

DOCKETED

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Addressing Vehicle Miles Traveled in California

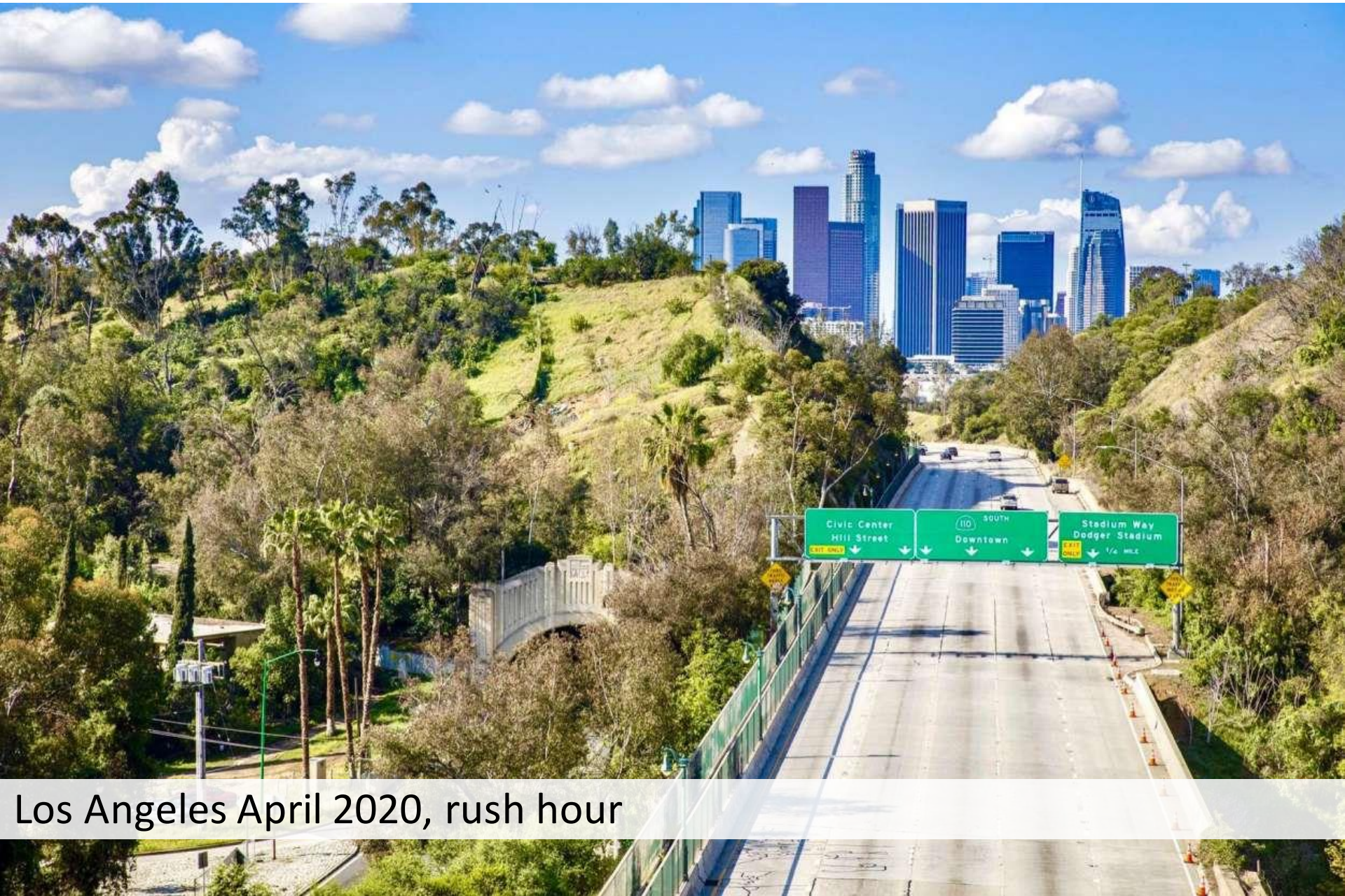
Chris Ganson
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Los Angeles April 2020





Los Angeles April 2020, rush hour

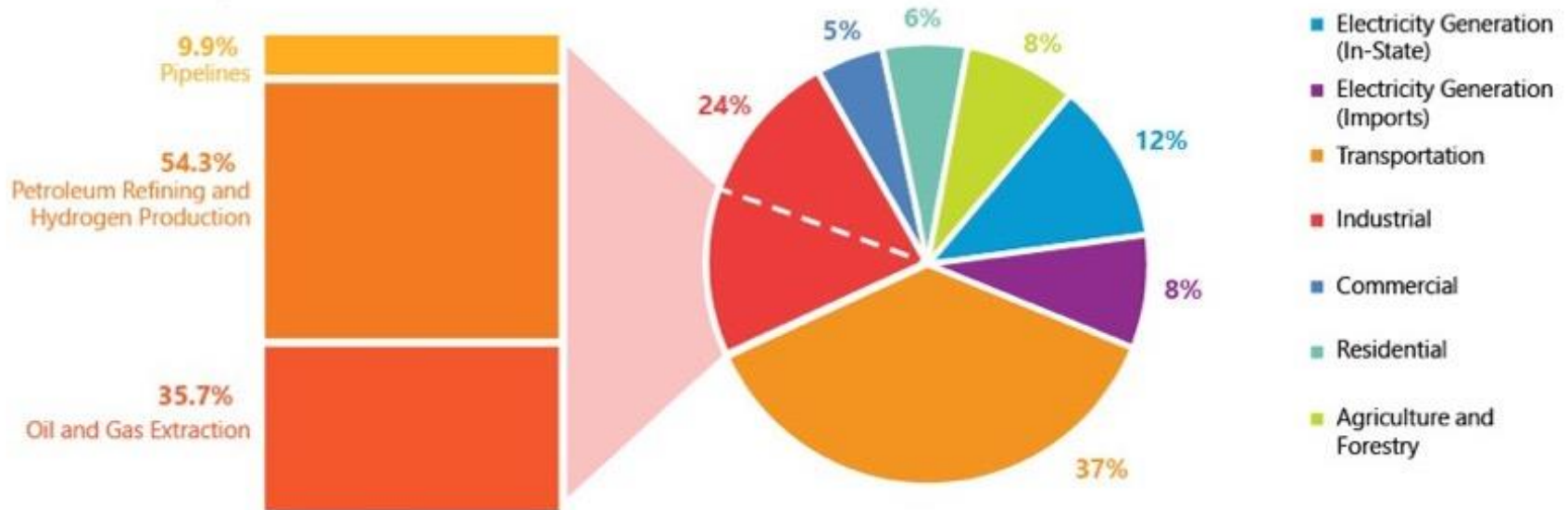


Vehicle Miles Traveled



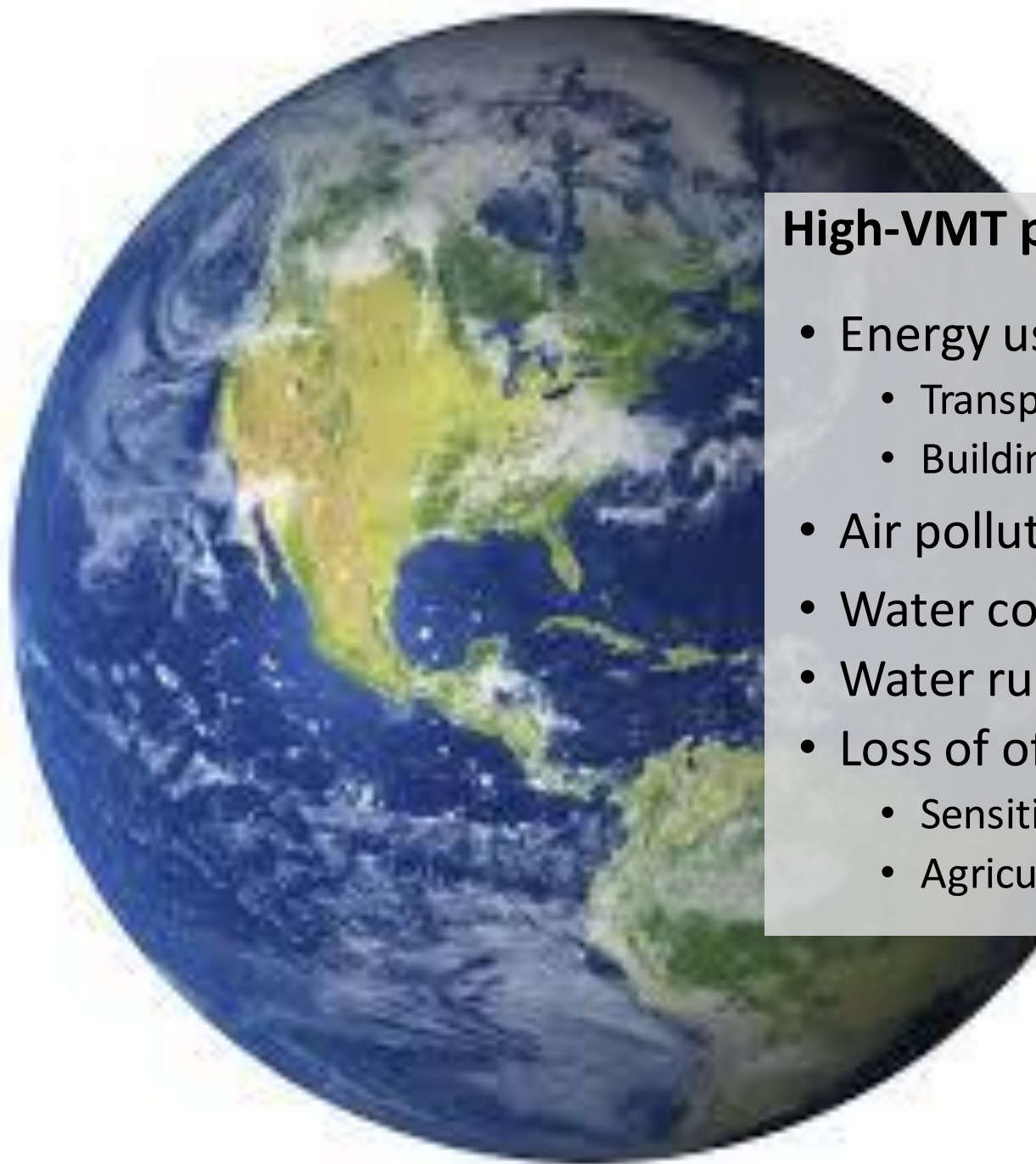
CA GREENHOUSE GAS INVENTORY 2014 BY SECTOR AND ACTIVITY (2016 EDITION)

Transportation-Related Industrial Emissions



“With emissions from the transportation sector continuing to rise despite increases in fuel efficiency and decreases in the carbon content of fuel, California will not achieve the necessary greenhouse gas emissions reductions to meet mandates for 2030 and beyond without **significant changes to how communities and transportation systems are planned, funded, and built.**”

- CARB *2018 Progress Report*



High-VMT projects increase:

- Energy use
 - Transportation energy
 - Building energy
- Air pollutant emissions
- Water consumption
- Water runoff
- Loss of of open space
 - Sensitive habitat
 - Agricultural land



Physical inactivity causes 21,000+ deaths annually in California

VMT reduction helps achieve state mode share targets, which will:

- Reduce 2,000+ deaths annually
- Prevent \$1 billion-\$15 billion premature death and disability annually



<i>Country</i>	<i>Traffic deaths per 100K pop</i>
Sweden	2.8
UK	2.9
Switzerland	3.3
Netherlands	3.4
Spain	3.7
Germany	4.3
Japan	4.7
France	5.1
USA	10.6

Most Compact Counties	Sprawl index	Traffic deaths per 100K pop
New York, NY (New York)	352	4.4
Kings County, NY (New York)	264	4.5
Bronx County, NY (New York)	250	4.2
Queens County, NY (New York)	219	4.6
San Francisco County, CA (San Francisco)	209	6.3
Hudson County, NJ (Jersey City)	190	5.9
Philadelphia County, PA (Philadelphia)	188	8.0
Suffolk County, MA (Boston)	179	4.5
Richmond County, NY (New York)	163	5.6

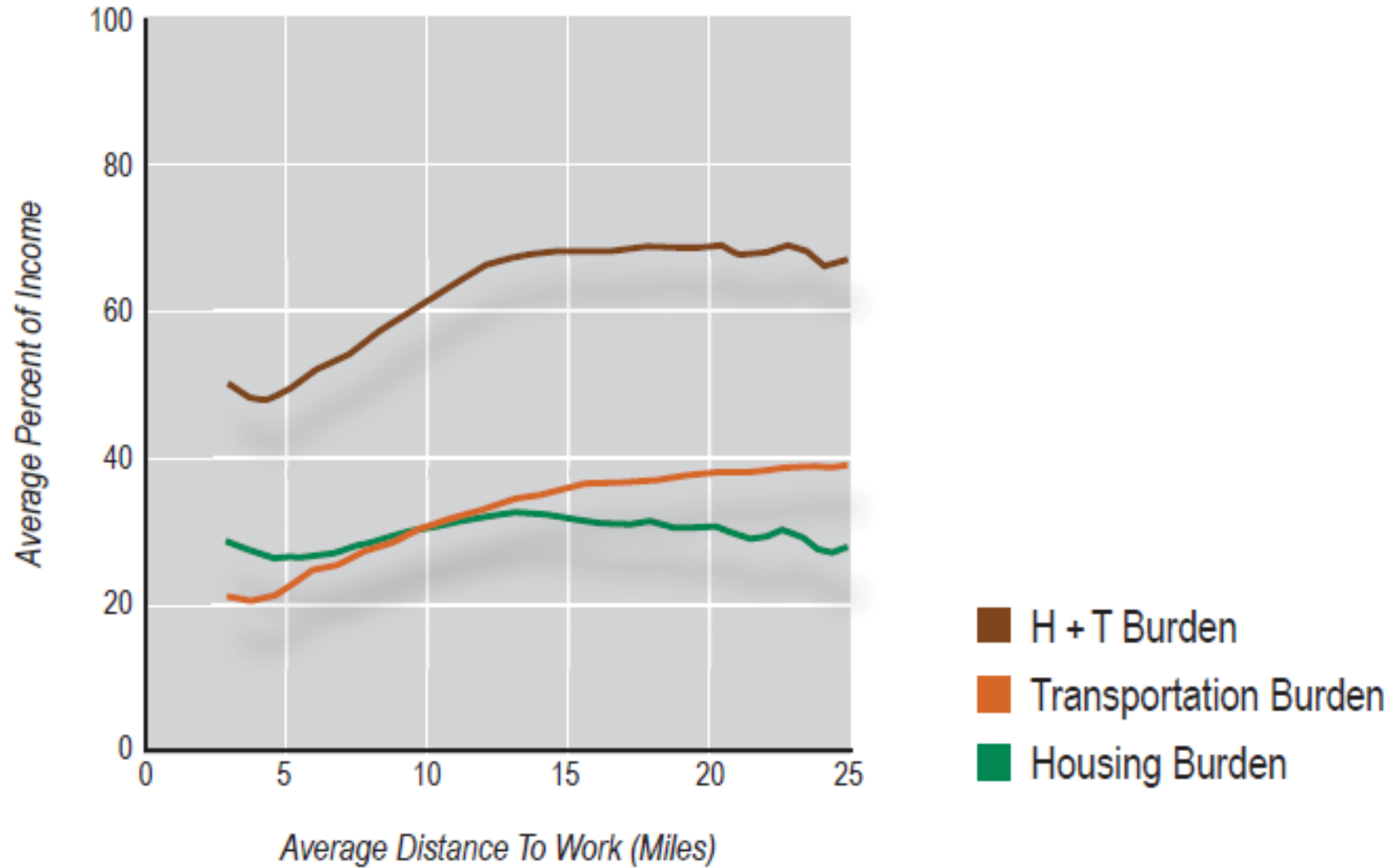
Average: 5.3

Most Sprawling Counties	Sprawl index	Traffic deaths per 100K pop
Stokes County, NC (Winston Salem)	71	15.7
Miami County, KS (Kansas City)	71	38.8
Davie County, NC (Winston Salem)	71	25.8
Isanti County, MN (Minneapolis St. Paul)	70	12.8
Walton County, GA (Atlanta)	70	19.8
Yadkin County, NC (Winston Salem)	69	38.5
Goochland County, VA (Richmond)	68	35.6
Fulton County, OH (Toledo)	67	38.0
Clinton County, MI (Lansing)	67	17.0

Average: 26.9

Source: Ewing et al., 2003. Definition of sprawl: A population widely dispersed in low-density residential development; rigid separation of homes, shops, and workplaces; a lack of distinct, thriving activity centers, such as strong downtowns or suburban town centers; and a network of roads marked by very large block size and poor access from one place to another.

Housing & Transportation cost burdens



SB 375

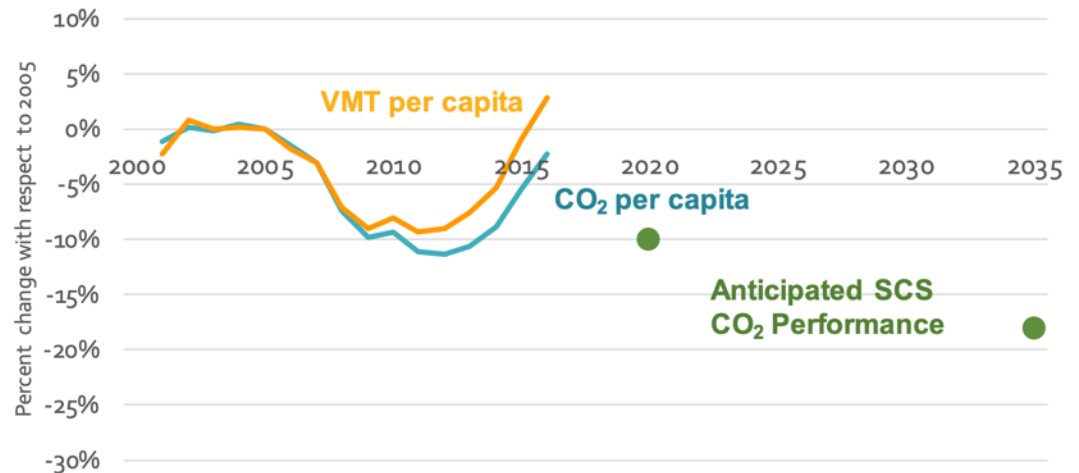
- CARB sets GHG/cap targets for Regional Transportation Plans
- Urbanized regions develop a plan for transportation & land use that achieves the target

2018 PROGRESS REPORT

California's Sustainable Communities and Climate Protection Act



NOVEMBER 2018



Source: CDTFA, U.S.EIA, U.S.EPA, CARB

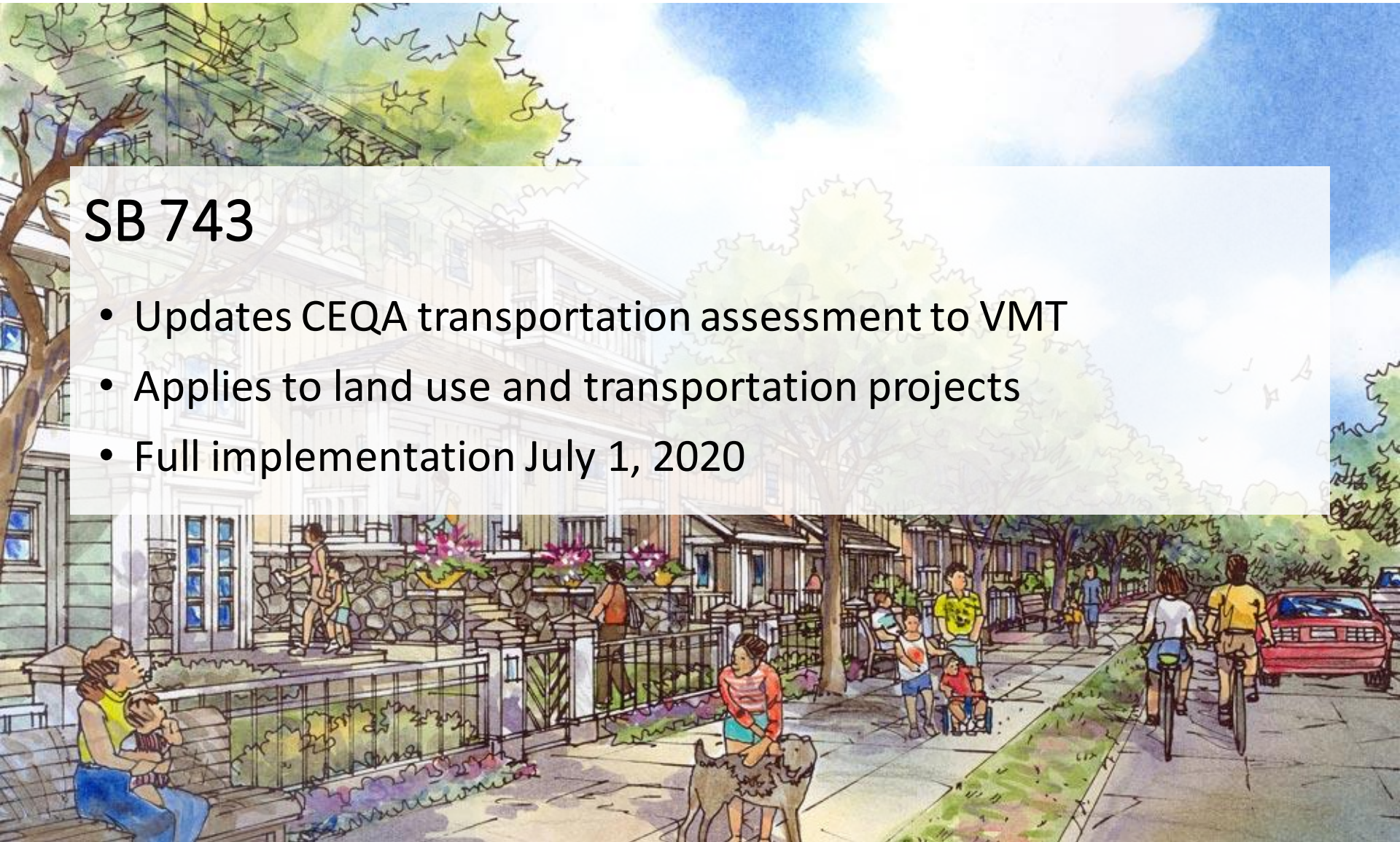
² CO₂ and VMT calculated based on California Department of Tax and Fee Administration (CDTFA) gasoline fuel sales data.

Key Issues with SB 375

- Inadequate targets
- Local plans and development don't follow regional plan
- Difficult to determine consistency with many regional plans
- Land use plan held fixed when assessing highway projects
- Travel demand models are complex and opaque

SB 743

- Updates CEQA transportation assessment to VMT
- Applies to land use and transportation projects
- Full implementation July 1, 2020





Thanks!

