

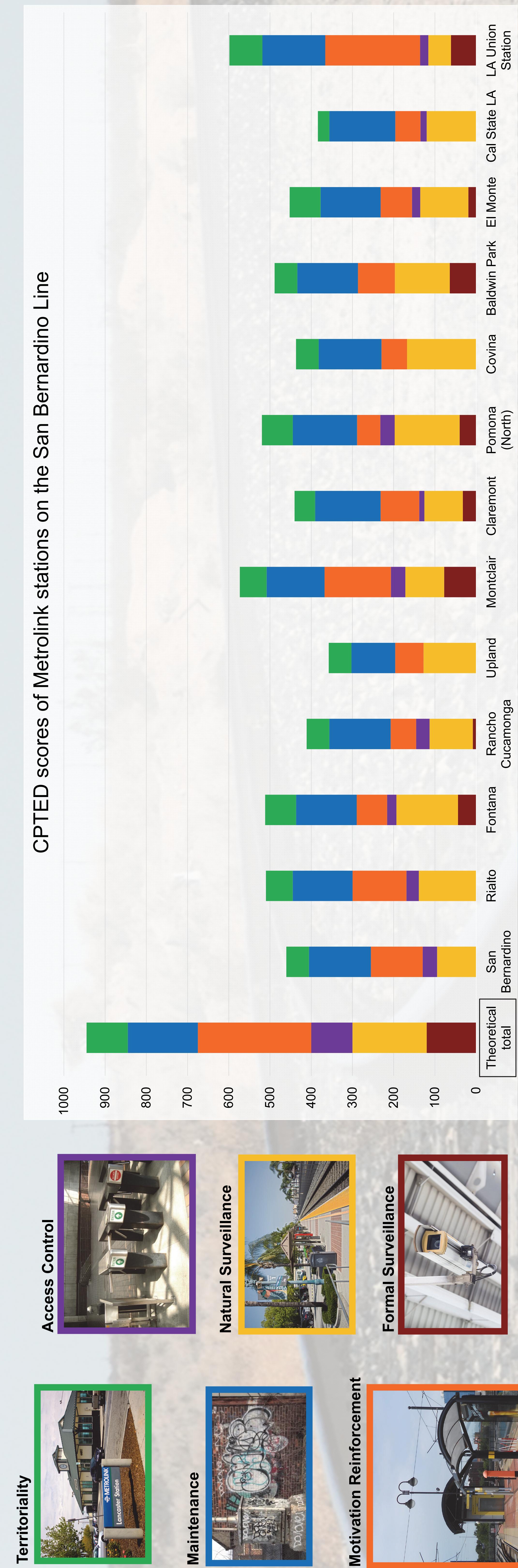
Crime around train stations: Do station design and maintenance matter?

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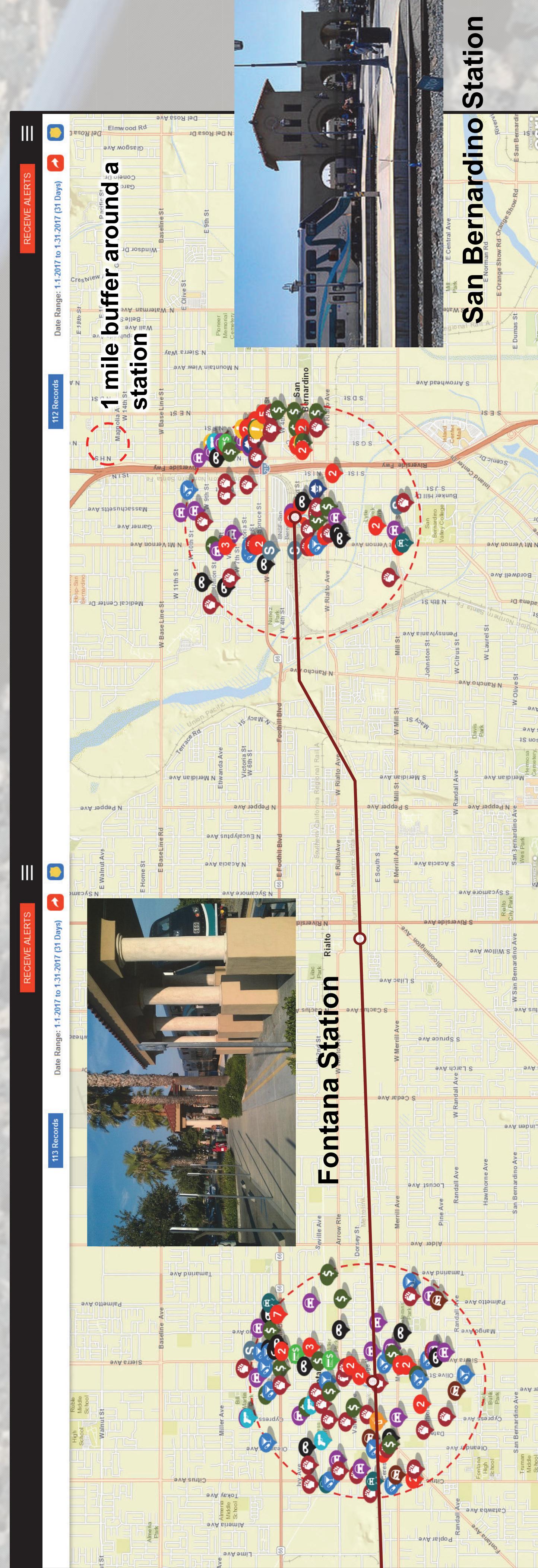
Goal of this project

Using the "Scale to Measure Station Design Quality for Personal Safety" (Rahaman, Curie, and Muir, 2016), this study examines the correlation between station design, maintenance and management, and crime in the vicinity of stations of Southern California's commuter rail system, Metrolink.

Independent Variable: Crime Prevention Through Environmental Design Scale



Dependent Variable: Crime Around Metrolink Stations – Phase 1



SB Line Stations	Number of Crimes
San Bernardino	132
Rialto	121
Fontana	90
Rancho Cucamonga	23
Montclair	0
Claremont	0
Pomona (North)	0
Covina	0
Baldwin Park	0
El Monte	3
Cal State LA	17
1 mile	126
0.5 mile	494

Source: www.crimemapping.com (Oct 2015 – March 2016)

Limitations

- Use of www.crimemapping.com as data source for DV (Phase 1):
 - Missing data
 - 6 months of available data
- Need to control for ridership and area's crime rate

Next Steps

- Obtain police data on the crimes around Metrolink stations (DV → Phase 2) which will:
 - Reduce amount of missing data
 - Increase reliability of DV
 - Increase period of time included in the analysis
- Obtain ridership and area's crime rate data to use as control variables
- Planned analyses → correlations and OLS regression

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