



 **Smart Transportation – Edge AI Products**

- Improved Provincial Highway 74's traffic flow by 30%
- Aided in the successful tests of autonomous buses in Taipei
- Provided AI solution for fishing boat logging and recognition at Keelung port



tomorrow. As of 2020, many of Taiwan's local governments have adopted AIMobile's traffic surveillance and control technology to make their cities or counties run more safely and smoothly.

up to 30% through the use of its built-in scenarios for traffic control and its machine learning that is constantly being informed on-the-ground by what is happening locally. This solution serves not only to direct traffic flow, but also to control traffic signs, protect pedestrian safety and aid law enforcement in traffic-related issues.

**An Edge AI Solution to Improve Traffic Flow by 30%**

By now, the public is fairly familiar with the cloud and cloud AI. More advanced and more efficient than cloud AI is Edge AI, where the machine's computing and processing takes place locally without wasting anytime for data transmission back to a centralized headquarter. AIMobile Edge AI solution is at the core of how it aids transportation departments in cities like Taichung and Kaohsiung to monitor and control the flow of traffic.

In the Taichung case, the company's AI boxes were set up throughout large expanses of Provincial Highway 74 in the hopes of solving traffic congestion that has become typical for the highway. The Edge AI Solution has been able to improve traffic flow by

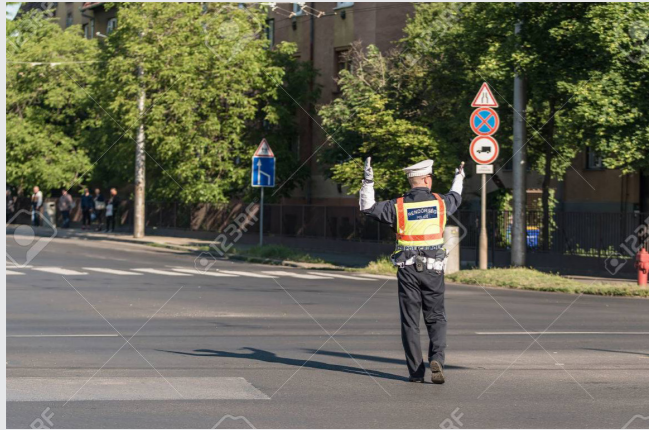


# AIMobile makes the smart cities safer with Edge AI traffic control solution

**W**e live in a congested world. According to the World Bank, over 50% of the world's population currently lives in an urbanized area—that's over 3.5 billion people. With increasingly more people moving into cities and more places undergoing development, urban planning needs to be effective; it needs to be smart. Understanding the need for a smart solution (AI + IoT), AIMobile, a Taiwan-based company, got a head start in 2016 to develop the technology of

## Edge AI Multi functions Deploy to Traffic Fields

AI Law Enforcements



Traffic Flows



Auto/Half Sign Controls



Pedestrian safety and autonomous driving



Like with any AI solution, the more data the better. So, each node or location where an AIMobile's AI box is fixed constitutes a larger mesh network of simultaneously working boxes. As of the time of publication, AIMobile has 20 of these networks in place in Taiwan that collect, analyze and control traffic and transportation. These boxes feature a waterproof, fan-less ARM-based solution that keeps maintenance low and productivity high.

### Safety-proofing Autonomous Public Transport

Up north in Taipei, AIMobile has been instrumental in testing out autonomous buses as the country's capital looks

to make travel more convenient and the roads safer at all times of the day. Using the same sensor and communication technology, AIMobile has been able to customize its solution to inform and aid autonomous vehicles as they make their way through the city.

### Other Local Partnerships & Future International Collaborations

The diverse applicability of AIMobile's solution has made it quite the helpful partner to many local governments in Taiwan. Keelung, Taiwan's port city, has used AIMobile's technology for fishing boat recognition and water level detection and notification. Taoyuan has used it

## Pedestrian safety and Autonomous driving Real time Traffic "Area" information Sync by RSU OBU SCC



for environmental management. The list of problems AIMobile has been able to provide a solution to is pretty extensive, so it is a no-brainer that foreign governments are in talks with the company to apply their solution abroad. AIMobile is currently in talks with countries in South and Southeast Asia to apply their solution to the problems they face.

### A One-Stop Shop & A Customizable Product

AIMobile's AI + IoT solution is one that can serve as many purposes as the mind can think of, not just in traffic control. While the hardware may look different, the software that makes for faster and better data transmission and analysis is applicable to almost any industry. If you have been to a restaurant where the waitstaff takes

your order with a tablet, you have seen an AIMobile product. If you have been to a hospital and gotten a checkout, you have seen their product too. AIMobile's presence can be seen in retail, field service, warehouse and logistics, etc. What's more, AIMobile's proprietary software can easily be upgraded to 5G network, keeping it compatible with the advancement of network technology. With such a high-level of skill, AIMobile has quickly become one of the biggest ODM brands in the Taiwanese market and is a mainstay for evolving Taiwan into a smart country of the future.



### Smart Transportation

#### SELLING POINTS

- A waterproof, fan-less ARM-based AI box solution AI box with software and hardware that are customizable for the unique needs of clients
- Edge AI technology that is faster and requires up to 400x less backhaul data bandwidth
- 30+ AI functions within one device for convenience and multipurpose of use
- Easy to install (less than 3 hours); easy to set up (less than 3 minutes)
- Easily upgrade to 5G network

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