


Fiscal Policy in Emerging Market Economies

Andrés Velasco
Columbia University

October 2011

Road Map

1. Fiscal policy in emerging market economies: the issues
 1. Deficit bias and procyclicality
 2. Political economy
2. Chile's fiscal rule
 1. Initial conditions
 2. The rule at work
 3. Some results
3. Thinking about fiscal rules

- 
1. Fiscal policy in commodity-rich emerging markets: the problems
 - ▣ Deficit bias
 - ▣ Procylicality

Deficit Bias

- ▣ Drop in of government net assets on average: over the cycle
- ▣ Drop government net assets even when standard smoothing considerations suggest the opposite
- ▣ See Alesina and Perotti (1995)

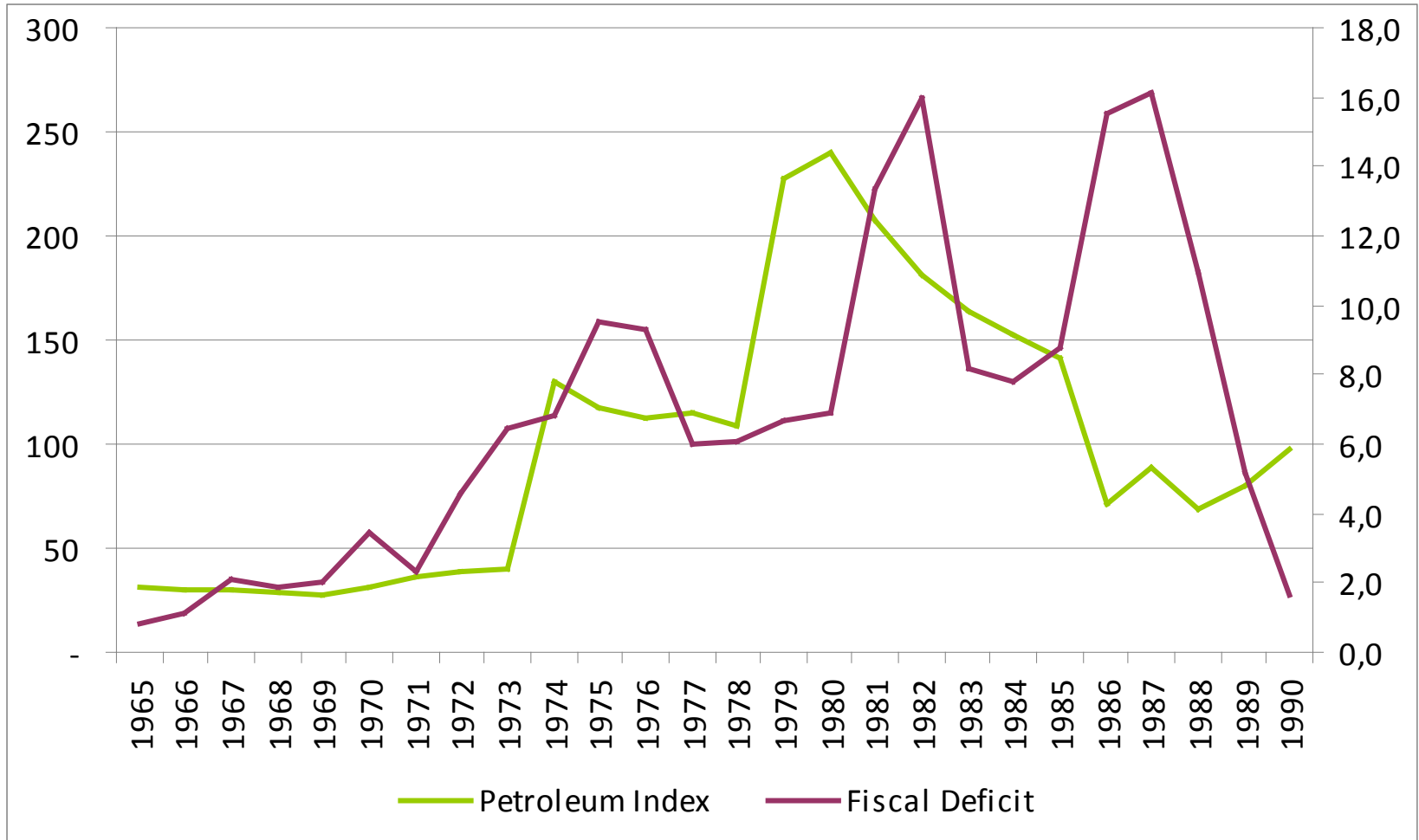
Procyclicality

- Conventional wisdom: save in booms and disave in recessions
- Reality: save too little in booms or even disave
- See Cuddington (1989), Sinnott (2009), Talvi and Vegh (1995)
- Arezki and Brückner (2010a): commodity price booms lead to increased government spending, external debt and default risk in autocracies, and have smaller such effects in democracies

Procyclicality is especially an issue for commodity exporters

- Commodity-linked revenues (taxes, royalties, profits) can be a large portion of government revenue. See Sinnott (2009)
- Commodity price volatility is large (see next slide)
- International capital flows are also procyclical: borrowing constraints are relaxed during booms. See Kaminsky, Reinhart, and Vegh (2005), Reinhart and Reinhart (2009), Gavin, Hausmann, Perotti and Talvi (1996), and Mendoza and Terrones (2008).

Mexico: an extreme example of procyclicality



Why fiscal procyclicality?

- ▣ Economic story: borrowing constraints are relaxed in good times, bind in bad times
- ▣ Political story: the voracity effect: political game becomes more intense (and yields more spending) in good times
- ▣ In practice, both probably interact

Deficit bias and procyclicality: what can you do?

- ▣ Why has fiscal performance improved in commodity republics?
- ▣ One possibility: adopt fiscal rule that guides expenditure over long horizons, and constraints its over the cycle
- ▣ Chile did that in 2001, and took further steps in 2006

Fiscal rules: new fashion

- According to the IMF (200), by 2009 exactly 80 countries had some kind of fiscal rule in place
- However... only 8 of those rules involved “cyclical” or “structural” adjustments
- Prominent example in Europe: Sweden
- Ireland is now supposed to get one



2. Chile's fiscal rule

- ▣ Initial conditions
- ▣ The rule in operation
- ▣ Some consequences
 - Fiscal
 - Otherwise

Chile: initial conditions

- ▣ Strong budget institutions
- ▣ Good fiscal performance since 1990
 - ▣ More surpluses than deficits in 1990-2000
 - ▣ By 2000, gross public debt only 35% of GDP
- ▣ So why did Chile need rule?
 - ▣ Economic concerns
 - No longer-term framework for fiscal policy
 - Contingent liabilities: pensions, infrastructure
 - ▣ Political concerns
 - Inefficient negotiation inside Executive and in Congress
 - Subnational governments

Chile: the rule in operation



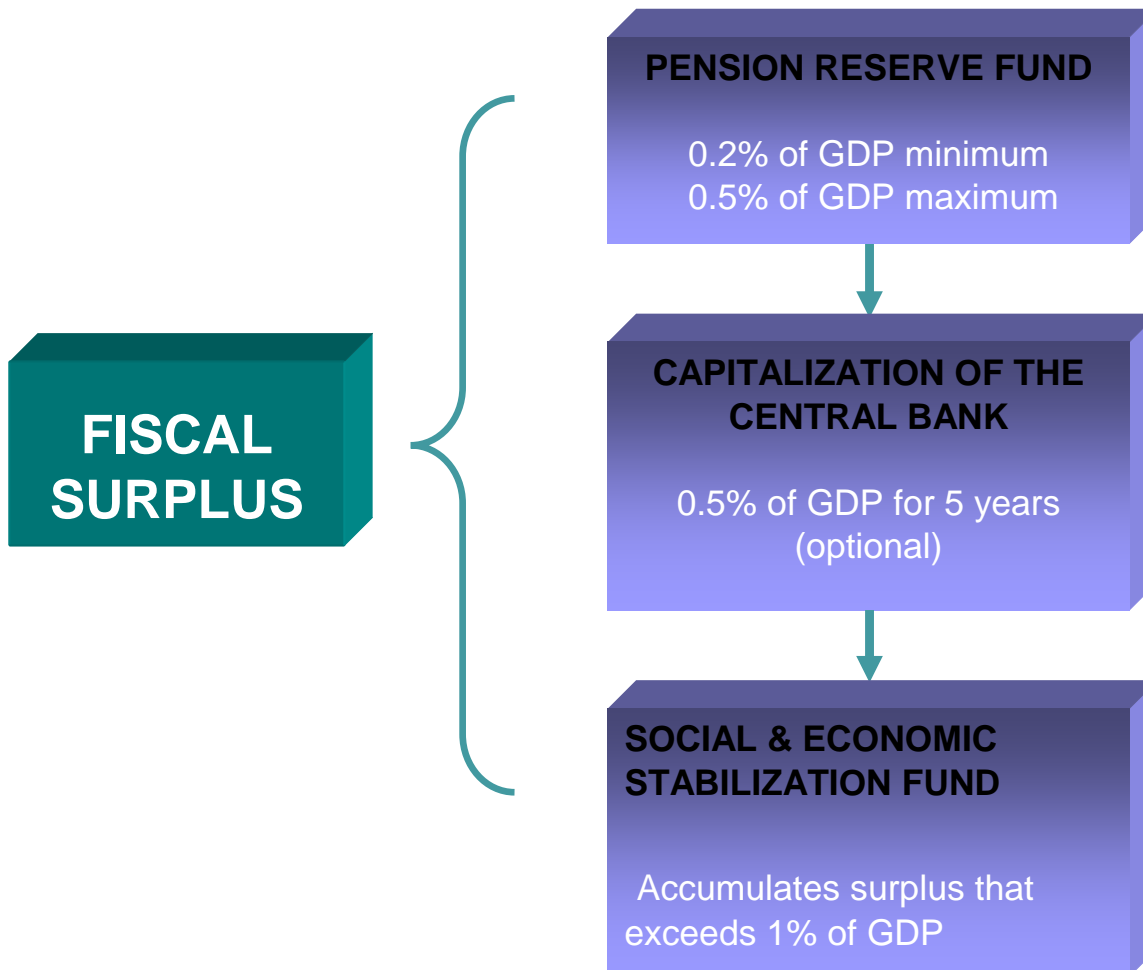
- ▣ Dealing with flows: the structural balance approach
- ▣ Dealing with stocks: creation of SWFs

Dealing with flows: the structural balance approach

- Come up with parameters for cyclical adjustment using independent committees
 - Copper
 - Trend GDP growth
- Apply cyclical adjustment methodology: close to OECD procedure
- Arrive at estimate of “structural” or long term income
- Spend $X\%$ of GDP less than long term income

Chile: institutional issues

- The rule was self-imposed (no legal constraint) in 2001-2006
- Fiscal Responsibility Law (2006) made it legal
- However, law did not specify
 - Details of cyclical adjustment methodology
 - Target for structural surplus or deficit
- Over time, government updated to methodology: eg, correcting for moly prices
- Over time, government changed surplus target: from 1% of GDP to 0.5% to 0 when crisis hit

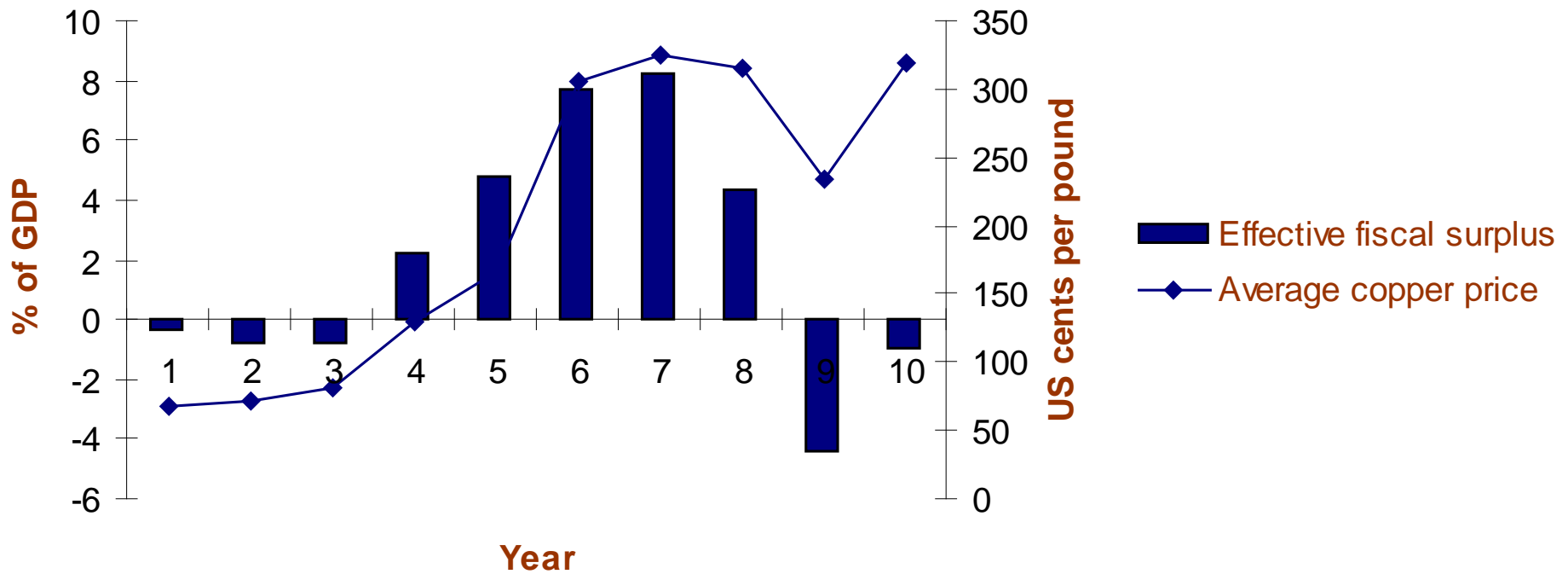


Chile: fiscal results

- ▣ Fiscal surpluses and the price of copper
- ▣ Falling public debt
- ▣ Rising financial savings

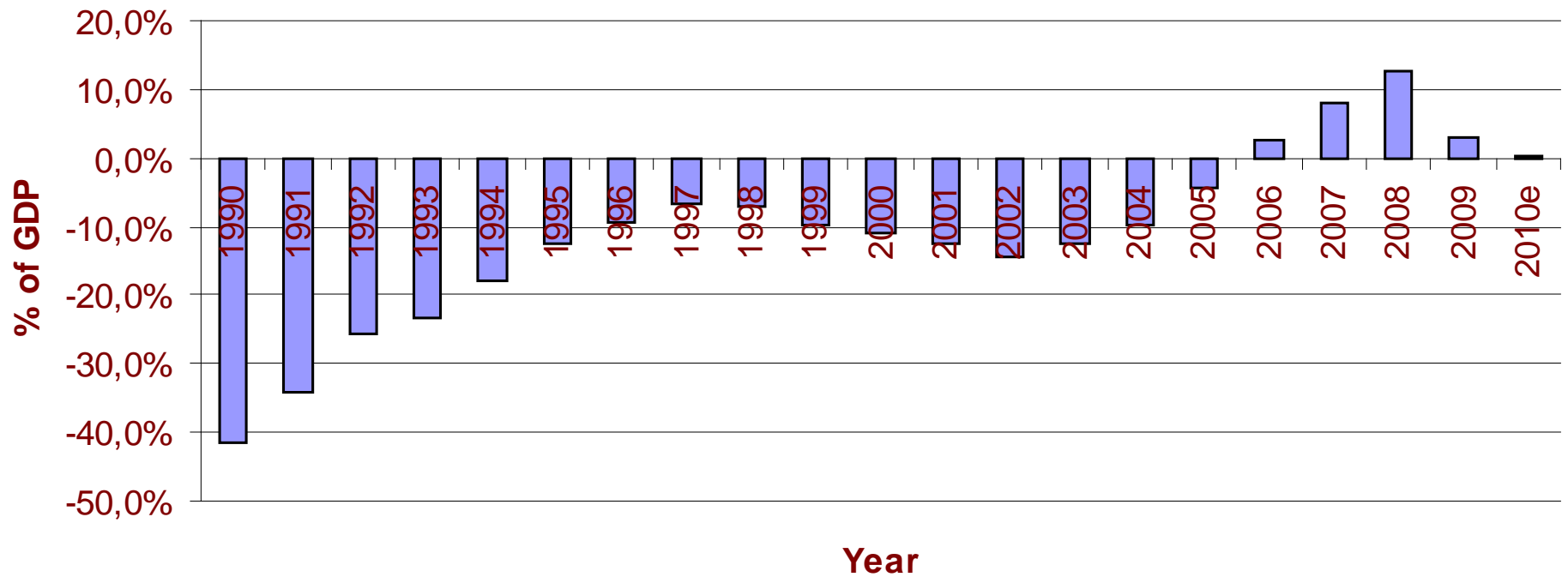
The end of procyclicality?

Copper and fiscal surpluses

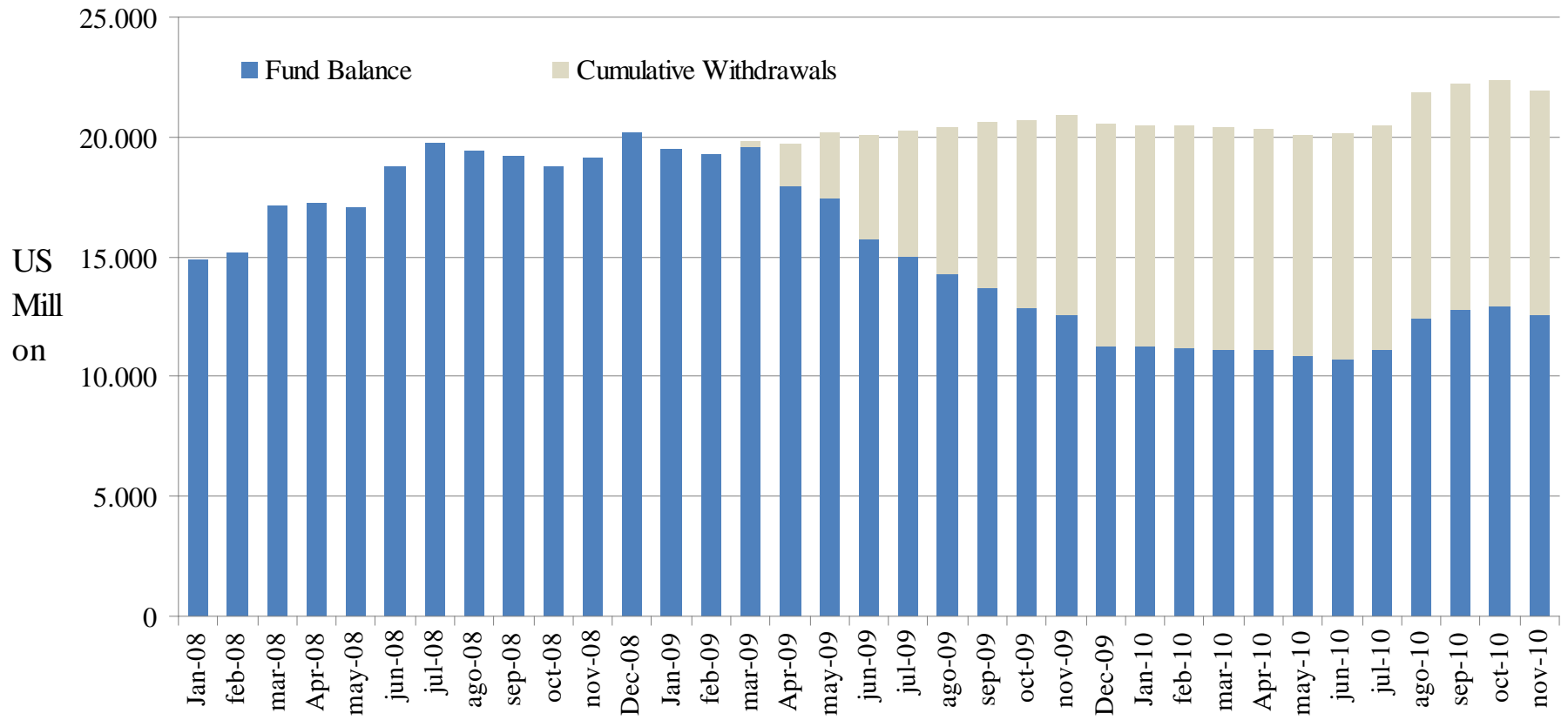


Public debt: far away from Europe

Net public debt



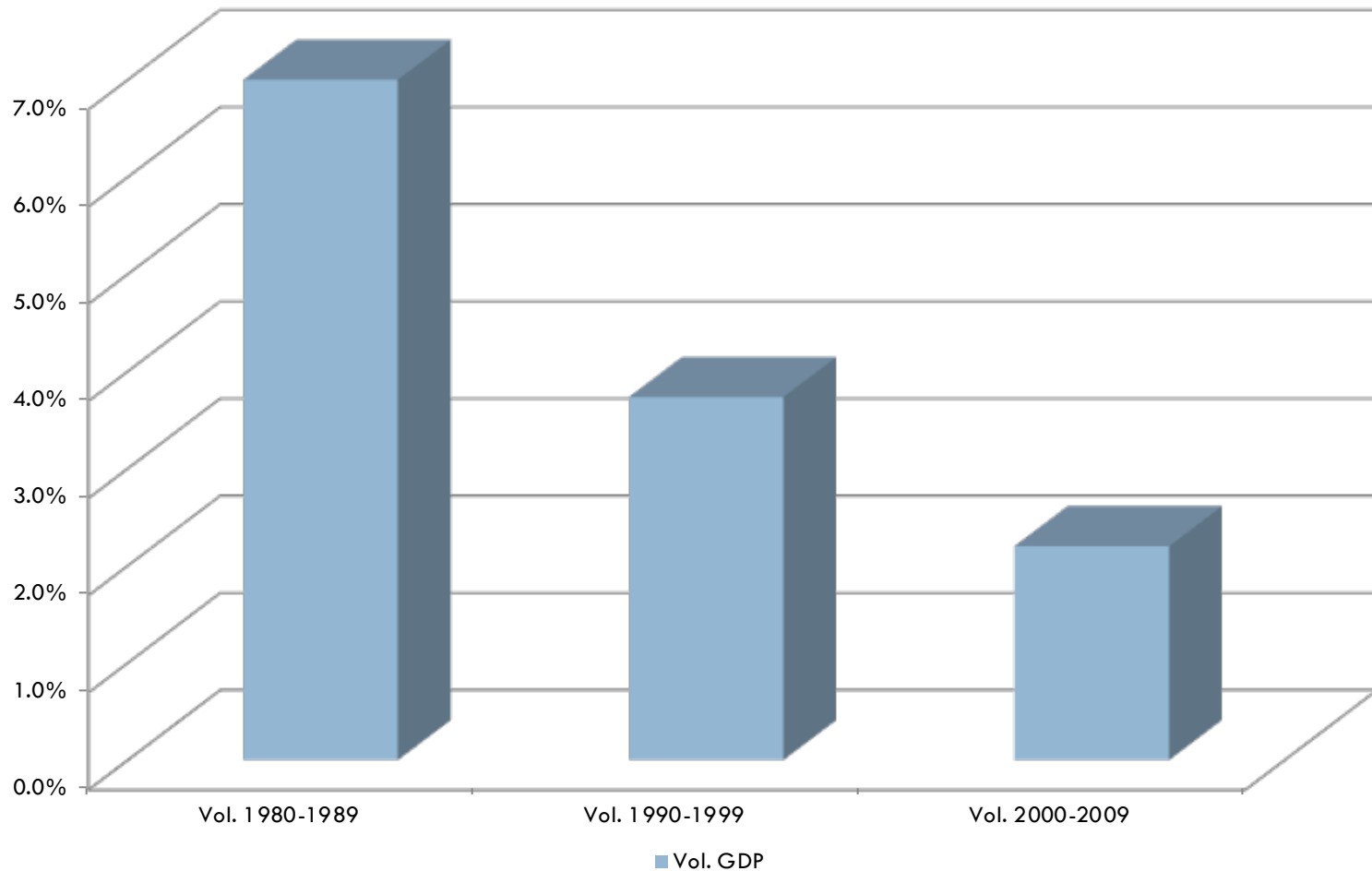
A stabilization fund that stabilizes



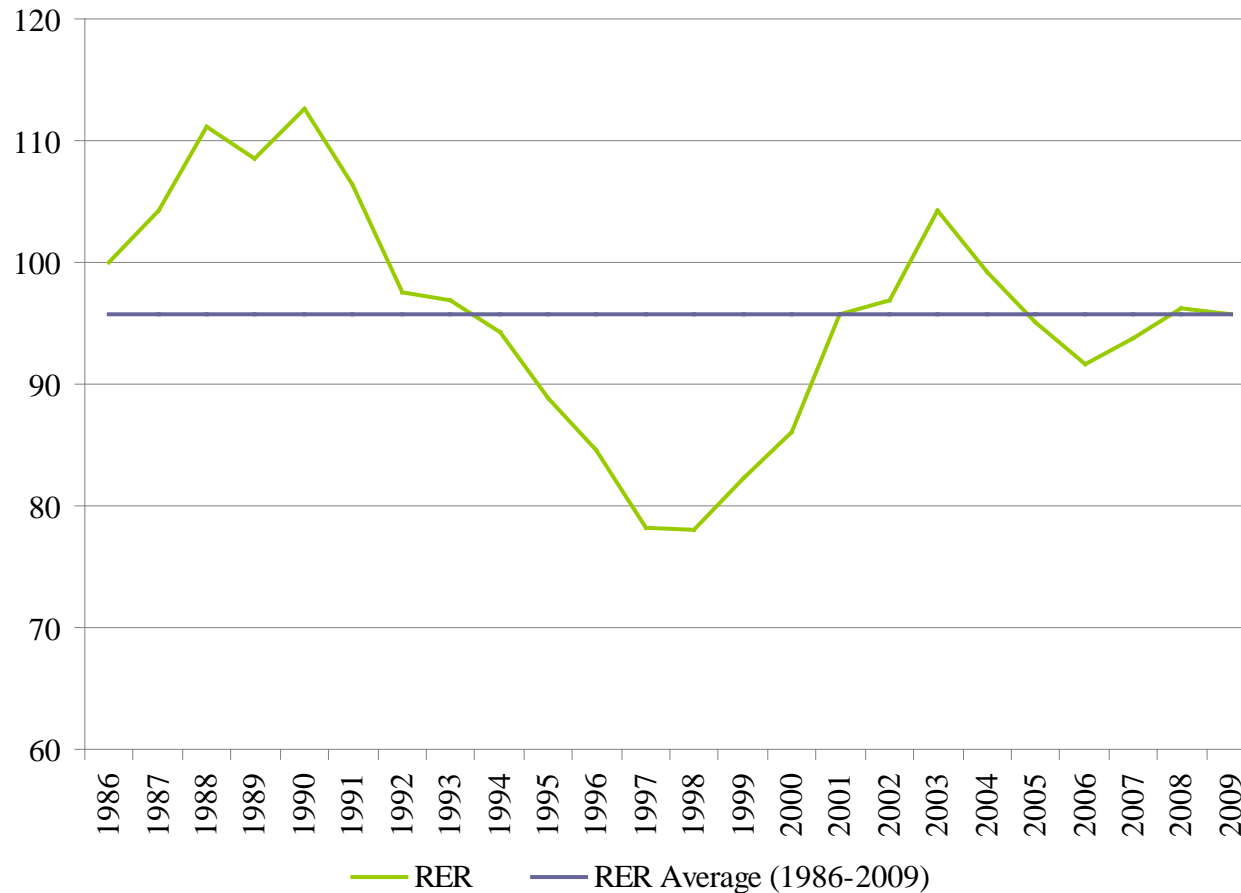
Chile: macro results

- ▣ Output volatility
- ▣ The real exchange rate
- ▣ Room for countercyclical policy during the crisis

Falling output volatility: a consequence?



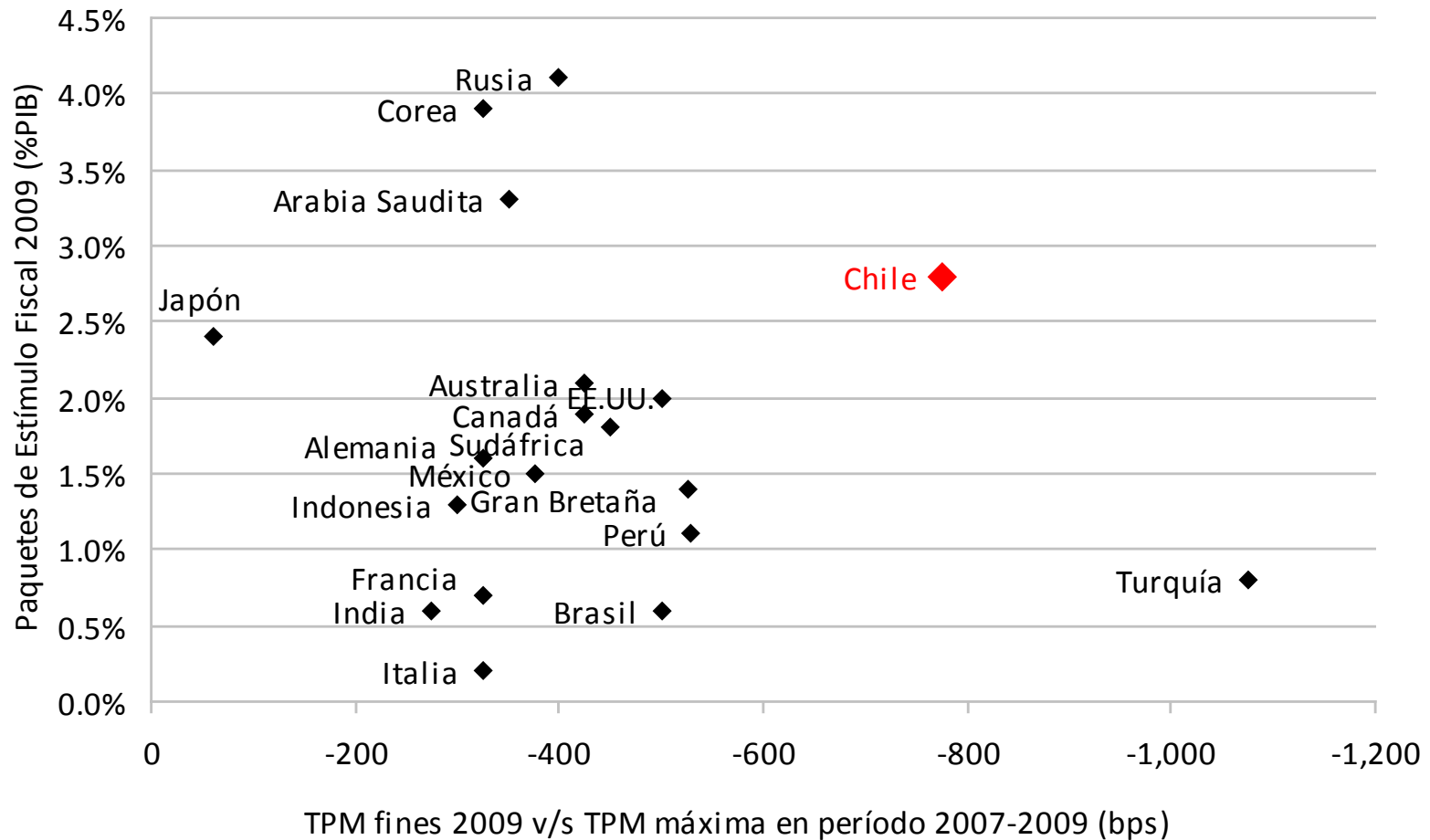
Avoiding Dutch disease? The real exchange rate



The January 2009 fiscal stimulus

- Overall: 2.8% of GDP
- Additional spending
 - ▣ Infrastructure
 - ▣ Transfers to poor households
- Temporary tax cuts
 - ▣ Stamp taxes
 - ▣ PPMs for SMEs
 - ▣ Individual tax rebates
- Capitalization of Codelco: state-owned copper producer

Fiscal and monetary stimulus



3. Thinking of optimal rules

- What to correct for?
- Cyclical adjustment versus PIH
- Degree of countercyclicality
- Ex post v. ex ante rules

What to correct for?

- OECD and other standard adjustments only correct for GDP cycle
- Chile procedure includes copper prices and other metals prices
- Is this enough? Probably not (Lane, 2010)
- What are we leaving out?
 - ▣ Activity cycles that are linked to expenditure, not output: what do we do with consumption booms and large current account deficits?
 - ▣ Sectoral booms (real estate in Spain and Ireland)
 - ▣ Effects of movements in asset prices (again, land)
 - ▣ Effects of movements in the real exchange rate
 - ▣ Changes in the stock of government-held assets
- As usual...tradeoff between accuracy and simplicity

Cyclical adjustment v. PIH

- Cyclical adjustment corrects for deviations of GDP, copper prices and other variables from their long term levels
- To this rule one must add PIH criteria
 - ▣ How much to spend of accumulated assets? The interest rate? Which interest rate?
 - ▣ Need to take a stance on temporary policy fluctuations
 - Temporary tax cuts (or increases)
 - Temporary spending (natural disasters)
- Current debate in Chile
 - ▣ With no stance on temporary policy, all temporary shocks are treated as permanent
 - ▣ With no stance on interest rate, one can consume too much (or too little) of accumulated assets

Degree of countercyclicality

- Rule based on cyclical adjustment + PIH is largely acyclical
- Optimal to have decidedly countercyclical rules
- Engel, Neilson and Valdés (2010): need to have switching regime –different spending coefficients in different states (normal, good, bad)
- Challenges
 - ▣ Simplicity: the taxi driver test
 - ▣ Legitimacy: use of independent fiscal board?

Ex ante versus ex post rules

- Whatever the rule –acyclical, countercyclical— it typically involves an ex ante commitment
 - ▣ Spend according to criteria X and Y and get projected outcome Z
- Results ex post (outcomes) depend on a host of factors other than actions and commitments
 - ▣ Actual economic prices and quantities
 - ▣ Varying elasticities of revenue to those Qs and Ps
 - ▣ Behavior of endogenous components of expenditure
- Conclusion: the probability that the ex-post result will be exactly equal to the ex-ante target is close to zero.

Ex ante versus ex post rules (cont)

- Central banks recognized this problem long ago. Therefore..
 - ▣ They set ranges, not points, as targets
 - ▣ They set variable time spans for achieving targets: from 18 to 24 months....
- Fiscal authorities have to move in the same direction
- Alternatives:
 - ▣ The CB route: set target with band, longish time horizon
 - ▣ The Fiscal Board route: set tight target with escape clause, triggered by decision of independent board

Fiscal Policy in Emerging Market Economies

Andrés Velasco
Columbia University

October 2011