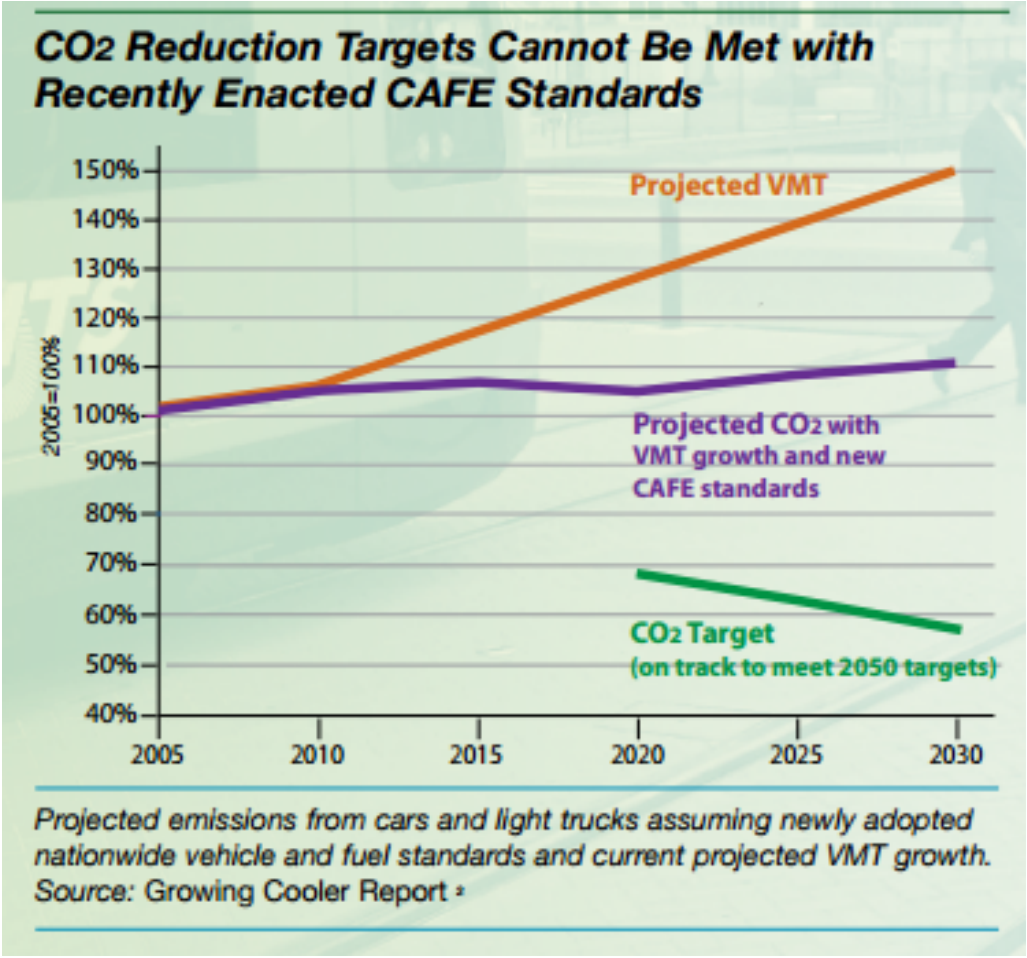
Emission Reductions will not get us there alone.



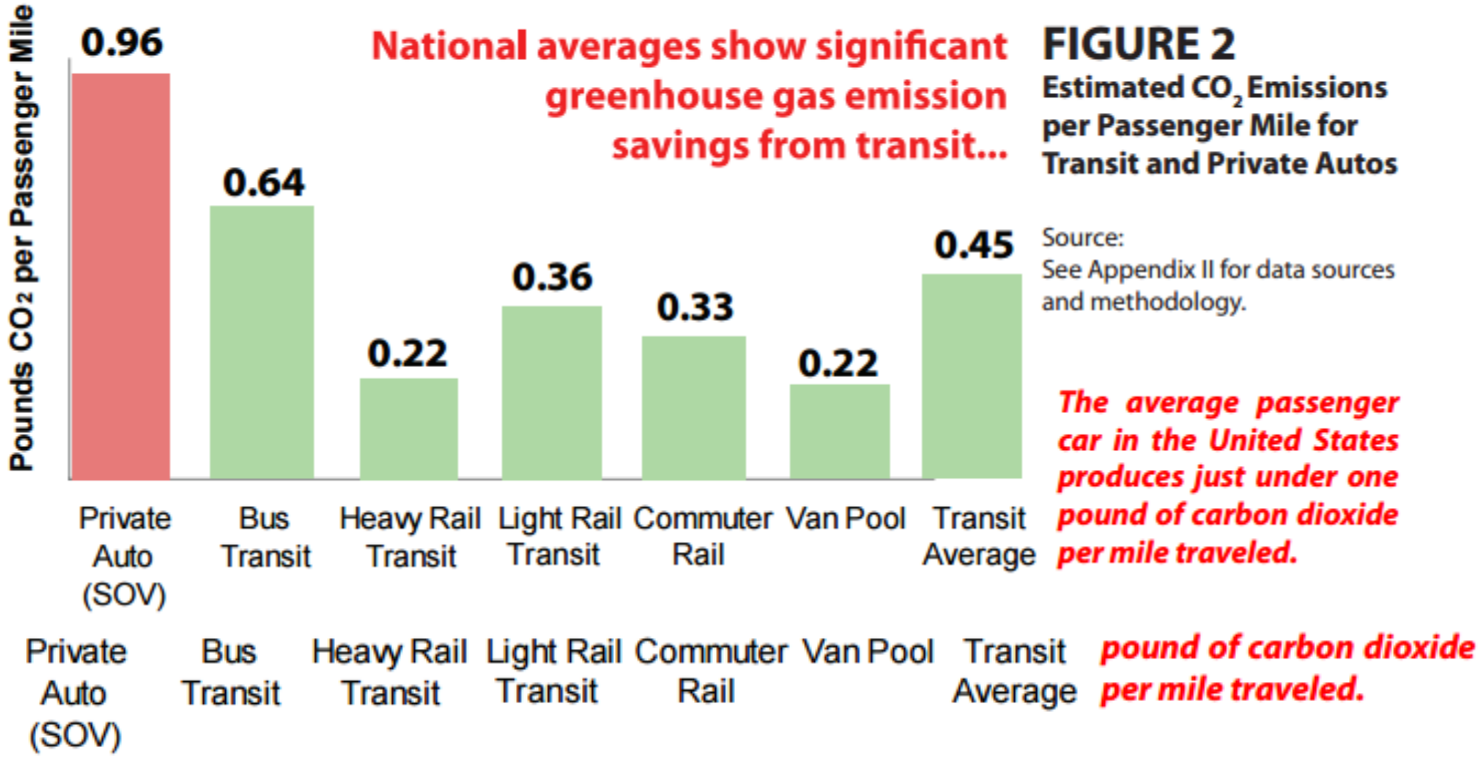
Increase in both SOV and public transportation use. Losses in Car Pools

Means of Transportation to Work by Share of Workers, California (%)

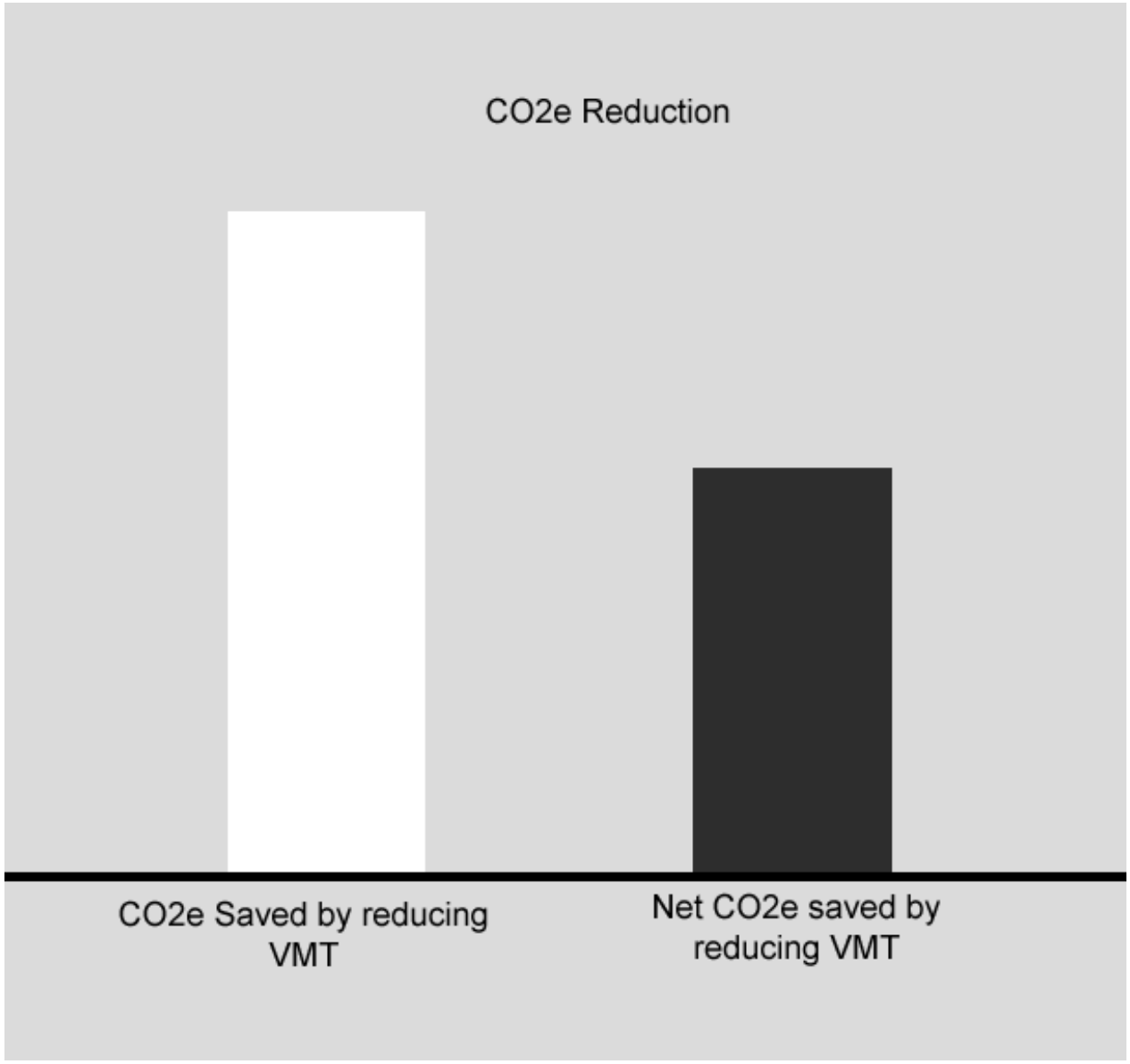
	Workers	Drove Alone	Carpool	Public Transit	Other	Work at Home
1980	100.0	67.8	16.9	5.8	7.7	1.9
1990	100.0	71.6	14.6	4.9	5.7	3.2
2000	100.0	71.8	14.5	5.0	4.8	3.8
2005	100.0	74.0	12.5	4.7	4.5	4.3
2006	100.0	73.0	12.4	5.0	4.8	4.8
2007	100.0	73.2	11.9	5.1	5.1	4.8
2008	100.0	72.7	11.9	5.3	5.3	4.8
2009	100.0	73.0	11.6	5.2	5.1	5.2
2010	100.0	73.2	11.5	5.2	5.0	5.2
2011	100.0	73.3	11.1	5.2	5.2	5.3
2012	100.0	73.4	11.1	5.2	5.1	5.3
2013	100.0	73.2	10.9	5.3	5.3	5.2
2014	100.0	73.5	10.5	5.3	5.3	5.4

Source: US Census Bureau, Decennial Census & American Community Survey

CO2e emission by type of transportation

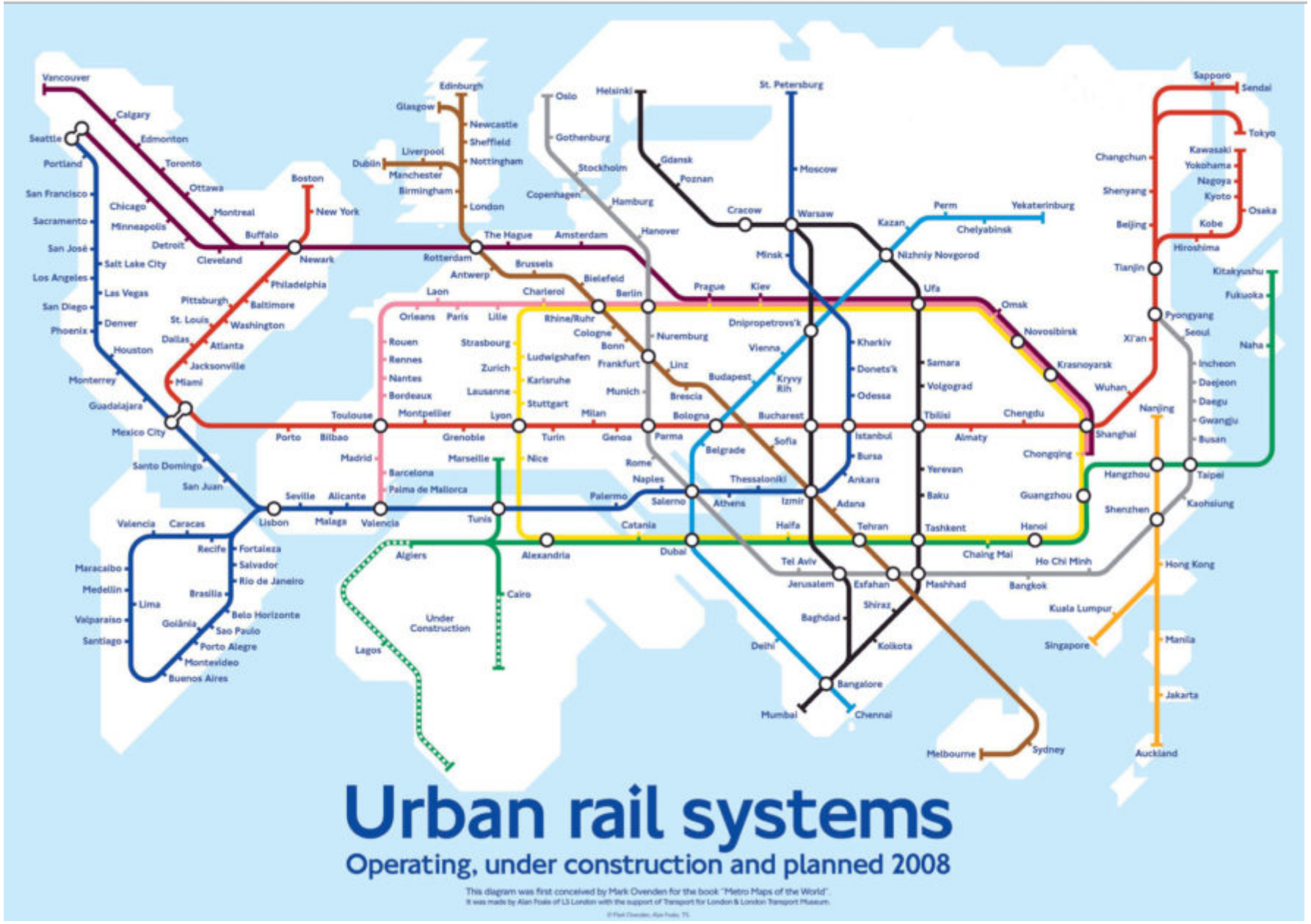


Private Auto (SOV) Bus Transit Heavy Rail Transit Light Rail Transit Commuter Rail Van Pool Transit Average
pound of carbon dioxide per mile traveled.


CO2e Reduction
CO2e Saved by reducing VMT
Net CO2e saved by reducing VMT

BART as envisioned



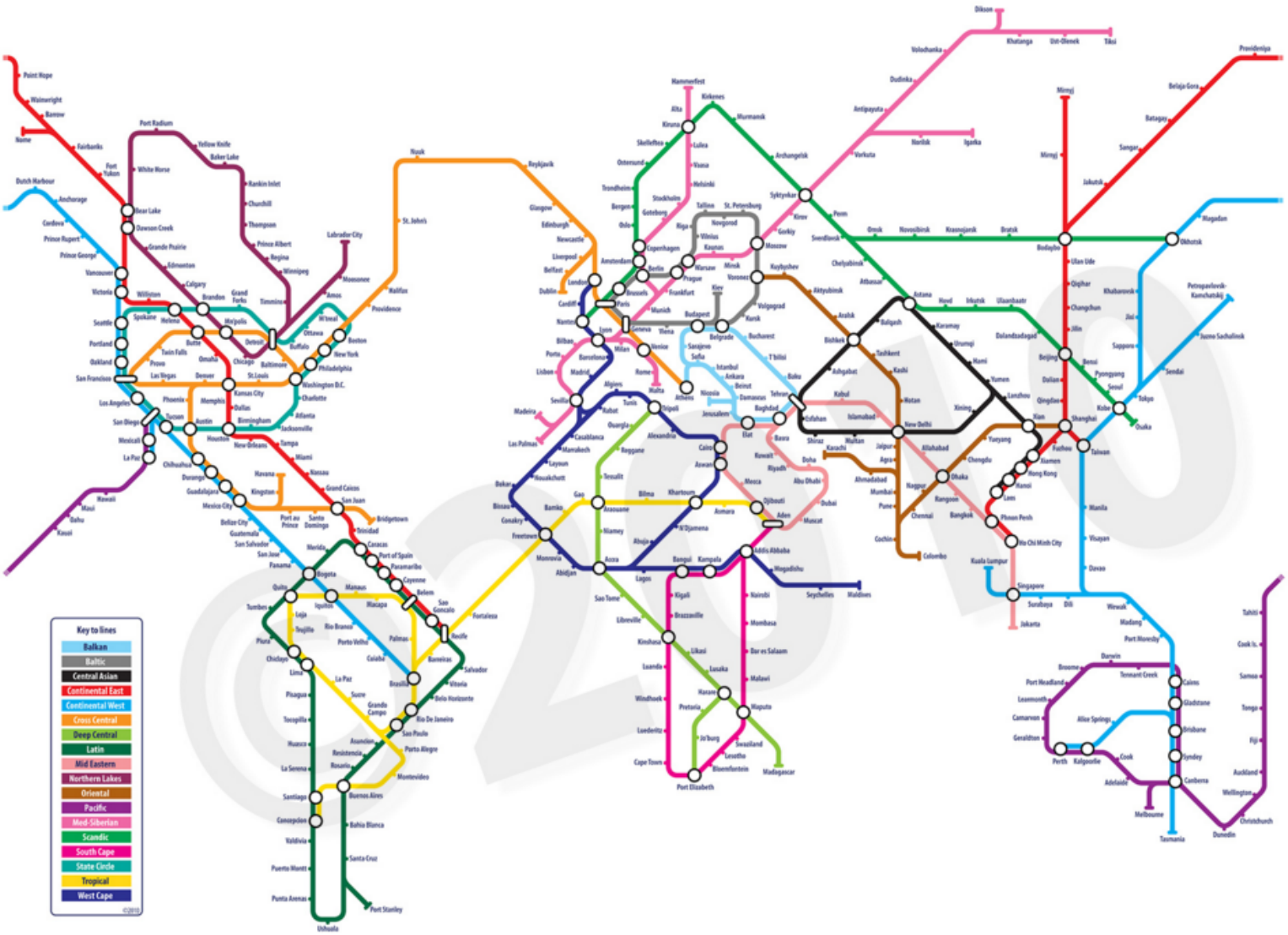


Urban rail systems

Operating, under construction and planned 2008

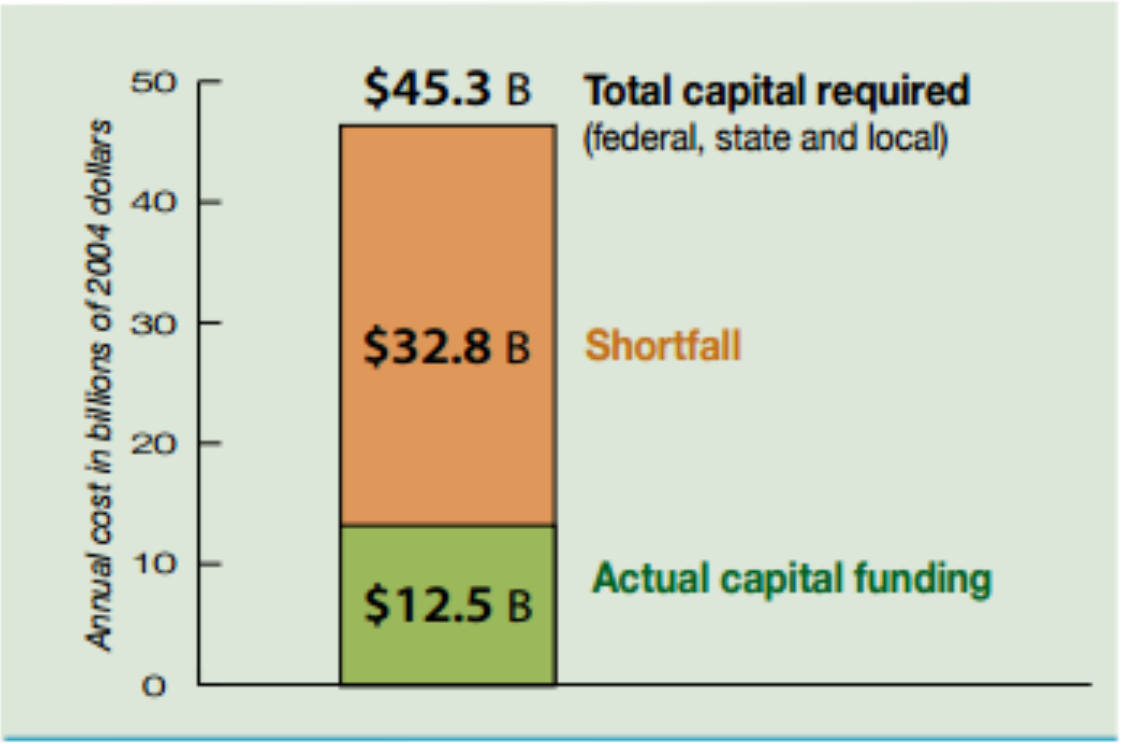
This diagram was first conceived by Mark Ovenden for the book "Metro Maps of the World".
It was made by Alan Foale of L3 London with the support of Transport for London & London Transport Museum.

© Mark Ovenden, Alan Foale, TfL


Key to lines
Balkan
Baltic
Central Asian
Continental East
Continental West
Cross Central
Deep Central
Latin
Mid Eastern
Northern Lakes
Oriental
Pacific
Med-Siberian
Scandic
South Cape
State Circle
Tropical
West Cape
©2010

Oops.

Annual Capital Investment Needs for Public Transportation



In order to improve physical conditions and improve service performance, the U.S. must make a sizable investment in public transportation. Source: State and National Transit Investment Analysis [5]

Everything we thought about millennials not buying cars was wrong



Matthew DeBord
Mar. 9, 2016, 2:44 PM 15,249

FACEBOOK LINKEDIN TWITTER EMAIL PRINT

Download This To PDF
It's Free to Download and Convert. Get It In Seconds, Download Now. Go to fromdoctopdf.com

The financial crisis temporarily crippled millennials' futures, just as many were graduating with lots of student-loan debt into a job market that wasn't creating jobs.

The dire situation coincided with a meltdown of the auto industry in 2009, when annual sales in the US fell from a prerecession peak of about 17 million to a harrowing 10 million.



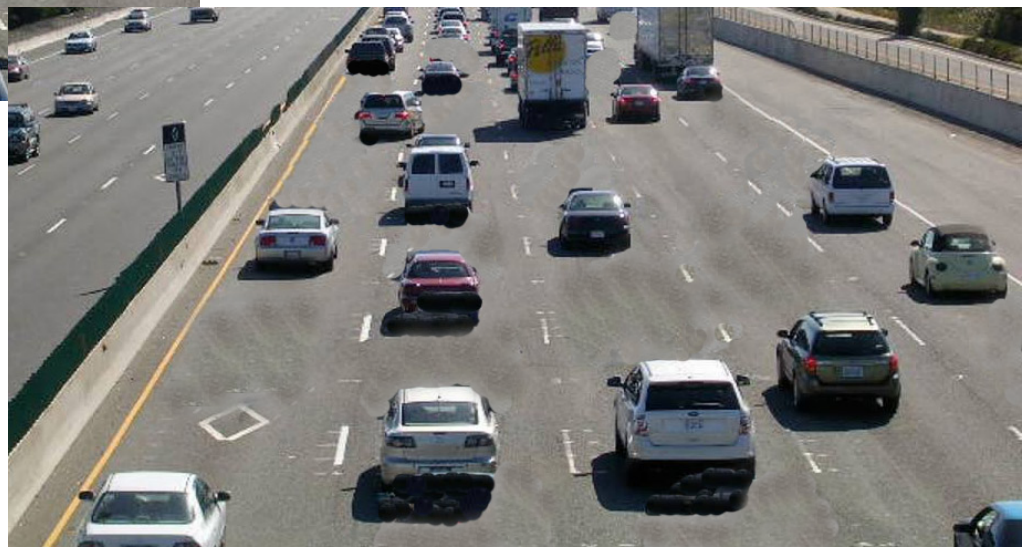
Just when carmakers needed

101 in Brisbane during commute hours



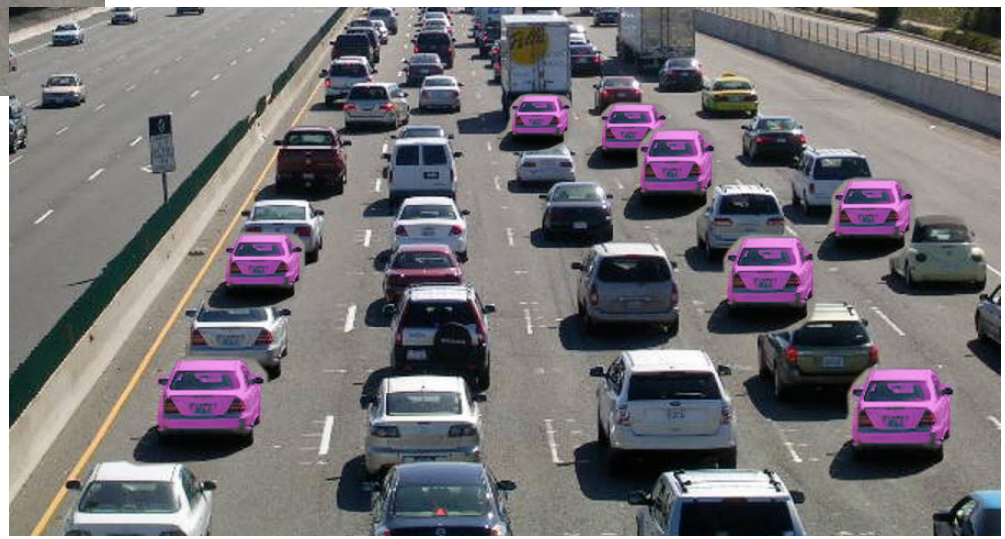
101 in Brisbane during commute hours. 50% less cars





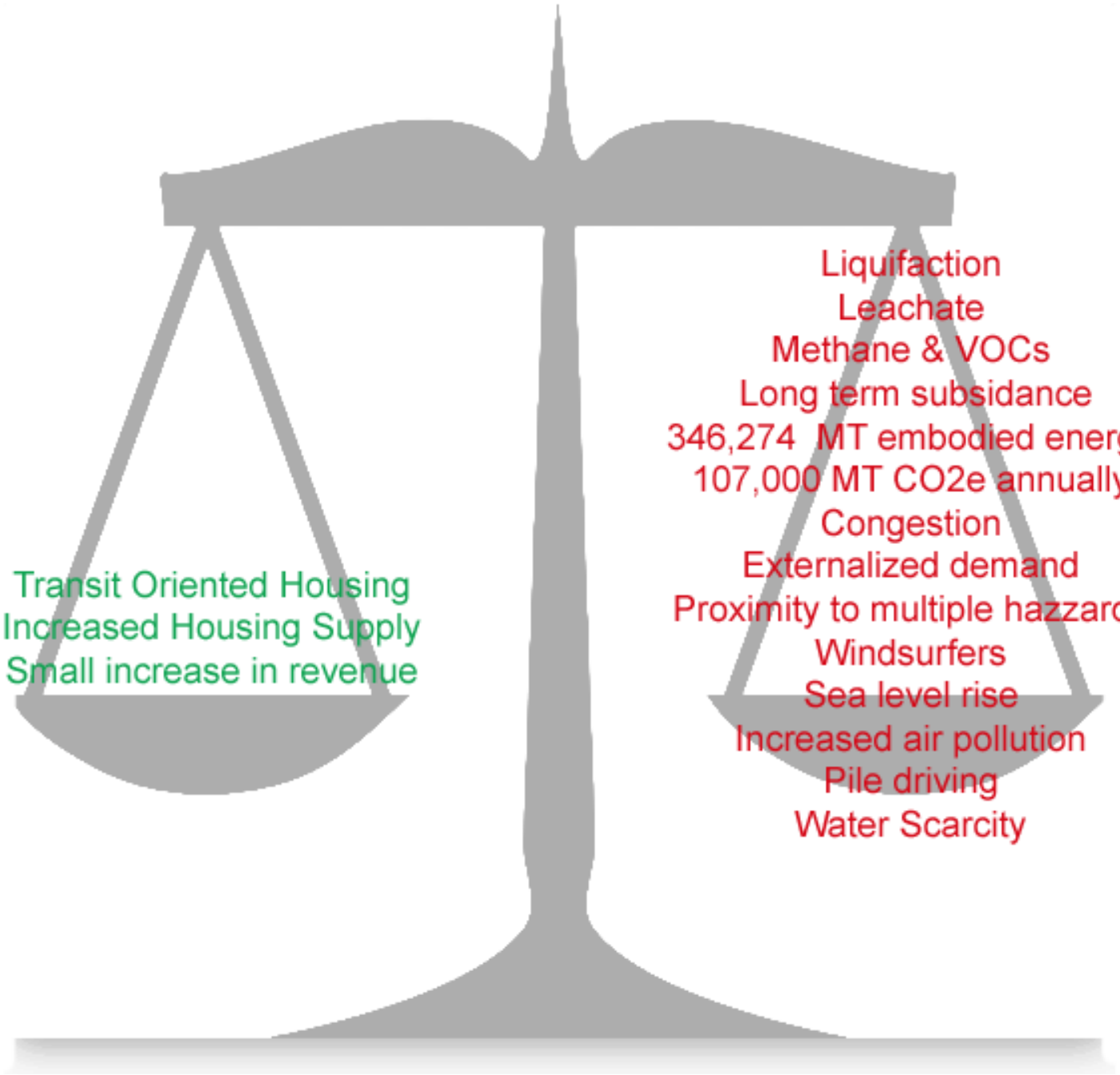
101 in Brisbane during commute hours with additional Baylands traffic





Baylands methane emissions




Transit Oriented Housing
Increased Housing Supply
Small increase in revenue
Liquifaction
Leachate
Methane & VOCs
Long term subsidance
346,274 MT embodied energy
107,000 MT CO2e annually
Congestion
Externalized demand
Proximity to multiple hazzards
Windsurfers
Sea level rise
Increased air pollution
Pile driving
Water Scarcity