Economics of European Integration Lecture # 9 Monetary Integration I

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Why Studying History?

- Monetary union is the controversial end of a long process. History helps understand.
- Since paper money was invented, Europe's monetary history has been agitated. Each bad episode carries important lessons.
- Before paper money, Europe was a de facto monetary union. Understand how it worked helps understand how the new union works.



Metallic Money

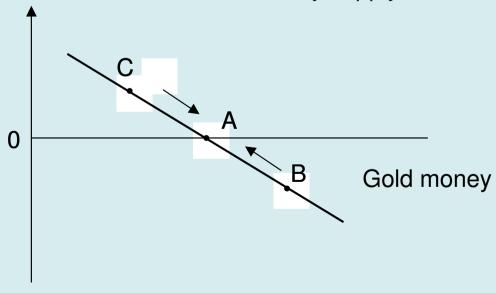
- Under metallic money (overlooking the difference between gold and silver) the whole world was really a monetary union.
- Previous explicit unions only agreed on the metal content of coins to simplify everyday trading.



The Gold Standard and Hume's Mechanism

 Hume's mechanism implies an automatic change in the money stock to achieve balance of payments equilibrium.

Balance of payments = net increase in money supply

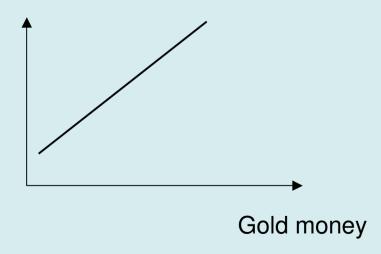




The Gold Standard and Hume's Mechanism: The Trade Account

Money determines the price level (in the long run).







The Interwar Period: The Worst Of All Worlds

- Paper money starts circulating widely.
- Yet the authorities attempt to carry on with the gold standard but:
 - no agreement on how to set exchange rates between paper monies
 - an imbalanced starting point with war legacies
 - high inflation
 - high public debts.



The Interwar Period: Three Case Studies

- The British case: a refusal to devalue an overvalued currency breeds economic decline.
- The French case: devaluation, under-valuation and beggar-thy-neighbour policies, until others retaliate and the currency becomes overvalued.
- The German case: hyperinflation, devaluation and, finally, evading the choice of an appropriate exchange rate by resorting to ever-widening non-market controls.



Lessons So Far

- We need a system, one way or another.
- The gold standard monetary unions delivers automatic return to equilibrium, but at the cost of booms and recessions.
- No agreement leads to misalignments, competitive devaluations and trade wars.
- Agreements require 'rules of the game', including a conductor.



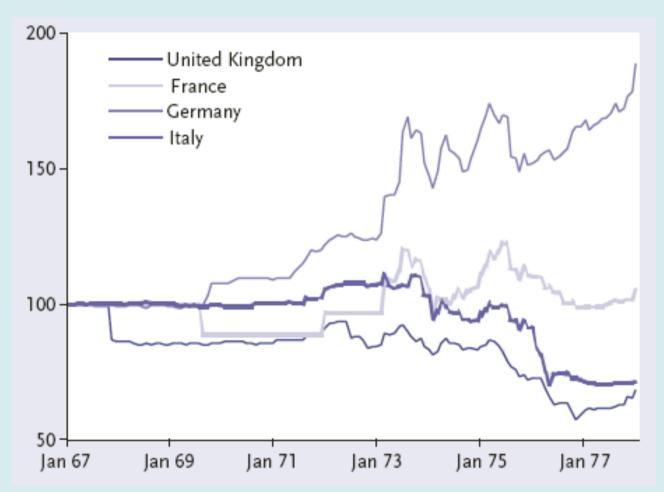
European Postwar Arrangements

- An overriding desire for exchange rate stability:
 - initially provided by the Bretton Woods system
 - the US dollar as anchor and the IMF as conductor.
- Once Bretton Woods collapsed, the Europeans were left on their own:
 - the timid Snake arrangement
 - the European Monetary System
 - the monetary union.



The Bretton Woods System Collapse

Initial divergence.



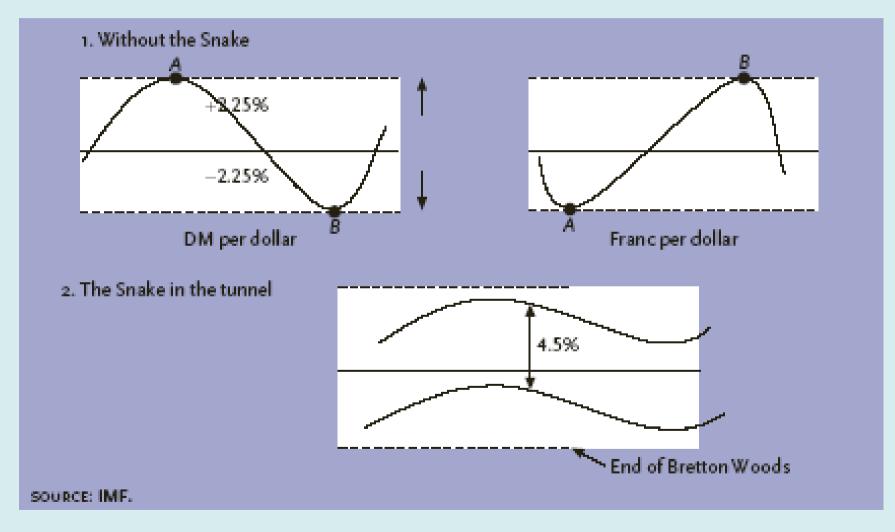


The Snake Arrangement

- Agreeing on stabilizing intra-European bilateral parities.
- No enforcement mechanism: too fragile to survive.



The European Snake





The EMS: Super Snake

- Complements bilateral exchange rate commitments with a support mechanism.
- Allows for prompt realignments to avoid misalignments.
- Emergence of the Deutschemark as the system's anchor.



Lessons From History

	Gold Standard	Inter- war	Bretton Woods	EMS	EMU
Long-lasting misalignments must be avoided	✓		✓	✓	
Systems need to be built coherently	✓		✓	✓	✓
Policy misbehaviour must be ruled out					✓
Systems must be robust				✓	✓
Any monetary system needs a conductor	✓		✓	✓	✓



The Question and The Answer

- The question: what to do with the exchange rates:
 - viewpoint of an individual country, in contrast with Chapter 13 which looks at systems
 - underlines the principles to evaluate the merits of a monetary union.
- The answer: there is no best arrangement:
 - a matter of trade-offs.



Three Basic Principles

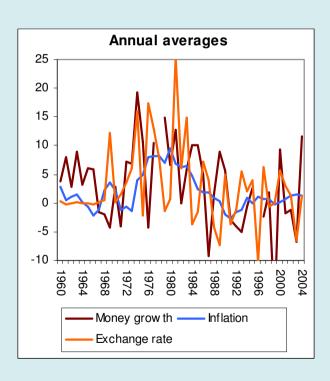
- Long term: neutrality of money.
- Short term: non-neutrality of money.
- Interest parity condition.



• In the long run, money, the price level and the exchange rate tend to move proportionately.



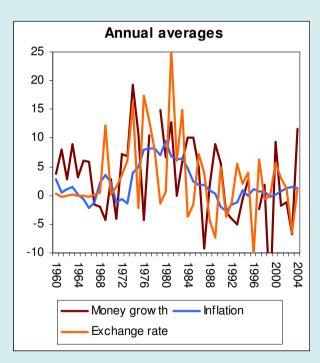
Comparison between France and Switzerland Growth rate in France less growth rate in Switzerland

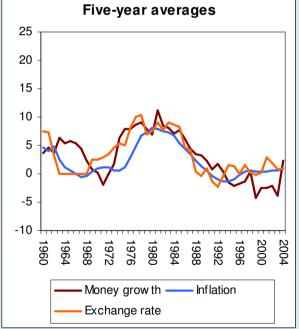


Year to year: Nothing really visible



Comparison between France and Switzerland Growth rate in France less growth rate in Switzerland

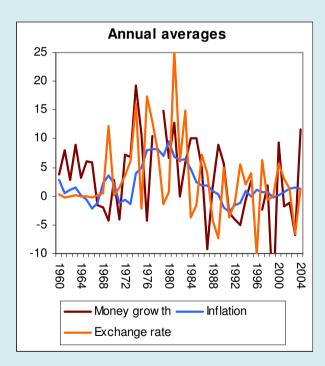


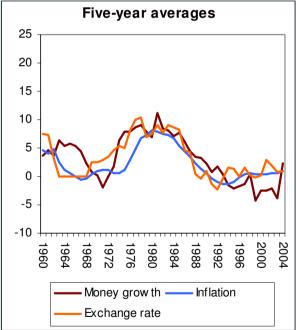


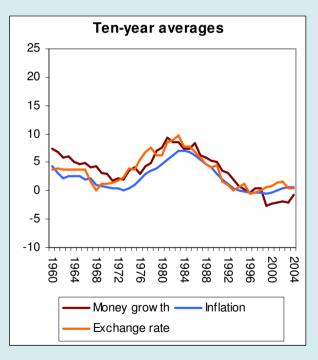
Five-year averages:
Something emerges



Comparison between France and Switzerland Growth rate in France less growth rate in Switzerland









PPP: An Implication of Long Term Neutrality

- The real exchange rate:
 - defined as $\lambda = EP/P^*$
 - PPP: E offsets changes in P/P*
 - so λ is constant.
- Equivalently: $\frac{\Delta E}{E} = \frac{\Delta P^*}{P^*} \frac{\Delta P}{P}$
- Many caveats, though.



PPP: An Implication of Long Term Neutrality

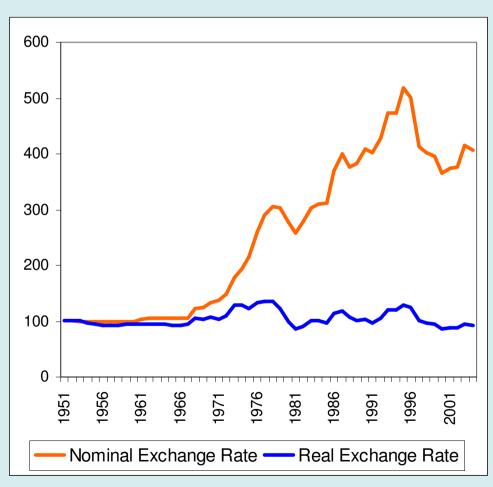
France and Switzerland: averages 1951-2004

Average money growth: France less Switzerland	2.5
Average inflation: France less Switzerland	2.4
Average appreciation CHF vs. FRF	3.0



PPP: An Implication of Long Term Neutrality

Germany and the UK (1951-2004)





Caveat: The Balassa-Samuelson Effect

Average annual changes *vis-à-vis* the Eurozone (1993-2005, % per annum)

	Czech Rep.	Hungary	Poland	Slovak Rep.
Real appreciation	4.4	3.4	2.9	3.5
Inflation differential	3.6	10.3	8.7	4.2
Nominal appreciation	0.8	-6.9	-5.8	-0.7



Short Term Non-Neutrality of Money

- From AD-AS: the short-run AS schedule.
- So monetary policy matters in the short run.
- Channels of monetary policy:
 - -the interest rate channel
 - -the credit channel
 - -the stock market channel
 - -the exchange rate channel.



Exchange Rate Regimes and Policy Effectiveness

- Fixed exchange rate: no independent monetary policy:
 - money is endogenous.



Exchange Rate Regimes and Policy Effectiveness

- Fixed exchange rate: no independent monetary policy.
- Flexible exchange rate: no effect of fiscal policy:
 - the exchange rate offets fiscal policy effects.



Exchange Rate Regimes and Policy Effectiveness

	Monetary policy	Fiscal policy
Fixed exchange rate	Ineffective	Effective
Flexible exchange rate	Effective	Ineffective



When Does the Regime Matter?

- In the short run, changes in E are mirrored in changes in $\lambda = EP/P^*$: P and P* are sticky.
- In the long run, λ is independent of E: P adjusts.



When Does the Regime Matter?

- In the short run, changes in E are mirrored in changes in λ = EP/P*: P and P* are sticky.
- In the long run, λ is independent of E: P adjusts.
- If P is fully flexible, the long run comes about immediately and the nominal exchange rate does not affect the real economy.
- Put differently, the choice of an exchange rate regime has mostly short-run effects because prices are sticky.



What's On The Menu?

- Free floating.
- Managed floating.
- Target zones.
- Crawling pegs.
- Fixed and adjustable.
- Currency boards.
- Dollarization/euroization.
- Monetary union.



The Choice of an Exchange Rate Regime

- The monetary policy instrument:
 - can be useful to deal with cyclical disturbances
 - -can be misused (inflation).
- The fiscal policy instrument:
 - -can also deal with cycles but is often politicised
 - can be misused (public debts, political cycles).



The Choice of an Exchange Rate Regime

- Exchange rate stability:
 - –freely floating exchange rates move 'too much'
 - fixed exchange rates eventually become misaligned.



The Old Debate: Fixed vs Float

- The case for flexible rates:
 - with sticky prices, need exchange rate flexibility to deal with shocks
 - remove the exchange rate from politicisation
 - monetary policy is too useful to be jettisoned.



The Old Debate: Fixed vs Float

- The case for fixed rates:
 - flexible rates move too much (financial markets are often hectic)
 - exchange rate volatility: a source of uncertainty
 - -a way of disciplining monetary policy
 - in presence of shocks, always possible to realign.



The New Debate: The Two-Corners Solution

- Only pure floats or hard pegs are robust:
 - intermediate arrangements (soft pegs)
 invite government manipulations, over or under valuations and speculative attacks
 - pure floats remove the exchange rate from the policy domain
 - hard pegs are unassailable (well, until Argentina's currency board collapsed...).



The New Debate: The Two-Corners Solution

- In line with theory:
 - soft pegs are half-hearted monetary policy commitments, so they ultimately fail.

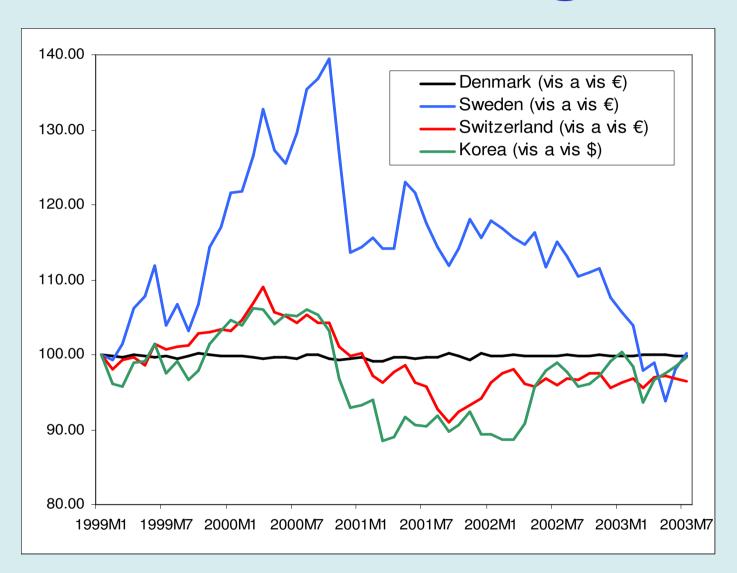


The Two-Corners Solution and The Real World

- Fear of floating:
 - -many countries officially float but in fact intervene quite a bit.
- Fear of fixing:
 - many countries declare a peg but let the exchange rate move out of official bounds.



Fear of Floating





The Two-Corners Solution and The Real World

- Fear of floating is deeply ingrained in many European countries.
- Fear of fixing partly explains the disenchantment with the EMS and some reluctance towards monetary union.



Conclusions

- A menu hard to pick from: trade-offs are everywhere.
- All of this takes the view from a single country.
- Systems involve many countries and rest on agreed upon rules, including mutual support.
- Since the end of Bretton Woods, there is no world monetary system.
- This leaves room for regional monetary systems. Enters Europe's experience.

