"Business Cycles and the Political Economy of Decentralised Finance: Lessons for Fiscal Federalism in the EU"

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The Questions

- Is subnational fiscal policy pro-cyclical?
- How pro-cyclical is it?
- What factors impact the sensitivity of subnational finances to the business cycle?

Why Does it Matter?

- The potential for conflicting fiscal responses from national and subnational governments
- The potential for subnational deficits to complicate aggregate fiscal balances
- EU's fiscal rules establish a difficult set of incentives for national governments
 - define requirements in terms of the general government's budget balance
 - Subnational challenge to traditional Keynesian fiscal policy of national governments
- In the big picture, what are the fiscal implications of ongoing processes of decentralization? And what can be done to mediate its downsides?

The Argument

Subnational fiscal policy is pro-cyclical by design

- Narrow, pro-cyclical revenue streams
- The political economy of intergovernmental transfers
 - The distinction between national tax-transfer systems and grants
 - The importance of symmetric income shocks
- Limited capacity to borrow
 - Rules limiting access to credit markets

	Volatility of	Discretionary	Access to	Severity of	Expected Degree	
	Tax Base	Grants	Credit	Business Cycle	of Pro-cyclicality	
Canada	Medium	Low	High	Medium	Low	
U.S.	Medium	Medium	Medium	Low	Medium	
Germany	Low	Low	Medium	Low	Medium	
Australia	Medium	Low	Medium	Low	Medium	
Spain	Medium	Medium	Medium	Medium	Medium	
India	High	Medium	Low	High	High	
Brazil	High	Medium	Low-High	High	High	
Argentina	High	Medium	Low-High	High	High	

 Table 1: Determinants and Expectations of Subnational Fiscal Cyclicality

Data & Methods:

- Real per capita fiscal and income data by region across 8 federations for at least 12 years
- Dependent and independent variables measured as deviation from trend
- All models include region dummies; some include year dummies
- Three approaches:
 - Simple elasticities
 - Disaggregating positive and negative shocks
 - Dynamic approach

		Revenue	Own-source revenue	Grants	Revenue-sharing receipts	Discretionary grants	Expenditures	Surplus
U.S. states	without year dummies including year dummies	0.68 ***	0.84 ***	0.42 -0.25 **	na	na	0.37 ***	0.05 ***
Canadian provinces	without year dummies including year dummies	0.89 ***	1.05 ***	0.41 -0.68 **	na	na	0.39 **	0.15 ***
German Länder	without year dummies including year dummies	0.93 ***		1.09 ***	* na	na	0.57 ***	X
Australian states	without year dummies including year dummies	0.78 ***	1.60 **	x 0.84 **	na	na	х	0.44 **
Spanish Regions	without year dummies including year dummies	0.93 **	1.39	x x	na	a na	х	Х
Indian states	without year dummies including year dummies	0.42 *	Х	x x	х	x x	0.67 ***	* X
Brazilian states	without year dummies including year dummies	1.62 ***	2.06 ***	1.56 *** 0.52 ***	* x * -1.48	7.58 7.58 8 8 *** 4.6	*** 1.67 ***	x
Argentine provinces	without year dummies including year dummies	0.36 **	1.15 ***	0.3 * 0.09 *	0.38 0.15	3* x 5 1.07	• 0.3 ***	x

Table 1: Income elasticities for provincial budget items

Percent deviation from trend in budget item was regressed on percent deviation from trend in provincial income, including fixed provincial effects, assuming ar1 correlation of residu Only coefficients where p<.25 are reported. Where p>.25, the cell contains an x. Empty cells imply that appropriate data were unavailable.

* p<.1

** p <.05

*** p <.01

Table 2: Responses of provincial budget items to positive and negative shocks										
	Revenue		Own-source revenue		Grants		Revenue-sharing receipts		Discretionary grants	
	Pos. shock	Neg. shock	Pos. shock	Neg. shock	Pos. shock	Neg. shock	Pos. shock	Neg. shock	Pos. shock	Neg. shock
U.S. states	0.52 ***	0.85 ***	0.87 ***	0.81 ***	x	1.08 **	na		na	
Canadian provs	0.43 **	1.6 ***	0.45 **	1.99 ***	x	x	na		na	
German Länder	0.66 ***	1.18 ***	na		1.77 *	x	na		na	
Australian states	х	1.56 ***	х	2.43 ***	x	x	na		na	
Spanish ACs	0.64 ***	x	0.74 ***	* X	0.9 ***	×	na		na	
Indian states	х	0.67 *	х	х	-1.5	1.5	x	x	x	2.16 *
Brazilian states	1.62 ***	1.85 ***	2.3 ***	2.05 ***	1.52 ***	1.59 **	* x	x	x	14 ***
Argentine provs	0.52 ***	x	0.94 ***	×	0.4 *	x	x	0.66 *	* 4.28	** X

	Expe	enditu	res	Surplus						
	Pos. shock	N	leg. shock		Pos. shock		Neg. shock			
U.S. states	x		0.59	***	0.06	***	0.03			
Canadian provinces	x		1.02	***	0.13	**	0.19	*:		
German Länder	0.83	***	x		x		x			
Australian states	x		x		x		0.51	,		
Spanish regions	0.72	***	x		0.16		0.63			
Indian states	x		1.13	***	x		x			
Brazilian states	1.62	***	1.72	***	x		x			
Argentine provs	0.41	***	x		x		x			

Only coefficients where p<.25 are reported. Where p>.25, the cell contains an x. "NA" indicates that appropriate data were unavailable.

* p<.1

** p <.05

*** p <.01

A Dynamic Approach: Group 1



A Dynamic Approach: Group 2



Conclusions and Questions

- Subnational fiscal policy is pro-cyclical by design
- Policy lessons:
 - The need for recession-proof revenue sources
 - Grants do not smooth subnational budgets
 - Independent grant commissions are better than otherwise
 - Restrictions on borrowing are likely to be counterproductive

Questions:

- To what degree is subnational pro-cyclicality erasing national counter-cyclical efforts?
- Do subnational and intergovernmental politics matter?
- What are the implications of decentralized welfare prevision given these findings?