

World Population 1900 – 2050



1900 **1.65 billion**

1950 **2.5 billion**

2005 **6.5 billion**

2050 **9.2 billion**

Needs:

- food
- energy
- water
- construction materials
- etc

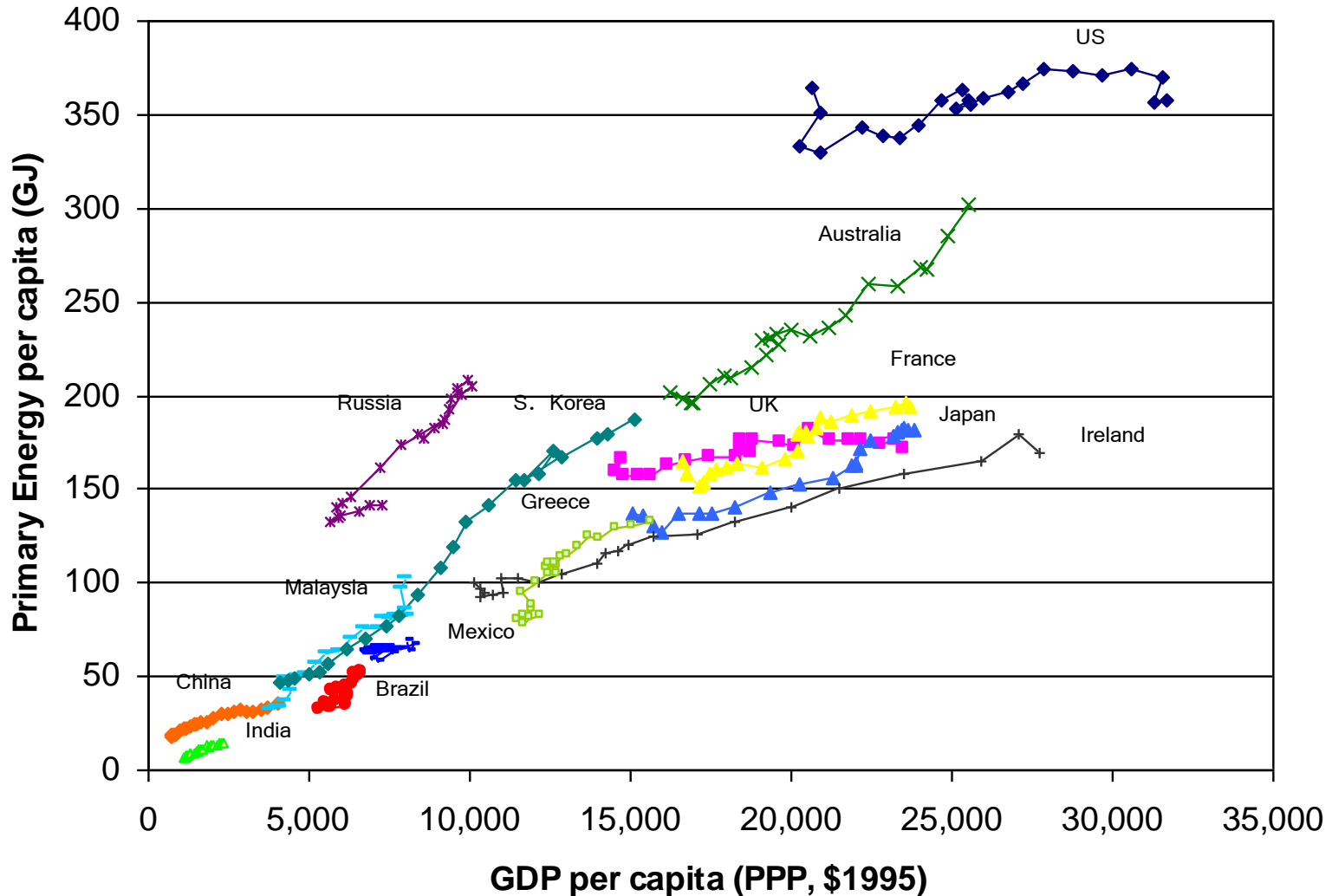
Waste:

- sewage
- emissions (inc. GHG and LAQ)
- landfill
- etc

energy use grows as a function of GDP



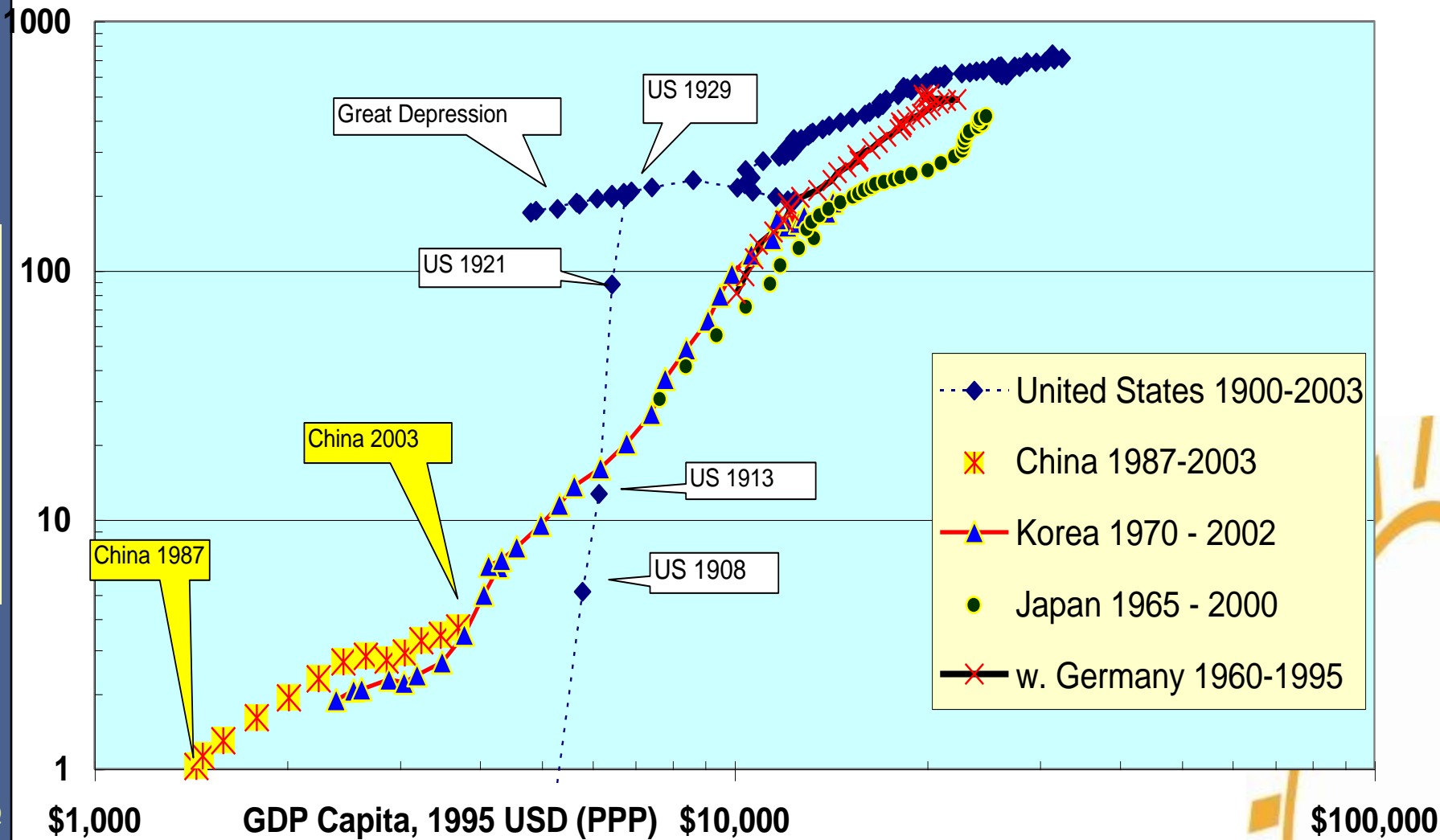
Energy demand per capita and GDP per capita (1980 - 2002):





China's Car Ownership per person today = USA in 1913: Is China On a Collision Course with Itself?

Cars, SUVs/ 1000 people



Source: *EMBARQ*

Transportation: 3 options

