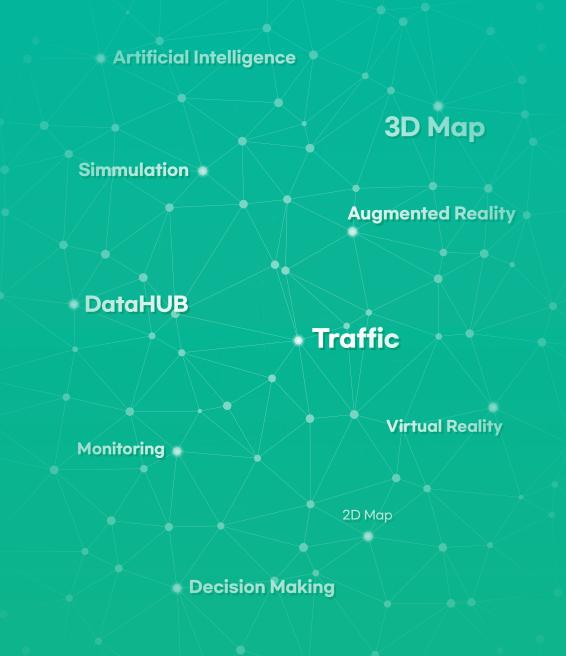


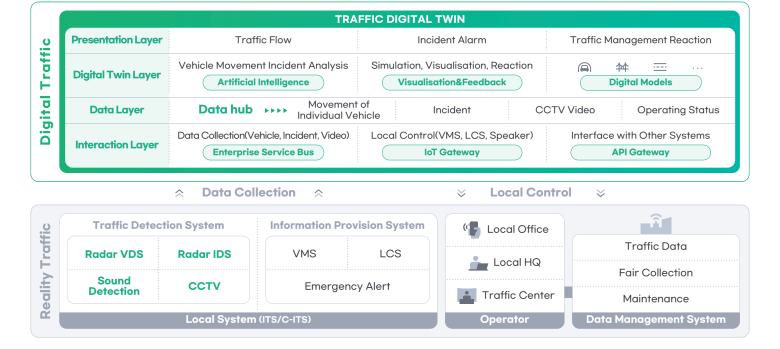
# **TRAFFIC** DIGITAL TWINS



#### TRAFFIC DIGITAL TWINS

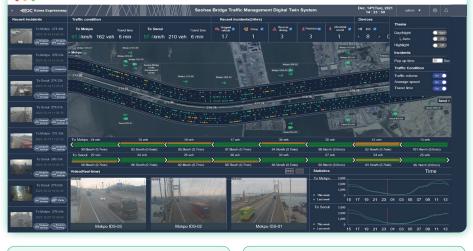
### **Connects Real Road & Digital Road**

**Traffic Digital Twin** is an advanced traffic control platform that stores, manages, and analyzes traffic data collected in real-time through sensors such as radar and CCTV installed on the road, and transforms actual road traffic conditions as a virtual digital twin.





Traffic Digital Twin integrates and analyzes radar detection data and other sensor data, and visualizes it on the digital twin screen in real time.



#### **Digital Twin Map**

- · Real-time vehicle movement
- · Pop-up message with the location of incident
- · Location of local devices

#### **Summary**

- · Traffic condition (speed, traffic volume, travel time)
- ·Incident
- (recent incident, playback of incident video)
- · Local devices & devices status information

#### **Incident History**

- · Recent incidents
- · Playback of auto focusing video

#### **Traffic Condition Map**

· Traffic condition(free flow, congestion) & travel time by direction/section

#### **CCTV Monitoring**

- · Real-time CCTV streaming
- · CCTV display layout setting
- · Auto focusing in case of incident

#### **Traffic Flow Statistics**

- · Provide visualization data of traffic condition statistics
- · Compare traffic volume by time (last week/this week)



# **METABUILD Smart Radar Solution**

METABUILD's Smart Radar Solution ensures excellent detection performance in various weather conditions, day and night and in various road environments such as city roads, highways, tunnels, and bridges.

#### **TMR-200**





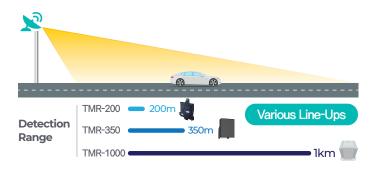


**TMR-1000** 



It provides a lineup of short-range (<200m), medium-range (<350m), and long-range (<1km) radars that can implement optimal coverage across a variety of road geometries.

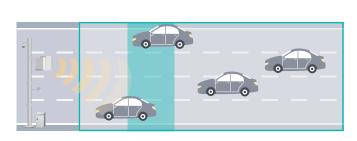
#### **Detection Range**

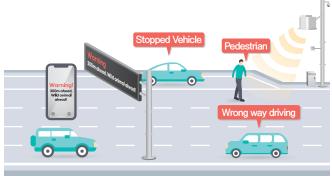




#### **Features**

Metabuild's radars detect the location and speed of vehicles on the road, calculate traffic volume and average speed. also, The radars detect stopped vehicles, wrong way driving vehicles, and pedestrians,, etc. in real time.







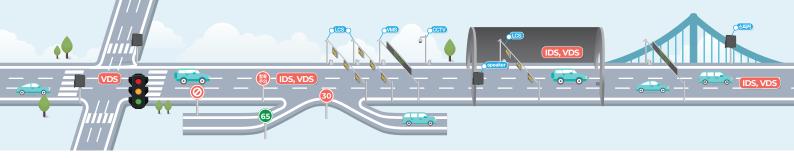




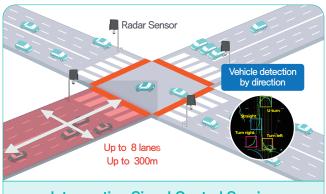






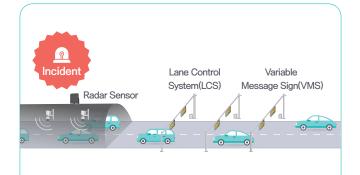


#### **Services**



#### **Intersection Signal Control Service**

Signal optimization, responsive signaling, dilemma zone resolution, speed control of child protection zone, etc.



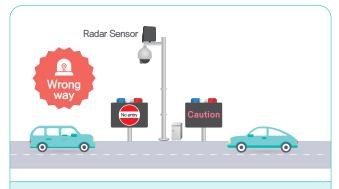
#### **Tunnel and Bridge Safety Support Service**

Tunnel and bridge safety support, traffic flow management through lane/speed control



#### 3-MIX Tunnel Accident Detection Service

Automatic accident detection through 3-MIX fusion such as radar, video, and sound



#### **Reverse Driving Prevention Service**

Prevention of traffic accidents through detection and warning of wrong way driving vehicles

## **Specification**













Type	Frequency	Update Time	Max. distance	Distance accuracy		Detection lane	No. of objects detected	IP Rating	Interface	Note
TMR-200	24GHz ISM	40ms	200m	± 0.2m	± 0.2km/h	6 lanes	256	6K9K	TCP/IP	-
TMR-350	60~61GHz MIMO	100ms	350m	± 0.3~0.8m	± 0.15km/h	8 lanes	256	IP67	TCP/IP	Left/right turn detection
TMR-1000	34~35GHz	100ms	1,000m	± 2m	± 2km/h	6 lanes	256	IP67	TCP/IP	-

