Land Use, Air Quality and the CAMPO 2035 Plan

Clean Air Coalition
June 9, 2010
How Land Use Impacts Air Quality

Land Use → Vehicle Miles Traveled → Air Quality

Land Cover
Land Use Impact on Vehicle Miles Traveled

• A connected local street network can reduce VMT by up to 57%.

• Infill development can result in 15% to 52% less VMT than similar development on a greenfield site.

• Balanced jobs and housing can reduce the length of the average commute by 7% to 30%.

Land Use Impact on Vehicle Miles Traveled

- Workers who take transit to a suburban activity center:
  - Typical Center: 0.5%
  - Transit Oriented Center: 8.8%

- Probability that someone who lives less than a mile from work walks or bikes there:
  - single-use setting: 30%
  - mixed-use setting: 60%

How Land Use Policies Could Impact Air Quality in Austin

How Land Use Policies Could Impact Air Quality in Austin

“Transportation and land use policies were predicted to have substantial impacts on travel and emissions of ozone precursors. The business-as-usual scenario predicted an 85%-90% increase in VMT in 2030 relative to a 2007 Base Case. In contrast, the increase in VMT under the road pricing and urban growth boundary policies was only 60%. Emissions of ozone precursors decreased markedly for all 2030 scenarios due to the implementation of more stringent federal motor vehicle emission control programs, but transportation and land use policies were predicted to lead to even greater reductions, by about 15%, of emissions relative to the business-as-usual scenario.”

CAMPO 2035 Plan: Performance of Alternative Scenarios

<table>
<thead>
<tr>
<th>Measures</th>
<th>No Build</th>
<th>Trend</th>
<th>Centers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Miles Traveled Per Person</td>
<td>23.1 miles</td>
<td>23.1 miles</td>
<td>22.5 miles</td>
</tr>
<tr>
<td>Emissions-VOC</td>
<td>19.93 tpd</td>
<td>19.21 tpd</td>
<td>18.68 tpd</td>
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<tr>
<td>Emissions-NOx</td>
<td>14.39 tpd</td>
<td>14.21 tpd</td>
<td>13.74 tpd</td>
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CAMPO 2035
Plan: Centers Concept

Accommodate Growth in Centers:

<table>
<thead>
<tr>
<th></th>
<th>Current</th>
<th>2035 Target</th>
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</thead>
<tbody>
<tr>
<td>Population</td>
<td>16%</td>
<td>31%</td>
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<tr>
<td>Employment</td>
<td>36%</td>
<td>38%</td>
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Spend 50% of available CAMPO discretionary funding to support Centers.
Thanks!

www.campotexas.org

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