

Partnership US Department of Transit

Analysis of Roadway Safety Under  
Alternative Project Delivery Systems

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# PPP & Safety?

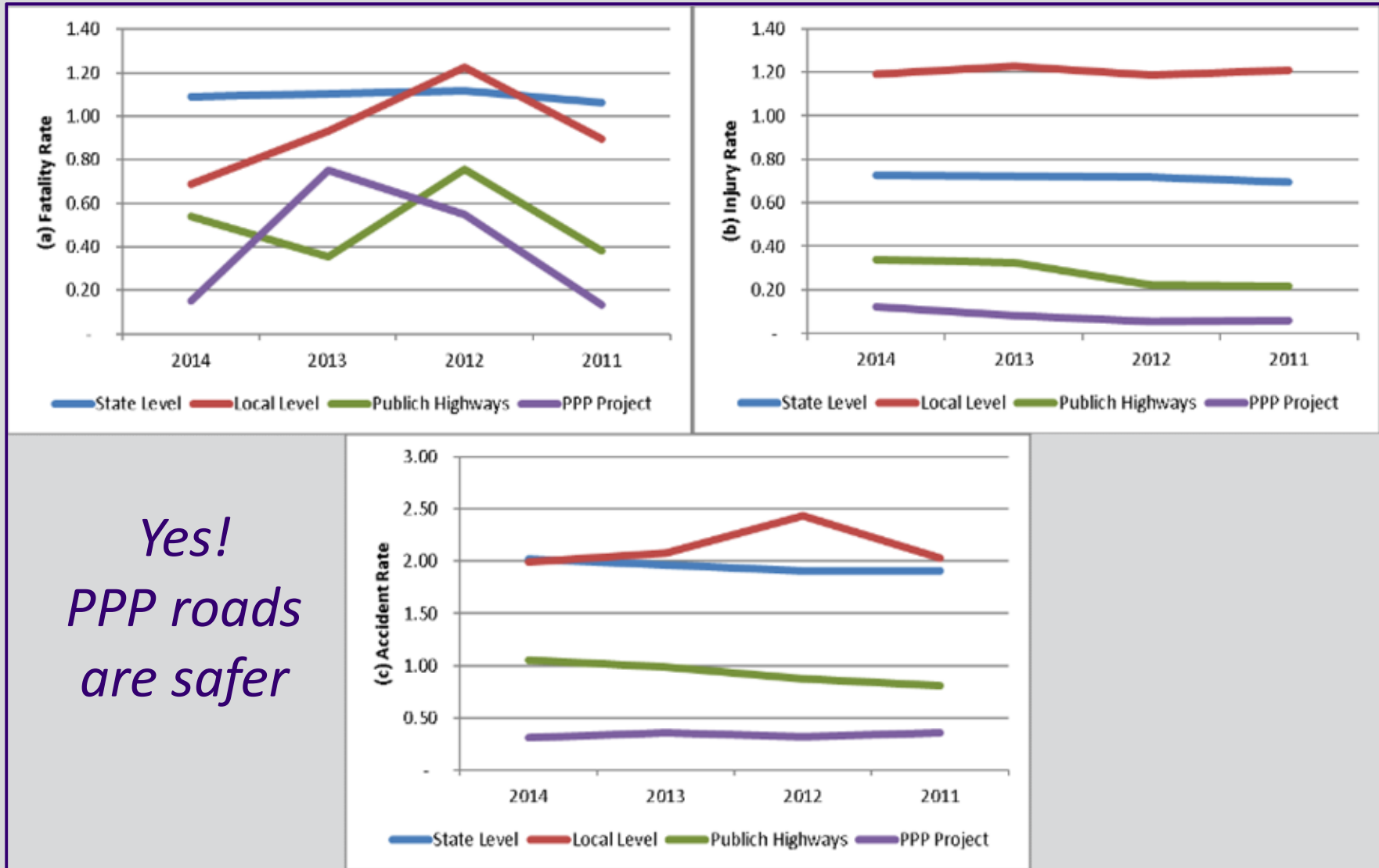
- Unsafe roads
  - Poor design
  - Poor pavement conditions
- What is the relationship between PPP and Safety?
- What contractual terms lead to safer road design and performance?



# Safety Data - Correlations

- Range 2011 -2015
- Statistical Analysis safety rates
  - Fatalities, injuries, crash rates & traffic
  - Highways (11 PPP, 17 non-PPP)
  - Localities/cities (11 PPP)
  - States roads (5 PPP)
- Content Analysis on Contract Language

# Statistical Analysis



*Yes!  
PPP roads  
are safer*

Fatality, Injury, and Accident Rates for the State, Locality, Public Highways, and PPP Projects. Mean performance over 2011 to 2014

# Content Analysis of Contract Language

- Contract Content Analysis (17 PPP in 8 states)
  - Safety as a goal (76%)
  - Safety proposal evaluation criteria (~50%)
  - No safety incentives
- CERC created a guide for linking contractors' compensation to roadway safety outcomes.

Impact: Guideline for PPP contract incentives