

Traffic Analysis Using Big Data Tools

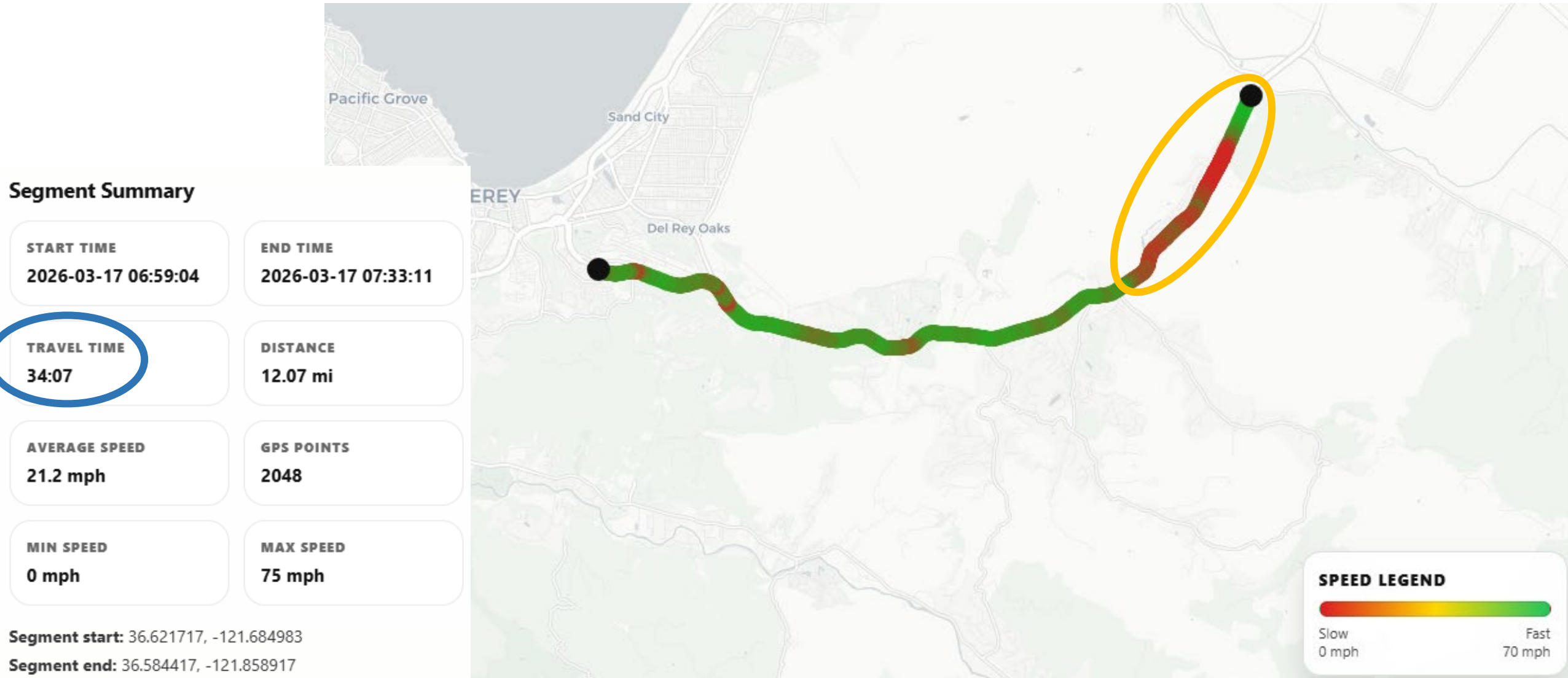
TAMC TAC Meeting

May 7, 2026

PM Peak Traditional Travel Time Runs Using GPS Tracking Device



AM Peak Visual Analysis Confirms Field Observations



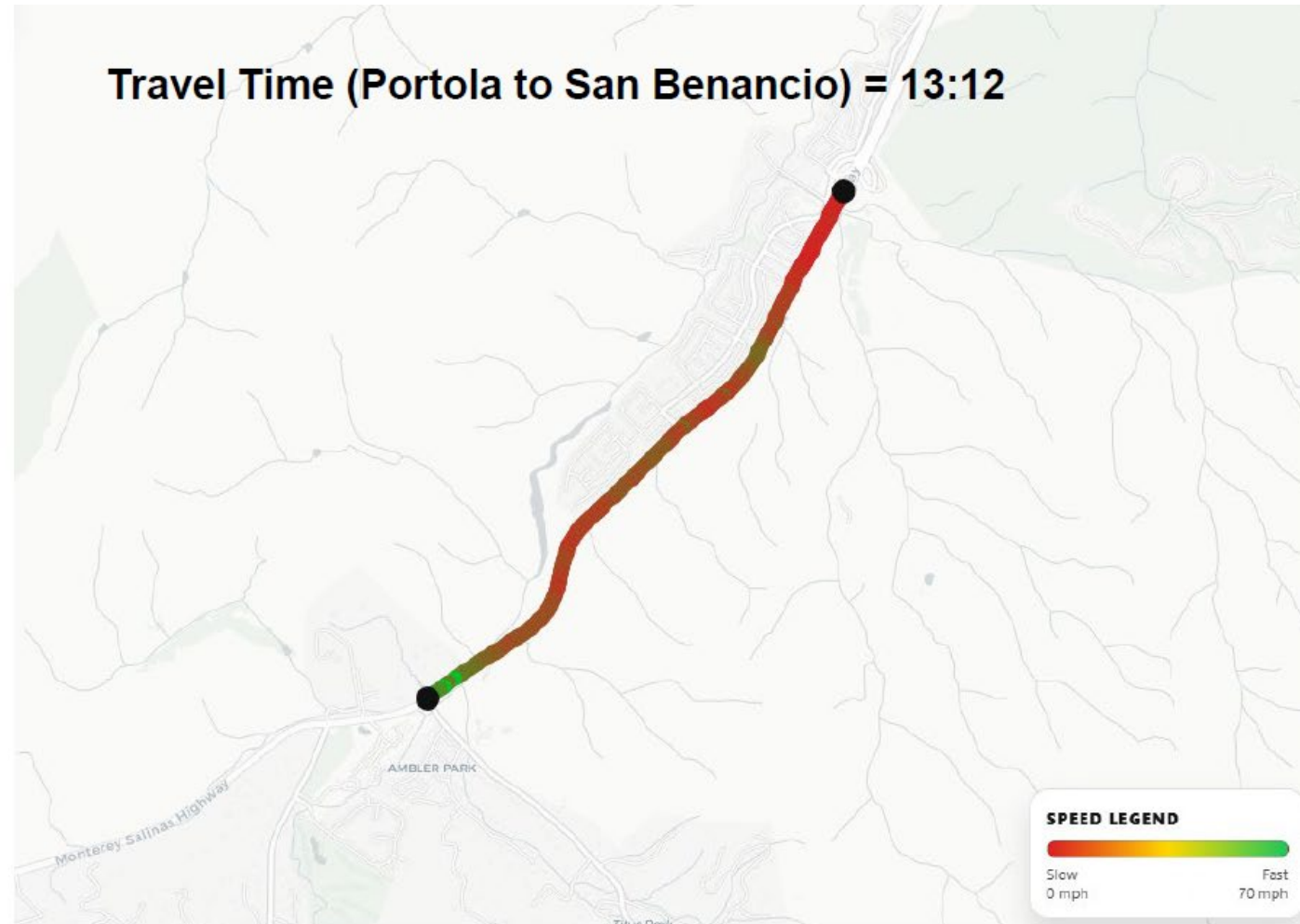
Portola Interchange to San Benancio Road

13' Travel Time - 2' Free Flow= 11' Moving Queue

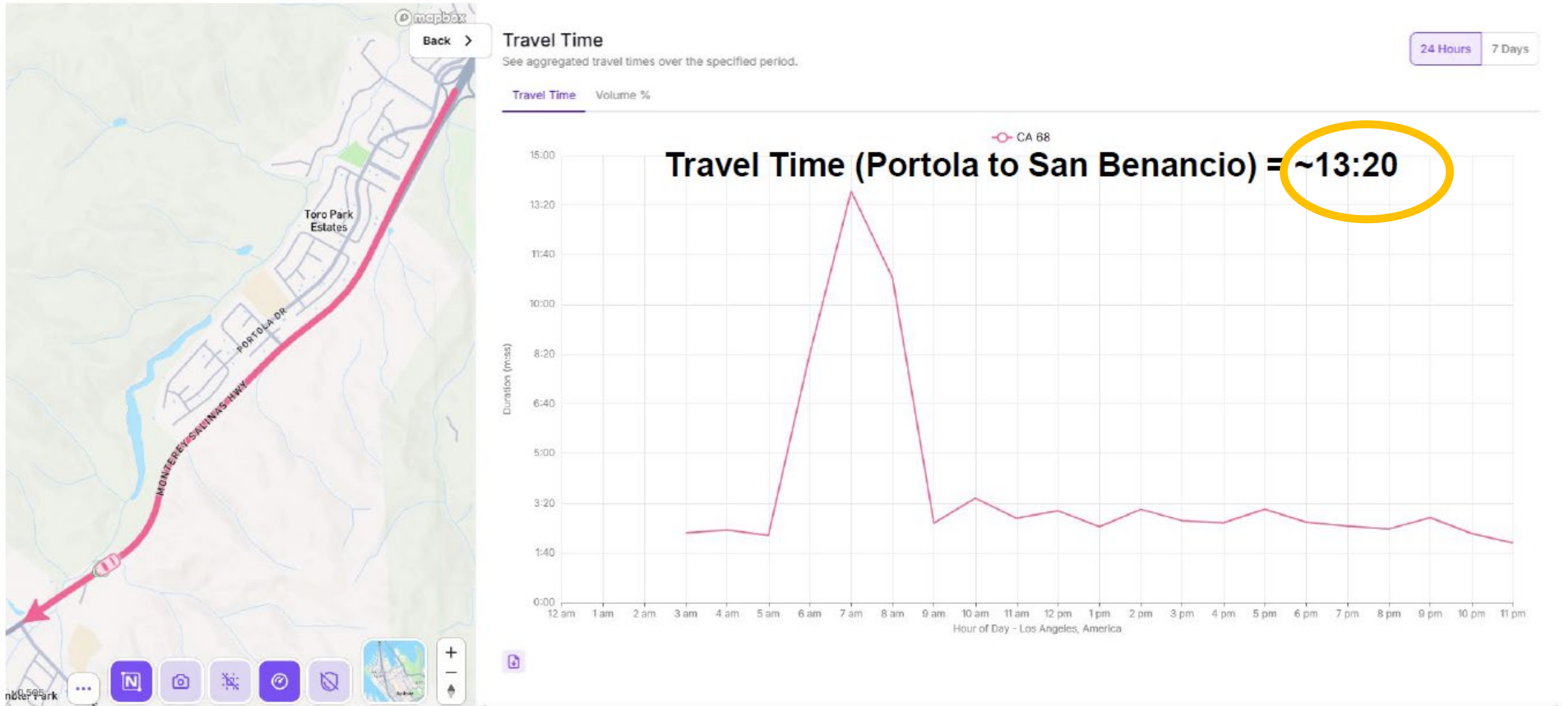
Segment Summary

START TIME 2026-03-17 07:06:36	END TIME 2026-03-17 07:19:48
TRAVEL TIME 13:12	DISTANCE 2.44 mi
AVERAGE SPEED 11.1 mph	GPS POINTS 793
MIN SPEED 0.1 mph	MAX SPEED 75 mph

Segment start: 36.605867, -121.6941
Segment end: 36.579867, -121.720717



COMPASS: Big Data Validated by Field Data



How Does This Work for SR 68 Analysis?

- AM/PM Peak Travel Time validated COMPASS
- COMPASS allows 24-hour before/after study for AI Signal Project
- Compass data will help validate Simulation Model for RAB Project
- Miovision data also available to provide hourly count data

Moving Queue Assessment

13' Congested Travel Time
- 2' Free Flow Travel Time
11' Moving Queue

