

Sustainable Transportation

LINDA SEALS, UF/IFAS EXTENSION BREVARD COUNTY

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What does sustainable transportation mean to you?

How many highway miles are in the United States (2013)?

- 4,115,462

How many airports (private and public) are in the United States as of 2014?

- 19,299

How many automobiles are registered in the United States (2013)?

- 255,876,822

How many new and used vehicles sold in 2010?

- 51,534,000

How many of those were hybrid vehicles?

- 507,272
- 

Florida

All public roads: 116,649 miles

Interstate: 1,471 miles

Road bridges: 11,182

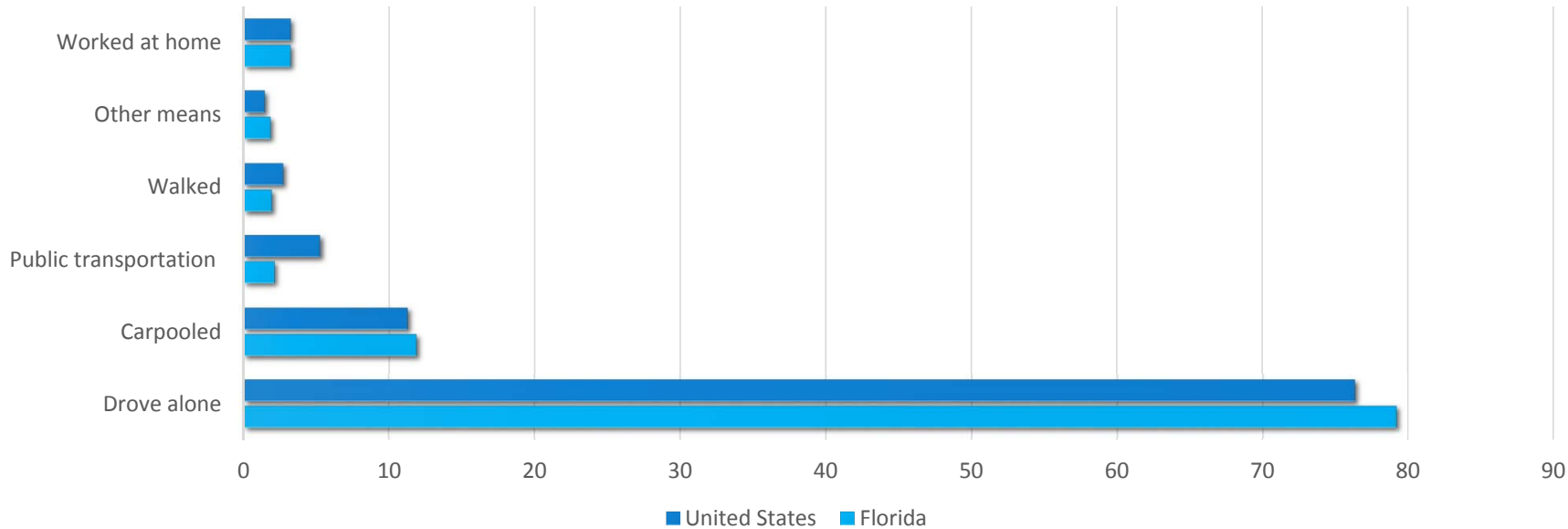
Class I railroad trackage: 1,895 miles

Inland waterways: 1,540 miles

Public use airports: 126 (31 certificated for air carrier operations)

How do we get to work?

Commuting to Work 2000



Brevard County

Total paved road miles (county)

- 1,116

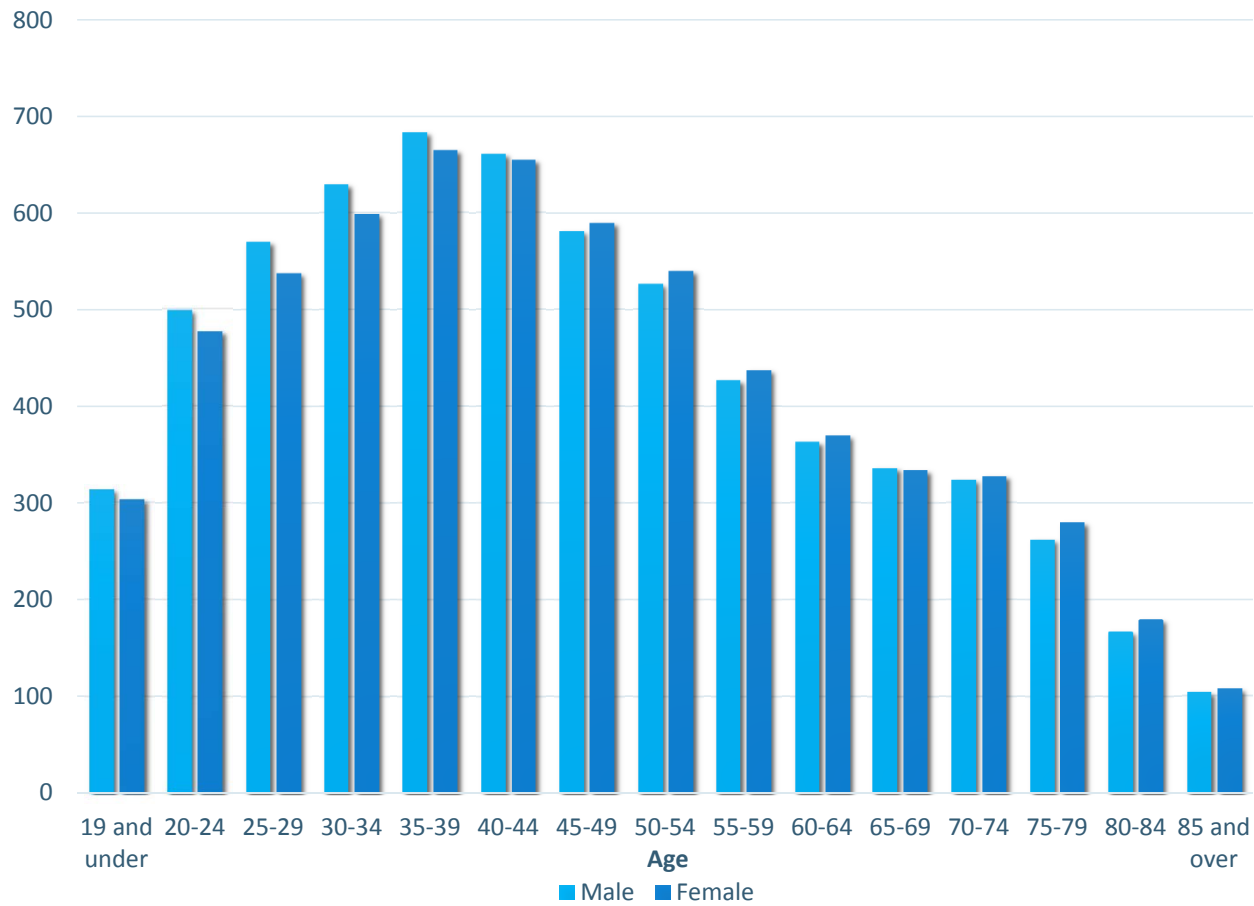
Total city roads (paved and unpaved)

- 1,903

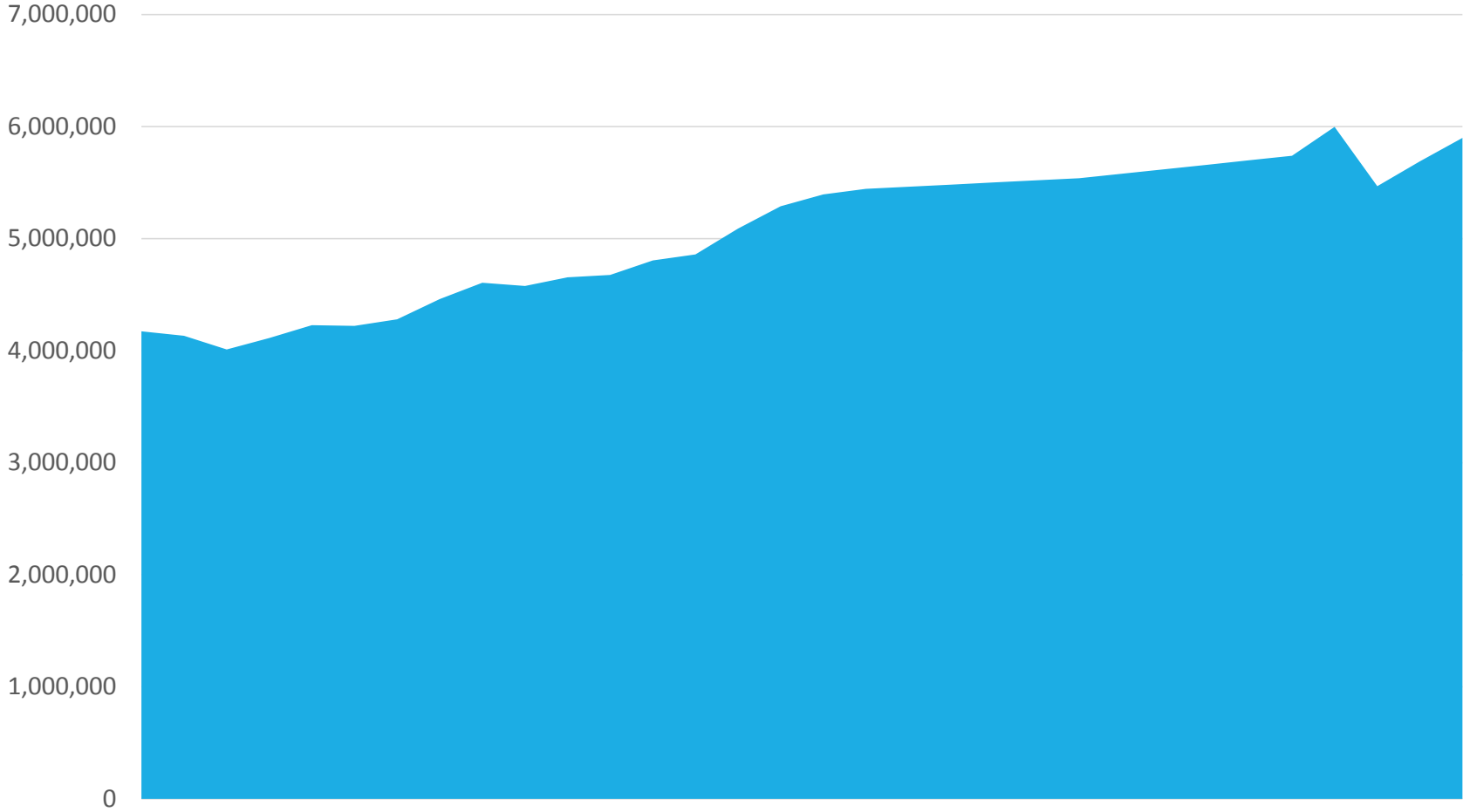
Total road miles

- 3,019

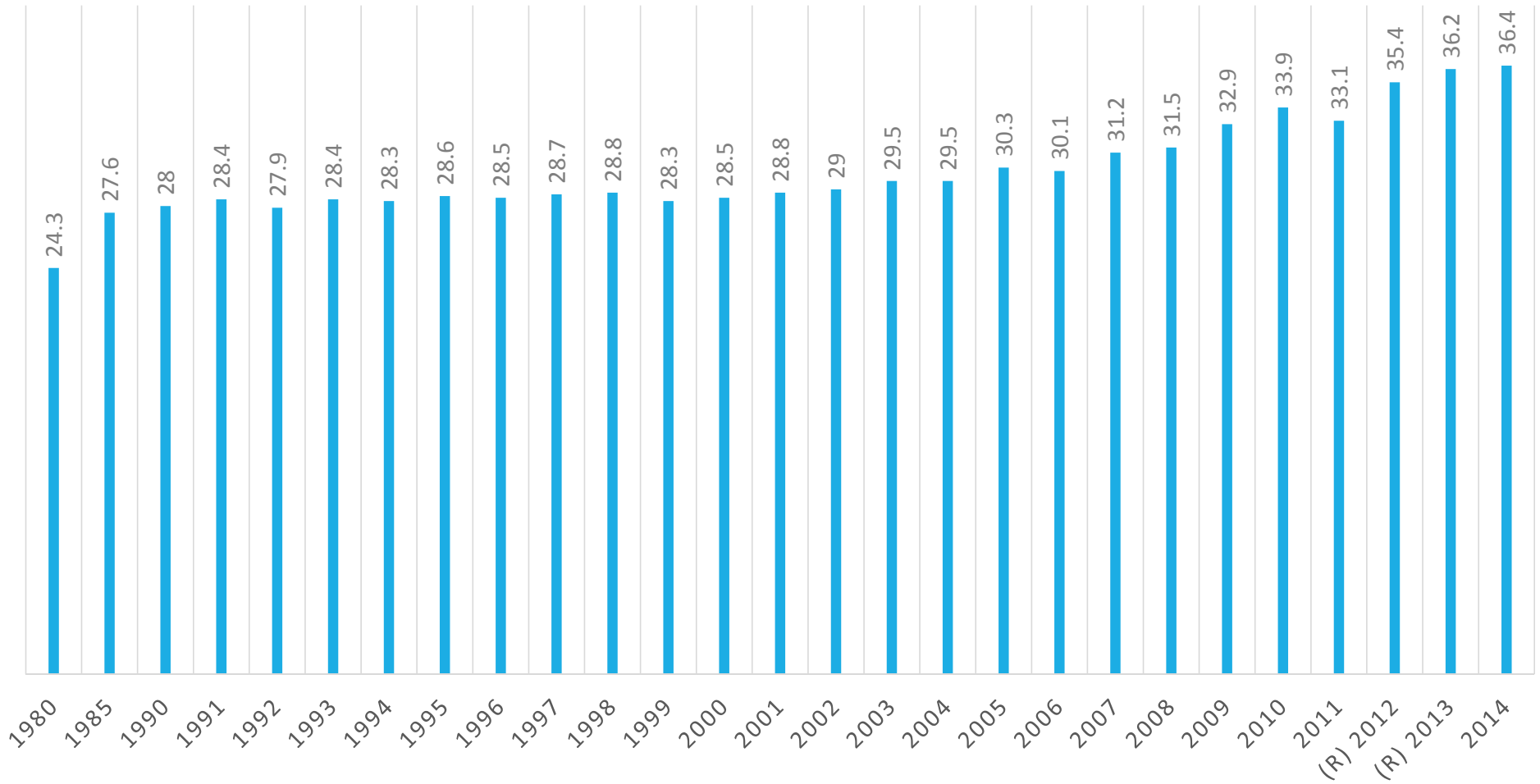
Licensed Drivers in Florida by Age and Sex: 2000



TOTAL U.S. ton-miles of freight 1980 - 2011

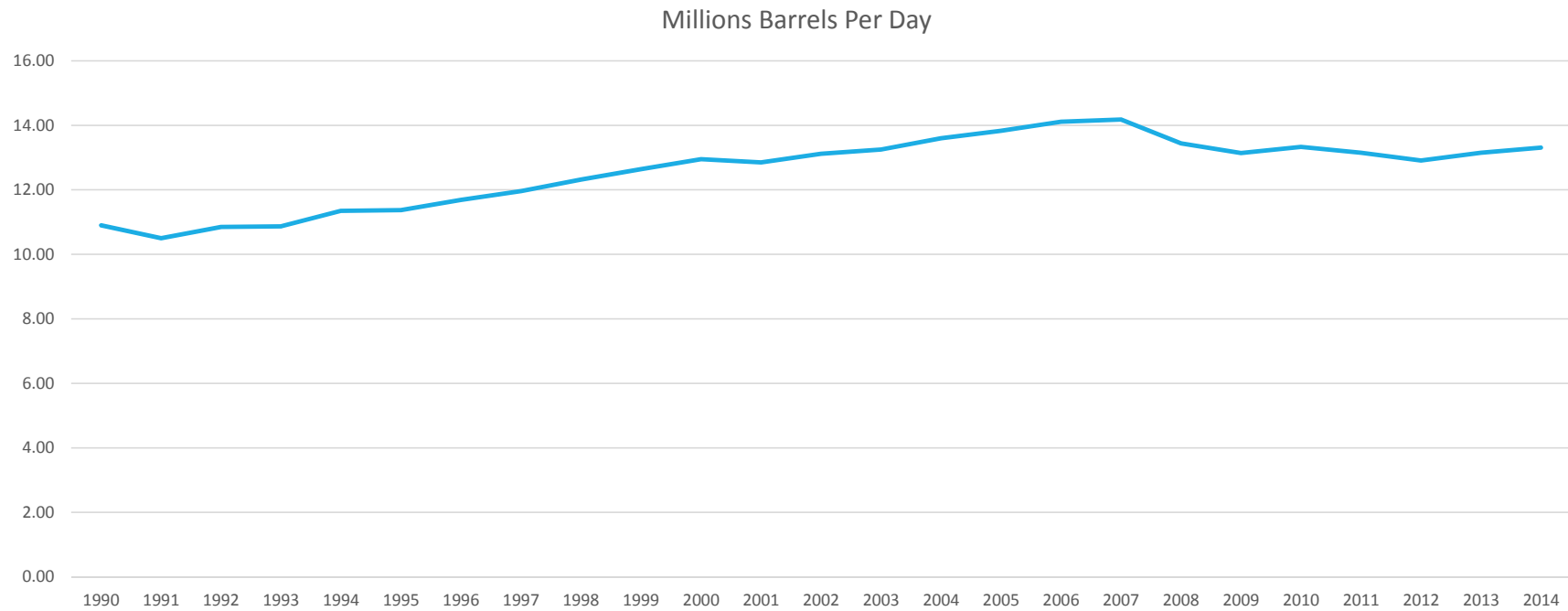


PASSENGER CAR FUEL EFFICIENCY



<https://www.transportation.gov/>

Consumption of Petroleum by End-Use Sector, 1990–2014



DYK?

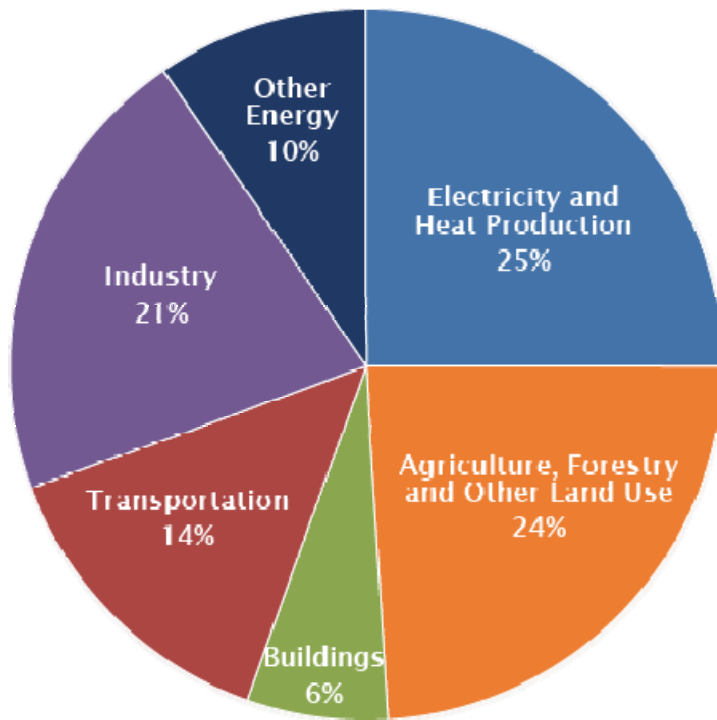
Highway vehicles were responsible for 86.4% of all transportation petroleum use in 2013.



Miami-Dade/Broward/Palm Beach region in 12th place of 15 urban areas with the worst traffic congestion in the nation.

Miami-Dade = 11th place

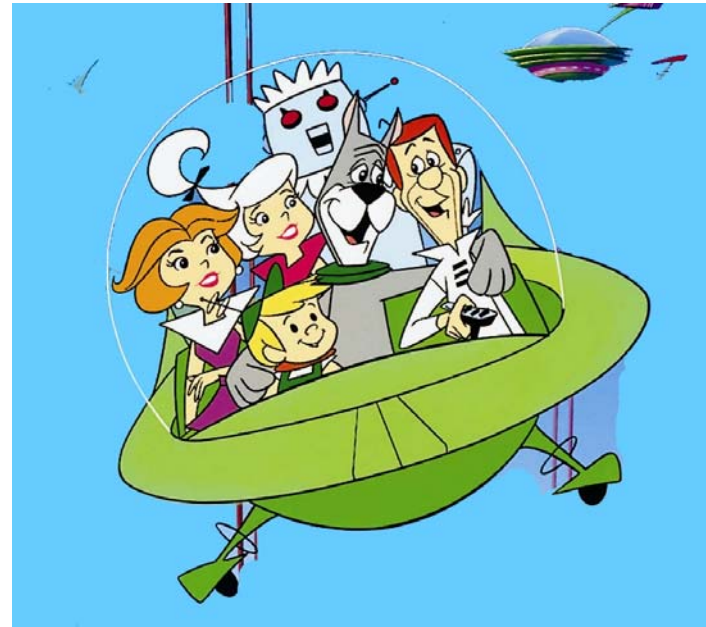
Global Greenhouse Gas Emissions by Economic Sector



<http://www3.epa.gov/climatechange/ghgemissions/global.html>



What does the future look like?



Self-driven
autos

Truck
platooning

Alternative
fuels

Hybrids

Electric



What's Elon up to?



Hyperloop

- Ultra-fast, city-to-city transport system that could get you from San Francisco to Los Angeles in just 35 minutes.
- Elevated steel tube containing aluminum capsules
- Travels 760 mph
- Powered by solar energy