Sustainable Mobility - Outline

• Intro: The Climate Center’s Sustainable Mobility Program
• Definition, Principles of sustainable mobility
• Current Realities/Policies/Funding
• Actions to Achieve Climate Goals
The Climate Center

- Climate-Safe California goals—to get to 80% below 1990 levels by 2030
- Phase Out Fossil Fuels Program
  - Sustainable Mobility Program
    - Achieving an approximate 70 to 85 percent drop in vehicle emissions by 2030
TCC Key Program Element: Legislation enacted with date-certain for cessation of internal combustion engine (ICE) sales/registration
Actions to advance sustainable mobility

• Create Smart/Livable Cities
  • Complete Streets
  • Active transportation (walking, biking)
  • Transit Oriented Development
  • Clean Public Transit
• Avoiding unnecessary travel – borrowing from the three Rs – reducing Vehicle Miles Traveled (VMT)!
• Advocacy for access to broadband
What does “sustainable mobility” mean?

“A transportation system that is not dependent on fossil fuels or other finite resources, is clean and non-polluting, and is a just system, accessible for everyone, where public spending is equitable, and stakeholders participate in decision-making.”
Sustainable Mobility - Principles

- Equitable, Accessible, Affordable,
- Safe
- Clean/Zero Emissions
- Public Participation in decision-making – Transportation Democracy!
- Budget priorities must align with climate, equity, and other policy goals
GHGs from transportation in CA

Low hanging fruit
There are about 15 Million cars in CA…

U.S. automobile registrations in 2018, by state

<table>
<thead>
<tr>
<th>State</th>
<th>Registrations</th>
</tr>
</thead>
<tbody>
<tr>
<td>California</td>
<td>15,065,827</td>
</tr>
<tr>
<td>Texas</td>
<td>8,248,322</td>
</tr>
<tr>
<td>Florida</td>
<td>7,966,091</td>
</tr>
<tr>
<td>New York</td>
<td>4,712,779</td>
</tr>
<tr>
<td>Ohio</td>
<td>4,603,594</td>
</tr>
<tr>
<td>Illinois</td>
<td>4,477,763</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>4,424,183</td>
</tr>
<tr>
<td>Georgia</td>
<td>3,557,469</td>
</tr>
</tbody>
</table>

…and only about 730,000 are Zero Emission Vehicles

Drive Electric Week starts tomorrow!
National Drive Electric Week, Sep 26-Oct 4, 2020!
driveelectricweek.org
The Community Choice Energy Connection

- Program is launched and serving customers; or, jurisdiction has joined existing Community Choice program
- Local governments are at varying stages of evaluation, including operational
- Local government has voted to establish a Community Choice agency
- Local government has taken official action
- Earliest stages of exploration
- Eligible but no activity
- Ineligible service territory
Transportation Policy – Where it Happens…

- CA Transportation Commission
- Air Resources Board
- State Legislative Committees
- Local Government
Local Govt. Policy: Complete Streets

Transportation Policy – Local Government

• Look at all aspects of local govt planning with a climate crisis lens
• Update 20th century permitting rules
• Stop permitting new gas stations like they are ice cream stands
Transportation Policy: long range plan

• California Transportation Plan 2050
• The State's long-range transportation plan to improve multimodal mobility and accessibility while reducing greenhouse gas emissions
• Comment period ends on October 22, 2020.

Go to: CA Trans Plan 2050: ctp2050.com
Transportation Funding

State Transportation Revenues Have Increased
(In Billions)

Source: https://lao.ca.gov/Publications/Report/4149
Transportation Budget Priorities

SB 1 Revenues Mostly Support State Highways and Local Streets and Roads
2020-21

Source: Ca Legislative Analysts Office: https://lao.ca.gov/Publications/Report/4149#:~:text=The%20Governor%27s%20budget%20provides%20a,and%20programs%20in%202020-21%20%E2%80%91. Specifically, the budget includes $15 billion for state highways, $2 billion for local streets and roads, $1 billion for transit, and $1 billion for other purposes.

Total = $5 Billion
Public Transit

• We all depend on public transit because we are dependent on the people who rely on transit to be where they are supposed to be... workers at hospitals, schools, grocery stores, and other service sector operations.
Trends
Ridehailing

Image credit: https://brazilian.report/business/2019/05/16/ride-hailing-apps-car-rental/
# Trends

## Micromobility

### TYPES OF POWERED MICROMOBILITY VEHICLES¹

<table>
<thead>
<tr>
<th></th>
<th>Powered Bicycle</th>
<th>Powered Standing Scooter</th>
<th>Powered Seated Scooter</th>
<th>Powered Self-Balancing Board</th>
<th>Powered Non-Self-Balancing Board</th>
<th>Powered Skates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center column</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Possible</td>
<td>N</td>
<td>N</td>
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<tr>
<td>Seat</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Operable pedals</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Floorboard / foot pegs</td>
<td>Possible</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Self-balancing²</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Possible</td>
</tr>
</tbody>
</table>

¹All vehicles typically designed for one person, except for those specifically designed to accommodate additional passenger(s)

²Self-balancing refers to dynamic stabilization achieved via a combination of sensors and gyroscopes contained in/on the vehicle

Infographic Credit: https://urbanmobilitydaily.com/a-new-micromobility-taxonomy-gives-names-for-those-things-on-the-sidewalk/
What do we need?
Change can happen fast!

NYC 1900

NYC 1910
Thank you!

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