Who Am I?

- Principal with Fehr & Peers
- Worked on CAP’s and GHG inventories throughout California
  - Large scale regional GHG inventories
  - Small city CAP’s and GHG studies
- Member of the AEP Climate Change Committee
Presentation Outline

- Transportation measures
- Sources of monitoring data
- Integrating regional plans
- Lessons learned
Monitoring Transportation Measures

- Not as straightforward as other items like building energy
- No one-stop shop to get all transportation data
- Typical measures
  - Land use
  - Transit
  - Alternative Transportation
  - Travel Demand Management
- Influence on behavior is often indirect
Measure T-3: End of Trip Facilities

Encourage use of non-motorized transportation modes by providing appropriate facilities and amenities for commuters.

2020 GHG Reduction Potential: 1,119 MT CO₂e/yr
2035 GHG Reduction Potential: 1,491 MT CO₂e/yr

<table>
<thead>
<tr>
<th>WRCOG Participation Level:</th>
<th>Platinum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation Status:</td>
<td>In progress</td>
</tr>
<tr>
<td>Relative Cost Effectiveness:</td>
<td>High (Limited cost to the City since any incremental costs associated with these facilities would be related to the development or redevelopment of individual sites)</td>
</tr>
<tr>
<td>Synergy with RRG-EPAP:</td>
<td>Low</td>
</tr>
<tr>
<td>Ease of Implementation:</td>
<td>High</td>
</tr>
<tr>
<td>Responsibility:</td>
<td>Public Works Department; Community Development Department, Planning Division</td>
</tr>
<tr>
<td>Objectives:</td>
<td>By 2020: Amend zoning code to require installation of end-of-trip facilities for new commercial buildings greater than 50,000 square feet.</td>
</tr>
</tbody>
</table>
How Do You Measure Implementation?

- Do you track if the measure was implemented?
- Do you track behavioral changes?
- Do you track changes in the physical environment?
Transportation Data

- VMT data from travel models
- Mode split data
- Travel survey data
- ACS and LEHD
- Desired characteristics
  - Have access to Base Year Data
  - Should have reasonable confidence data will be available in future
  - No significant change in collection process
Inflow/Outflow Report
Primary Jobs for All Workers in 2013

Inflow/Outflow Counts of Primary Jobs for Selection Area in 2013
All Workers

Data Source - LEHD
Regional Land Use/Active Transportation Data
Working with Regional Plans

Regional Transportation Plan 2012-2035 RTP
Sustainable Communities Strategy
Towards a Sustainable Future

Thank you for using the Download/Print Dashboard for the 2012-2035 RTP/SCS by The Southern California Association of Governments. In this document are PDFs of the Final 2012-2035 RTP/SCS.
Challenges

- Regional Plans tend to be long and complex documents
- Simultaneously both very general and very specific
- Relevant information is often difficult to extract
- Regional agencies may not be aware of everything in their documents
<table>
<thead>
<tr>
<th>Commitment</th>
<th>Indicator</th>
<th>Data</th>
<th>Geographic Scale</th>
<th>Sources</th>
<th>Readily Available</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Lesson Learned #1- Process vs. Outcome

• Process- Did someone do what they said?
  – Develop a bike plan
  – Implement transit system expansion

• Outcome- Did something change?
  – Is VMT going down?
  – Are walking and biking trips going up?

• Good implementation plans should do both
Lesson #2- Leverage Available Data

- Regional agencies have access to a wide variety of data
- Should consult with these agencies to see what is available off the shelf
- Private vendors may be good sources for data
- Publicly available data via the web or apps is increasingly common
Lessons Learned #3- Be Straightforward

• Avoid overly complicated methodologies that are difficult to reproduce
• Recognize that you may not be able to collect perfect data
• Focus on what your agency already collects and how you can leverage that
Questions?