

## Optimizing Signalized Intersections under Presence of Automated and Conventional Vehicles

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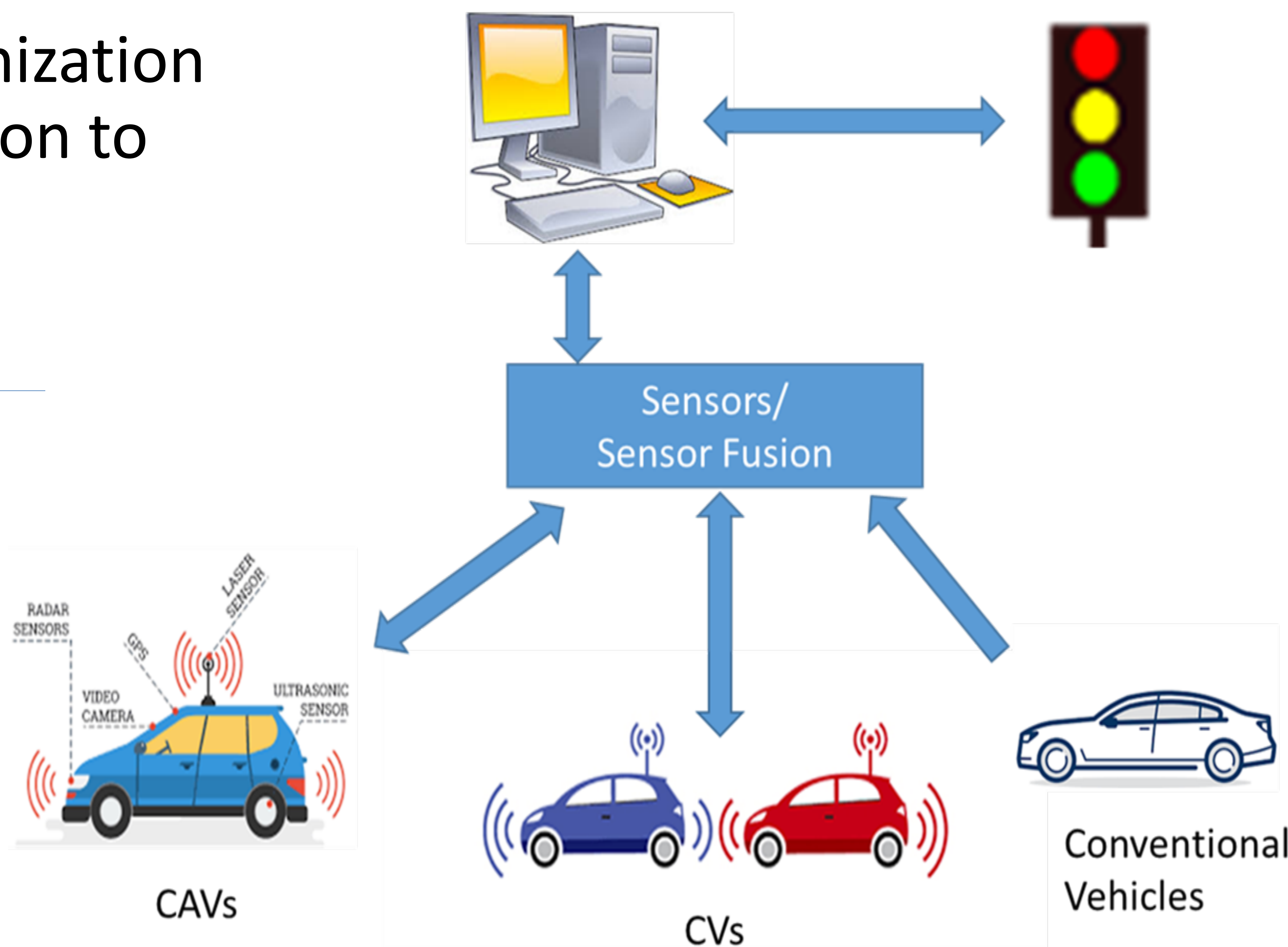
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### Challenge:

- Joint signal control optimization and trajectory optimization to maximize efficiency

### Solution:

- Development of feasible real-world optimization
- Sensor fusion for accommodating conventional vehicles



### Scientific Impact:

- Autonomous vehicles, optimization, sensors, data analytics

### Broader Impact:

- Traffic efficiency by as much as 50%
- Development of I-STREET livable lab
- Interdisciplinary research and education

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