



# Improvement of Traffic by Modify of One-way Street Network

(Case Study: Shiraz, The land of “*One Thousand and One Nights*”)

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# Introduction Of My City

Iran is located in the middle east and Shiraz is located in the south of Iran.  
Shiraz is the third Metropolis of Iran and the capital of Fars Province.

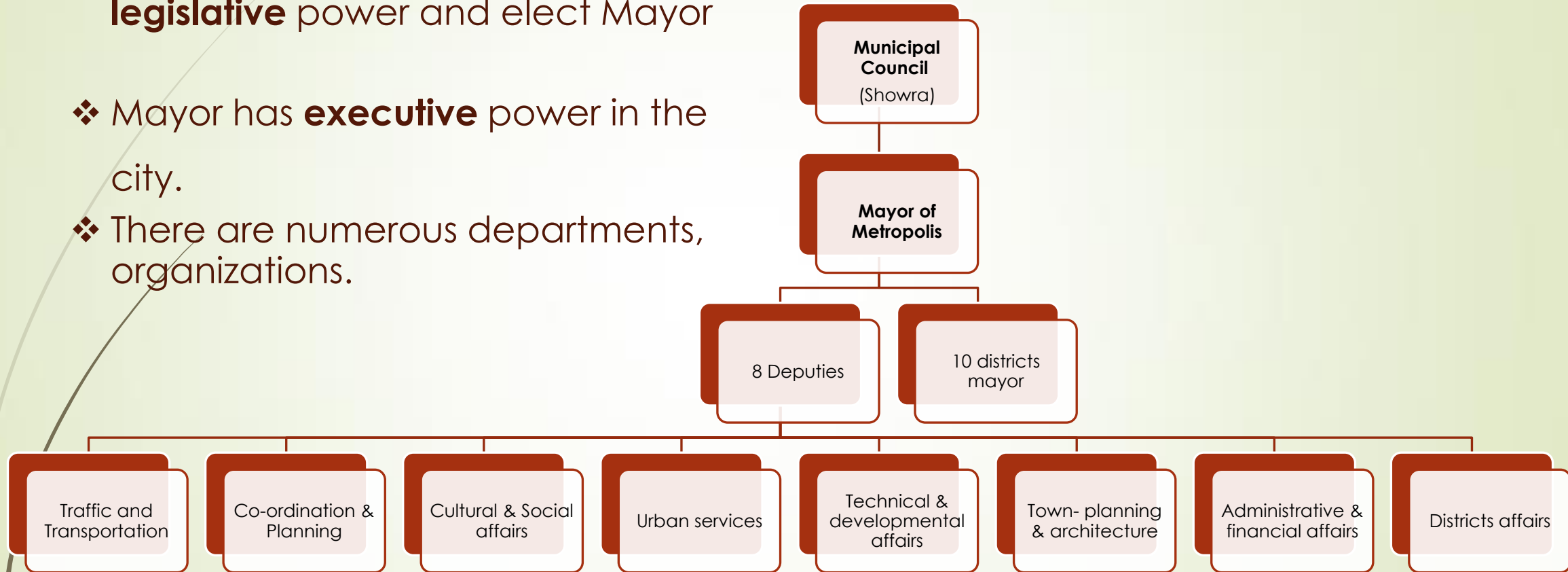


<b>Population</b>	1,460,665
<b>Area</b>	240 km <sup>2</sup>
<b>Transport</b>	Bus, Airport, Rail, Metro, Taxi



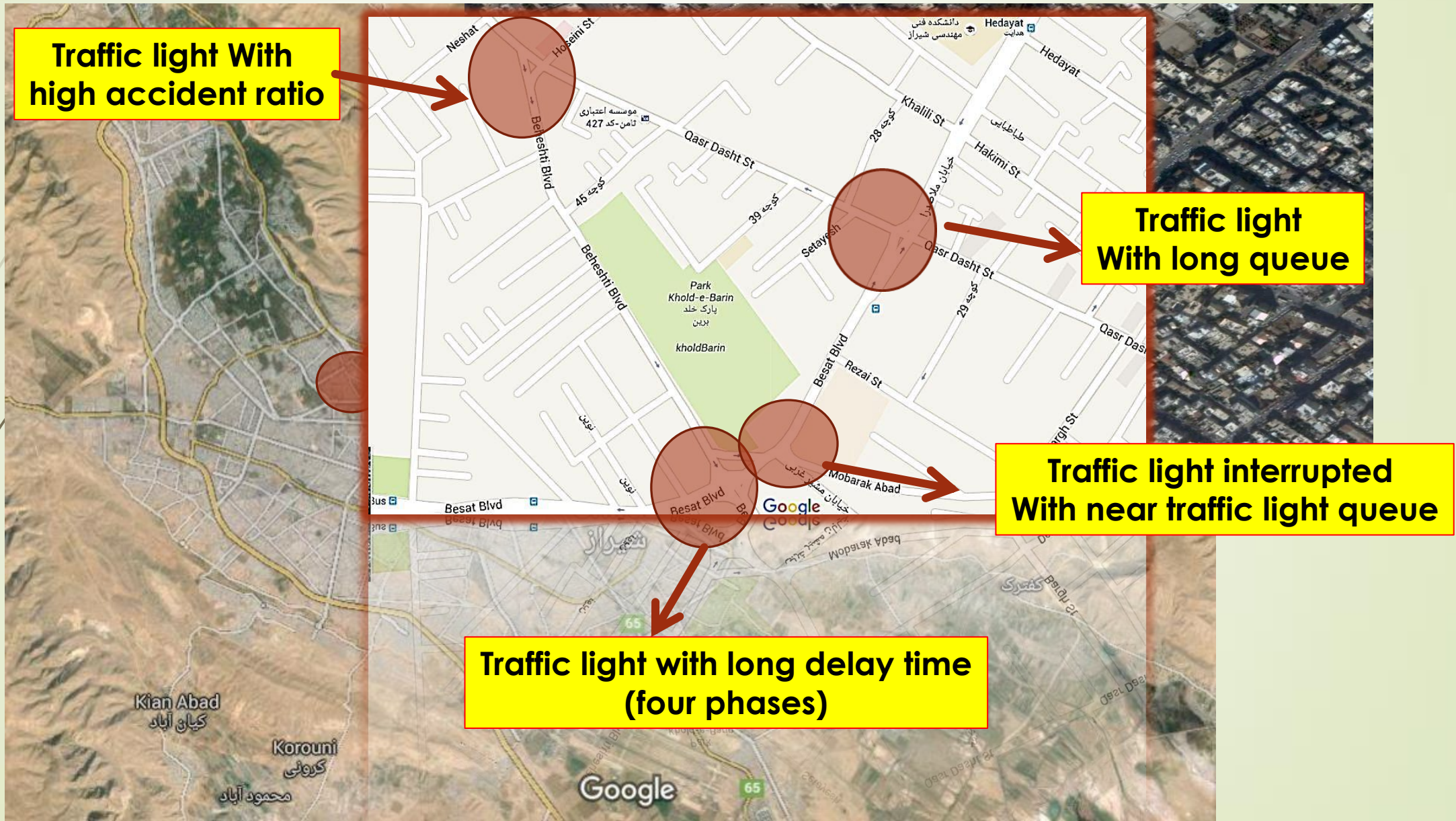
# Introduction of my Organization

- ❖ Municipal Council has **municipal legislative** power and elect Mayor
- ❖ Mayor has **executive** power in the city.
- ❖ There are numerous departments, organizations.





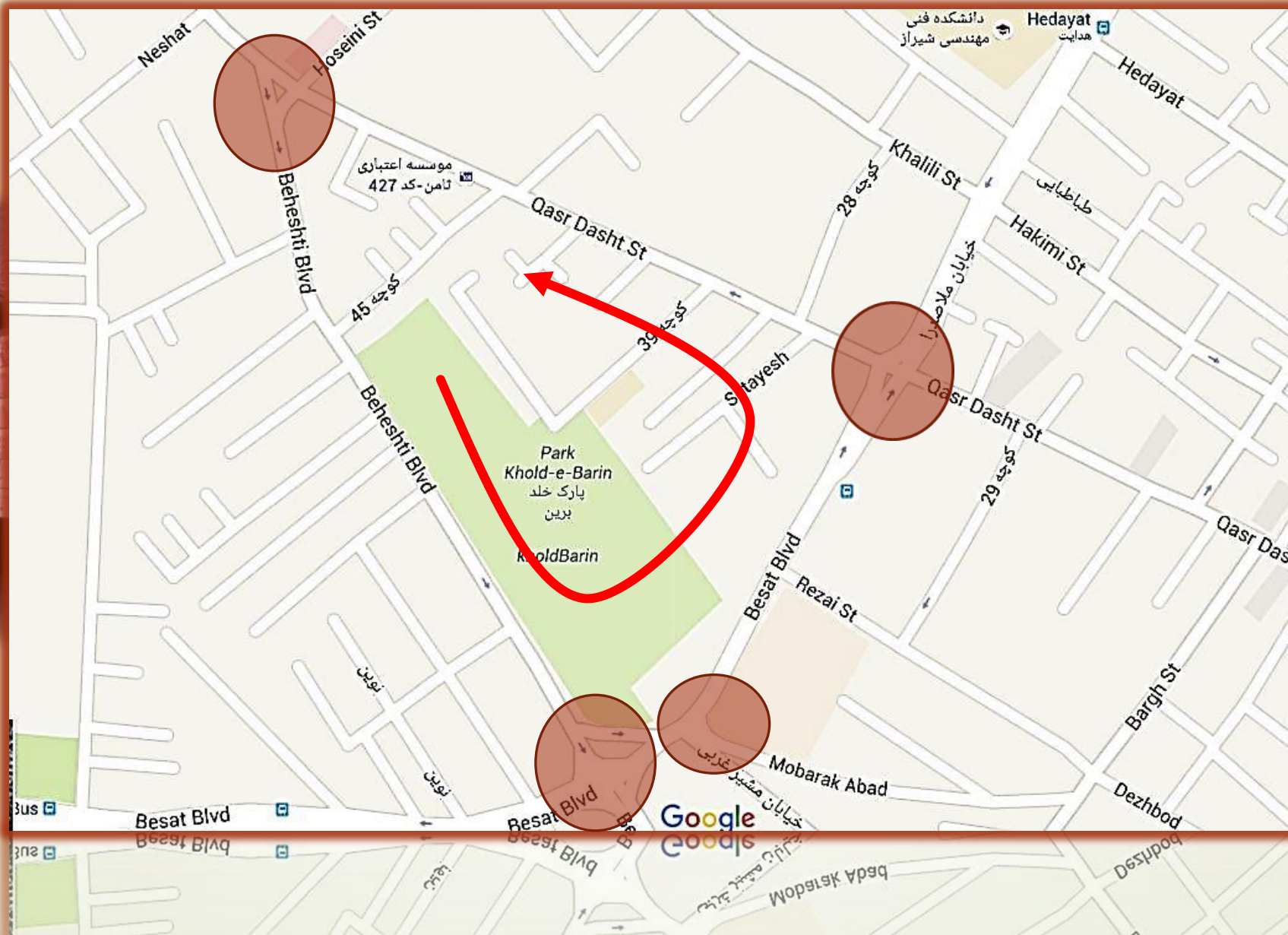
# Problem Identification





# One Way Traffic as Solution To Traffic & Transportation Issues

Traffic Data  
collecting  
By Camera



Find Best  
Scenario

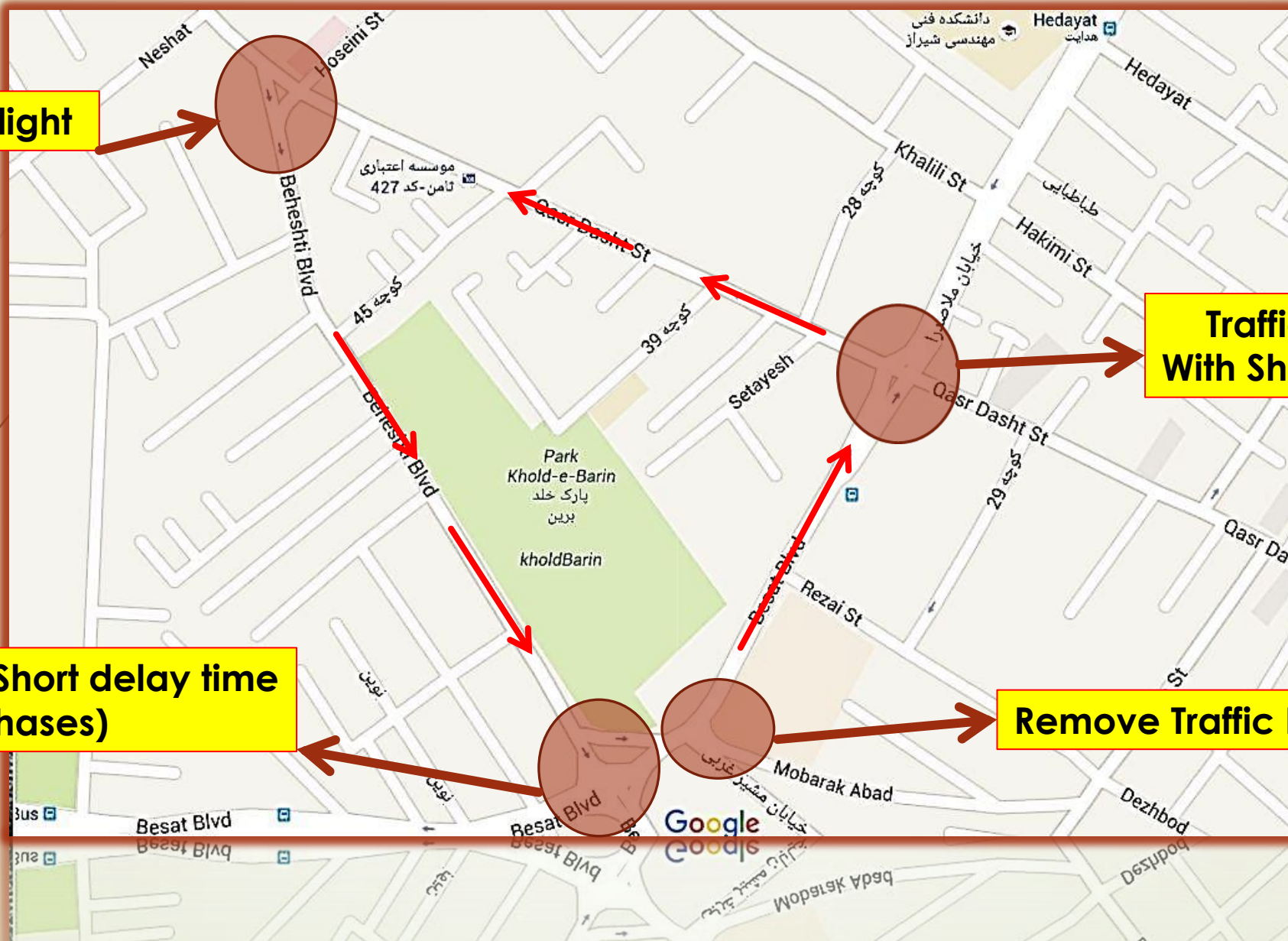
# Achievements

**Remove Traffic light**

**Traffic light  
With Short Cycle**

**Traffic light with Short delay time  
(two phases)**

**Remove Traffic Light**



# Benefits in the system

- Increase Travel Speed, travel time although travel distance increases sometimes
- Additional road space that has been created by the uni flow can be used for public transport, pedestrian facilities, non-motorists and parking, landscaping.
- Bus Priority lanes on one way roads reduce travel time of road passengers.
- Less or no conflict movements at junctions, no intersection control traffic signals are required (Remove two traffic Light)
- Reduce Air pollution by reducing delay of traffic light
- Improvement of traffic in street network by lowest price



## Issues faced and measures taken

issue	measure
Walking distance of the public transport users increased	Proper arrangement of bus routes, stops Improve the walkability on streets
Fragmentation of bus services,	Proper arrangement of bus routes, stops
Poor awareness of the uses regarding systems and where to turn to go destination	Provide information signs where necessary
Increasing of traffic floor on some residential roads	Traffic calming measures and regulatory signs
Difficulty of cross the roads with speed increases	Provide Traffic signalized pedestrian facilities
Change of two way road infrastructures to one way	Commence the system with minimum alterations and develop full infrastructure at the rehabilitation



# Present Status & issues to be addressed

- 35km road length (9% of city roads) has already been arranged as one way roads.
- there is no proper 'before and after' study
- no proper cost benefit analysis
- no proper survey on public perception,
- no proper consultation with other stakeholders
- .

# Recommendations

- Uniflow traffic systems is a good measure for the traffic & transportation issue in areas where roads are in close proximity to each other, where making roads one-way will decrease both distance travelled and time taken for travel

**THANK YOU FOR YOUR ATTENTION**



**Persepolis (Takht-e Jamshid)**



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