The Chinese Economy: Past and Future

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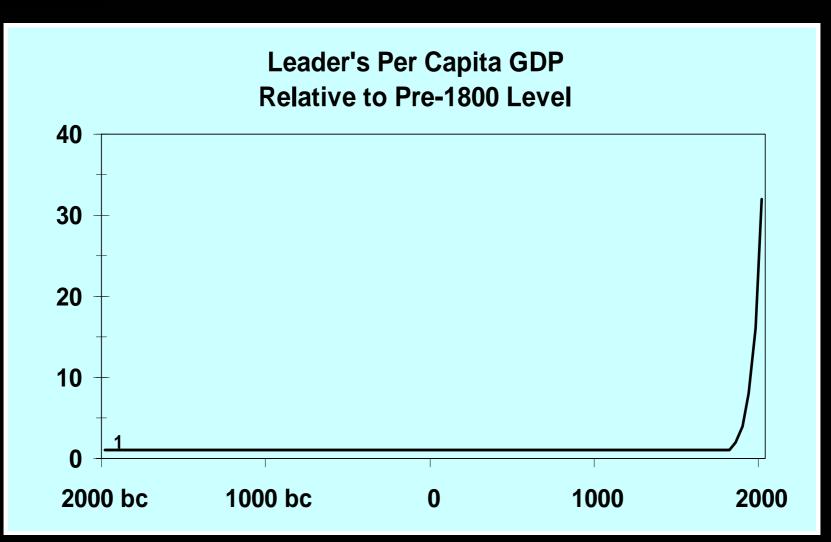
Prior to 1700, constant living standard varied little across countries and over time.

After 1700, living standards began to increase in some countries.

After 1850, they doubled every 35 years – modern economic growth.

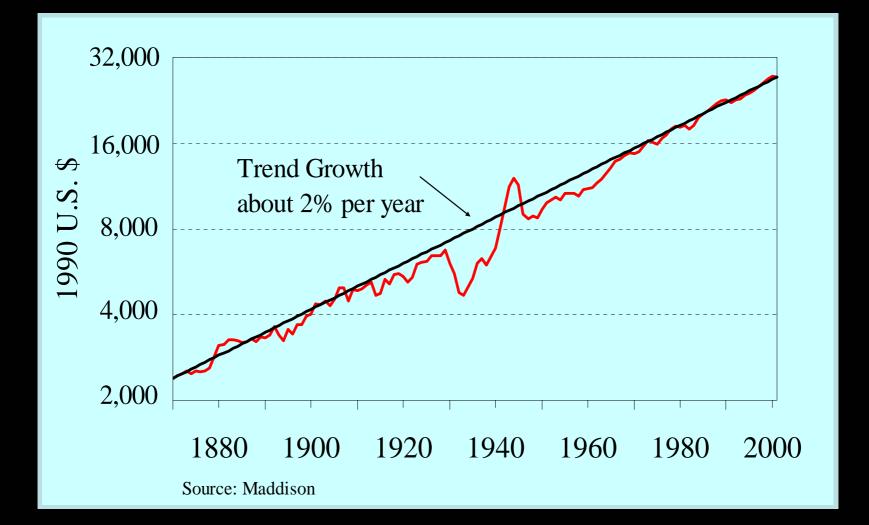


Explosive Growth Post-1800





U.S. Per Capita GDP





England entered modern growth first, U.S. and Western Europe a little later.

China entered much later (post-1950).

As a result, China is not now among rich nations.

Some late starters have caught up.

China has been catching up.



China Leader in Song Dynasty 960 - 1279

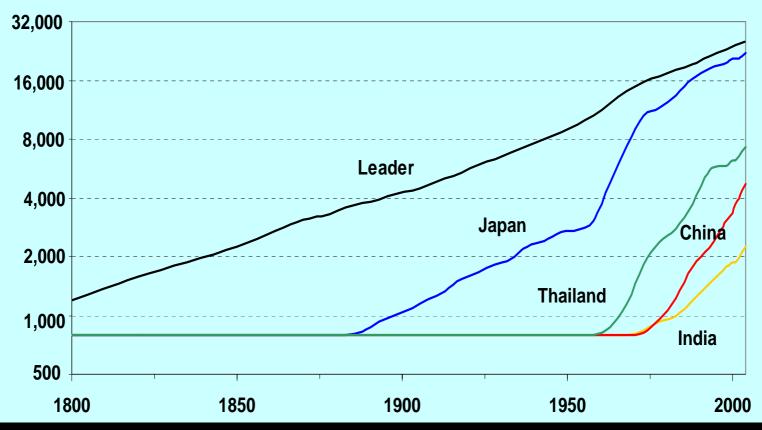
Doubled population and per capita income.

High rate of technical innovation.

Technical regression set in with the Ming and Qing Dynasties (1368 – 1911).

Different Countries Start at Different Times

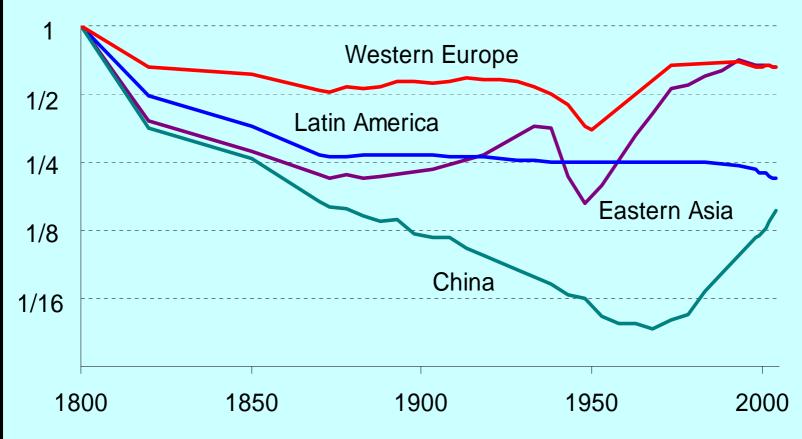
Per Capita GDP Trends (1990 U.S. \$)





Regional Growth Patterns

Income: Fraction of the Leader, 1800-2004





Land crucial to production. Trade-off between living standards and population size.

Increases in stock of useable knowledge lead to increase in output. But, this is offset by population increase.



No trade-off between increases in living standards and population size.

Increases in stock of useable knowledge lead directly to increases in living standards.

Key feature is the use of fossil fuels for energy rather than land.



Problem with Theory

Why didn't all countries start modern economic growth at the same time?

Parente and Prescott's theory: A society's productivity also depends on the set of constraints it imposes on its businesses.



Constraints exist to protect industry insiders with vested interest in current production processes.

Being more efficient hurts industry insiders when that industry faces inelastic demand for its product.



Why Country Barriers Differ

Question: What arrangements have property that it is **not** in best interest of industry insiders to block use of a better technology?

Answer: Being a member of a free trade club.



- A set of states constitutes a free trade club if
 - Members cannot impose tariffs and restrict imports from other members.
 - Members have a considerable degree of economic sovereignty from collective entity.
 - Countries protect property rights of other member states.



Why Openness Results in Fewer Constraints

Exporters face elastic demand.

Domestic industry face competition from foreign firms entering the industry.

Just threat of entry may suffice.



U.S. Golden Economic Era 1865-1929

Per capita income in U.S. went from 75% of U.K.'s in 1865 to 125% of U.K.'s. in 1928.

Why: U.S. became a free trade club.



E.U. Level Relative to U.S.

Year	Original E.U.
1870	62
1913	53
1929	52
1959	53
1973	78
1983	84
1993	102
2002	101



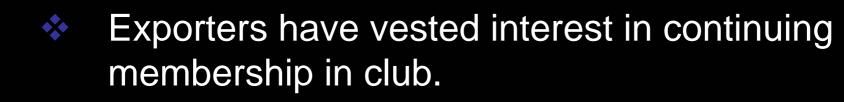
Why Did the Original E.U. Countries Catch Up?

Answer: Original E.U. countries became a free trade club like U.S. in 1957.



Why Being in a Free Club Fosters Higher *Productivity*

- No centralized mechanism to block adoption of better production processes in all member states.
- Export industries in state face elastic demand; implies employment increases when efficiency increases; thus, no vested interests in inefficiency.





Another Reason

- States without groups that will be hurt and with groups that will benefit want the better technology adopted in their state.
- Example: Toyota in 1985 located automobile plant in Kentucky introducing just-in-time production in U.S. A powerful construction industry wanted a construction project. Kentuckians wanted high paying jobs in auto plant. The same thing happened in Wales.



Why didn't Latin America Catch Up?

Latin America is not a free trade club.

If it became one, it would catch up.



Non Free Club Members Can Be Rich



South Korea and Taiwan are rich.



Japan is rich.



Singapore is rich.

Hong Kong, Chile, N.Z., Australia, Canada, Norway, Switzerland, Slovenia, Cyprus, & Puerto Rico also.



- Why: Many small open integrated countries have a vested interest in maintaining openness and it is maintained.
- Long term economic prospects for Hong Kong economy are good.
- But, China and India are not small.



Can China sustain openness when rapid growth ceases and is hit by a bad shock?

Or will it stagnate and regress as happened in the Ming and Qing Dynasty?

I see more hope for India than China in weathering a storm.



- Reform its banking system.
- Eliminate credit controls.
- Then start pegging its price level as in done in the major economies and many small ones.







- Openness good; trade volumes not critical.
- Trading clubs promote and sustain openness.
- Mainland China will become one of the rich industrial countries if only if it decentralizes political power.
- Becoming open and moving to a market economy is the reason it has been experiences rapid economic growth since the late 1970s.