



UNIVERSITY OF CALIFORNIA *Berkeley*
Transportation Sustainability
RESEARCH CENTER

Shared Mobility Trends: 2015 - 2016

Susan A. Shaheen, Ph.D.
Adjunct Professor and Co-Director
Transportation Sustainability Research Center
University of California, Berkeley

Transportation Research Board Annual Meeting
Workshop 138
January 11, 2016

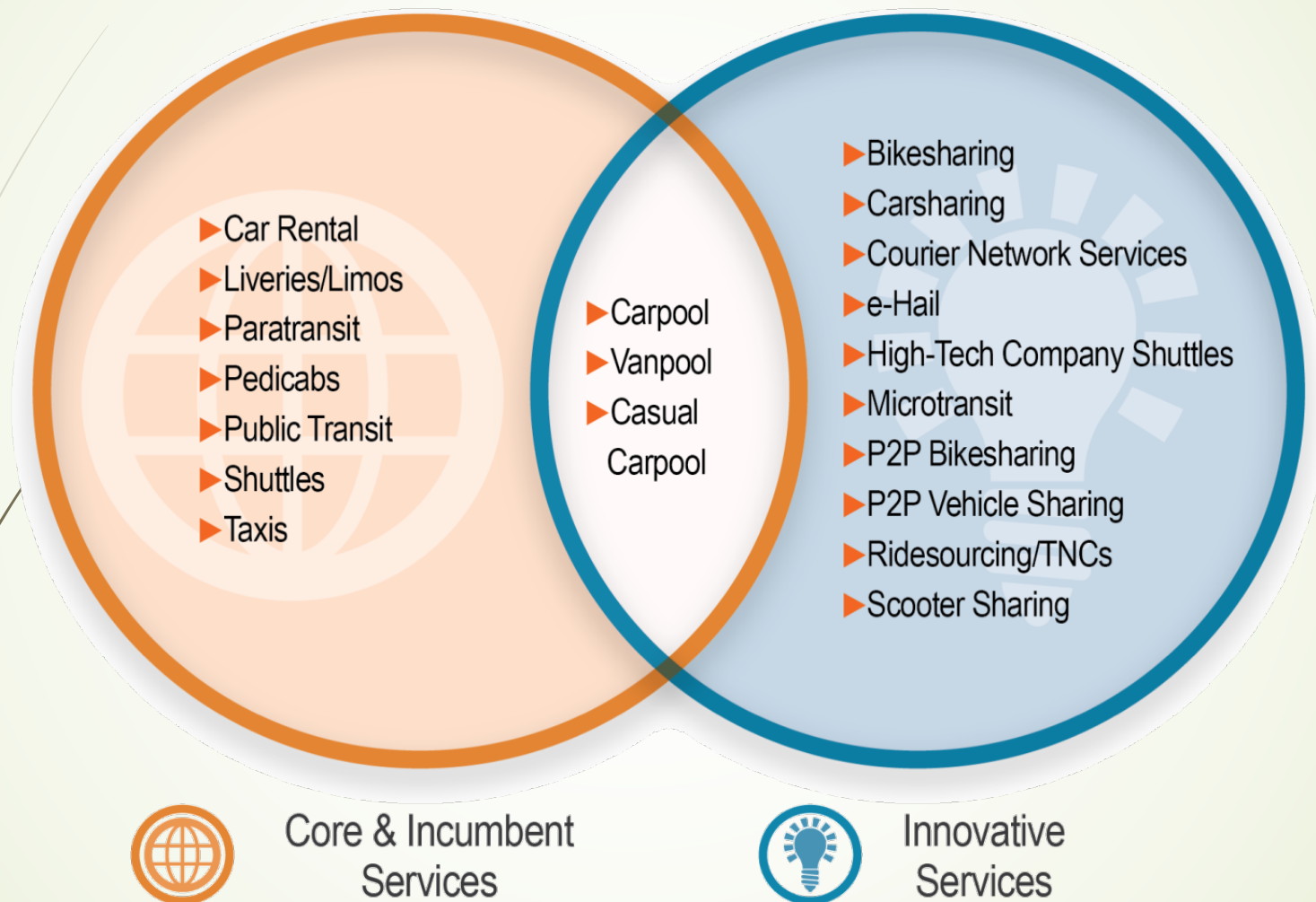


Overview

- Shared-Use Mobility Trends & Developments
 - Ecosystem Overview
 - Carsharing
 - Bikesharing
 - Ridesourcing
 - E-Hail
- Summary
- Acknowledgements

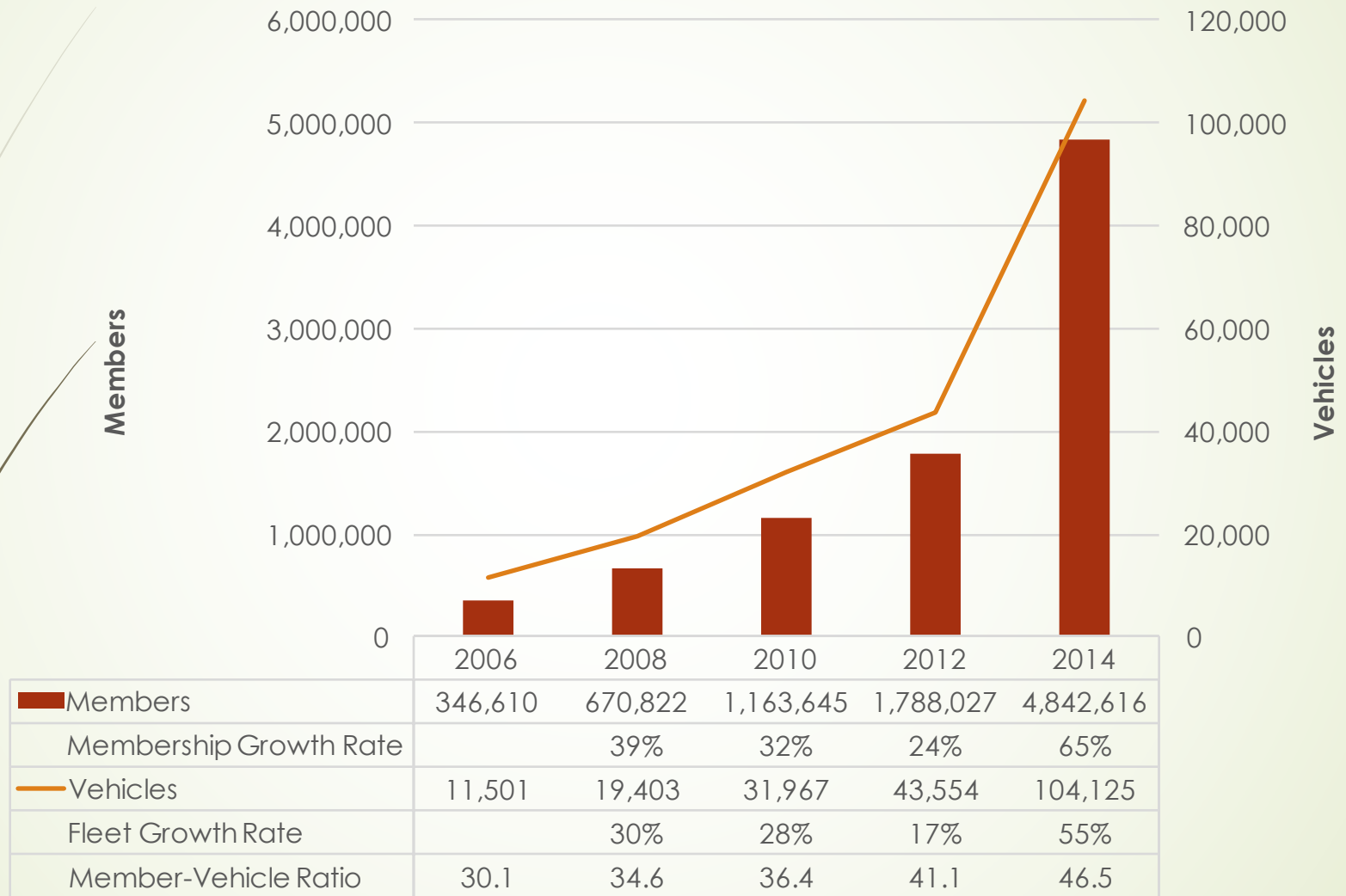


Ecosystem Overview



Forthcoming: FHWA

Global Carsharing Trends



Shaheen and Cohen, 2015

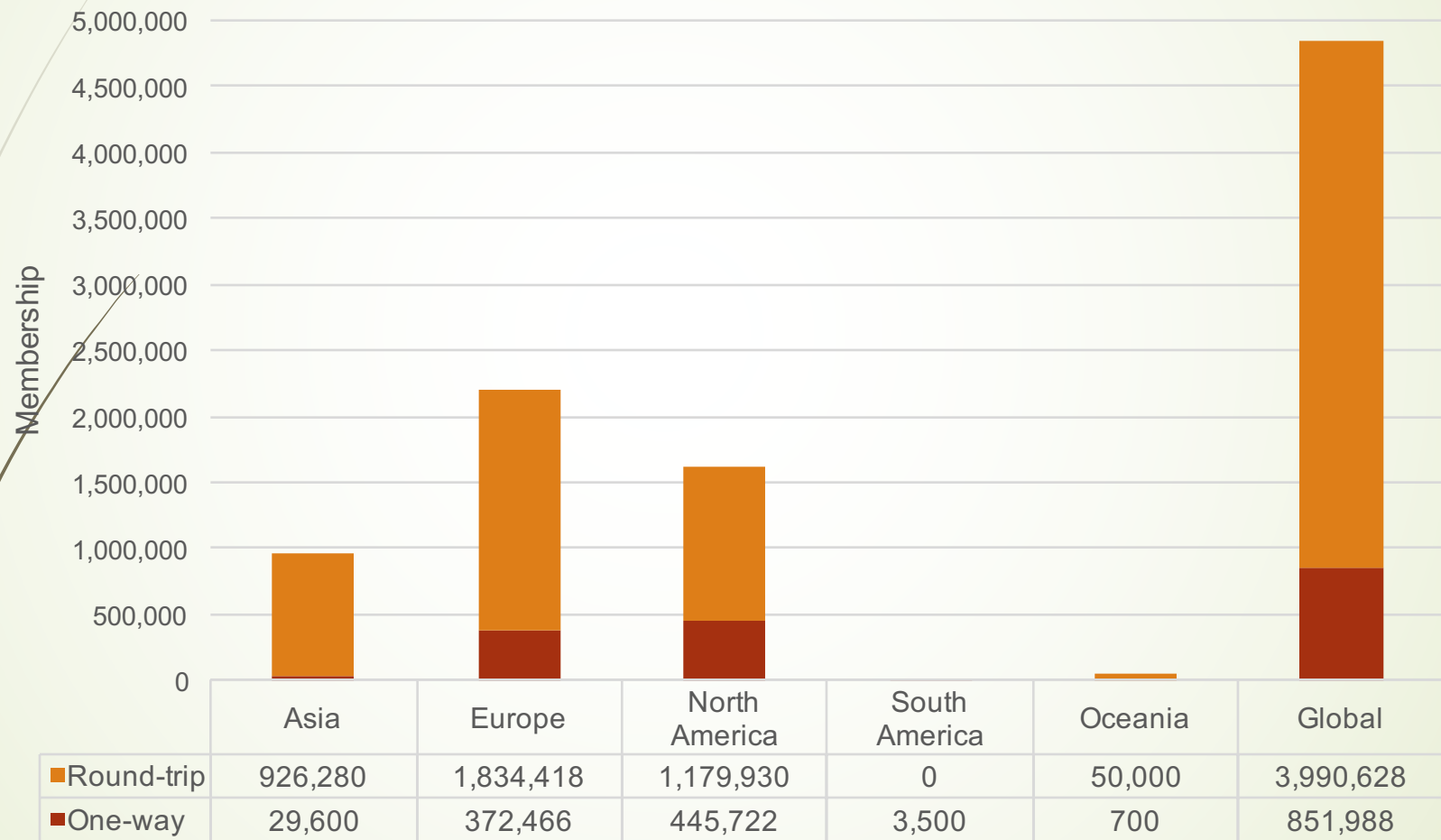
© UC Berkeley, 2016



Transportation Sustainability RESEARCH CENTER
UNIVERSITY OF CALIFORNIA BERKELEY

Global Carsharing Trends

Roundtrip and One-way Global Membership



Shaheen and Cohen, 2015

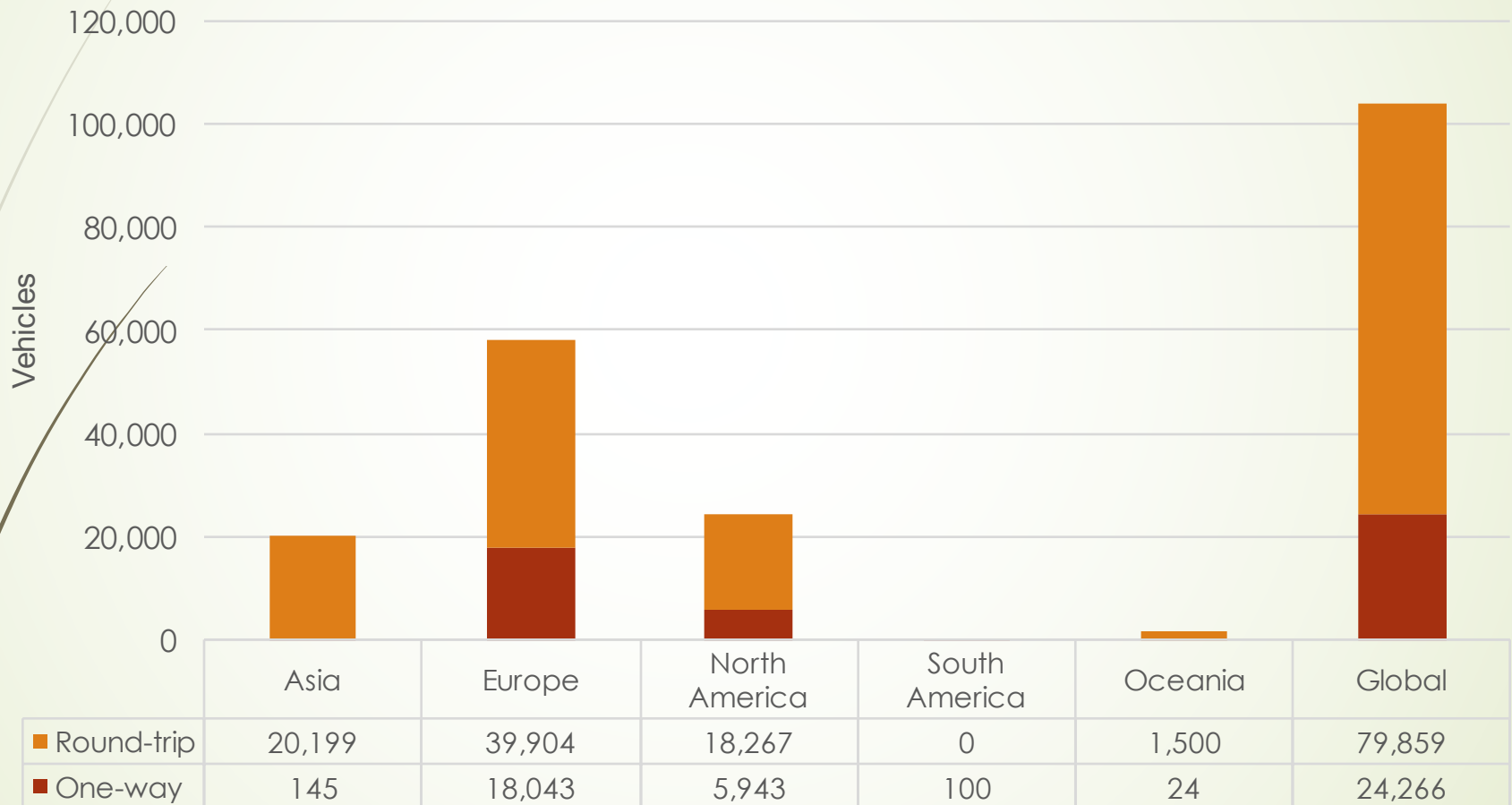
© UC Berkeley, 2016



Transportation Sustainability RESEARCH CENTER
UNIVERSITY OF CALIFORNIA BERKELEY

Global Carsharing Trends

Roundtrip and One-way Global Membership



Shaheen and Cohen, 2015

© UC Berkeley, 2016



Transportation Sustainability RESEARCH CENTER
UNIVERSITY OF CALIFORNIA BERKELEY

Some Carsharing Highlights: 2015-16

- Zipcar announces ZipLabs will work with University of Michigan on shared automated vehicles
- Carma Carpooling acquires City CarShare in 2015
- Audi to launch “Audi at Home” carsharing in San Francisco and Miami
- Fare integration between HOURCAR and Metro Transit in the Twin Cities
- P2P carsharing, RelayRides, rebrands as “Turo”
- Scoot Networks introduced the Nissan-branded Twizy (electric quadricycle)

Worldwide and US Bikesharing

World:

- 980 cities with IT-based bikesharing accounting for 1,258,500 bicycles and 9,300 e-bikes (December 2015)

U.S.

- 30,750 bikes at 3,200 stations across 87 IT-based public bikesharing programs in the United States (October 2015)

(Meddin, 2015)

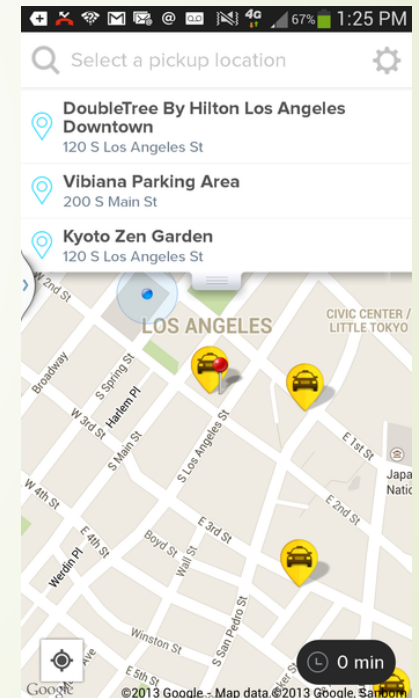


Some Bikesharing Highlights: 2015-16

- North American Bike Share Association (NABSA) establishes open data standard
- Free-floating bikesharing (SoBi)
- P2p Bikesharing (Spinlister)
- Campus-based systems (Zagster, SoBi)
- E-bikesharing & carsharing
- Launch of first e-bikesharing program in Birmingham, AL in October 2015
- Keyless bike locks (e.g., BitLock)
- Partnership between BCycle and RideScout's mobile payment subsidiary, GlobeSherpa

Ridesourcing/E-Hail Market Trends: 2015-16

- Sidecar ceases operations
- Lyft: 195 cities; over 315,000 drivers
- Uber: 68 countries; over 360 cities; hundreds of thousands of drivers signing up globally per month
- Easy Taxi: 18 countries; 400 cities
- Curb: 60 cities; 90 cab companies; over 35,000 taxis
- mytaxi: 5 countries; 20 cities
- Flywheel: 6 cities; over 5,000 drivers



Ridesourcing Highlights: 2015-16

- Continued expansion of ridesplitting: LyftLine and UberPOOL
- Uber rolls out back-to-back trips feature allowing drivers to be matched with nearby ride requests before completing a ride in-progress
- GM investment of \$500M in Lyft and gets a seat on its board
 - Opportunity to link automated and connected vehicle technologies with ridesourcing



E-Hail Highlights: 2015-16

- ▶ San Francisco's oldest taxi firm (DeSoto) rebrands itself as Flywheel
- ▶ California Division of Measurement Standards approves Flywheel's smartphone taxi meter (TaxiOS)
 - ▶ TaxiOS will offer new features such as fare splitting, dynamic pricing, last-mile deliveries, and app-based payments
- ▶ San Francisco's Yellow Cab files for bankruptcy



E-Hail Highlights: 2015-16

- ▶ NYC launches Arro taxi app after beta testing with 7,000 cabs
- ▶ Bandwagon (taxi sharing app) expands to JFK and LaGuardia airports
- ▶ The Ride app launched in 35 Canadian cities in December 2015



Published Research Highlights: 2015

- Bikesharing in San Francisco white paper
- EV carsharing white paper
- Insurance carsharing study **(2016 TRB presentation)**
- Blablacar carpooling equity study **(2016 TRB presentation)**
- Holistic guide to shared mobility
- Zipcar employer carsharing impact study
- Shared mobility services and vehicle automation paper

For more about these and other studies, please visit
<http://tsrc.berkeley.edu> and <http://imr.berkeley.edu>



Research Highlights: 2016

- Two forthcoming reports on Shared Mobility
 - FHWA – Primer and Webinar (est. Feb 2016)
 - American Planning Association (est. Feb/March 2016)
- Forthcoming FHWA Primer on Smartphone Apps
- NRDC/TSRC conducting a study of the impacts of Lyft and Uber (Hewlett Foundation)

Research Highlights: 2016

- Bikesharing GHG impacts study
- One-way carsharing study
- P2P GHG impacts study
- Mobility On Demand (MOD) study for FHWA





Acknowledgments

- Carsharing, bikesharing, ridesharing, ridesourcing, and taxi organizations
- Mineta Transportation Institute (MTI), Caltrans, SFMTA, FHWA, US DOT, NRDC, Hewlett Foundation
- Adam Cohen, Elliot Martin, Apaar Bansal, Nelson Chan, Mike Fratoni, Adam Stocker, TSRC
- Russell Meddin, The Bike-sharing World Map



www.tsrc.berkeley.edu

Twitter: SusanShaheen1

LinkedIn: Susan Shaheen



Transportation Sustainability RESEARCH CENTER
UNIVERSITY OF CALIFORNIA BERKELEY