



# REAL-TIME TRAFFIC SIGN RECOGNITION SYSTEM

Concept design and demonstration

# MOVITATIONS



# MAIN PROBLEMS



Ambient Lighting

Seasonal problems

Occlusions

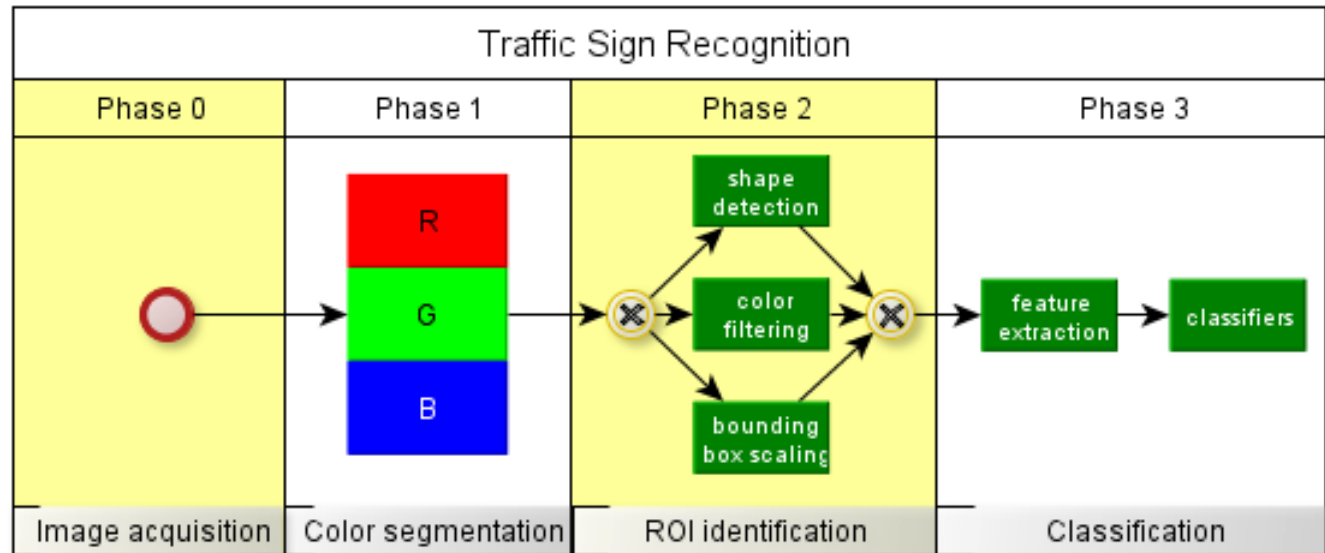
Rotations

Ageing, vandalism

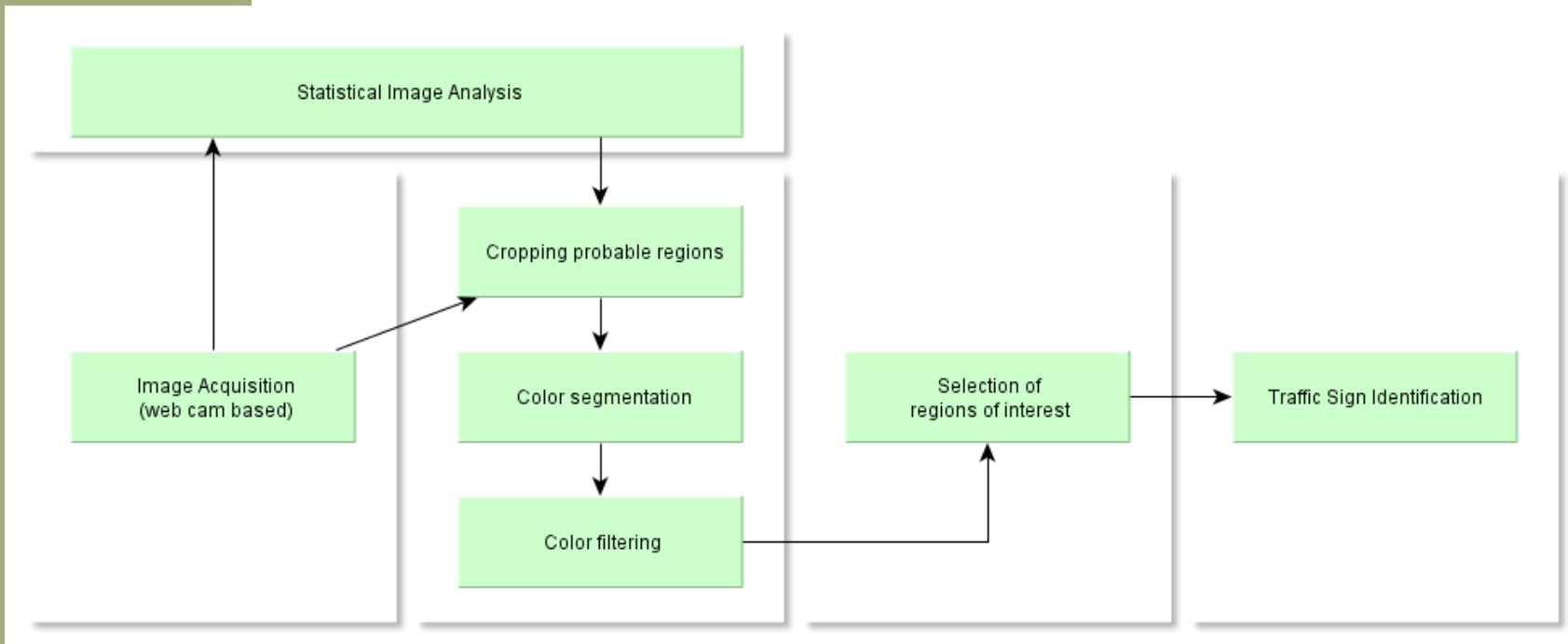
Car speed

Non-uniform signs

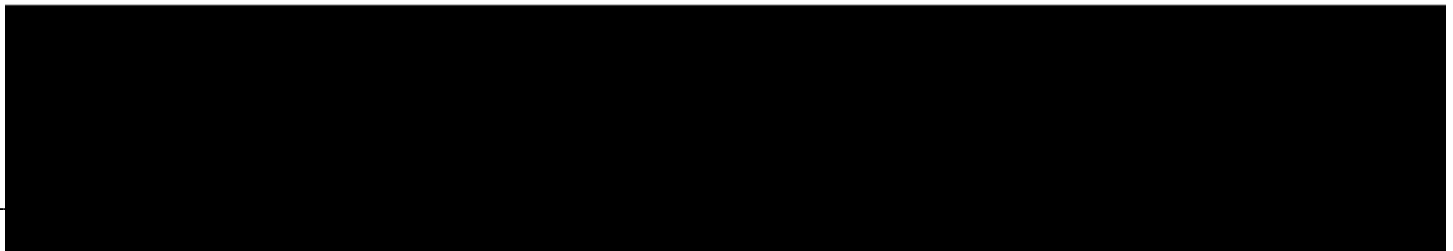
# ARCHITECTURE



# IMPLEMENTATION



# DEMONSTRATION



# CONCLUSIONS

## Tested on...

- Multi-national environment
- Different cameras
- 388x260, 800x600, 1600x1200 25 fps resolution
- Urban and country-side
- 10+ hours video input
- 4 seasons
- Multiple cars

## Evaluation

- Validation set: 78.4% TPR / 12.6 FPR
- New driving: 68.1% TPR / 16.0% FPR



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