

# Affinity Diagram

With many areas continuing to grow, traffic lights have become an issue with causing congestion during hours of high volume.

## Add Camera to Stoplights

Detect sunlight to track time of day.

Use Camera to detect traffic

Have camera's detect pedestrian and incorporate pedestrian crossing to stoplights

Set cameras to watch each lane.

Camera monitors traffic all ways to keep flow safe.

## Adapt Timings

Extend times for turning lanes.

Twice a day timers of stop lights change to incorporate rush hour traffic

Adjust stoplight timers to allow pedestrian crossing then let cars pass.

Create program that adjust stoplight timer depending on time of day

## Problems And Possible Solutions

Rain may affect tech, protect camera with glass to keep dry

Water can impair the camera's vision, Install a form of cover to prevent impairment from elements

AI can be dangerous, especially with dealing with cars and peoples lives.

If Camera relies on sunlight, tough to adapt during night time

Detect light reflecting on stoplight as a means to detect cars

Camera detects speeding cars and takes precaution to let traffic through or pedestrians crossing

## Link Stoplights Together

Connect stop lights on the same road to work together to prevent build up on one stop light due to another.

Have stoplights communicate with each other

Stoplights become green together to allow more cars through

## Other Ideas

Incorporate AI to monitor traffic

Extend turn lanes to include more cars. Keeping cars that need to turn away from main traffic lanes help keep flow smooth