



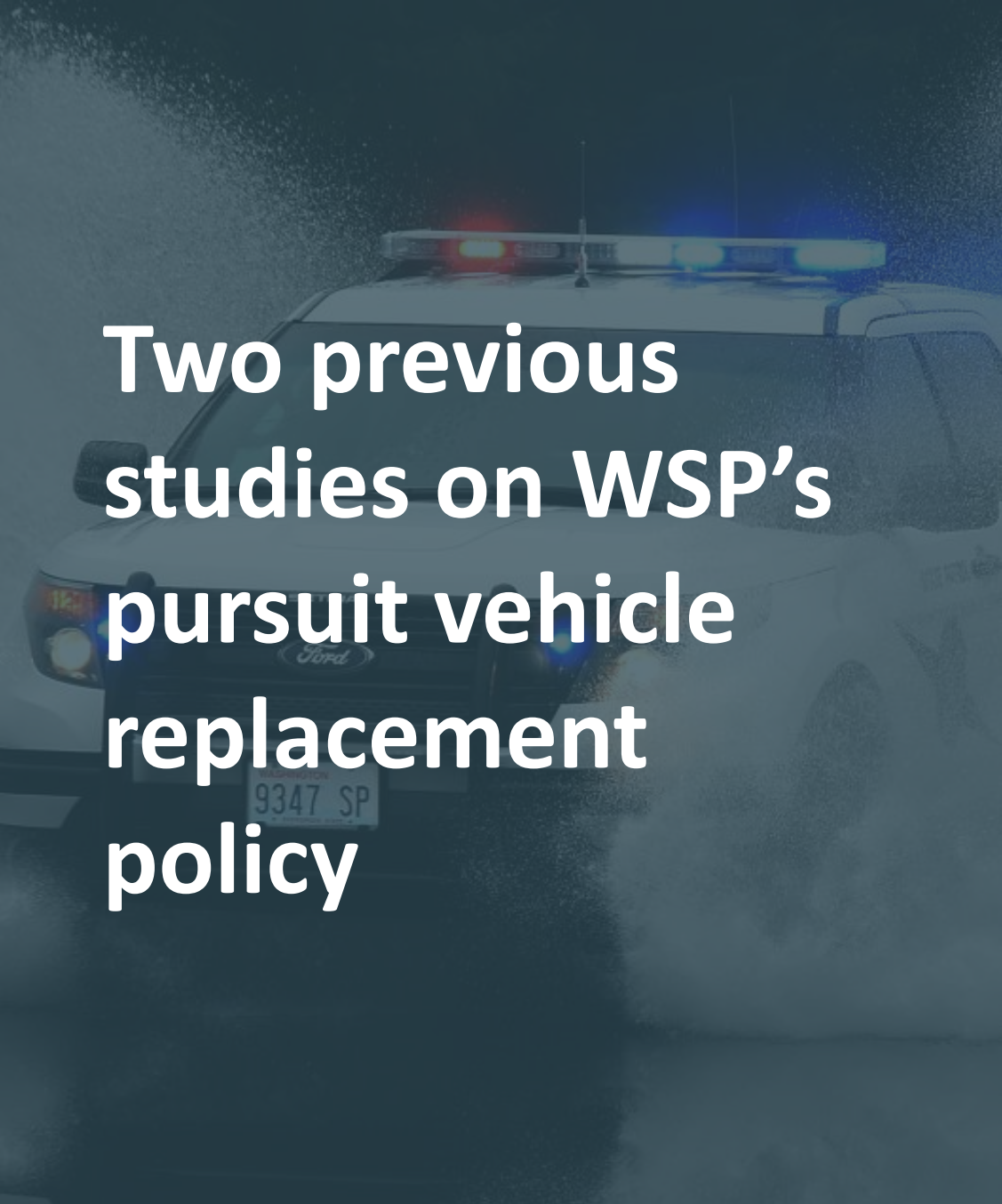
Proposed Study Questions

Washington State Patrol Vehicle Replacement

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September 2019

2019-21 transportation budget:
JLARC to update its 1999 study of
the Washington State Patrol's
pursuit vehicle life cycle cost model



Two previous studies on WSP's pursuit vehicle replacement policy

1

1999 JLARC study developed a life cycle cost model to determine the total cost of ownership and the optimal replacement mileage.

2

2004 WSP study resulted in a new life cycle cost model in order to extend the analysis beyond 110,000 miles.

The model determines the total cost of ownership at different mileage intervals

The model considers seven cost variables

Capital Costs	Operating Costs
<ul style="list-style-type: none">• Purchase costs• Equipping costs• Decommissioning costs• Trade-in value	<ul style="list-style-type: none">• Repairs• Service intervals (per warranty)• Fuel and oil

Total costs are evaluated across 10 mileage intervals from 50,000 miles to 150,000 miles

Study Questions

1

What are WSP's current vehicle replacement practices?

2

What is WSP's pursuit vehicle life cycle cost model? How does WSP use the model to inform its decisions?

3

Does WSP's life cycle cost model accurately identify the optimal vehicle replace mileage for its current and future fleet?

4

How has WSP implemented recommendations from two prior studies of its vehicle life cycle cost model?



Next Steps

Preliminary Report | July 2020

Proposed Final Report | September 2020

Proposed Study Questions

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