As techonology develops, autunomous driving is gradually entering the public view. However, the lack of ways of collecting accurate data on the road and sending them to vehecles greatly hinders its development. Currently existing lammposts can be modified so that they are able to collect data from road and upload onto severs, or send information to autonomous driving vehicles, which is an ideal solution to the current problem.

Our work aims to create methods to evaluate given lamppost modification systems, and decide a best lamppost modification plan for a particular limited city area. Then we evaluate our own modification plan and find out ways to improve it.

Our work helps analyze the ideal smart lamppost modification plan. It helps improve the modification plan and can tell developers its strengths and weaknesses, contributing to the realization of L3 Autonomous Driving technology.