

Webinar January 23, 2018



Webinar Hosts





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Outline

- 1. Background: VTA and Local Jurisdictions
- 2. Background: Level of Service and Vehicle Miles Traveled
- 3. What Senate Bill 743 Does
- 4. Implications for VTA and Local Jurisdictions
- 5. Next Steps and Key Take-Aways
- 6. Questions & Answers



1. Background: VTA and Local Jurisdictions



About VTA

- Independent special district, covering 15 cities and the County of Santa Clara ("local jurisdictions")
- Responsible for:
 - Bus, light rail and paratransit operations;
 - Congestion management;
 - Specific highway improvement projects; and
 - Countywide transportation planning
- Involved with transit, freeways, Express Lanes, bikeways and pedestrian facilities
- Also the Congestion Management Agency (CMA) and the transportation sales tax authority for Santa Clara County



VTA's Local Jurisdictions

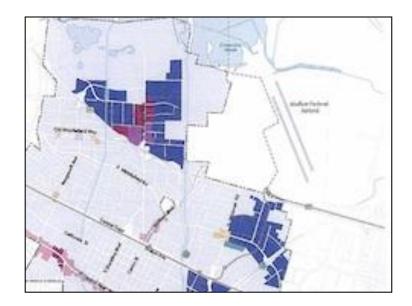


(Source: www.upnest.com)

Roles: Land Use and Development

- Most developments are proposed by private developers
- Local jurisdictions analyze projects, have authority to approve projects and plans
- VTA may review and comment, but does not have decisionmaking authority







Roles: Transportation Projects

- Most transportation projects are led by public agencies
- Both VTA and local jurisdictions have authority to approve transportation projects





VTA's Congestion Management Program Role

- CMA Legislation (1991) requires establishment of a CMP in urbanized counties
- Legislation requires:
 - "a program to analyze the impacts of land use decisions made by local jurisdictions on regional transportation systems"
 - uniform methodology for analyzing Level of Service
- VTA is the CMA and maintains the CMP for Santa Clara County



2. Background: Level of Service and Vehicle Miles Traveled



Background: Level of Service and Vehicle Miles Traveled

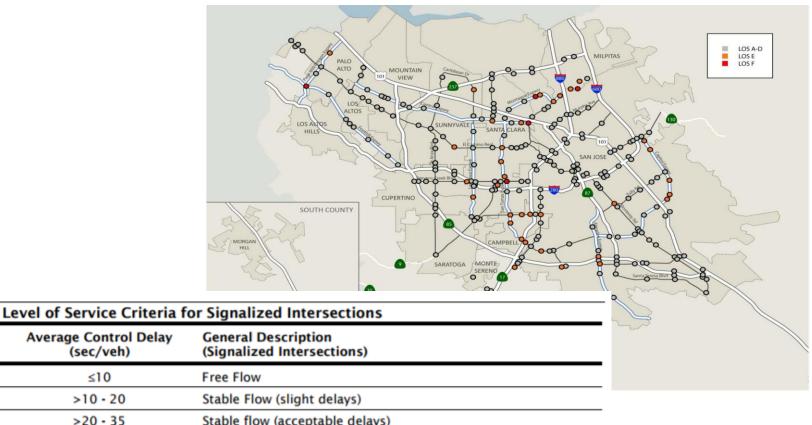
- Vehicular Level of Service (LOS) a way of measuring transportation performance that focuses on delay and congestion; letter scale from A to F
- Vehicle Miles Traveled (VMT) measures amount of vehicular travel across the system, rather than at specific points; usually expressed per person





Level of Service (LOS)

(sec/veh)



50.1100	(500) 1011	(5.9
А	≤10	Free Flow
В	>10 - 20	Stable Flow (slight delays)
С	>20 - 35	Stable flow (acceptable delays)
D	>35 - 55	Approaching unstable flow (tolerable delay, occasionally wait through more than one signal cycle before proceeding)
E	>55 - 80	Unstable flow (intolerable delay)
F	>80	Forced flow (jammed)

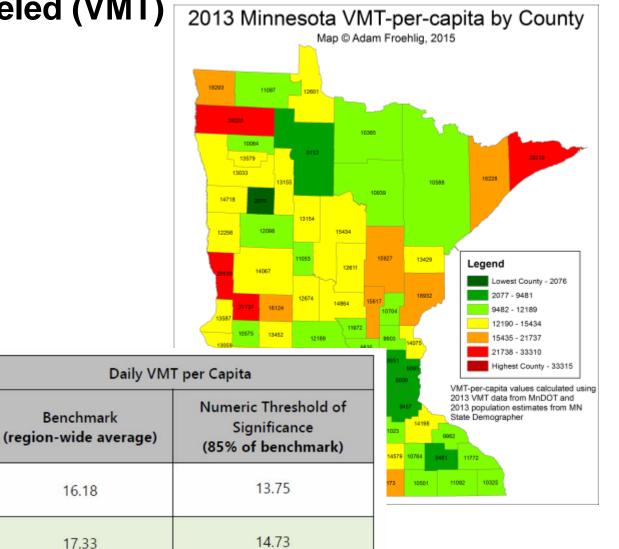


Table 1.

Level of

Service

Vehicle Miles Traveled (VMT)



Source: Fehr & Peers, 2016

Worker

Resident

Traveler and Trip Type

Home-Based-Work Daily VMT per Worker

Home-Based Daily VMT per Capita



LOS and VMT

- For the past few decades, transportation analysis of projects has focused on Level of Service.
- Senate Bill 743 is shifting the emphasis to Vehicle Miles Traveled.





1. Good grade in LOS ≠ Success in Transportation

"...time lost to commuter traffic delays is more than off-set by the greater opportunities to reach destinations over shorter distances to which high development densities gives rise."

Mondschein, Osman, Taylor, Thomas http://www.its.ucla.edu/wp-content/uploads/sites/6/2015/11/Haynes_Congested-Development_1-Oct-2015_final.pdf

Which is better?

45 min commute, including 5 min from congestion

Good LOS Grade

Bad Accessibility

20 min commute, including 10 min from congestion



Bad LOS Grade

Good Accessibility



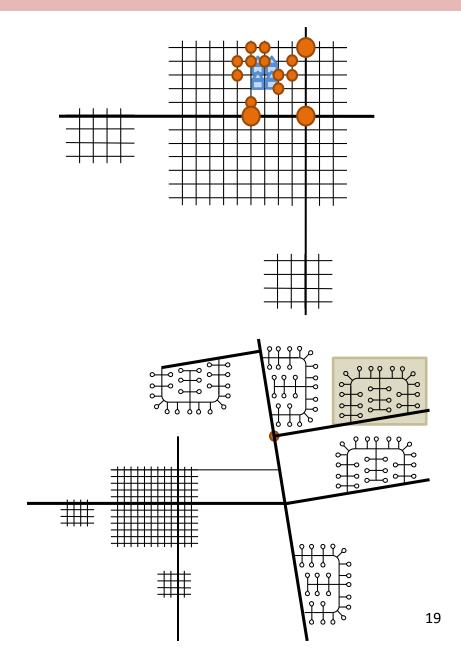
Level of Service A



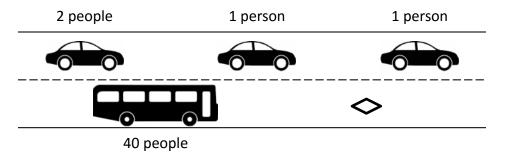
Level of Service F

1. Punishes last-in, inhibits infill, pushes development outward

http://www.opr.ca.gov/docs/ITE_Journal_Article_-Decisions_Values_and_Data.pdf



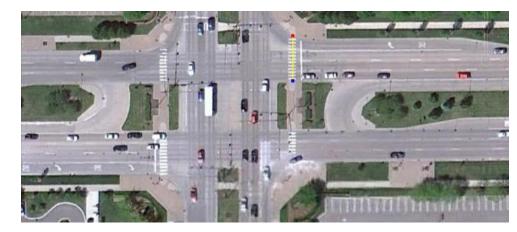
- 1. Punishes last-in, inhibits infill, pushes development outward
- 2. Inhibits transit and active transportation





- 1. Punishes last-in, inhibits infill, pushes development outward
- 2. Inhibits transit and active transportation
- **3.** Forces more road construction than we can afford to maintain

http://lgc.org/wordpress/docs/events/first_thursday_di nners/ftd_2013_Protecting_Transportation-june.pdf



- 1. Punishes last-in, inhibits infill, pushes development outward
- 2. Inhibits transit and active transportation
- 3. Forces more road construction than we can afford to maintain
- 4. Generates an array of environmental impacts

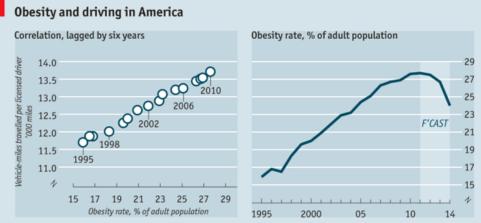
https://ncst.ucdavis.edu/white-paper/cuttinggreenhouse-gas-emissions-is-only-the-beginning-aliterature-review-of-the-co-benefits-of-reducingvehicle-miles-traveled/

Peer-reviewed research on environmental impacts from high VMT projects:

- Emissions
 - GHG
 - Regional pollutants
- Energy use
 - Transportation energy
 - Building energy
- Water
 - Water use
 - Runoff flooding
 - Runoff pollution
- Consumption of open space
 - Sensitive habitat
 - Agricultural land

- 1. Punishes last-in, inhibits infill, pushes development outward
- 2. Inhibits transit and active transportation
- 3. Forces more road construction than we can afford to maintain
- 4. Generates an array of environmental impacts
- 5. Worsens public health and safety

https://ncst.ucdavis.edu/white-paper/cuttinggreenhouse-gas-emissions-is-only-the-beginning-aliterature-review-of-the-co-benefits-of-reducingvehicle-miles-traveled/



Sources: "A note on the relationship between obesity and driving" by Sheldon Jacobson et al, Transport Policy, 2011; Bureau of Transport Statistics; Centres for Disease Control and Prevention; Department of Transport



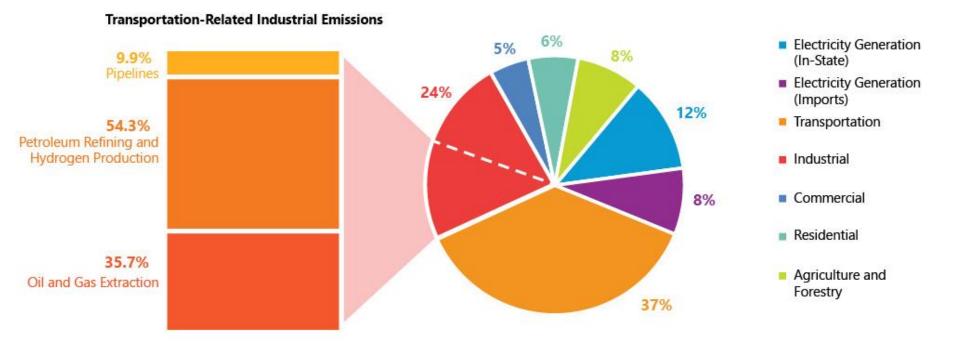
Benefits of VMT as a Measure of Transportation Impact

- 1. Streamline TOD
- 2. Streamline infill
- 3. Streamline transit projects
- 4. Streamline active transportation projects
- 5. Streamline locally-serving retail
- 6. Streamline modeling for remaining projects
- 7. Attack regional congestion more effectively
- 8. Reduce future pavement maintenance deficits
- 9. Massive public health improvements
- 10. Reduction in GHG and other emissions





CA GREENHOUSE GAS INVENTORY 2014 BY SECTOR AND ACTIVITY (2016 EDITION)



http://ca50million.ca.gov/Transportation/transportation.html

3. What Senate Bill 743 Does



Senate Bill 743

- Became state law in September 2013
- Intended to promote:
 - Reduction of Greenhouse Gas emissions
 - Multimodal transportation networks
 - Diversity of land uses
- Mainly affects the California Environmental Quality Act (CEQA), our state's law for env. review of proposed projects
- Effects ripple to other areas



Smarter Development





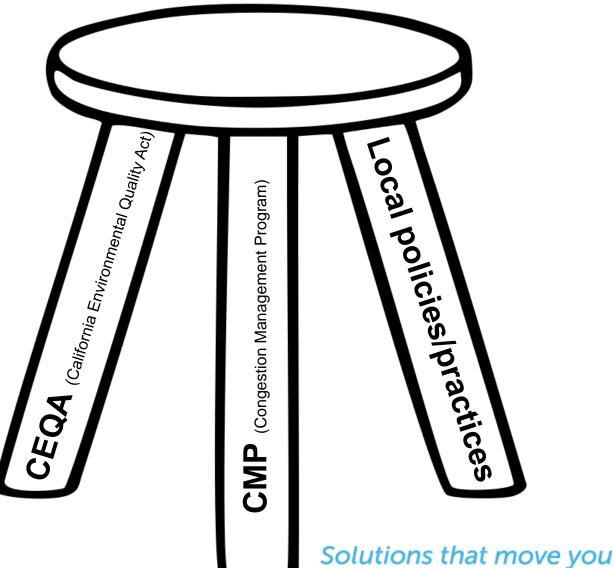


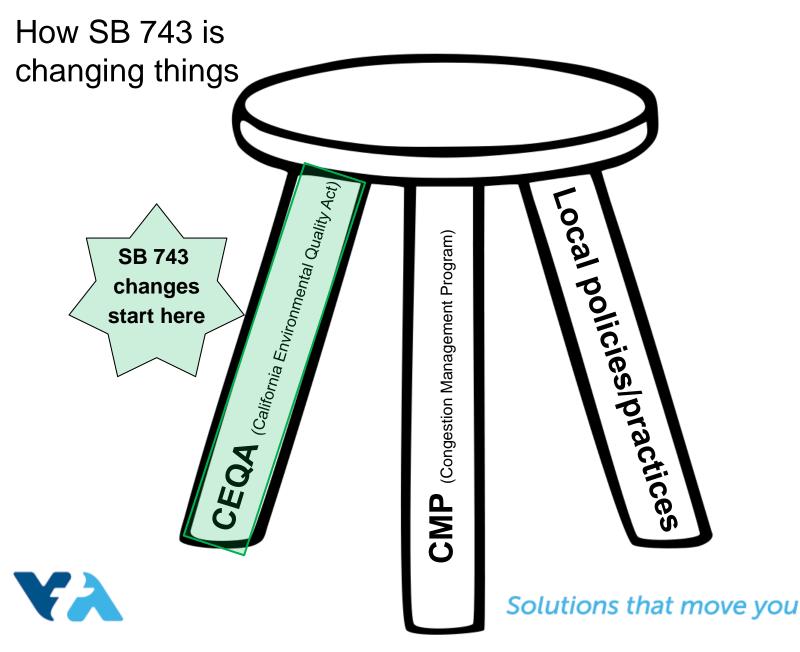
Multimodal Transportation

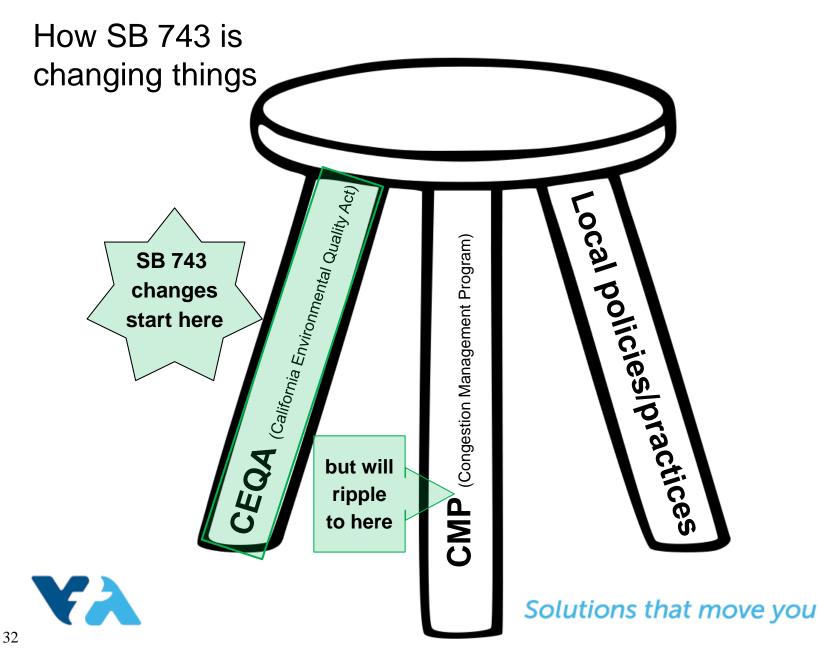


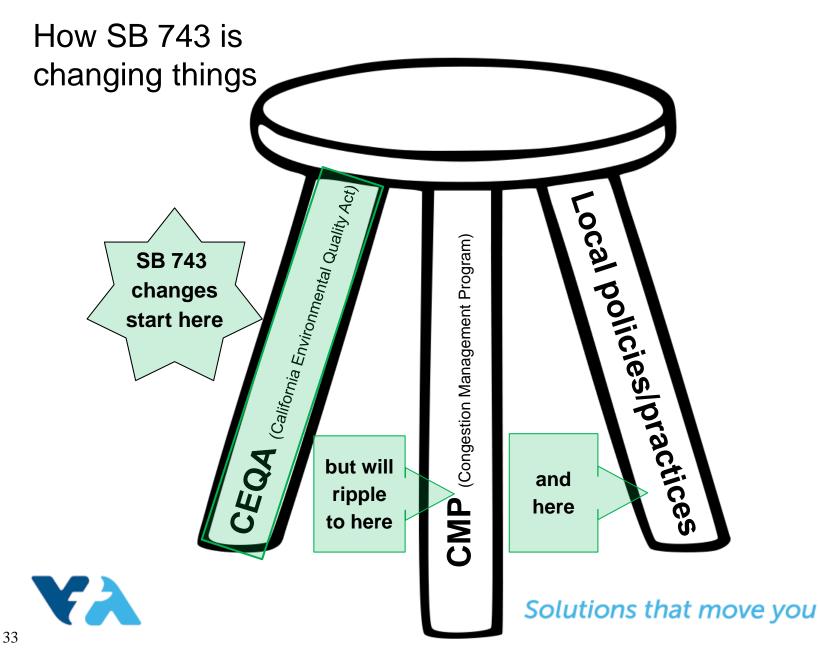


The "three-legged stool"









Senate Bill 743 – CEQA

SB 743 primarily changes CEQA practice

- Directs Governor's Office of Planning and Research (OPR) to establish new CEQA criteria for transportation impacts
- "Automobile delay... shall not be considered a significant impact on the environment" in locations where the new criteria will apply
- OPR has indicated that the new primary metric will be VMT, state-wide



SB 743 – CMP and Local Practice

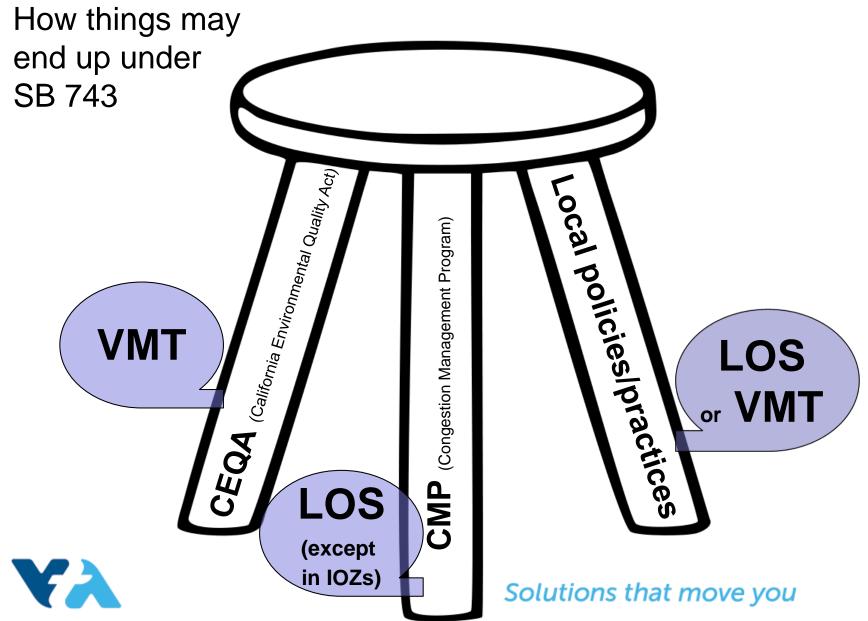
SB 743 and Congestion Management Programs (CMPs):

 Reinstates the ability of cities and counties to designate "Infill Opportunity Zones" (IOZs) where CMP LOS standard would not apply

SB 743 and Local Practice

• SB 743 does not preclude local agencies from applying LOS in policies, codes, conditions of approval, etc.





SB 743 Implementation

- OPR has issued several rounds of draft guidance
- In November 2017 OPR submitted latest draft for formal rule-making (6-8 months)
- OPR calling for phase-in period, with mandatory switch to VMT by January 1, 2020
- Several cities have already switched, others planning to switch soon



4. SB 743 Implications for VTA and Local Jurisdictions



VTA Perspective on SB 743

Key benefits:

- Streamline transit, bicycle, and pedestrian projects
- Promote/streamline TOD
- Help cities/counties align transportation analysis with community values

Some challenges and opportunities – e.g., consistency and transition



VTA Activities to Date on SB 743

2014 – First Half 2017:

- Getting informed and sharing information
- Gathering input from local jurisdictions
- Providing VTA input to OPR/state process

New - starting Fall 2017:

 Fostering discussion about how cities, County and VTA can work together on implementation









VTA Activities – Gathering/Sharing Information

Presentations to VTA Board Committees and Technical Advisory Committee Working Groups

Presentations to other audiences:

• MTC/ABAG, Grand Boulevard Initiative, SPUR SJ, Santa Clara County Planning Officials, CA Transit Association

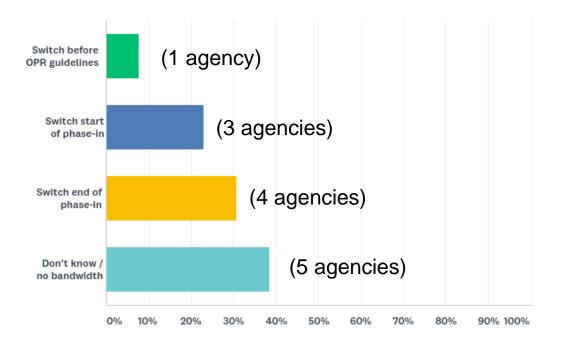
Participation in regional-level working groups; webinars; workshops



Survey in Santa Clara County

- VTA web survey of its 16 local jurisdictions in Sept 2017
- 13 of 16 local jurisdictions, plus Caltrans, responded

Q1 Where is your agency at in regards to SB 743 and the LOS-to-VMT transition? (SELECT ONE)





Suggested Topics based on Web Survey

- Guidelines for VMT
- Shared tools/resources
- Analysis across jurisdictions
- CEQA / CMP relationship
- VMT training, support, funding for implementation
- Example calcs, for recent projects
- Potential other metrics besides VMT and LOS
- Small/rural project analysis



CMP Guidance on LOS Analysis

 VTA has provided an established framework for conducting LOS analysis in a TIA Report



New Guidance for VMT

• VTA is planning to work with its local jurisdictions to develop guidance for VMT analysis





5. Next Steps and Key Take-Aways



VTA's Goals and Objectives for LOS-to-VMT Transition

- <u>Goal</u>: Steer VTA through the LOS-to-VMT transition, and play a leadership role in guiding local jurisdictions
- <u>Objectives</u>:
 - A. Take a leadership role
 - B. Move county in overall progressive and pragmatic direction
 - C. Reform VTA's practices focusing on CMA and CEQA Lead Agency roles
 - D. Provide guidance on thresholds and methodology



VTA Process - End Results

DRAFT – Subject to Change

- Understand context
- Consensus on VMT Modeling Baseline and Thresholds
- Consensus on VMT Sketch Tools Project VMT and Reductions
- Updated VTA CMP guidance:
 - 2019 CMP Document
 - VMT Analysis Guidelines (NEW) specify how to analyze VMT
 - Interim Guidance on TIAs (NEW) specify when/how to include VMT analysis in TIAs
- Updated VTA CEQA Lead Agency Practices



Considerations for Local Jurisdictions

- Who will steer the process?
- How soon to make the change?
- Fully shift to VMT, or retain LOS for some purposes?
- What VMT threshold?
- What city policies/practices will require updates?
- What action/approval will be required?
- Relationship to ongoing/upcoming planning efforts?



Next Steps in Santa Clara County

- Form ad hoc LOS-to-VMT working group
- Identify points of contact at each local jurisdiction (both Transportation/Engineering and Planning)
- Develop work plan and schedule for VTA/countywide efforts
- Bring updates to VTA Board Committees
- Explore key topics in-depth
- Work towards consistent methodology/guidance
- Local jurisdiction changes to policies/practices



Resources

Websites:

- OPR SB 743 site: http://www.opr.ca.gov/ceqa/updates/sb-743/
- VTA Congestion Management Program: http://www.vta.org/cmp
- City of San Jose VMT Transition: http://www.sanjoseca.gov/vmt
- Streetsblog (CAL, SF, LA)

Professional organizations:

- American Planning Association (APA)
- Institute of Transportation Engineers (ITE)
- Association of Environmental Professionals (AEP)

Other organizations:

• SPUR, TransForm, Grand Boulevard Initiative



6. Questions and Answers

During webinar: Use YouTube chat box

After webinar: Email Rob Swierk robert.swierk@vta.org

