7 Billion and Counting:
Where do we grow from here?

Population Connection, 2011
The Demographic Transition Model

Population Connection, 2011
Population and CO₂ Emissions

CO₂ Emissions in Millions of Metric Tons

Data: Carbon Dioxide Information Analysis Center, Oakridge National Laboratory; Population Reference Bureau

Population Connection, 2011
Energy Use Uneven Across the Globe

Barrels of oil equivalent per capita


High income countries Medium income countries Low income countries

Data: International Energy Agency

Population Connection, 2011
Number of Ocean "Dead Zones"

- 49 in the 1960s
- 87 in the 1970s
- 162 in the 1980s
- 290 in the 1990s
- 500 by 2010

Data: Diaz And Rosenberg, Science Magazine, August 2008

Population Connection, 2011
Caribbean Coral Reefs

Percent of coral that are live

- 1970: 40%
- 1980: 25%
- 1990: 21%
- 2000: 14%

Data: Convention on Biological Diversity

Population Connection, 2011
Extent of Tropical Rainforest

Data: FAO

Population Connection, 2011
Meat Consumption

Per Capita Meat Consumption (lbs)
- 92 lbs
- 46 lbs

Total Meat Consumption (million metric tons)
- 1961: 3.1 Billion
- 1974: 4 Billion
- 1987: 5 Billion
- 1999: 6 Billion
- 2008: 6.7 Billion

Data: FAO

Population Connection, 2011

Paper/Paperboard Consumption

Per Capita Paper/Paperboard Consumption (lbs)
- 128 lbs
- 55 lbs

Total Paper/Paperboard Consumption (million metric tons)
- 1961: 3.1 Billion
- 1974: 4 Billion
- 1987: 5 Billion
- 1999: 6 Billion
- 2008: 6.7 Billion

Data: FAO
Number of earths needed for human needs:

- 1961: 0.6 earths (3.1 billion)
- 1974: 1.0 earths (4 billion)
- 1987: 1.1 earths (5 billion)
- 1999: 1.3 earths (6 billion)
- 2007: 1.5 earths (6.6 billion)

Data: Global Footprint Network; World Wildlife Fund

Population Connection, 2011
Population Under Water Shortage

Average volume of water available
- Moderate Water Shortage: (1000-1700 m³/capita/yr)
- High Water Shortage: (500-1000 m³/capita/yr)
- Extreme Water Shortage: (<500 m³/capita/yr)

Percent of world population

Data: Matti Kummu, Water and Development Research Group, Aalto University, Finland; environmentalresearchweb.org

Population Connection, 2011
Number of Undernourished People in the World

Source: Food and Agriculture Organization of the UN (FAO); 2009 and 2010 are estimates.

Population Connection, 2011
Improving Child Health in Low Income Countries

Data: World Health Organization

Population Connection, 2011
## State of the Global Family
### Then and Now

<table>
<thead>
<tr>
<th>Category</th>
<th>1960</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population</td>
<td>3 billion</td>
<td>7 billion</td>
</tr>
<tr>
<td>Population Growth Rate</td>
<td>1.8%</td>
<td>1.2%</td>
</tr>
<tr>
<td>Life Expectancy</td>
<td>51 years</td>
<td>70 years</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>5 children</td>
<td>2.5 children</td>
</tr>
<tr>
<td>Urban Population</td>
<td>34%</td>
<td>51%</td>
</tr>
<tr>
<td>Median Age</td>
<td>23</td>
<td>29</td>
</tr>
<tr>
<td>Child Mortality Rate (under 5)</td>
<td>191/1,000</td>
<td>61/1,000</td>
</tr>
<tr>
<td>Average Years of School</td>
<td>3.7</td>
<td>7.8</td>
</tr>
<tr>
<td>Women in Parliaments (% of total seats)</td>
<td>8</td>
<td>19</td>
</tr>
<tr>
<td>CO₂ Emissions (metric tons)</td>
<td>2.6 billion</td>
<td>8.4 billion</td>
</tr>
<tr>
<td>Atmospheric Concentration of CO₂ (ppm)</td>
<td>317</td>
<td>390</td>
</tr>
<tr>
<td>Paper Consumption (millions of metric tons per year)</td>
<td>78</td>
<td>388</td>
</tr>
<tr>
<td>Meat Consumption (millions of metric tons per year)</td>
<td>71</td>
<td>293</td>
</tr>
<tr>
<td>World Fertilizer Consumption (millions of metric tons per year)</td>
<td>27</td>
<td>163</td>
</tr>
<tr>
<td>World Fish Catch (millions of tons per year)</td>
<td>36</td>
<td>90</td>
</tr>
<tr>
<td>Percentage of Population Facing Chronic Water Shortages</td>
<td>9</td>
<td>35</td>
</tr>
<tr>
<td>Number of Passenger Cars</td>
<td>100 million</td>
<td>700 million</td>
</tr>
<tr>
<td>Ecological Footprint (No. of Earths needed to meet human demands)</td>
<td>0.6</td>
<td>1.5</td>
</tr>
<tr>
<td>TVs per 1,000 people</td>
<td>64</td>
<td>270</td>
</tr>
<tr>
<td>Internet Users</td>
<td>0</td>
<td>2 billion</td>
</tr>
<tr>
<td>Mobile Phone Subscriptions</td>
<td>0</td>
<td>5 billion</td>
</tr>
</tbody>
</table>

Population Connection, 2011