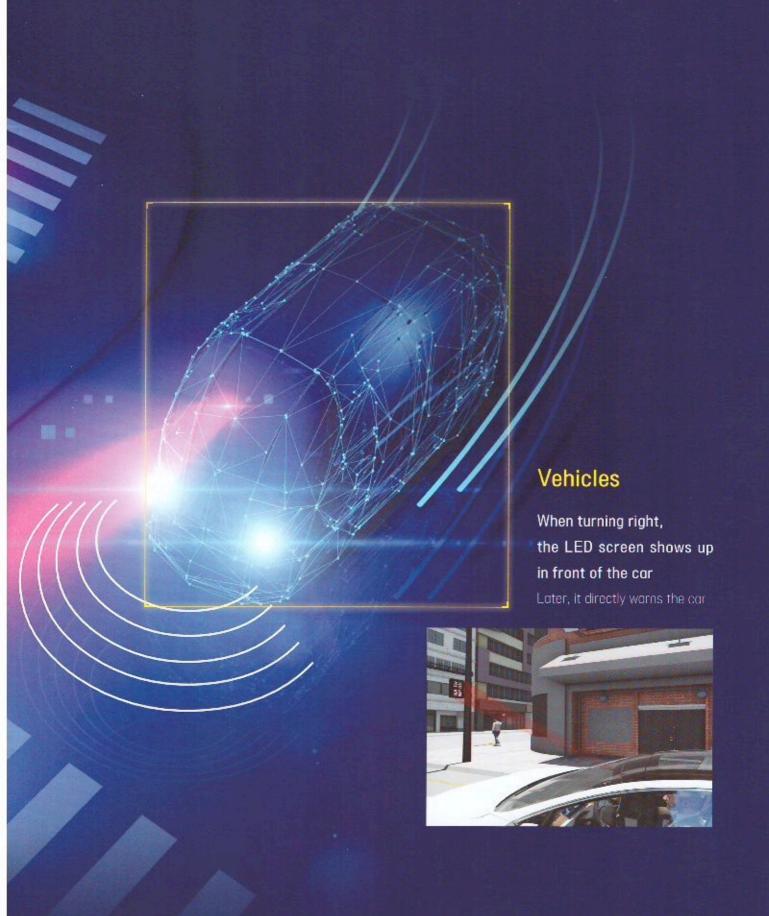
Warning with logo projector and super-directional speaker

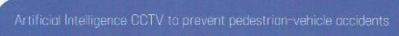
(Focus only on the pedestrian location)











Edge-computing based NaviBox

NaviBox promises to develop into a valuable for reducing accidents and especially protecting growing children



Tel +82-42-863-6136 | Fax +82-50-7713-5197

BLUESIGNAL, INC.

(Head Office) A601, 193 Munji-ro, Yeseong-gu, (Munji-Dong, KAIST Campus) Daejean (Branch Office) 3rd Floor, Sejong SB Plaza, 93 Guncheong-ro, Jochiwon-cup, Sejong

BlueSignal HK

(Hong Kong) 6F, Fung Sang Trade Building, 54 Bonham Stand West, Sheung Wan, Hong Kong

BlueSignal America

(USA) 1240 West Peachtree Street NW Atlanta, GA 30309, USA