



# Vehicle Classification, License Plate Detection & Traffic Violations Detection using a Moving Vehicle Platform

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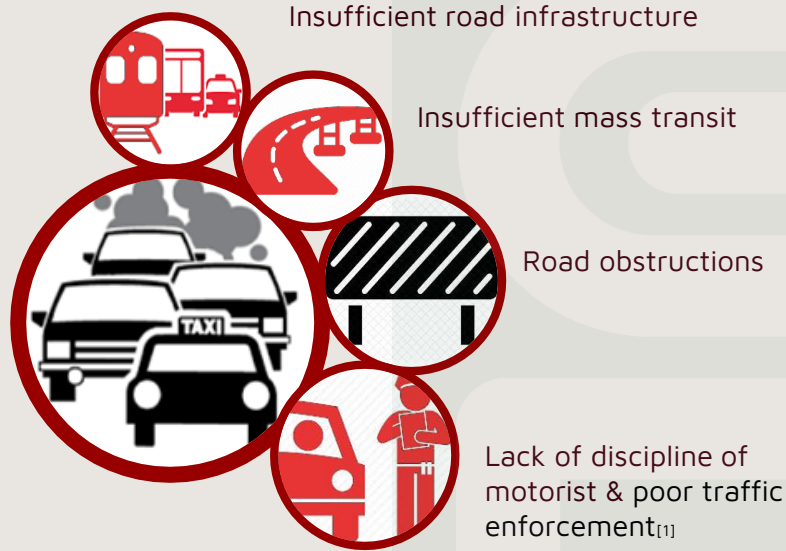
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# RATIONALE

## Road Management and Traffic Enforcement Systems

In 2018, a total of **25,469** illegal-parking incidents were caught via CCTV<sup>[2]</sup>

More convenient and efficient enforcement of illegal parking



Sources:

[1] S. N. Domingo, R. M. Briones, and D. Gundaya, "Diagnostic Report on the Bus Transport Sector," 2015.

[2] <https://newsinfo.inquirer.net/1064847/mmda-recorded-more-than-25000-illegal-parking-violators>

# PROBLEM

Limited coverage of the systems  
implemented in **static cameras**



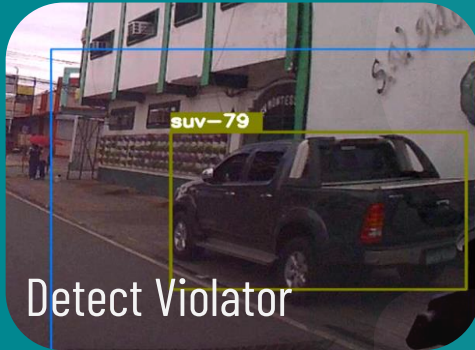
High occurrence of traffic violations can  
be accounted to insufficient traffic  
enforcement<sup>[3]</sup>





# SOLUTION

AI



A	B	C	D
id	vehicle type	plate detected?	vid timestamp
18	tricycle	yes	0:00:07
28	motorcycle	yes	0:00:07
37	Vehicle Information		
46			
57	tricycle	no	0:00:14
60	sedan	yes	0:00:18
79	suv	yes	0:00:27

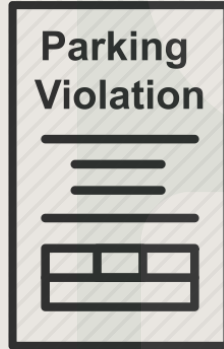
# Eliminates manual labor from human operators



Evidence

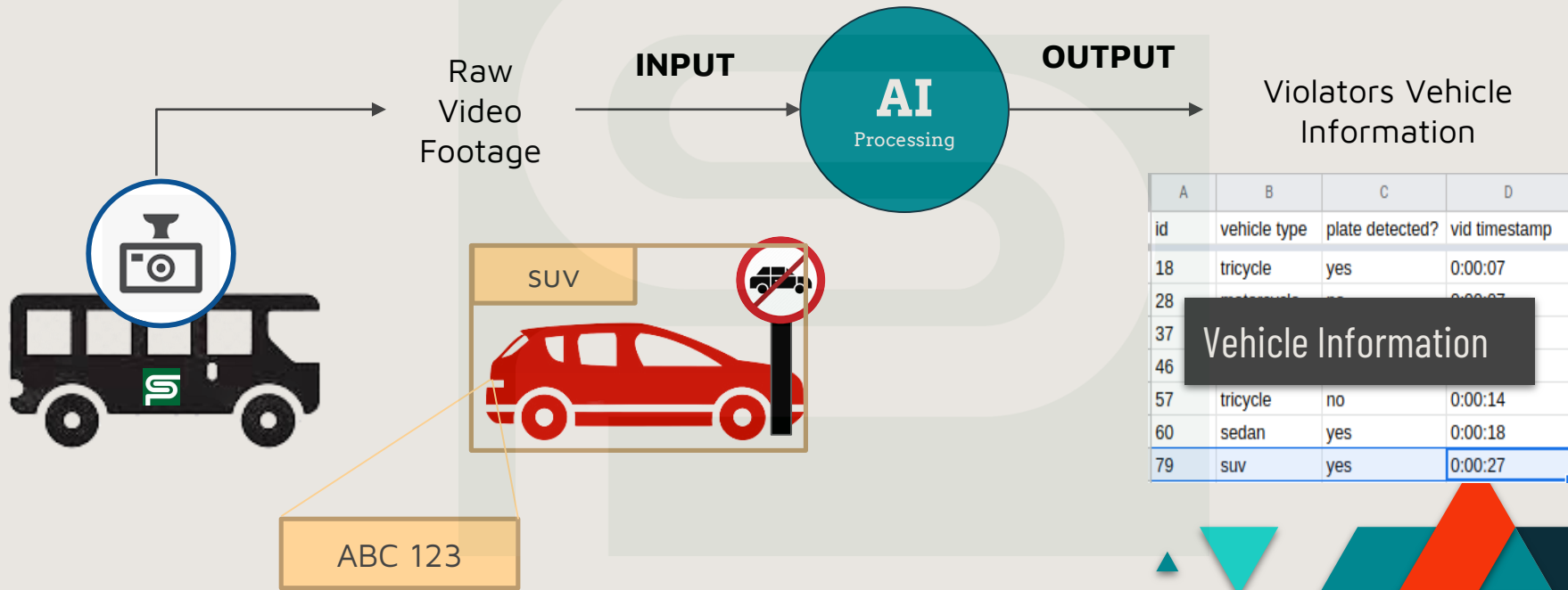


License Plate: ABC 123



Promotes traffic discipline on larger area

# SYSTEM SETUP

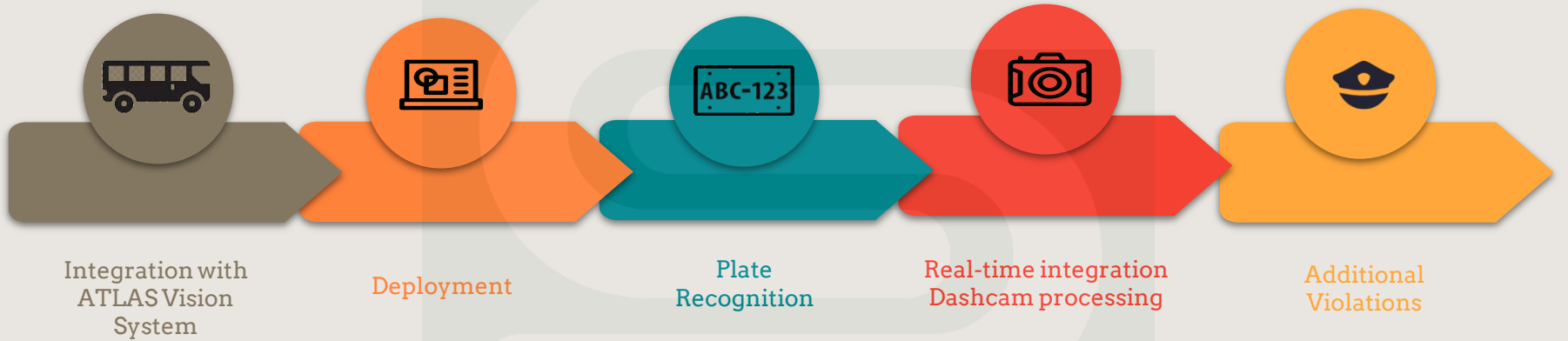




# RESULTS

id	vehicle type	plate detected	vid timestamp
241	motorcycle	no	0:00:05
252	motorcycle	no	0:00:06
246	sedan	yes	0:00:06
266	motorcycle	no	0:00:11
269	motorcycle	yes	0:00:11
273	sedan	yes	0:00:11
286	motorcycle	no	0:00:12
288	sedan	no	0:00:12
309	tricycle	no	0:00:17
313	truck	no	0:00:17
312	jeep	yes	0:00:18
352	suv	no	0:00:28
347	suv	yes	0:00:29
387	jeep	yes	0:00:45
393	jeep	no	0:00:48
394	tricycle	no	0:00:48
395	van	yes	0:00:53
403	suv	no	0:00:55

# ROADMAP





# BE OUR PARTNER

- Cooperation with public transport units to collect traffic videos
- Support on implementation of traffic violation detection

## CONTACT



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# TEAM



The background features a large, light gray, stylized letter 'P' in the center. Surrounding the 'P' are clusters of colorful geometric shapes, primarily triangles and hexagons, in shades of orange, teal, and dark blue. These shapes are arranged in a way that suggests a 3D or isometric perspective, with some shapes appearing to overlap others. The overall composition is clean and modern.

**THANKS!**