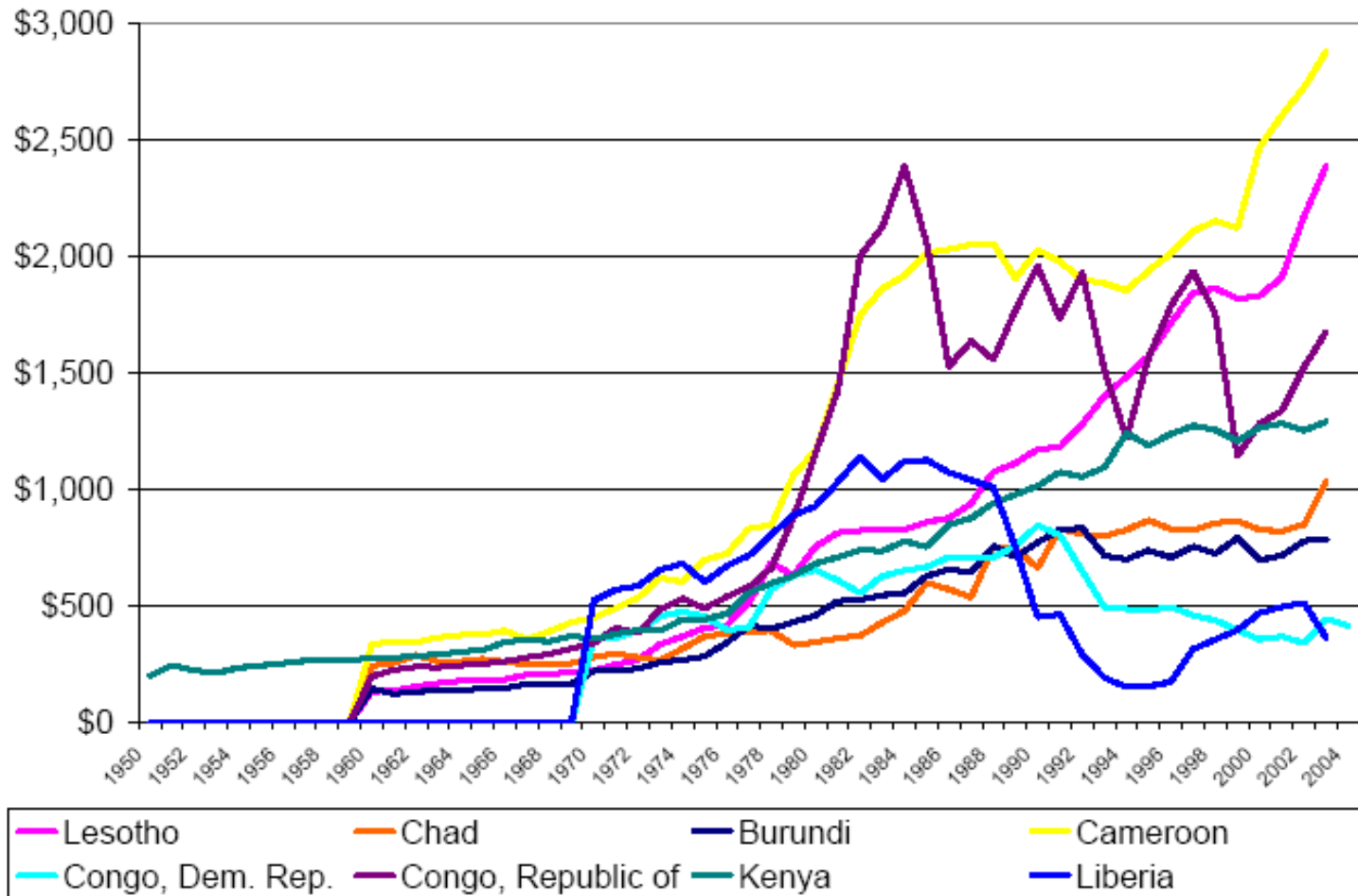


Long-Run Policy Consistency and the Growth of Nations

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Lima, December 9, 2008

Real GDP per capita: Africa



Overview of Talk

- Framework of modern macroeconomics:
Models with people
- Fundamental economic reason policy
may be inconsistency over time
- Examples of where it may hit badly
- Lessons from Argentina and Ireland
- What fosters/hampers economic growth and
development?

- Models inhabited by millions of people

Characterized by preferences over goods and leisure into the indefinite future

Budget (resource) constraints

Model economies are explicit about people's dynamic decision problems

- Models contain thousands of businesses

Aggregate production function

$$\text{GDP}_t = Z_t F(K_t, L_t)$$

Technology for converting inputs of capital and labour into output of goods and services

Technological change

- Government in such an economy:
Recent examples

Monetary changes not potent
to jumpstart the economy

Fiscal policy: Temporary tax cuts
have little effect. Investment in
infrastructure better

- Focus on government with its budget constraint

Suppose the government has an objective, say, to maximize some measure of welfare over time

Theoretical result:

The optimal government policy generally is inconsistent over time; requires a **commitment mechanism** in order to be implemented. Alternative outcomes can be very bad.

- Fundamental reason for inconsistency:

Planning for today and the future, the optimal government policy takes into account current and future private decisions, which in turn depend on current and anticipated future government policy.

When the future arrives, private decisions up until then have already been made, implying a temptation, even for a benign government, to change its policy from then on.

- Where is that temptation the greatest?

Increasing tax on physical and human capital

Partially renege (default) on government debt through surprise inflation

Examples of mechanisms used in practice by governments to attempt to tie their own hands (not necessarily successfully!)

- (i) Gold Standard
- (ii) Currency Board
- (iii) Independent Central Banks

- Inflation targeting

How likely to work in the long run?

Equivalent to price-level targeting? No!

- Main driving force for economic growth:

Innovative activity and technological change;
much knowledge available all over the world

- But cannot live by technological change alone

Need incentives to invest in new capital,
physical (structures and equipment) and human

Government policy may be a crucial factor,
positive or negative, for such growth

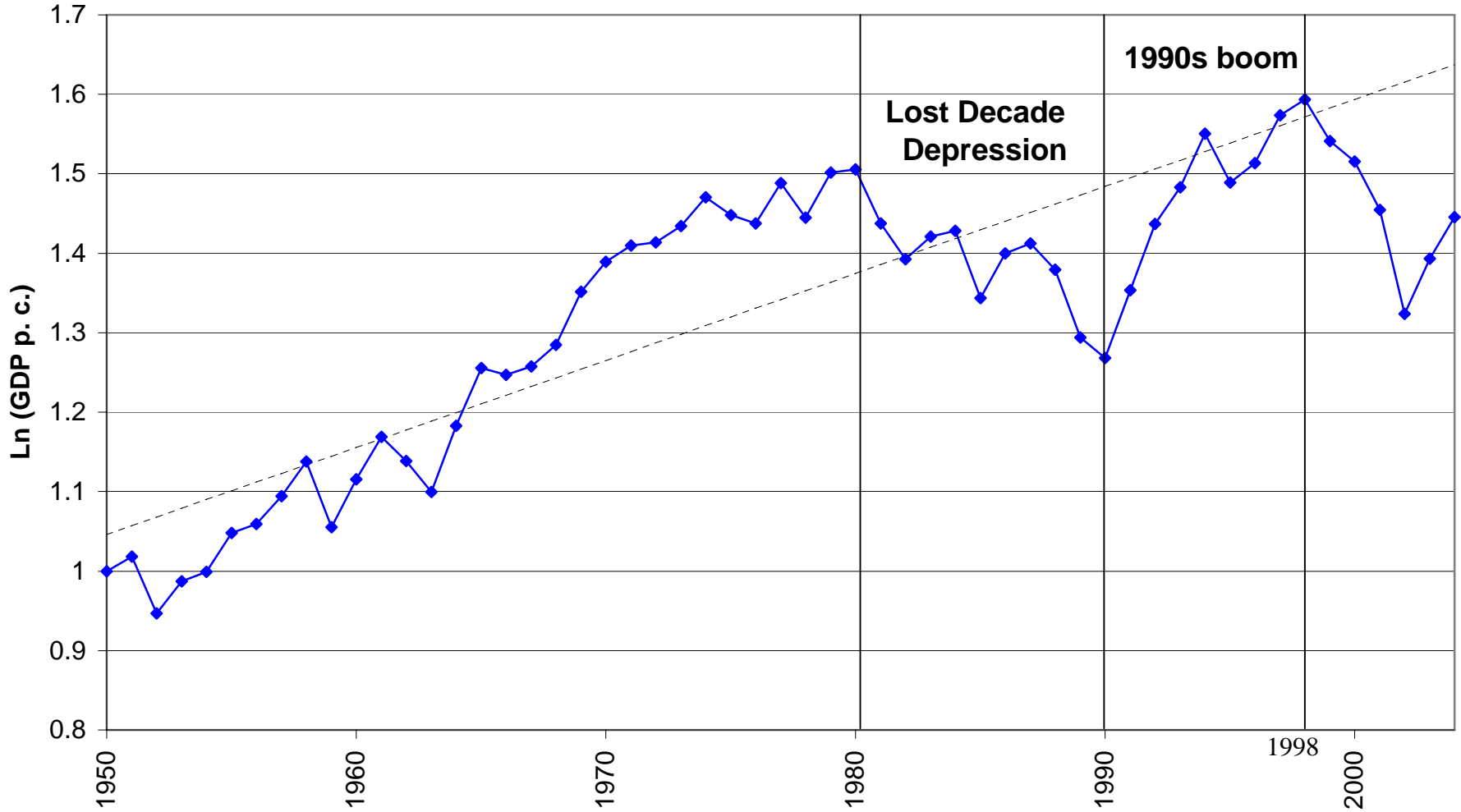
Examples:

Argentina in the 1990s

Ireland in 1990s and 2000s

ARGENTINA

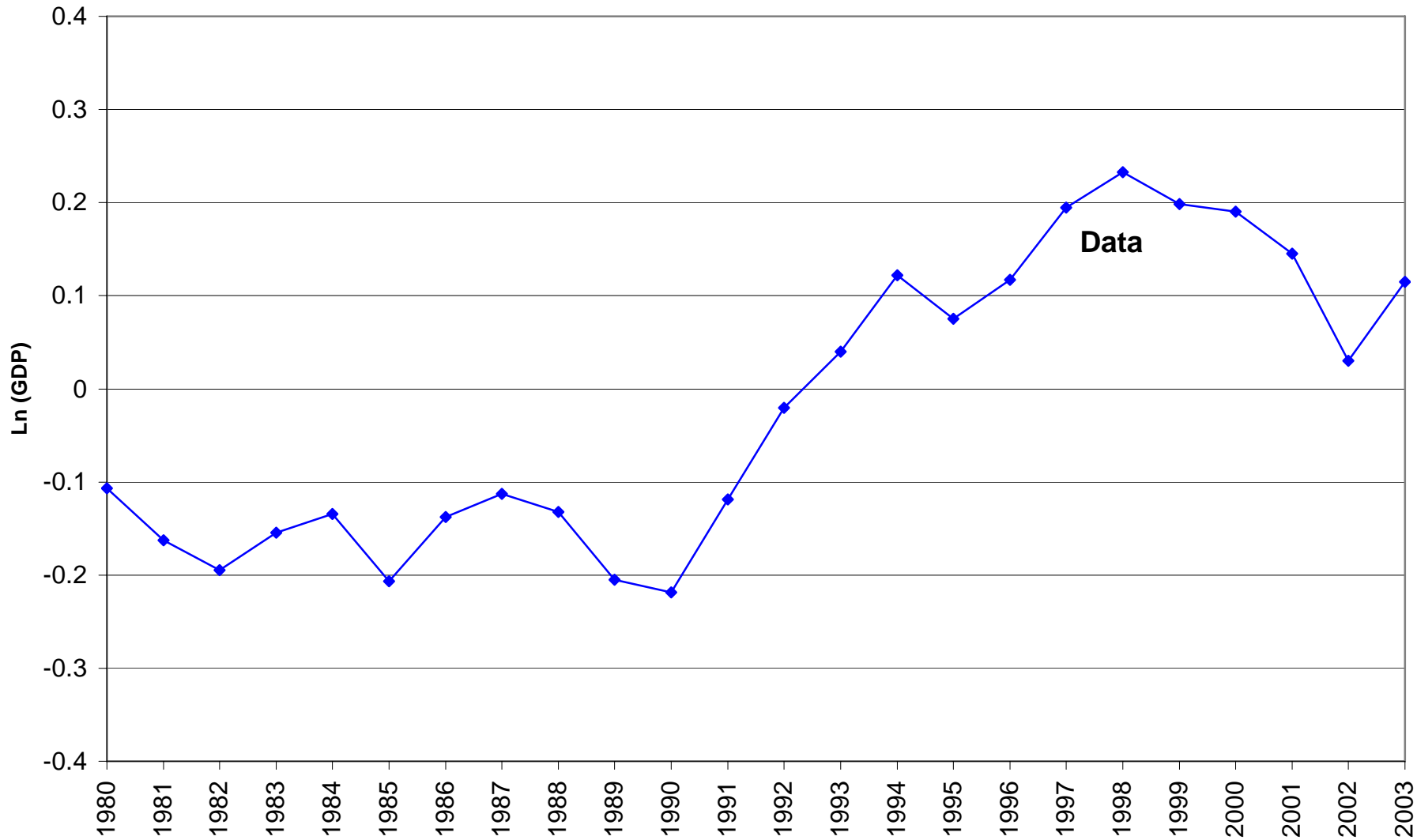
GDP per working age person (Index)



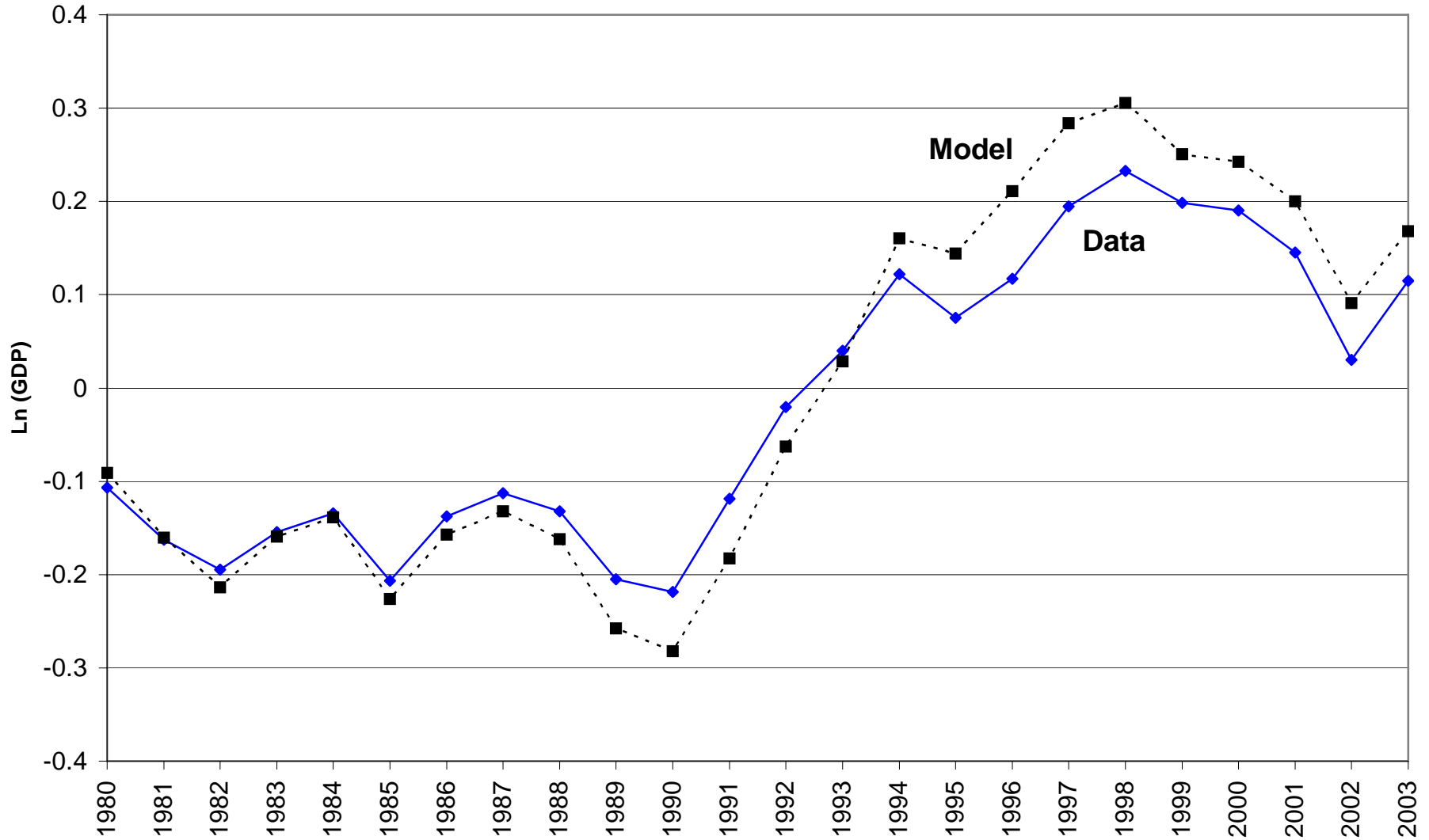
- Argentina's Lost Decade in the 1980s.
But especially interesting: The 1990s boom
Grew at fairly high rates in the 1990s

Surprise: In light of the observed rate of productivity growth, the standard model implies investment should have been much larger in the 1990s, and the capital stock therefore much greater by the end of the decade

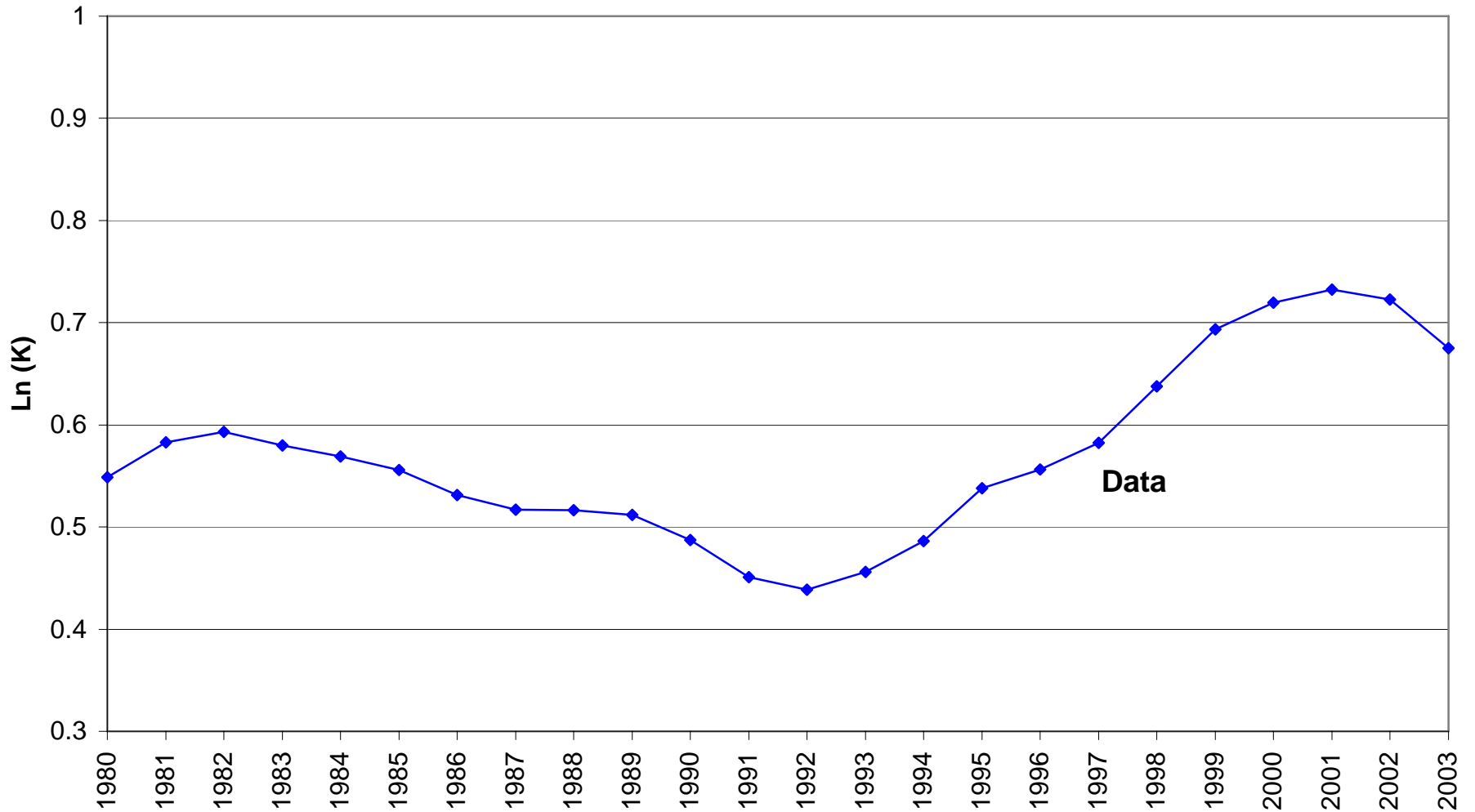
ARGENTINA GDP



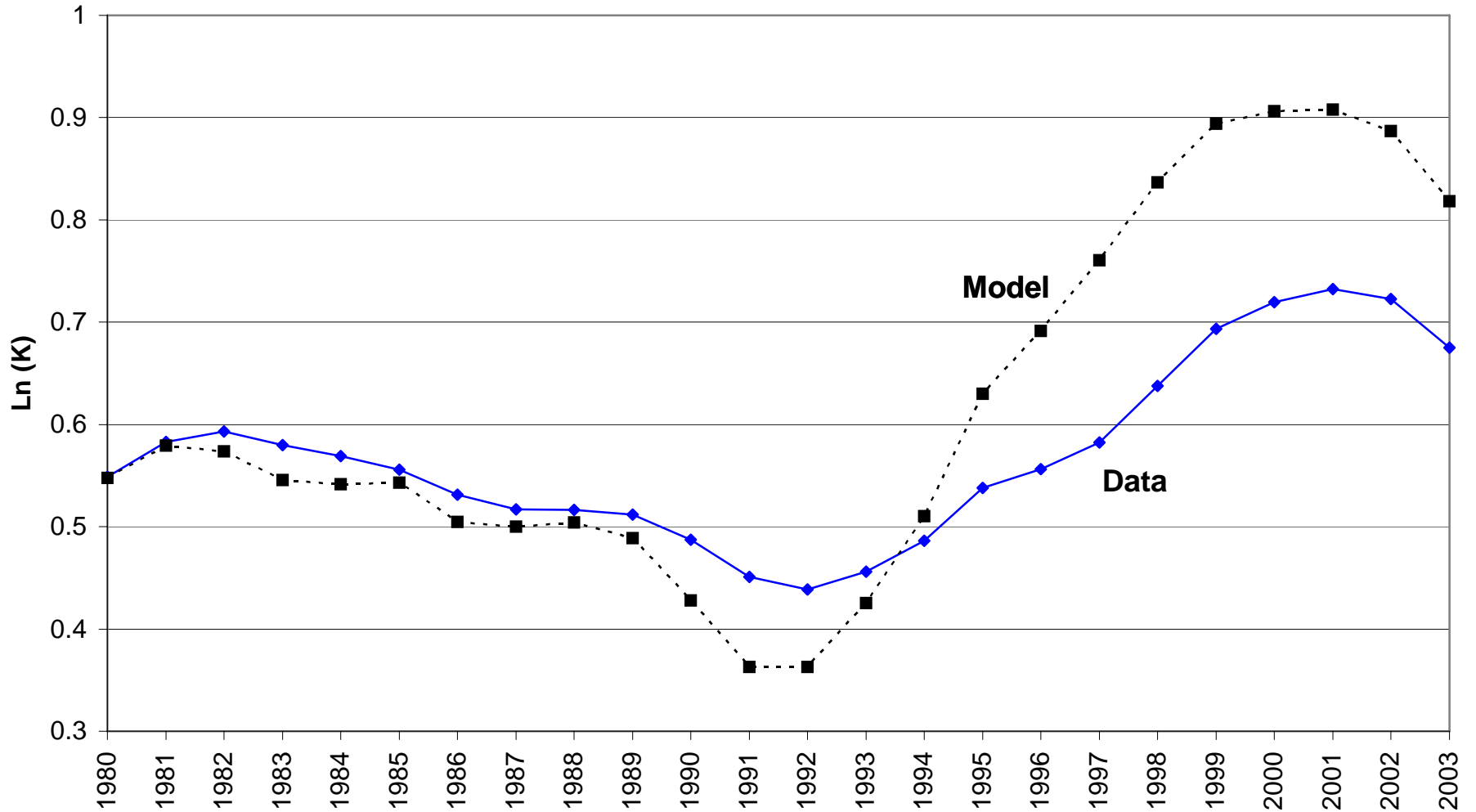
ARGENTINA GDP



ARGENTINA Capital Input



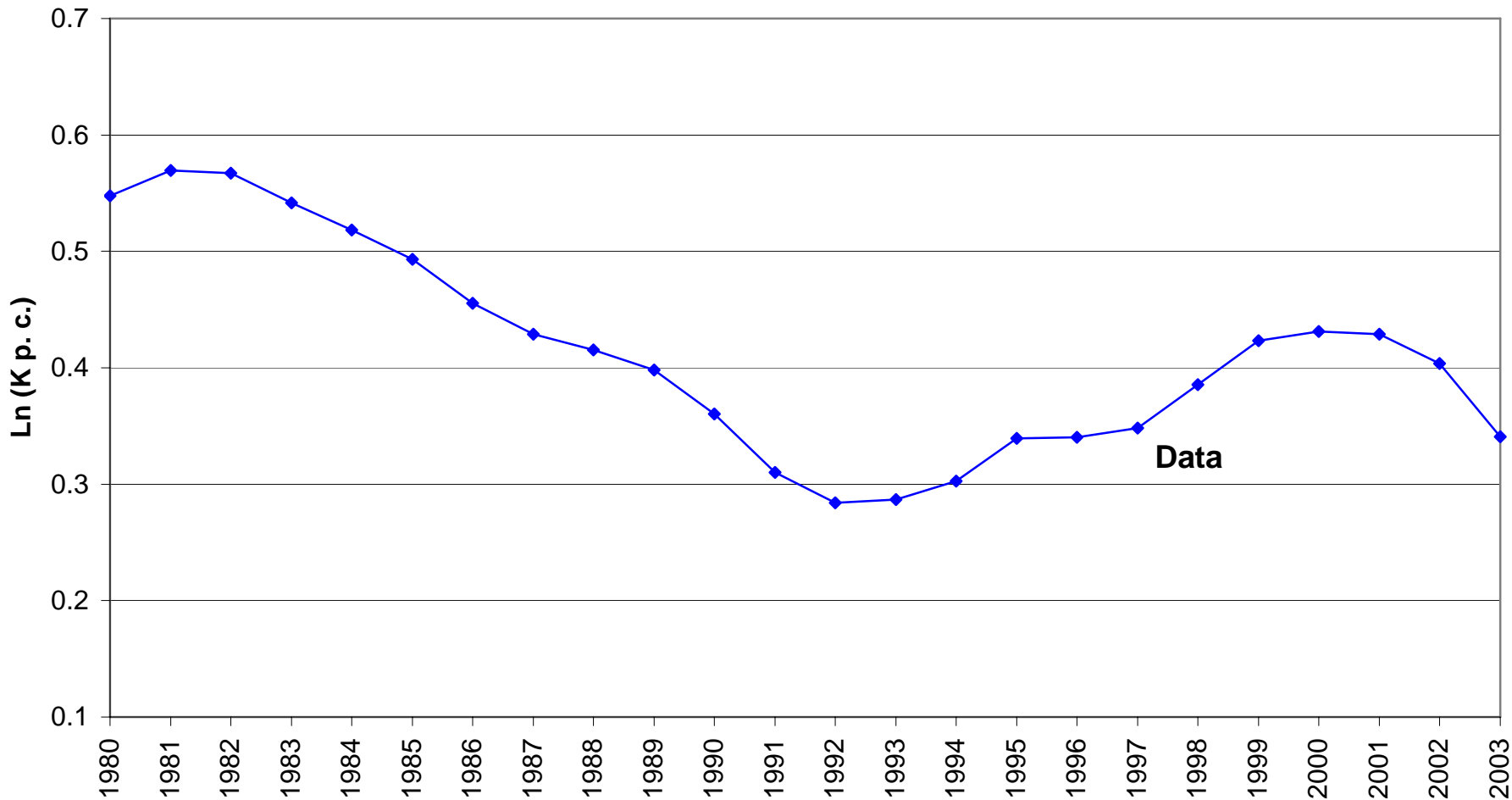
ARGENTINA Capital Input



- Possible explanation

Time-inconsistency “disease” due to past hyperinflations, devaluations, deposit freezes and defaults on government obligations, resulting in lack of **credibility** among investors

ARGENTINA
Capital input per working age person
LOWER CAPITAL: LOWER REAL WAGES, WORSE DISTRIBUTION OF INCOME



- Argentina's recent recovery

Will “capital gap” be closed? If not, poor will continue to be poor for a long time

How to restore confidence?

No easy answer

Need policy geared for the long run, that is, for the next 5, 10,... years

- Contrast with Ireland

We have already seen the picture:
consistently strong growth since 1990

But first: years of schooling had expanded since 1960s

Then, in early 1990s:
tax policy geared for the long-run

Lower tax rates, with commitment
for the next 20 years

- Lessons for policy

Focus on incentives for productivity growth (innovation) and capital accumulation

Government policy has to be **credible** and **forward-looking** (e.g., Ireland since 1990)

Institutions geared to avoiding “time-inconsistency disease”

- Income and wealth disparities across nations

Low income often the result of country-specific policies that directly or indirectly restrict the set of technologies and work practices that can be used

Bad: protection of vested interests

A lot of knowledge available. May need to be combined with nation-specific innovative activity

- Importance of good economic policy

Paraphrasing the conclusion of Parente & Prescott's book on *Barriers to Riches*:

With good policy, there is potential in poor nations for, not 1-2 percent, but 1000-2000 percent income increase

- Copenhagen Consensus Center's
Consulta de San Jose, Oct. 2007

Question: If Latin America were willing to spend, say, \$10 billion more over the next five years on improving welfare, which projects would have the greatest benefits (benefit/cost ratios)?

Areas: democracy; education; employment/
social security; environment; fiscal problems;
health, infrastructure; poverty/inequality;
public administration and institutions;
crime and violence

Copenhagen Consensus Priorities for Latin America

- 1) Early childhood development programs
- 2) Fiscal rules
- 3) Increased investment in infrastructure, including maintenance
- 4) Policy and program evaluation agencies
- 5) Conditional cash transfer programs

- Interesting proposed solution

Increase the level of political party
and party system institutionalization