

Fiscal Rules and Discretion: Insights from Theory

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"Fiscal Rules and Discretion under Persistent Shocks," 2014, *Econometrica*

"Fiscal Rules and Discretion in a World Economy," 2018, *American Economic Review*

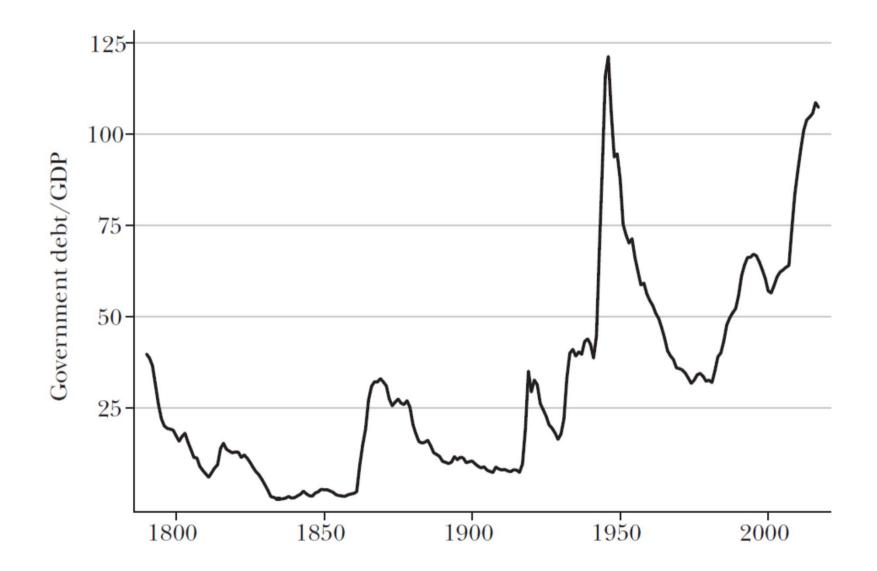
"Commitment vs. Flexibility with Costly Verification," 2019

"Fiscal Rules and Discretion under Limited Enforcement," 2019

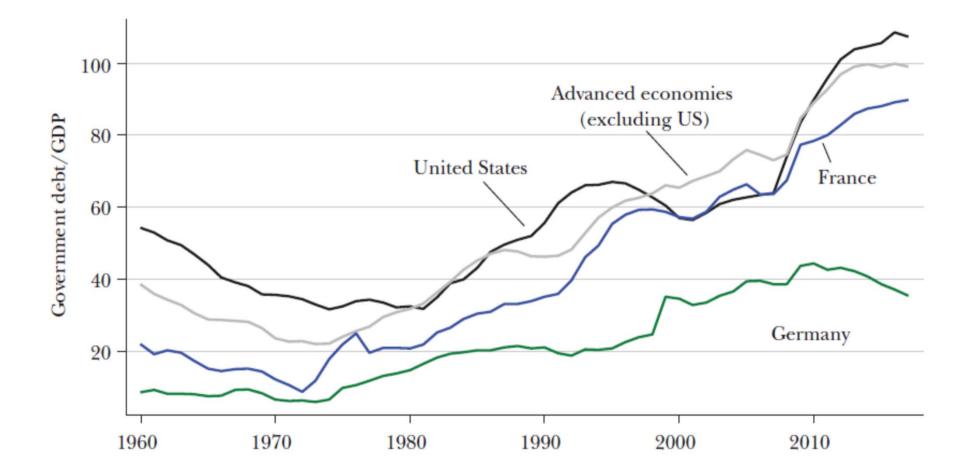
"Instrument-Based vs. Target-Based Rules," 2019

"Rising Government Debt: Causes and Solutions for a Decades-Old Trend," 2019, *Journal of Economic Perspectives*

Rising Government Debt in the U.S.



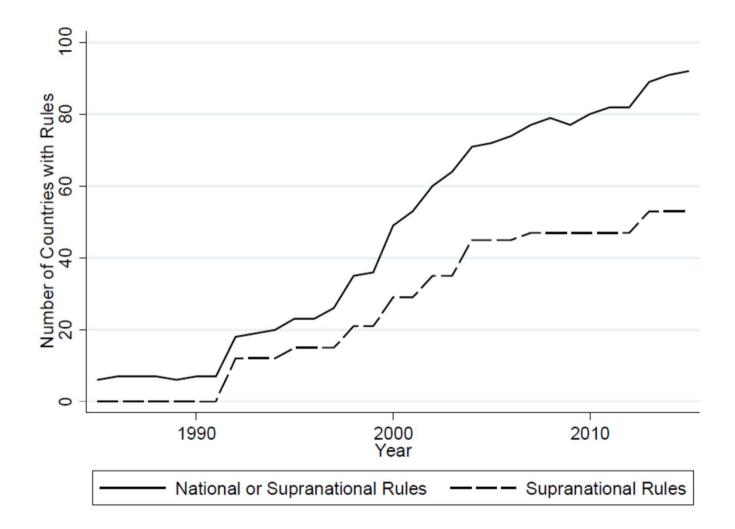
Shared Pattern across Advanced Economies



Fiscal Rules

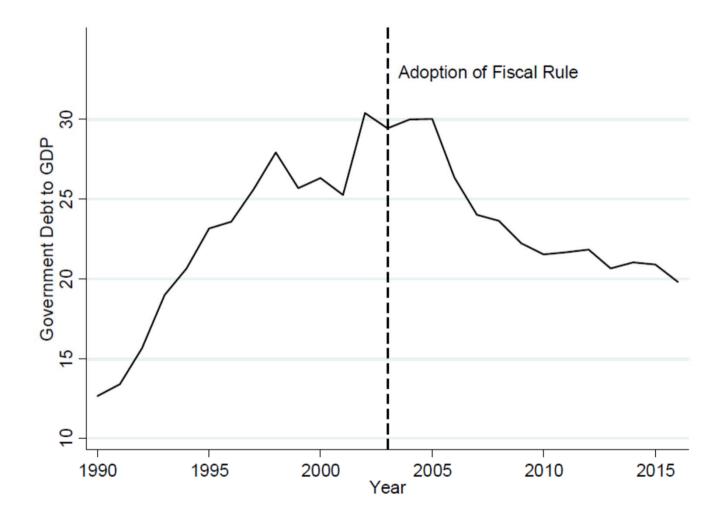
- Political explanations for rising debt justify fiscal rules
 - Current governments want to be fiscally irresponsible
 - They want future governments to be fiscally responsible
- Governments across the world have adopted fiscal rules
 - Types: expenditure, revenue, deficit, debt
 - Level: subnational, national, supranational
- Rules are an effective force against rising debt in some cases

Fiscal Rules Across the World



Data is from International Monetary Fund. A country is classified as having a fiscal rule if it is subject to an expenditure rule, a revenue rule, a budget balance rule, or a debt rule.

Adoption of Fiscal Rule in Switzerland

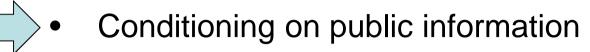


Government debt to GDP is gross central government debt as a percentage of GDP for Switzerland from World Bank. Date of adoption of fiscal rule is from International Monetary Fund.

Commitment vs. Flexibility

- Commitment vs. flexibility tradeoff
 - Commitment: Tighter rules limit present bias and debt accumulation
 - Flexibility: Tighter rules reduce flexibility to unexpected shocks
- Two modeling approaches to tradeoff
 - #1: Restricted rule structure \rightarrow Determine optimal stringency
 - #2: Unrestricted rule structure \rightarrow Determine optimal stringency and form
 - Distinguish between contractible and non-contractible fiscal info
 - Approach: Mechanism design with private government information
- Advantage of each approach
 - #1: Analysis feasible in rich political-economic framework
 - #2: Bird's eye view of optimal structure
 - Global vs. partial reform
 - Decompose factors behind different rule features

Optimal Design of Fiscal Rules



- Enforcement
- Cross-country coordination
- Escape clauses
- Instrument-based vs. target-based criteria

How to Condition on Information

- Measure average optimal primary deficit d^{Forecast}
 - Can condition on GDP, cycle, etc.
- When is d^{Forecast} the optimal rule with deficit limit $d^* = d^{\text{Forecast}}$?
 - If deficit bias is severe and government borrows maximally
 - Government can choose any deficit below d^{Forecast}, but chooses not to
- Otherwise, optimal rule is more relaxed: d* > d^{Forecast}
 - d* is optimal <u>on average</u> whenever government chooses it
 - Example: Government wants to borrow 2 percent more than optimal
 - Implies d* chosen whenever social needs exceed d* 2
 - Average social needs conditional on exceeding d* 2 should be d*
 - d* higher if bias low or shocks volatile

Challenges

- How do we measure average optimal primary deficit d^{Forecast} ?
 - Need appropriate normative model of social needs
 - Note: If goal is debt stabilization $\rightarrow d^{\text{Forecast}} = -(avg \text{ interest expense})$
 - Dependence on cycle poses challenges
- Could additional information help?
 - Optimal rule could depend on whether past policies agreed with targets
 - How to provide dynamic incentives challenging in practice
 - Perceptions of immediate and distant future can differ
 - Government wants to spend in immediate future
 - Does not want future governments to spend in distant future
- How do we measure the deficit bias?
 - Can compare historical deficit absent rule to normative benchmark
 - More sophisticated approach conditions bias on state of economy

Design of Fiscal Rules

- Conditioning on public information
- Enforcement
 - Cross-country coordination
 - Escape clauses
 - Instrument-based vs. target-based criteria

How to Address Lack of Enforcement

- Governments comply with rules 50 percent of the time
 - Formal enforcement: Excessive Deficit Procedure in EU
 - Informal enforcement: Temporary breakdown of fiscal discipline
- Under lack of enforcement, d* should be more relaxed
 - Also, if extreme shocks unlikely, sanctions weak \rightarrow Occasional breach
 - Inefficient to impose a rule lax enough that it can always be respected
- How to calibrate d*
 - If rule never breached, corresponds to tightest enforceable rule
 - Under probabilistic breach, d* weighs costs and benefits
 - Benefit of tightening d*: More discipline
 - Cost of tightening d*: More likely breach and sanctions
 - d* above average social needs conditional on binding limit
 - Additional benefit of relaxing limit is fewer costly sanctions

Challenges

- Determining whether rules have been broken is difficult
 - Off-balance sheet liabilities can grow
 - Need for independent fiscal councils
- Credibility of penalty mechanism is critical
 - Punishment through austerity measures hard to enforce
 - Credible punishments require a constituency that gains under penalty
 - Rule abandonment for the next administration more credible
- Private sector response to rule breach should be considered
 - Higher interest spreads in response to rule breach is a market penalty

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Supranational Rules

- More than half of fiscal rules are supranational
 - Many countries have national and supranational rules
- Rationale for supranational rules: Tragedy of the Commons
 - Individual borrowing decisions affect regional interest rates
 - High borrowing by one country risks future inflation in region
 - Future default by one country can have contagion effect on region
- Can frame as commitment vs. flexibility plus externality

Challenges

- Imposition of uniform threshold may be inappropriate
 - Countries differ on bias, fiscal needs, and benefit of flexibility
 - Conditioning on market signals (spreads) potentially more appropriate
- Direction and magnitude of externality is ambiguous
 - Tight rules can reduce regional interest rates, promote irresponsibility
 - Countries with more stringent national rules impose externality on others
 - This force pushes for even tighter supranational rules
- Issues with enforcement
 - Collective action problem and disagreement
 - External authority ideally less subject to political pressure

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Escape Clause

- Costly review process to break rule
 - Decision by independent fiscal council, legislature, or referendum
 - Example of reasons: natural disaster, financial crisis, accounting change
- Comparison to enforcement
 - Like enforcement, costly to trigger, deters government from spending
 - Unlike enforcement, costs directly related to evaluation
 - Useful even in absence of enforcement issues
- With escape clause, deficit limit d* can be tighter
 - Allows more flexibility in response to extreme conditions
 - Optimal if review is cheap, shocks volatile, deficit bias severe
 - d* above average social needs conditional on binding limit
 - Additional benefit of relaxing limit is fewer costly reviews on margin
 - Main challenge: Interpretation of events subjective, costly delays

Design of Fiscal Rules

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Instrument-Based Rules

- Rules can constrain different instruments of policy
 - Example: tax rate/spending rules, "golden rules" on capital spending
- Rationale for different thresholds
 - Slacker rules for tools associated with volatile needs (e.g., military)
 - Slacker rules for tools associated with less bias (e.g., capital)
- Multiple layers optimal if complementarities in instruments
 - e.g., forecasted deficit rule on top of tax rate/spending rule
 - Optimal if temptation to spend rises if tax rates low

Instrument-Based vs. Target-Based Rules

- Target-based rule focus on outcome of policy
 - Example: deficit to GDP ratio, tax revenue
- Comparison to instrument-based rule
 - Directly ties incentives to economic goals
 - More instrument discretion to respond to macro conditions
 - Macro surprise risk: Penalties for rule breach despite best efforts
 - Optimal rule balances this risk against benefit of reining in bias
 - Rule admits threshold outcome beyond which penalties ensue
 - Target (average) outcome below threshold
- When are target-based rules better?
 - If government has sufficiently superior information about macro risks
 - If government bias not very severe
 - If penalties for rule breach are very severe, impose lots of discipline
 - Hybrid rules dominates either (e.g., Switzerland)
 - Instrument rule threshold, switches to target when violated

Summary

- Fiscal rules counteract rise in debt driven by political factors
- Commitment vs. flexibility tradeoff with many considerations
 - Information dependence
 - Enforcement
 - Cross-country coordination
 - Escape clauses
 - Instrument vs. target criteria
- Open questions
 - How do we reform the budget process to complement fiscal rule?
 - How do fiscal policy and rules impact political forces behind bias?
 - How can governments be compelled to adopt effective fiscal rules?