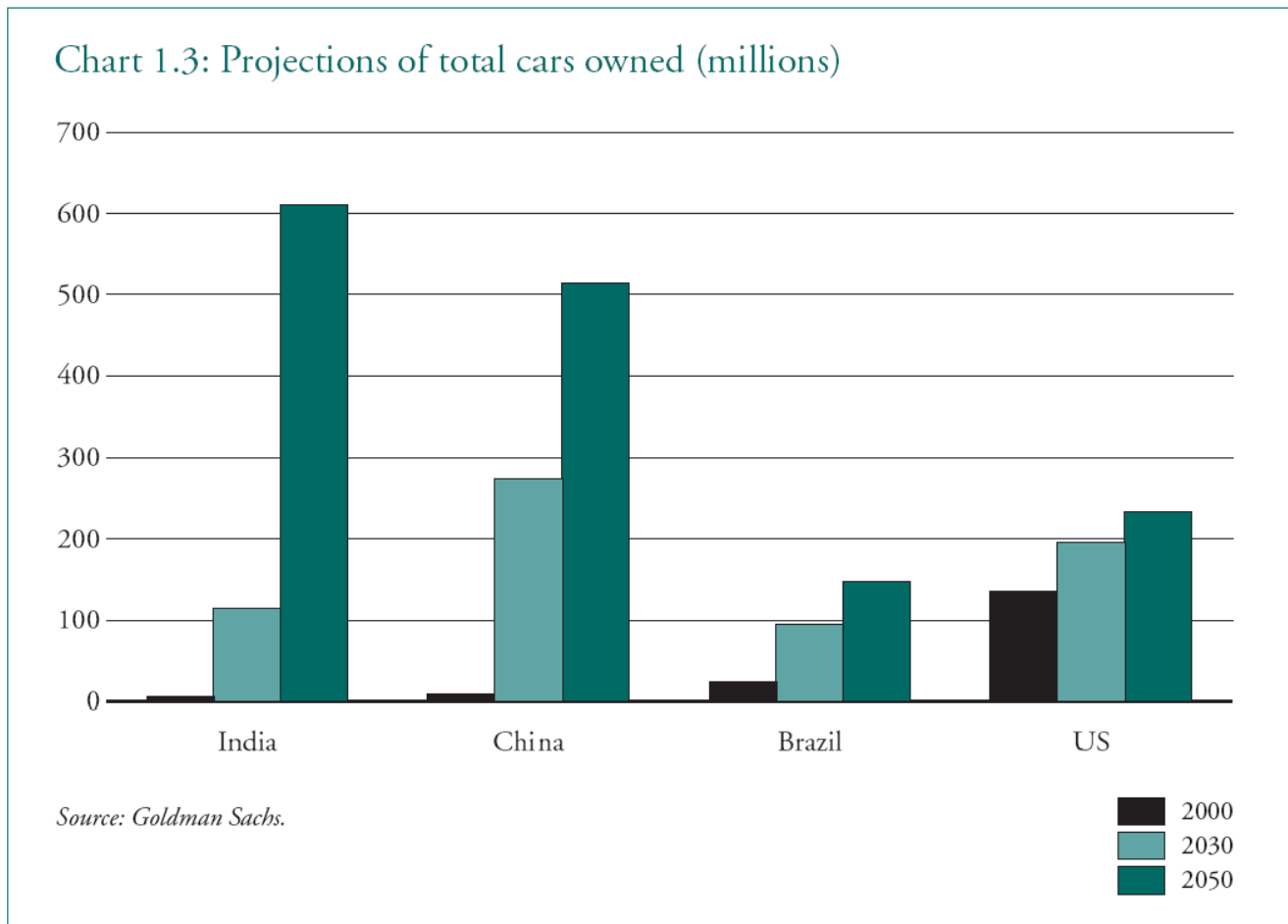


What are the precedents for CO₂ reduction?

- Annual reductions of greater than 1% p.a. have only ***“been associated with economic recession or upheaval”***

Stern 2006

- Collapse Soviet Union economy ~5% p.a. reductions





Hybrids

**Do HEVs
need Li?**

Plug-in Hybrids

<p>C/LiMn₂O₄ C/LiFePO₄</p>	<p>C/NMC <i>etc</i> Titanate anodes</p>	<p>New Anodes/ New Cathodes</p>	<p>Li(Si) - air Li(Si) - S Zn - air other?</p>
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- Explore several options
- Basic science
- Don't pick winners

Reduce cost, size, weight

Domestic infrastructure insufficient

Invisible charging

Pure EV

Fuel cells
(still a hybrid!)

**Do we
need pure EV?**

**Charging
times?**