



STAFF REPORT
Board Meeting of June 22, 2022

AGENDA ITEM: 5-F

PREPARED BY: Nicholas Dybas, Associate Regional Planner

SUBJECT:

I-5 Freight Zero Emissions Route Operations (ZERO) Pilot Study

Enclosure: No

Action: Information and Discussion Only

SUMMARY:

The I-5 Freight ZERO Pilot Study outlines current and future conditions, issues and challenges, and exploratory analyses of solutions to freight operation problems in the San Joaquin Valley. The stated objective is to “prepare a feasibility study of zero emission technologies for potential implementation along the I-5 corridor in the Valley.” The Scope of the study was as follows:

1. Assess the freight patterns along the corridor;
2. Synthesize different technologies such as zero emission vehicles, autonomous and connected vehicles, and truck cargo utilization;
3. Develop a pilot study concept for large-scale implementation of such technologies;
4. Conduct a small-scale data collection pilot with available zero emission vehicle technologies;
5. Use empirical data to quantify the benefits and costs of the technologies;
6. Provide insights for the development of a plan that considers the implementation of the pilot study concept

The study identifies six primary problems in goods movement in the region: Safety and Collisions, Congestion, Environmental and Air Quality, Pavement Deterioration, Illegal Parking, and Low Rail Usage.

The study was commissioned by the San Joaquin Valley Regional Planning Agencies and prepared by the UC Davis Institute of Transportation Studies (ITS).

[Final Report I-5 Freight Zero Emissions Route Operations \(ZERO\) Pilot Study](#)

FISCAL IMPACT:

No fiscal impact to the approved 2021-22 Overall Work Program and Budget.