



Emerging Mobility Technology Task Force

Freight Committee

November 18, 2019



ON TO 2050 Recommendation

Harness emerging technology to improve travel and anticipate future impacts

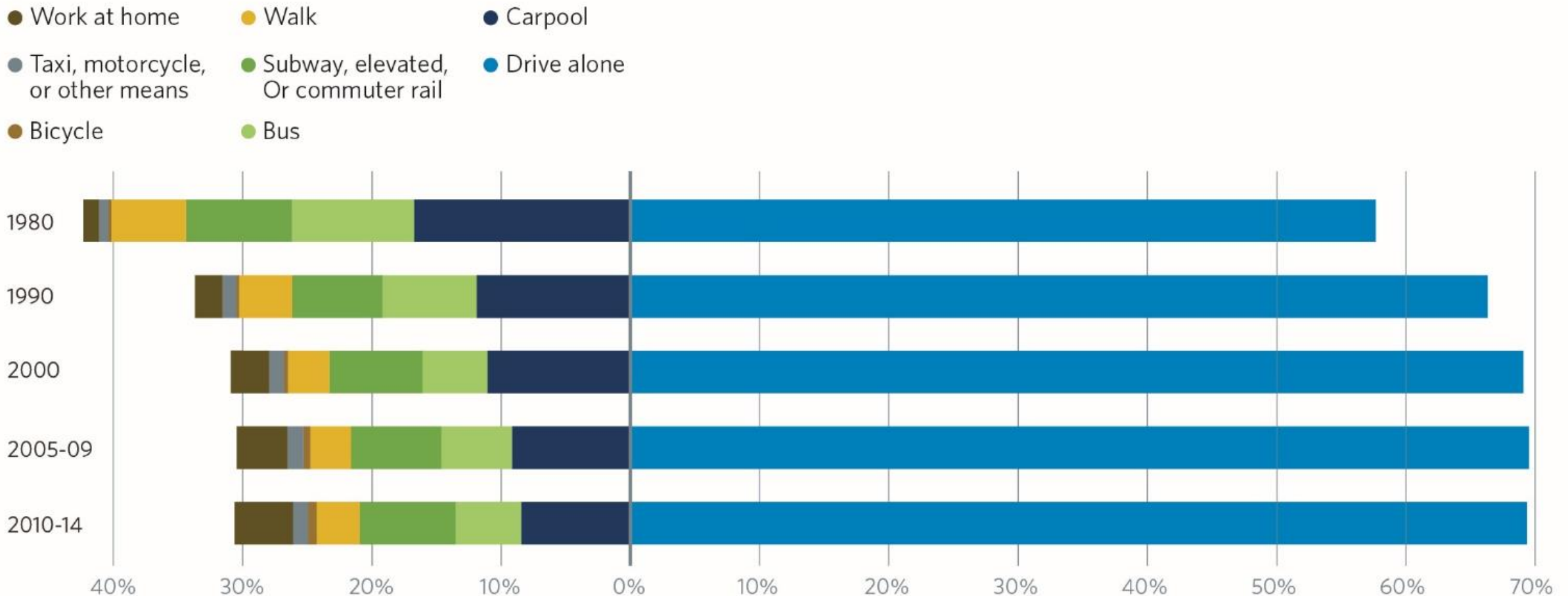
Mobility is rapidly changing



The shift to personal autos has stalled

Commute mode share in the CMAP region 1980, 1990, 2000, 2005-09, and 2010-14

Source: Chicago Metropolitan Agency for Planning analysis of U.S. Decennial Census data, 1980-2000 and American Community Survey estimates for 2005-2009 and 2010-2014.

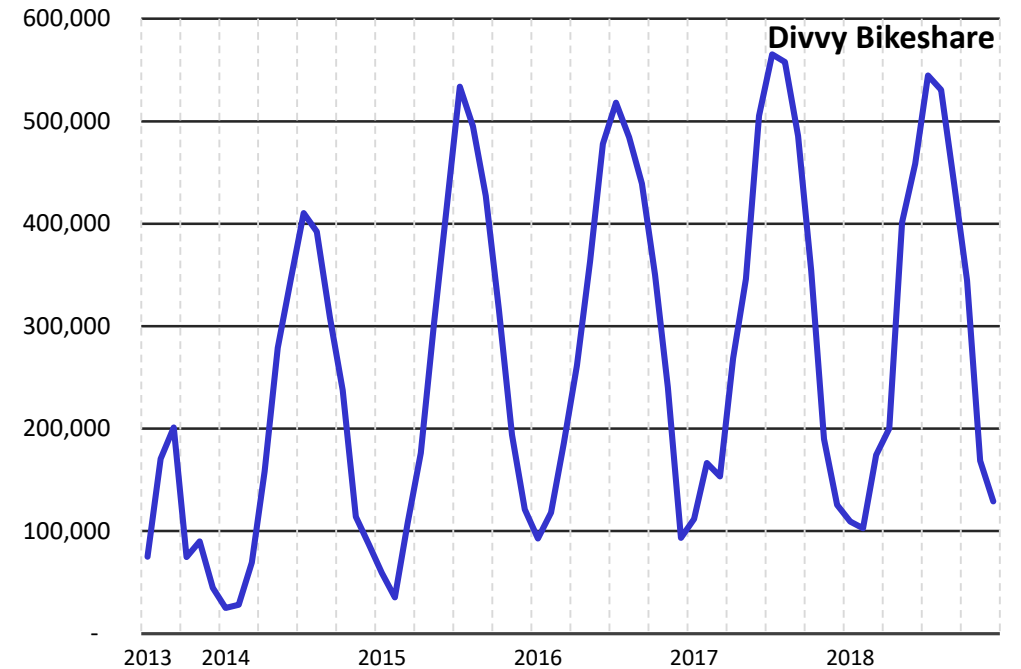


Growing preference for multimodal options

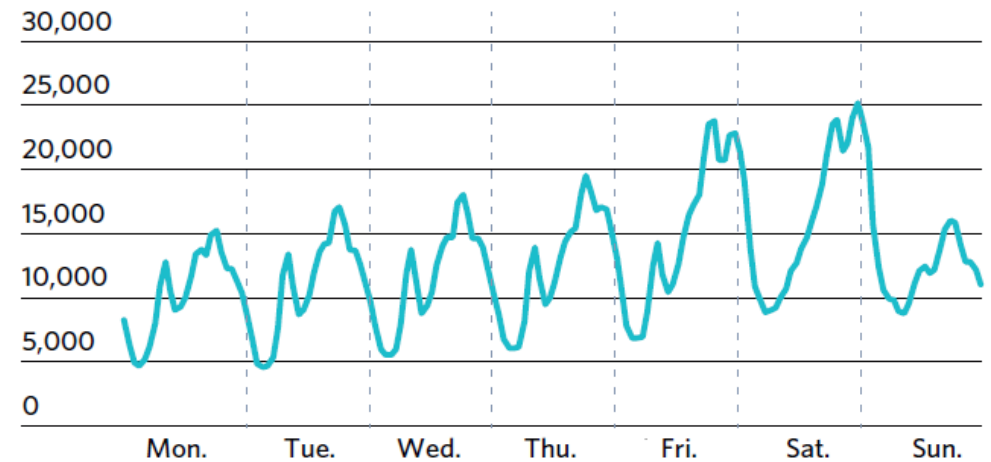
Bikeshare, scooters, ride-hailing, and transit

Flexible mode options for each trip, in one user interface

Trips per month, July 2013-December 2018



Average trips per day by hour, November-December 2018



Emerging Mobility Technology Task Force



Goals

Set a vision for the region to leverage new transportation technology and services

Obtain regional consensus on policies and investments

Outline next steps to build toward implementation

Overview

Meetings from January to October

Convenes public and private transportation providers, civic organizations, and local jurisdictions

Subcommittees on key topics

Will incorporate the ecommerce project

Leverage technology to achieve a seamless, multimodal system that provides equitable access to all communities

Leveraging shared mobility



Uber

getaround



SPIN

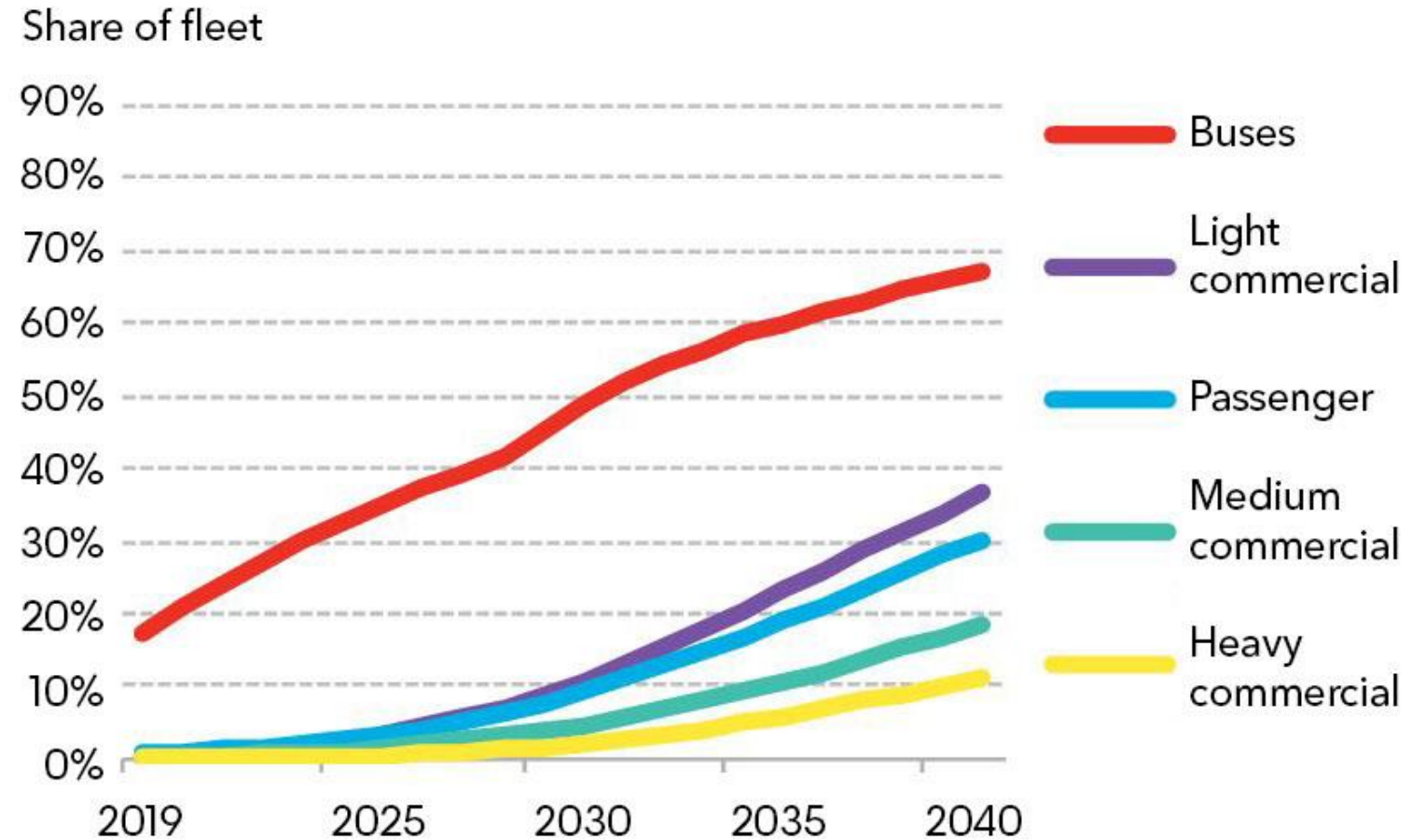


amazon



Promoting fleet electrification

EV share of vehicle fleet by segment



Source: BloombergNEF. Note: Passenger car and bus figures are global. Commercial vehicle segment adoption figures in both charts cover the main markets of China, Europe and the U.S.

Preparing for connected vehicles



Traffic Management Center

Managed lanes

Open parking and charging locations

Interconnected signals

V2I collects data on speed, stops, and more

Transit signal priority

Freight & emerging technology



Curb, street, and sidewalk management

Dense neighborhoods and suburban downtowns have competition for curb space

Solutions must balance passenger pick-ups and drop-offs, parking needs, and deliveries

Technology may enable dynamic pricing and uses

Fleet electrification & infrastructure

First generation of battery-electric trucks are being deployed for short-haul applications in urban areas

Scaling to long-haul operations will require technology improvements

Adequate charging infrastructure needed to support deployment



Next steps

Currently assembling research, conducting analysis,
and holding informational interviews with stakeholders

Task force and subcommittees will run from January to October

Discussion

How have emerging technology and services impacted your work?

Are any major freight technology issues missing?

What issues could benefit from regional consensus and priorities?

Are there any partners or organizations that we should talk with?



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