



# Seoul Robotics

A 3D Computer Vision Company

# Level 5 Control Tower (LV5 CTRL TWR)

Alternative to having sensors, computers, and software embedded in vehicles

- ▶ Perception, planning and control are **enabled by smart infrastructure**, through the cloud and V2X technology
- ▶ Non-autonomous vehicles can now be driven autonomously, as long as they are connected to the LV5 CTRL TWR grid



# LV5 CTRL TWR



# How LV5 CTRL TWR Works

## 1. PERCEPTION



- ▶ Install dozens of sensors around a facility.
- ▶ It ensures that each vehicle is detected by at least 2 sensors at all times
- ▶ No blind spots for any of the vehicles, ever.

## 2. PLANNING (CLOUD)



- ▶ In the cloud, we determine a safe path from each autonomous vehicle's origin to its destination.

## 3. WIRELESS CONTROL



- ▶ The LV5 CNTRL TWR takes the wheel, using either local 4G or 5G networks, or other V2X systems.
- ▶ The system sends encrypted control commands to the designated vehicle.

# LV5 CTRL TWR Benefits

## SAFETY



- ▶ LV5 CTRL TWR is safe, since multiple sensors on the infrastructure means there are no blind spots for any vehicle
- ▶ No vehicle damage caused by human errors

## EFFICIENCY



- ▶ Automate every single vehicle with a lot simultaneously, while companies are currently limited by the manpower of their drivers.
- ▶ Improve space utility by 20%
- ▶ Logistics operation 24/7

## ECONOMICAL



- ▶ LV5 CTRL TWR does not require the retrofit of vehicles
- ▶ Driver costs can be reduced by up to 70%
- ▶ Installation ROI within 2 years available

# Autonomy Through Infrastructure

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