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Automated Traffic Light System

What is ATLS?



Supporting Evidence

Historic Timeline Existing Systems and Technologies Future of Transportation Preparation



Historic Timeline



Existing Systems and Technologies



Future of Transportation Preparation





Five Scenarios

One car waiting at red light Road congestion on one lane going one way Left turn lane congested with no other flowing traffic Left turn lane left unchanged if nobody is in the left turn lane Emergency first responders designated routes from their station to location of emergency























ATLS Implementation Proposal

- Single Intersection
 - Entry point to integrate web application within existing infrastructure
 - Identifying roadway objects and traffic patterns via camera feeds
 - Measure traffic speed, flow, density, and peak hour factor
- Block Radius
 - Implement autonomous light timings
 - Communicate with multiple intersections
 - Update web application
- District
 - Improve traffic congestion through previous steps
 - Implement system on large scale
 - Prepare web application within other city and organization use
- City
 - Share successes to alleviate traffic congestion
 - Collection of data and implement systems for wider use
 - Prepare regulation procedures for future modes of transportation





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The ATLS Effect

