

Intelligent traffic signal control :

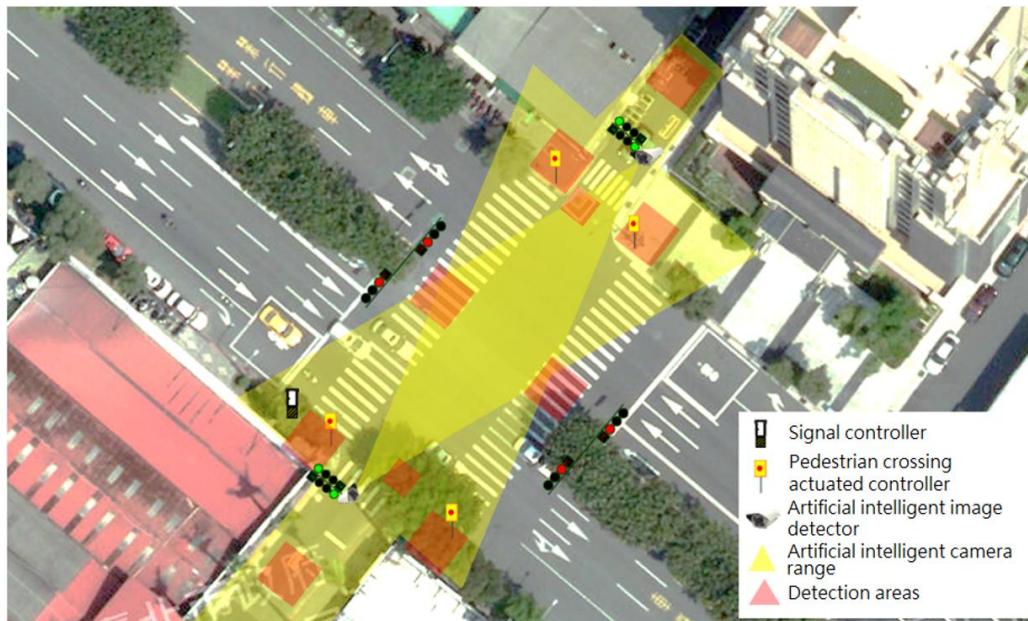
1. Adaptive signal control system :

- (1) Adjusting signal timings in response to variations in traffic demand and system capacity as they occur.
- (2) Location, 2019: Dynamic control of 9 intersections Neihu and Nangang.



2. Traffic-responsive signal control :

- (1) The side streets of some wider major roads have very different traffic flows, but for safety reason for pedestrian, there is a minimum green time for side street even there is no vehicles or pedestrians passing, which wastes time of stopped vehicles on the major streets ◦
- (2) This plan uses the AI image recognition detector to identify vehicle/pedestrian real-time, calculates and adjusts signal timing at intersection on the field.
- (3) Location, 2019: Lane 75/94, Wenlin North Road(Zhong-zheng Senior High School).



3. Expected Benefits

- (1) Reduce flow stops, and improve the movement on the major street
- (2) Increase the flexibility of the signal timing control, and improve the efficiency of traffic flow