Sustainable Transportation
Sustainability

“Meets the needs of the present without compromising the ability of future generations to meet their own needs”


Sustainable Transportation

“Transport that meets current transport and mobility needs without compromising the ability of future generations to meet these needs.”

Black, 2005
Three Pillars of Sustainability

Society

Economy

Environment
Non-sustainable Components of Transportation

1. Diminishing petroleum reserves
2. Global atmospheric impacts
3. Local air quality impacts
4. Fatalities and injuries
5. Congestion
6. Noise
7. Biological impacts
8. Inequity
Learning from France

3,071
per sq mi

54,300
per sq mi

Photo Credit: Google Maps
Planning for Walking/Cycling

Source: Transportation Research Board, Table 2-2, pg. 30
Street Life in Paris

Photo Credit: www.paris-tours-guides.com
Street Life in Paris

Photo Credit for Street Life in Paris Pictures: Omaya Ahmad, 2009; http://www.wsws.org
Bicycle Infrastructure

Photo Credit: Eric Richardson

Photo Credit: Josh Marks
## Metro Comparison

<table>
<thead>
<tr>
<th></th>
<th>Paris</th>
<th>Phoenix</th>
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<tbody>
<tr>
<td>• Opened</td>
<td>• Opened in 1900</td>
<td>• Opened in 2008</td>
</tr>
<tr>
<td>in 1900</td>
<td>• Runs 133 miles in length</td>
<td>• Runs 20 miles in length</td>
</tr>
<tr>
<td>• Runs</td>
<td>• 301 stations</td>
<td>• 32 stations</td>
</tr>
<tr>
<td>133 miles</td>
<td>• Daily ridership is 4,500,000</td>
<td>• Daily ridership is 41,300</td>
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<td>in length</td>
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Bus

Rouen, France

Photo Credit: Aaron Golub, 2012
Quick Activity: Sustainable Transport Wish List

Places
1. Desert Vista Area
2. Your neighborhood
3. A shopping district
4. Downtown Phoenix

Alternative Transportation
- Walking
- Cycling
- Transit

*Goal is to improve levels of sustainable transportation*