

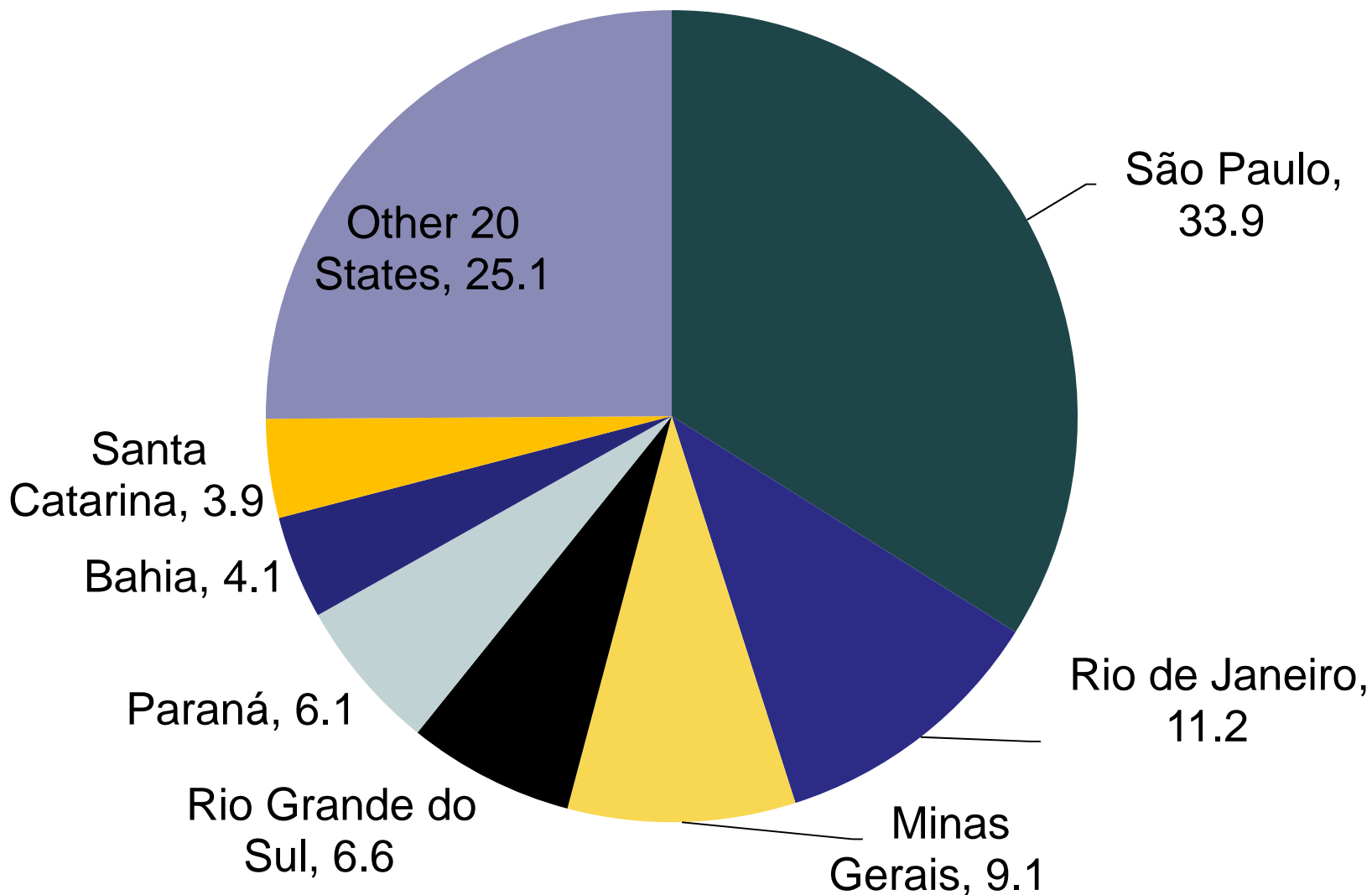
A panorama of Science, Technology and Innovation indicators in Brazilian States

General-Coordination of Indicators
Ministry of Science & Technology - Brazil



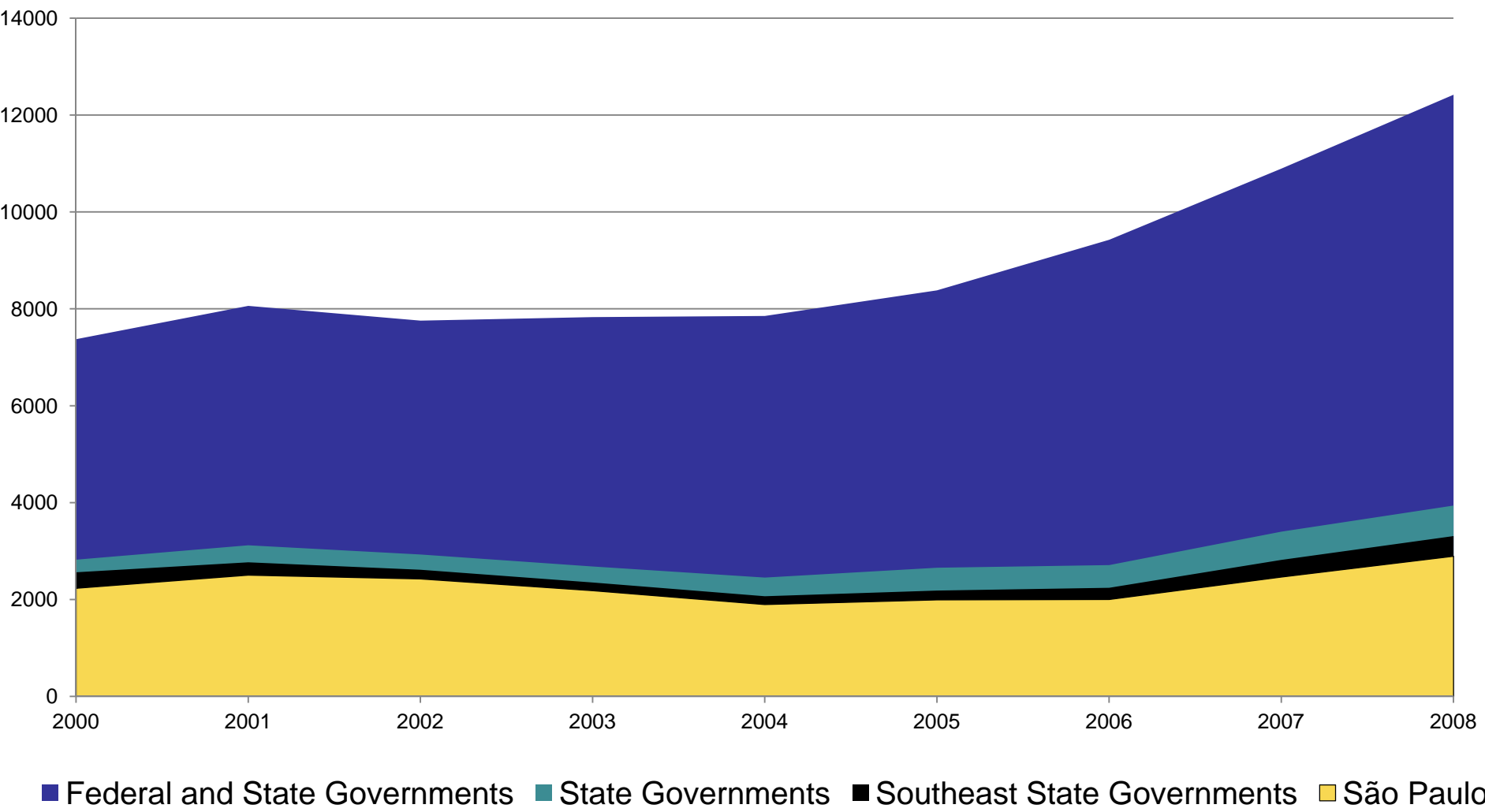
Brazilian States: Heterogeneity

Percentage of GDP by State, 2007

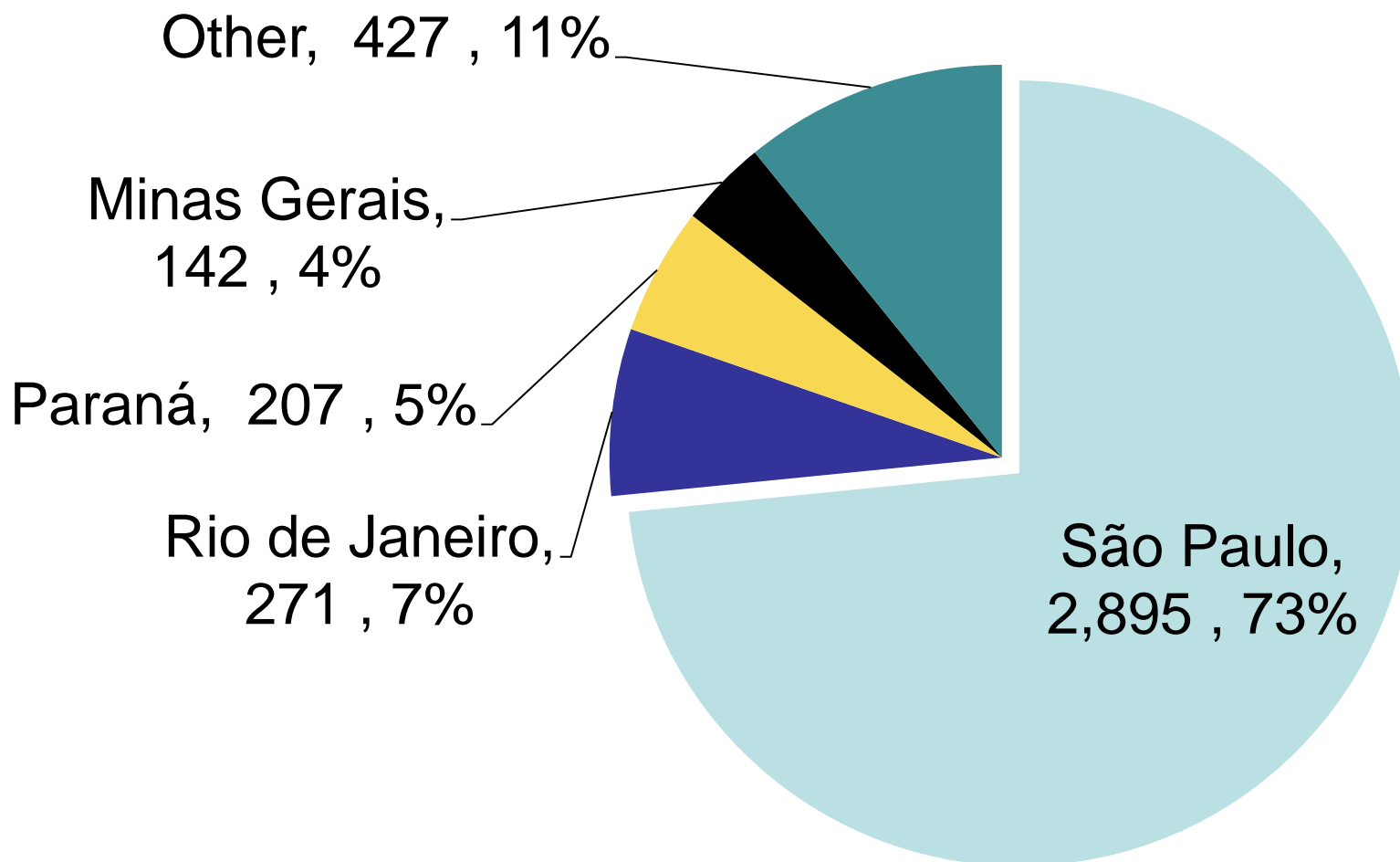




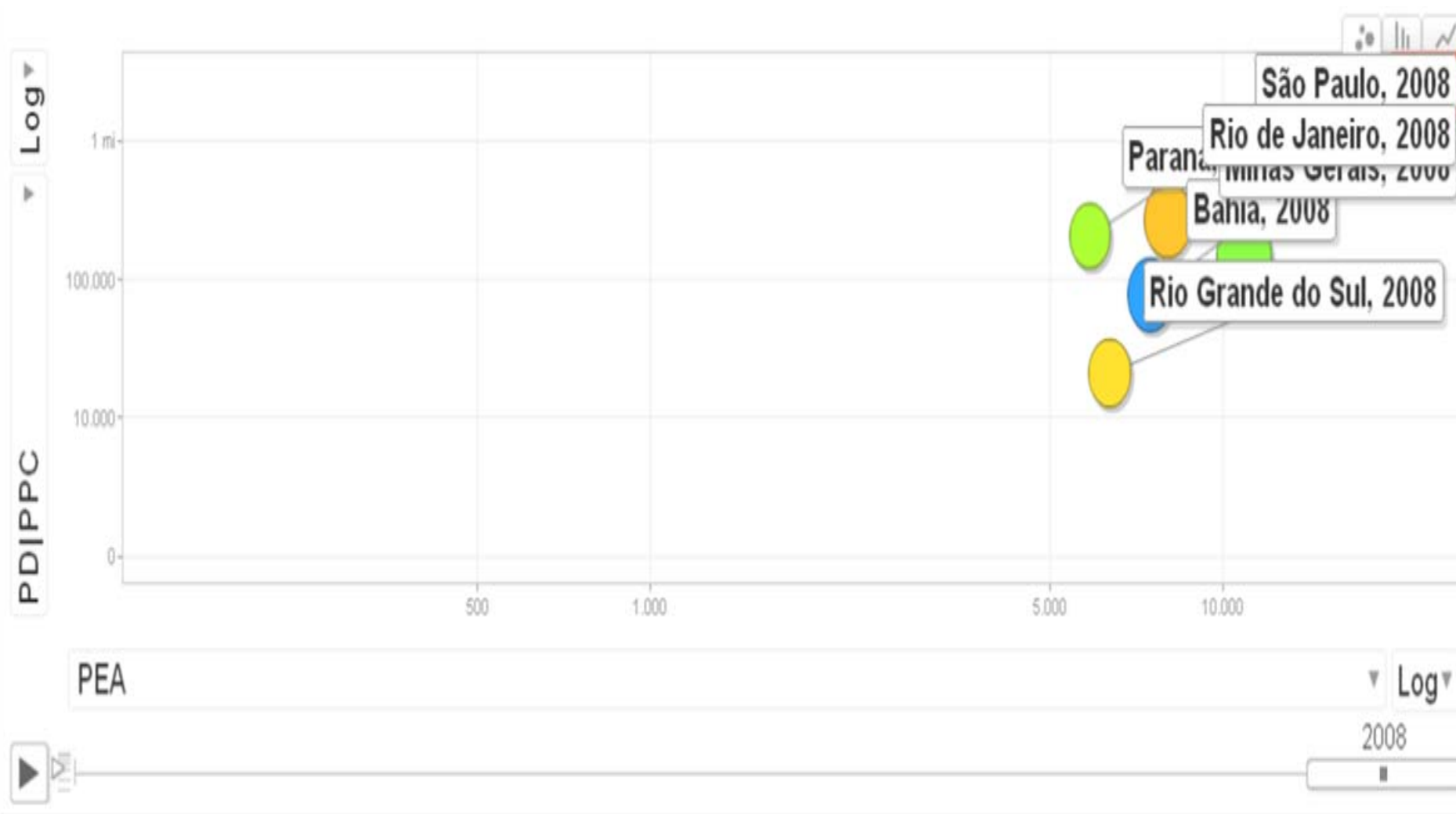
Brazil's government financed GERD: total, state gov., region & state with highest expenditure, 2000-2008, USD Millions PPP



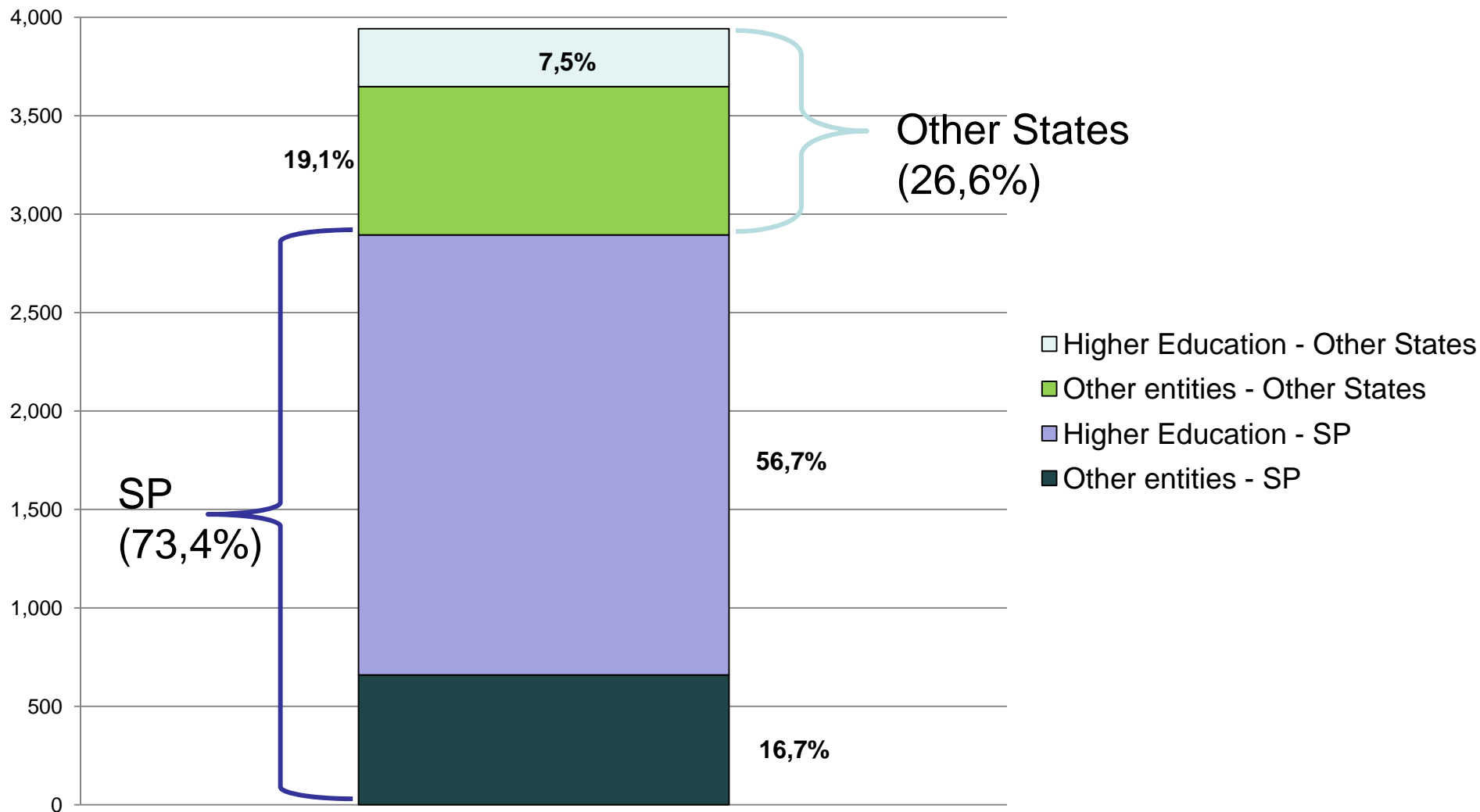
Brazil: State Governments financed GERD by state, 2008 (USD millions PPP)



Brazil: State Governments financed GERD by state, 2008 (USD thousands PPP)

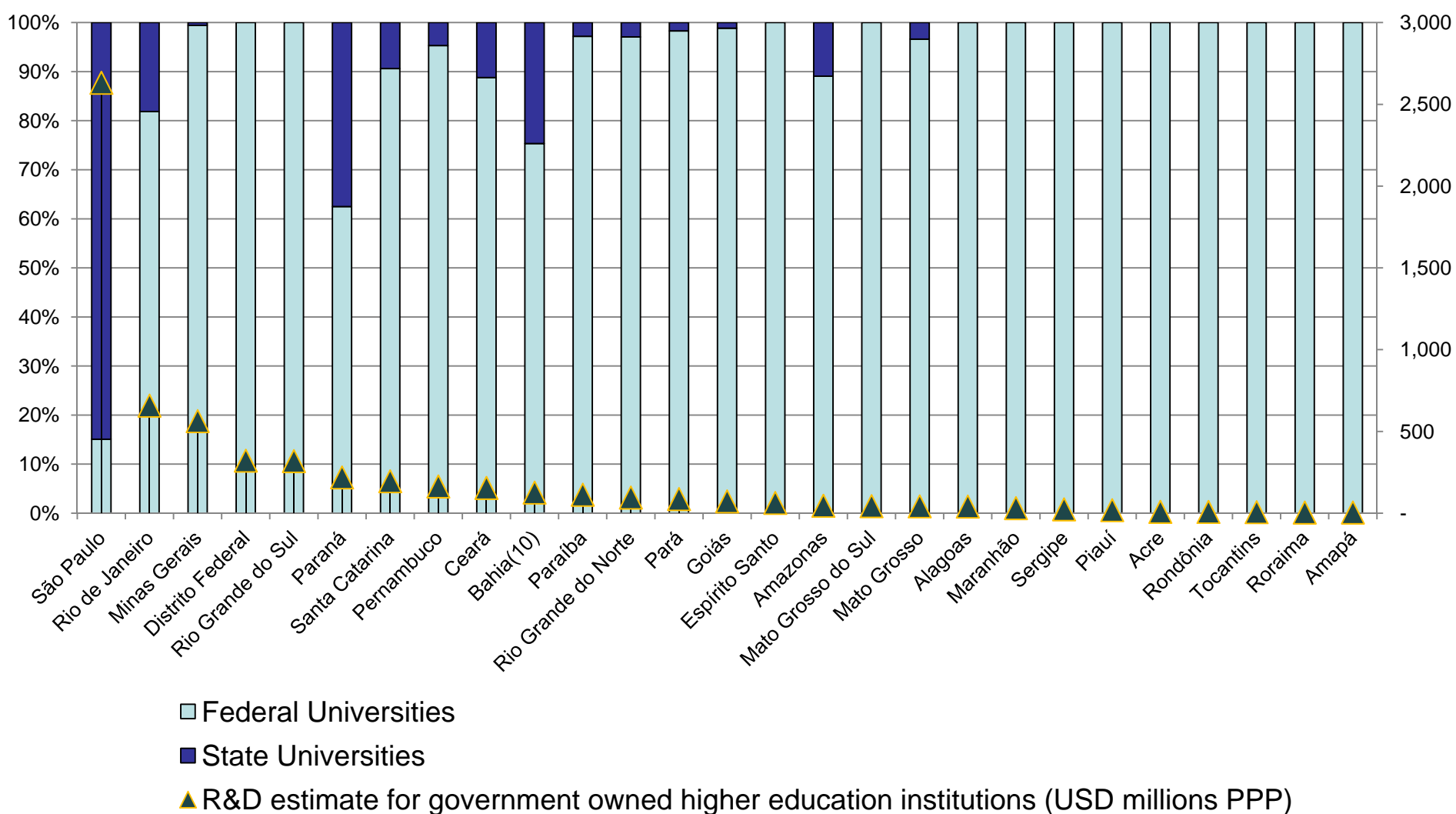


Brazil: State Governments financed GERD perf. by the state gov. owned higher educ. inst. and by other entities, São Paulo and other States, 2008 (USD millions PPP)

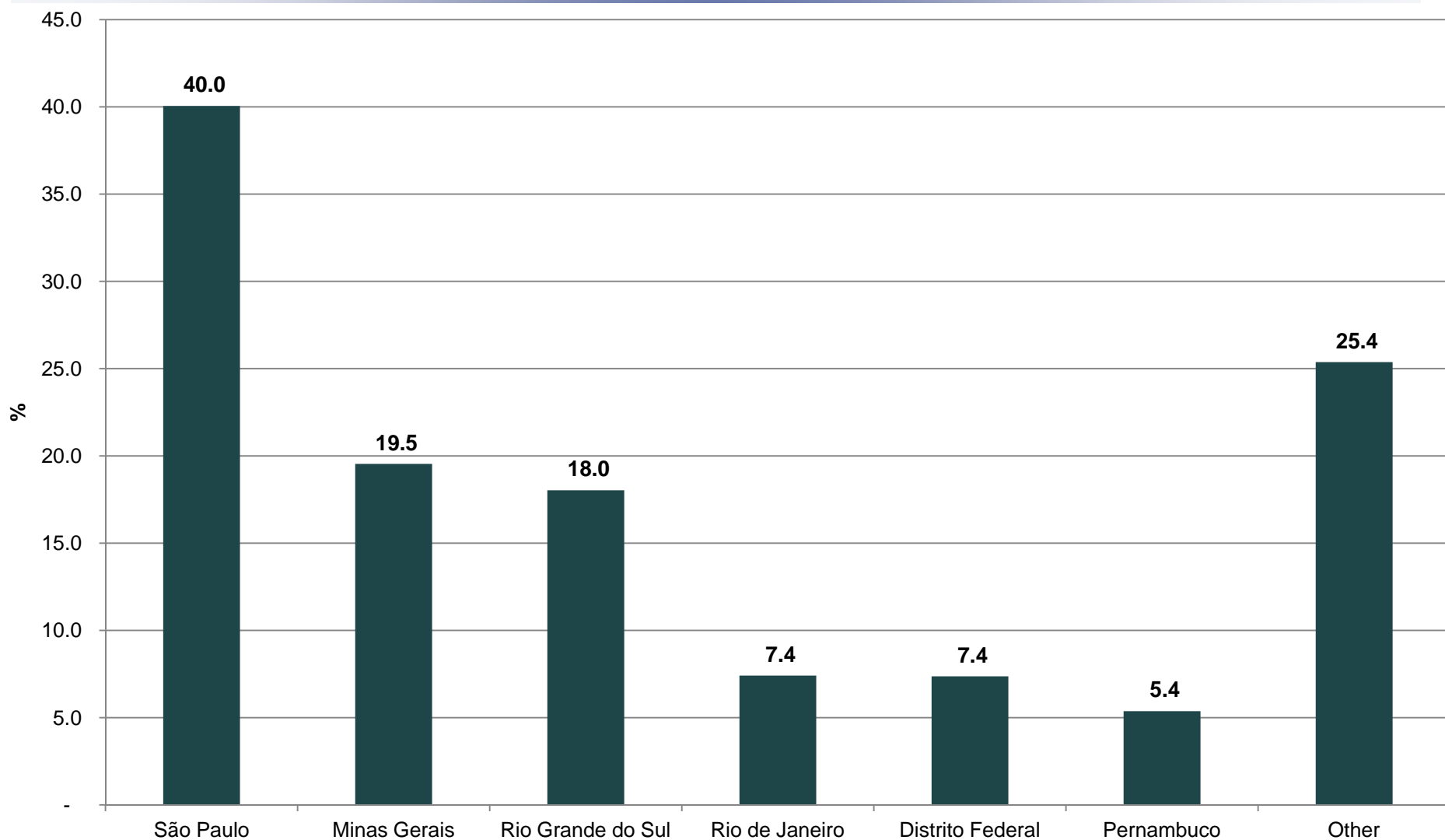




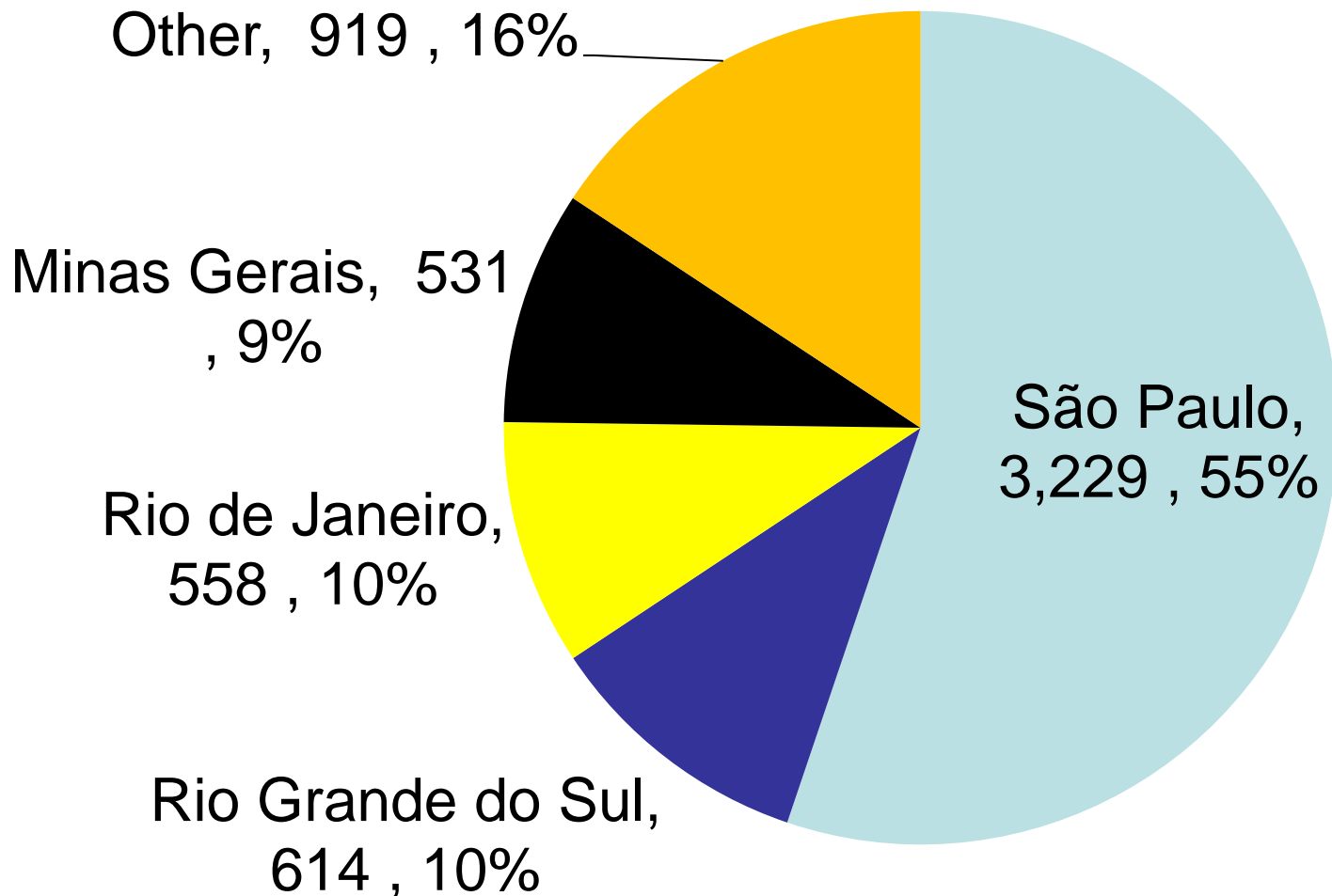
Percentage of higher education expenditure on R&D by federal and state owned inst. by state, 2008



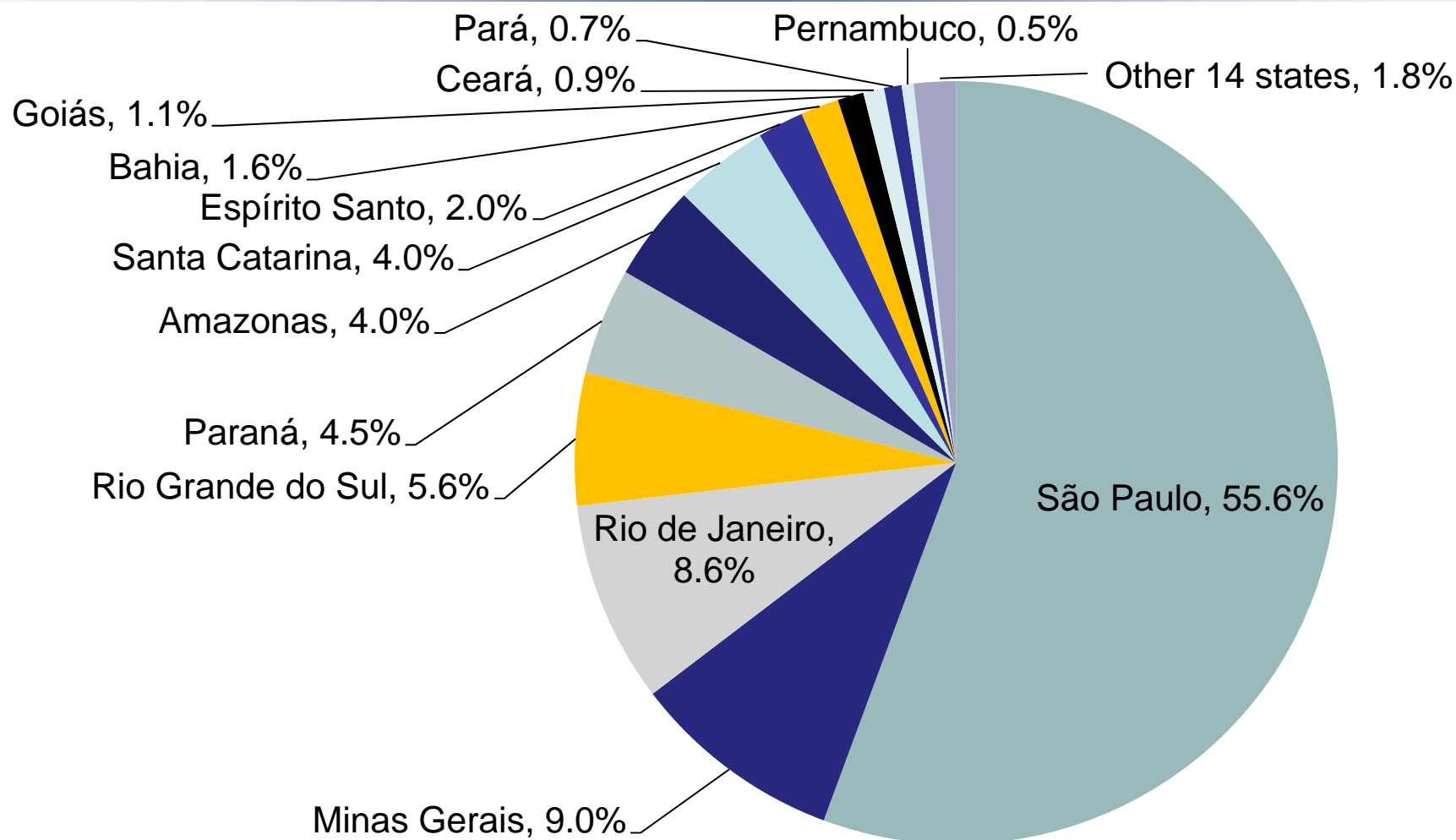
Percentage of indexed Brazilian scientific articles by state on Web of Science, with double counting, 2008



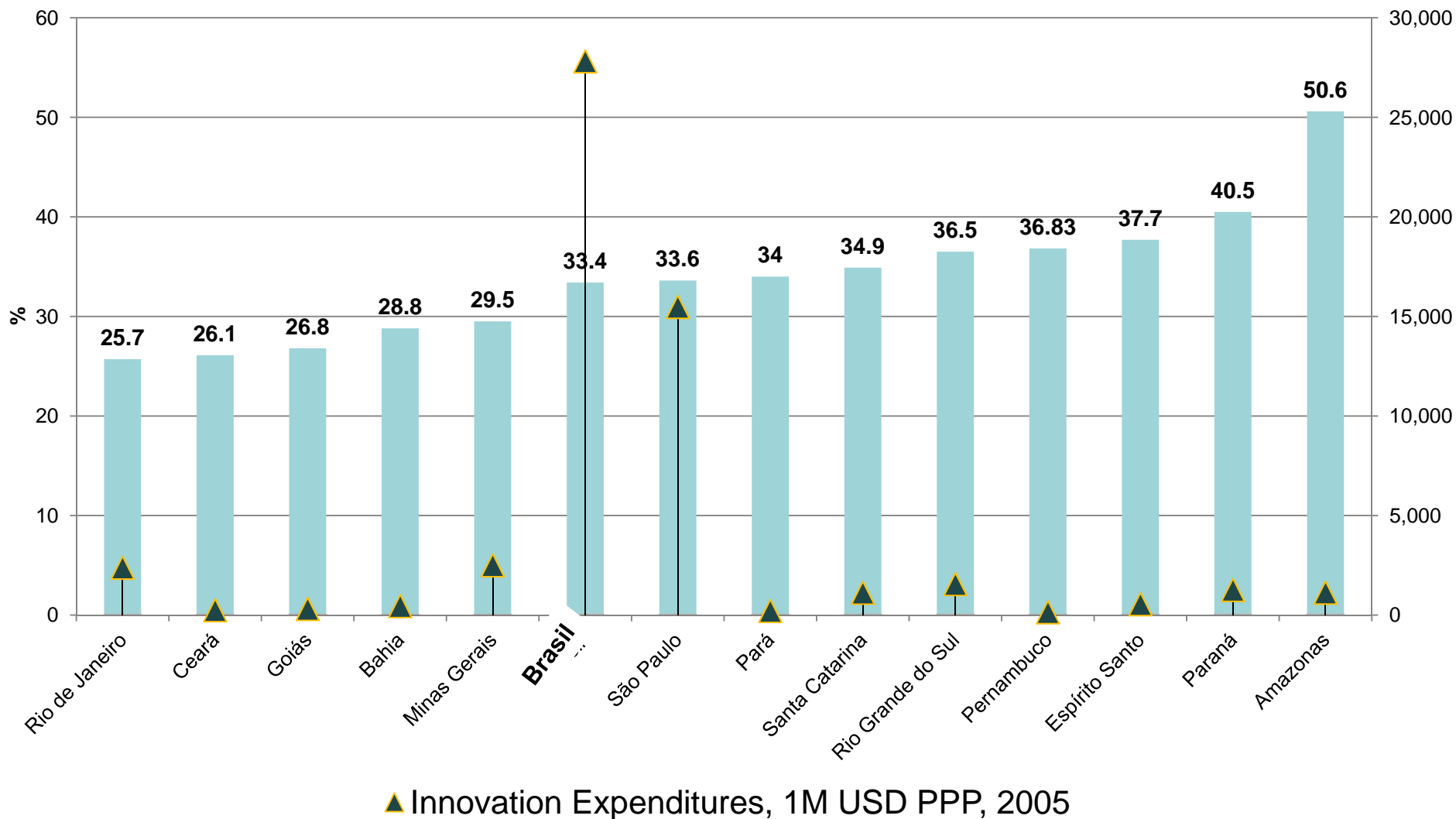
Brazil: Number of patents granted by state of residence of applicant at National Inst. of Indust. Prop. (INPI), 2000-2008



PINTEC 2005: Innovation activities expenditure by state, 2005



PINTEC: Percentage of firms having introduced product or process innovation in mining, quarrying and manufact., 2003/2005



Perspectives: IBGE's Technological Innovation Survey PINTEC 2008

- Current level of detail (PINTEC 2005):
 - Innovation in mining, quarrying and manufacturing enterprises by geographical regions & States where Industry GDP > 1%
- PINTEC 2008 (expected: oct/2010):
 - + services enterprises innovation by geographical regions & States where Services GDP > 5%

Perspectives: Methodological overhaul @ MCT – Regional Focus

- State Government:
 - Co-operation with local S&T institutions to assure comparability with locally produced indicators & measure local initiatives;
- Federal Government:
 - Expenditures by state;
- Business Enterprise sector state estimate:
 - PINTEC 2008 +
 - Fiscal Info (revenue tax) +
 - Innovation survey for Federal Gov. owned enterp.

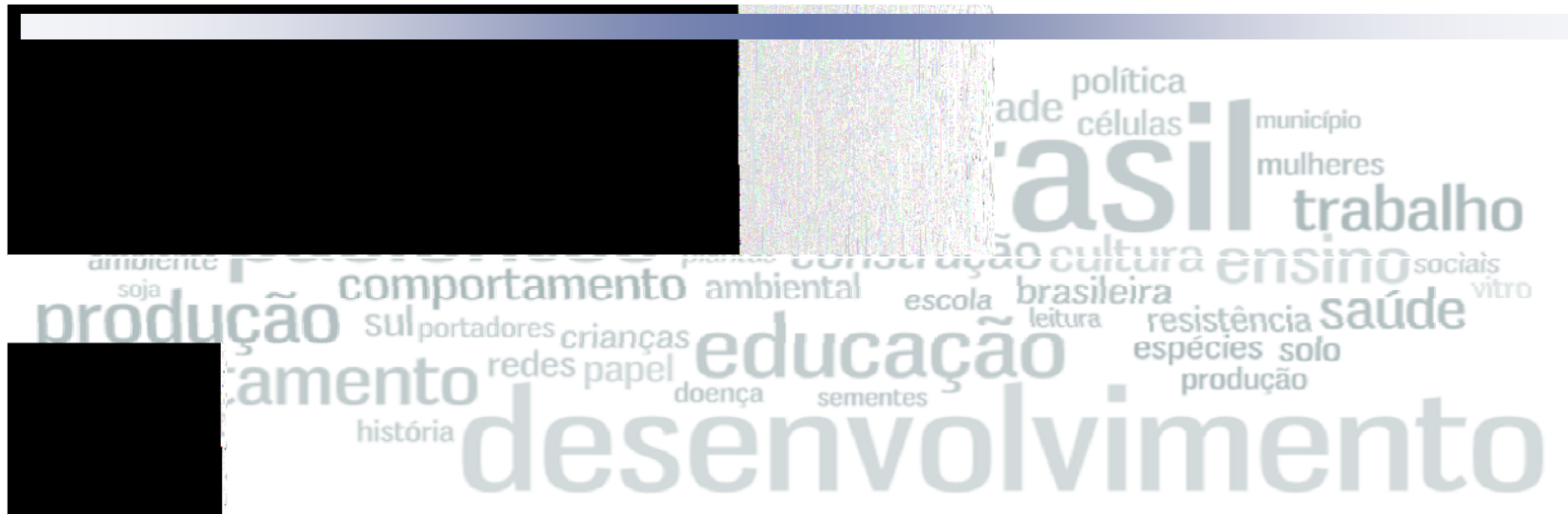
Doutores 2010: PhDs by degree and work

State, 1996-2006

	Unidade da federação do emprego																									
	AC	AM	AP	PA	RO	RR	TO	AL	BA	CE	MA	PB	PE	PI	RN	ES	MG	RJ	SP	PR	RS	SC	DF	GO	MS	MT
AM	3	101	1	15	2	8	2	2	2		3		1	1	1	4		4	1				2		2	7
PA		12	13	234	14	4		1	2	2	9	2	2	4	1		2	5	2		1	1	2	1	1	3
RO					1																					
AL				1				64	1			3	2		1				1				2			
BA	3	1		10	1		1	7	737	19	2	8	18		3	4	11	5	4	5	10	4	14	2	3	6
CE	2	4		18	4		4	8	16	585	4	28	14	38	23	2	2	2	3	2	2		9			5
MA											9			2												2
PB	2	7	3	11	2	8	3	25	40	35	10	375	67	5	41	1	3	1		2	4	1	9			5
PE	4	6		23	1	4	5	81	59	71	9	179	817	37	32	1	9	10	13	7	8	3	41	3	1	4
RN	1	4		15	2	1	2	2	23	20	9	49	18	17	271		1	12	2	2	1	1	6	1		
SE									8	3													1			
ES		2						1	1			1	1			96	5	2	2		1		1			3
MG	19	46	5	74	15	25	47	19	173	61	8	54	48	44	18	128	2863	139	153	86	58	45	168	136	57	101
RJ	10	52	11	113	10	14	25	66	200	88	16	75	96	37	32	234	680	6715	181	155	138	71	352	51	43	67
SP	85	270	33	419	115	43	111	194	967	424	126	384	361	192	194	341	2208	1236	14002	2502	892	714	799	584	631	488

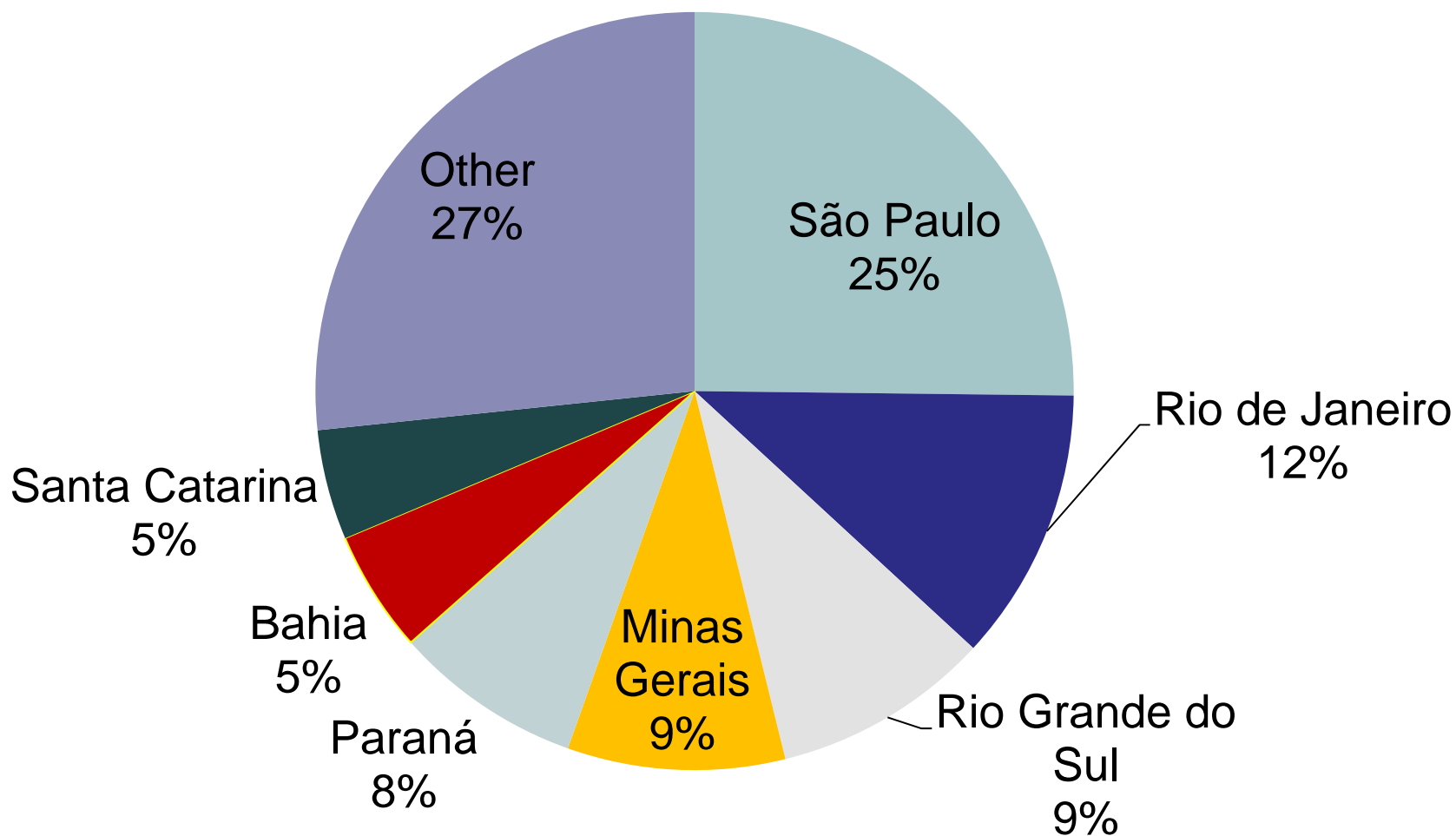
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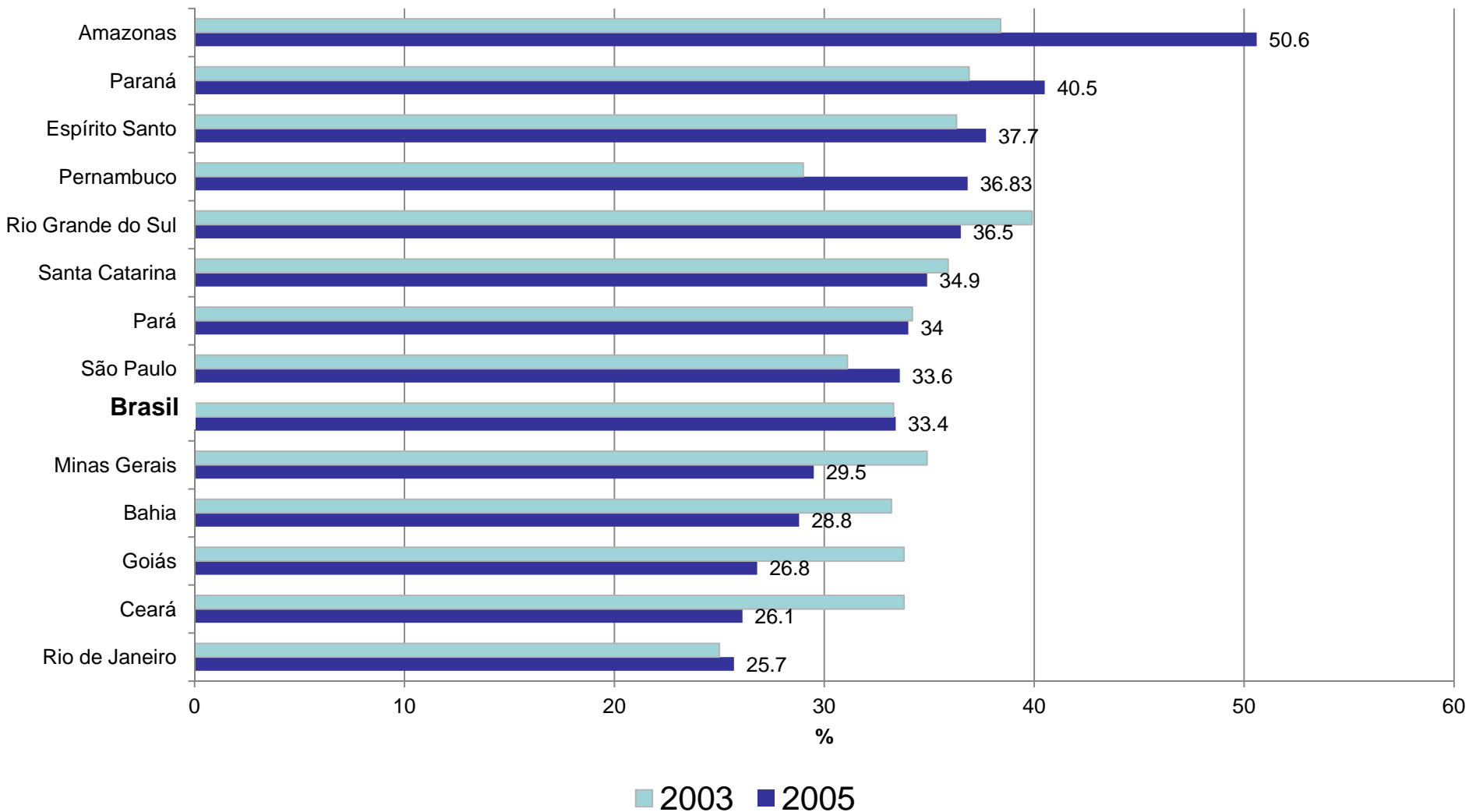


UF's selecionadas	Gasto Total		P&D Interno	
	2005	2003	2005	2003
1º - São Paulo	3,4	2,8	0,7	0,7
2º - Minas Gerais	3,2	2,4	0,5	0,3
3º - Amazonas	3,1	2,7	0,6	0,7
4º - Goiás	3,0	1,9	0,2	0,1
Total Brasil	2,8	2,5	0,6	0,5
5º - Espírito Santo	2,7	1,4	0,2	0,2
6º - Paraná	2,5	3,8	0,3	0,5
7º - Ceará	2,5	3,6	0,3	0,1
8º - Pará	2,3	2,3	0,1	0,1
9º - Rio Grande do Sul	2,2	2,2	0,4	0,4
10º- Santa Catarina	2,2	2,1	0,5	0,3
11º- Pernambuco	1,8	2,1	0,1	0,1
12º- Rio de Janeiro	1,6	1,3	0,6	0,5
13º- Bahia	1,4	1,8	0,3	0,2

Brazil: Researchers at CNPq's Directory of Research Groups, by state, 2008

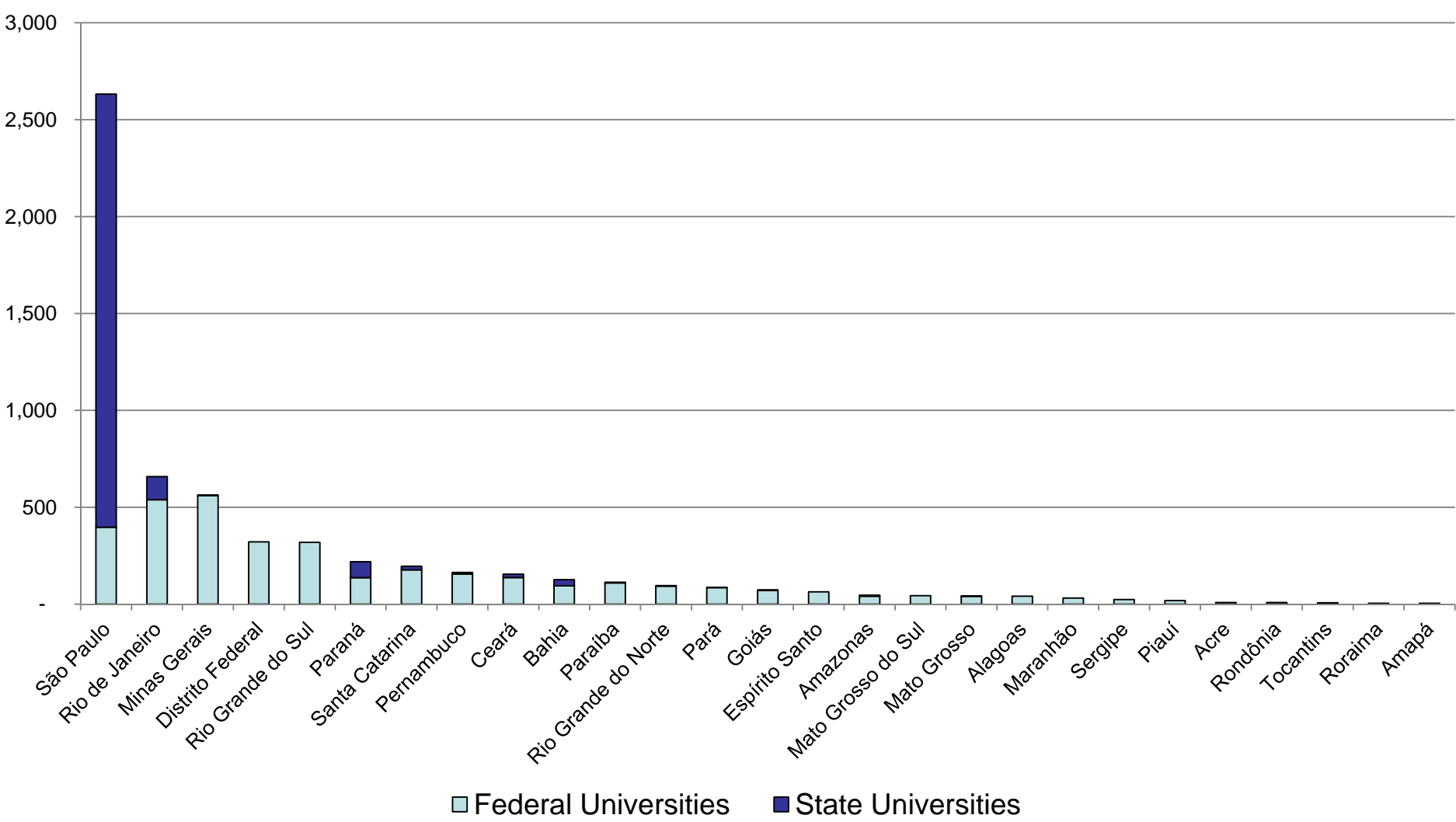


PINTEC: Percentage of firms having introduced product or process innovation in mining, quarrying and manufact, 2003/2005

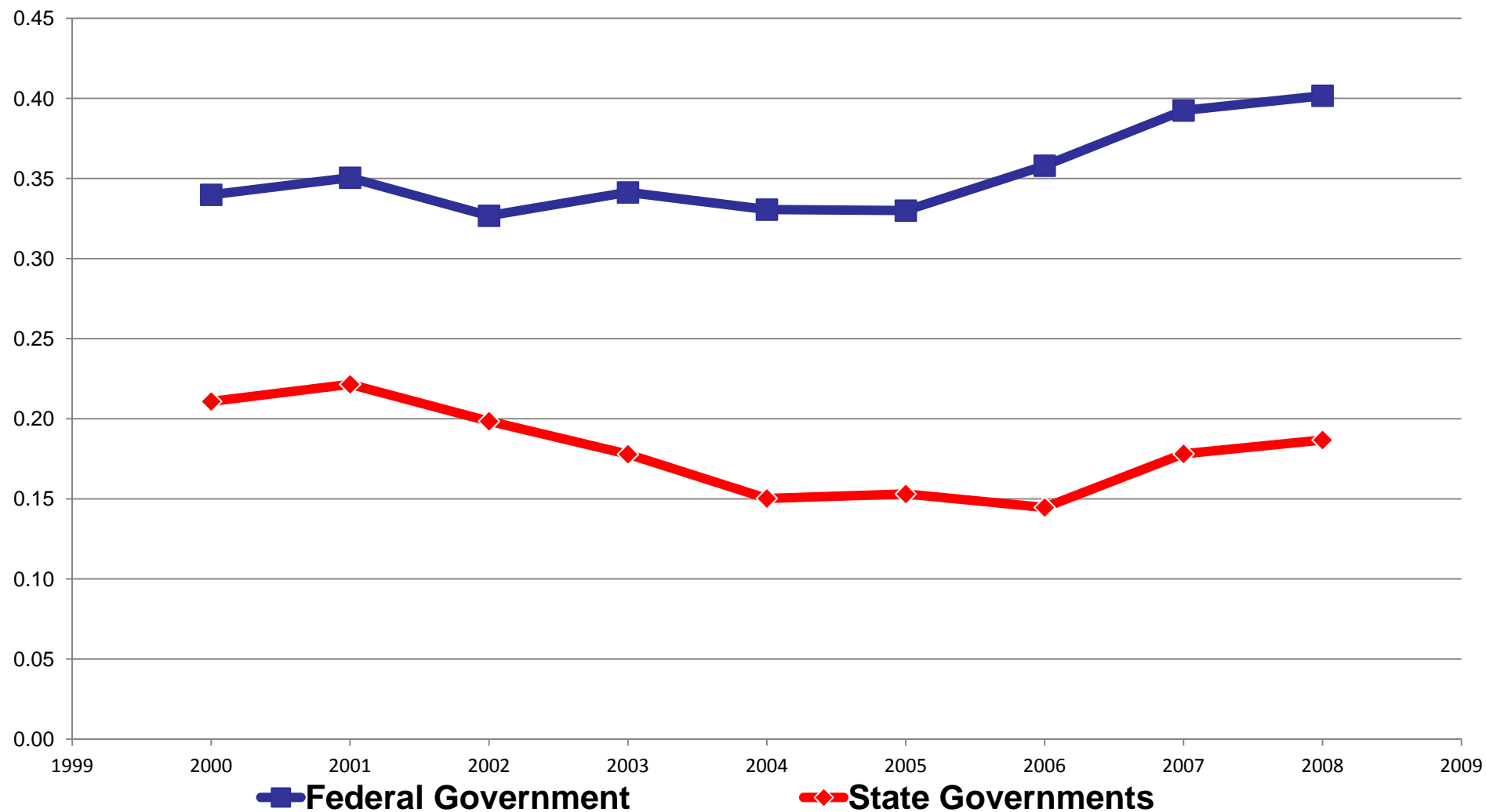


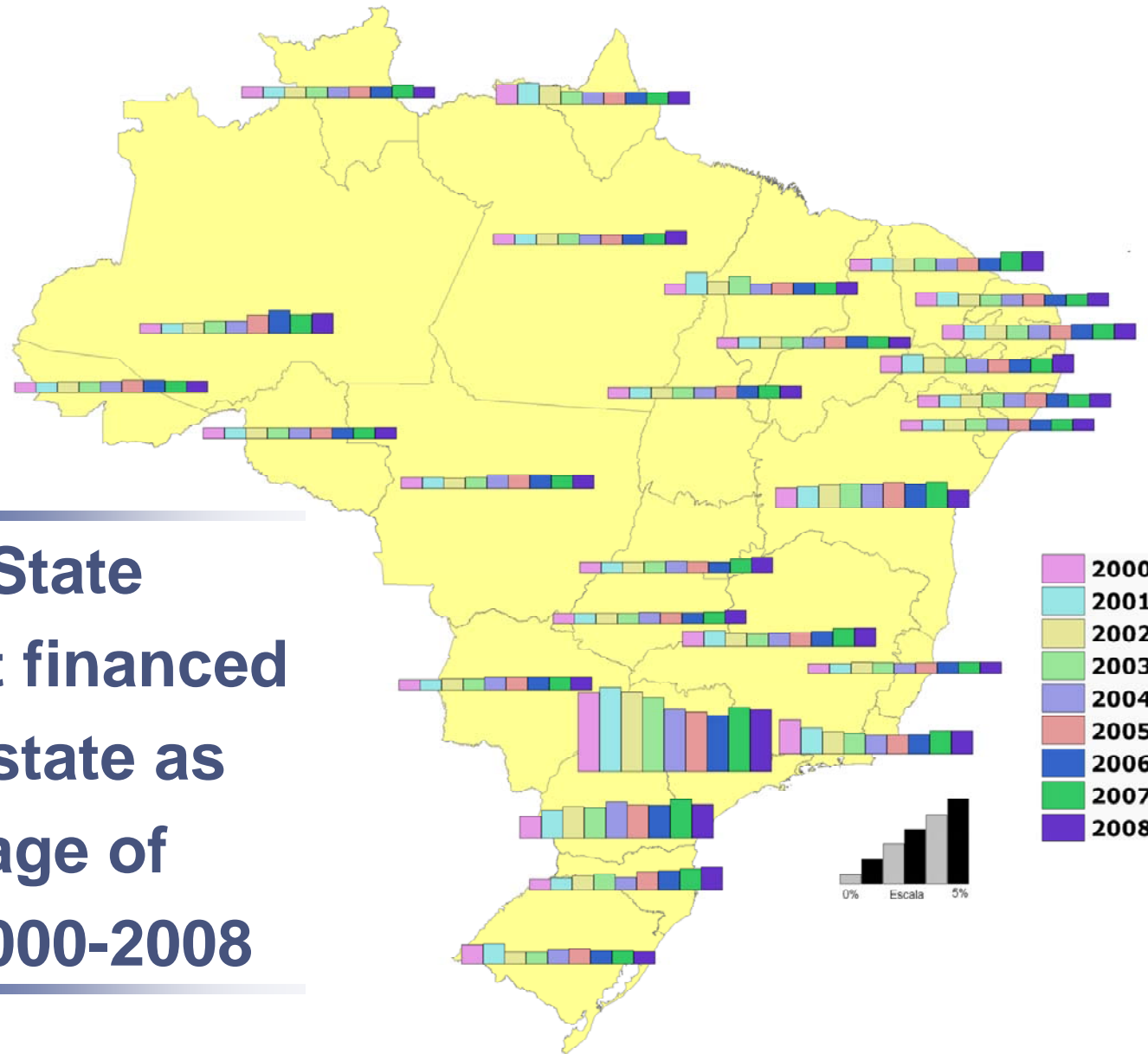


Higher education expenditure on R&D estimate for federal and state owned inst. by state, 2008 (USD millions PPP)



Brazil: Federal and State Governments financed GERD as percentage of GDP, 2000-2008

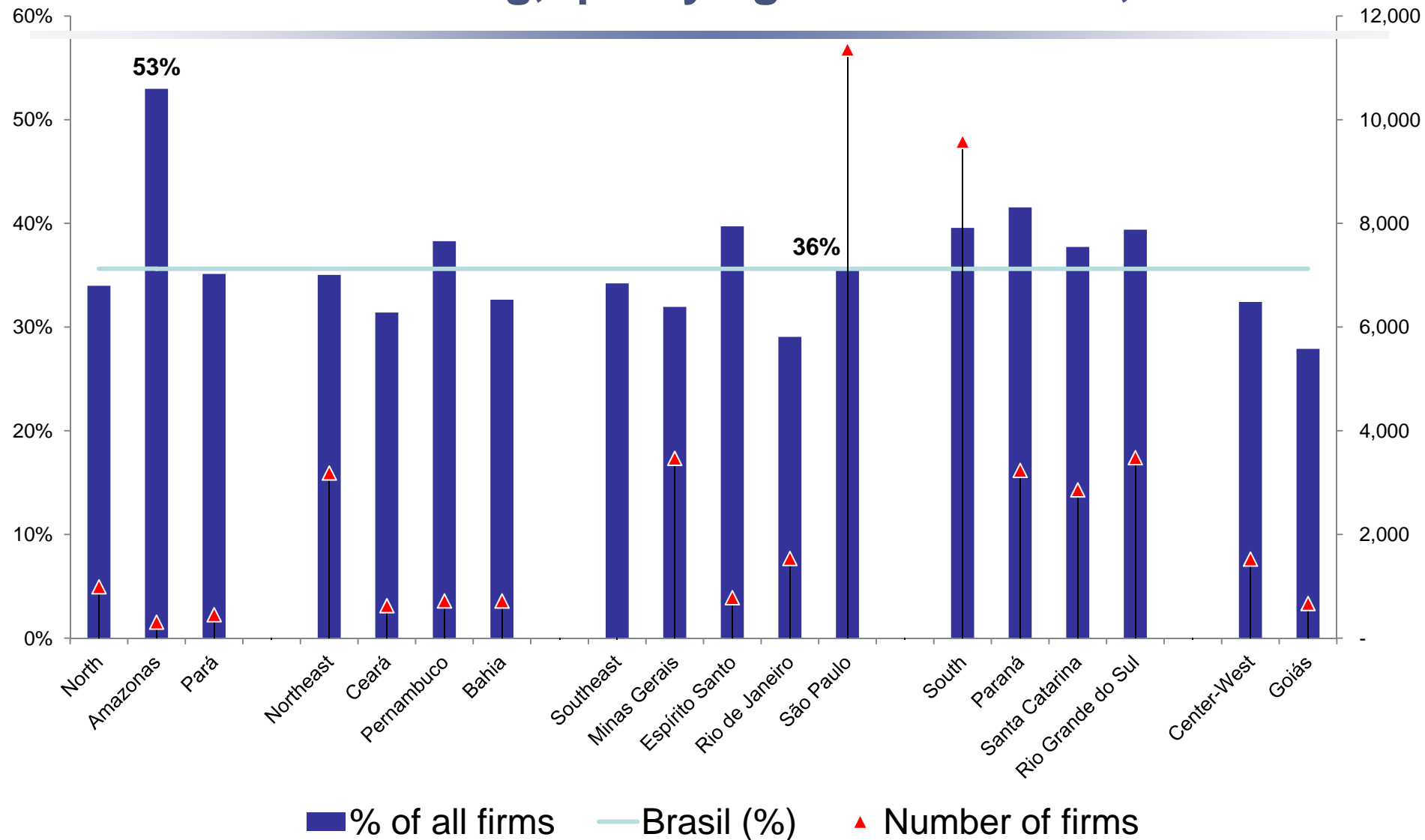




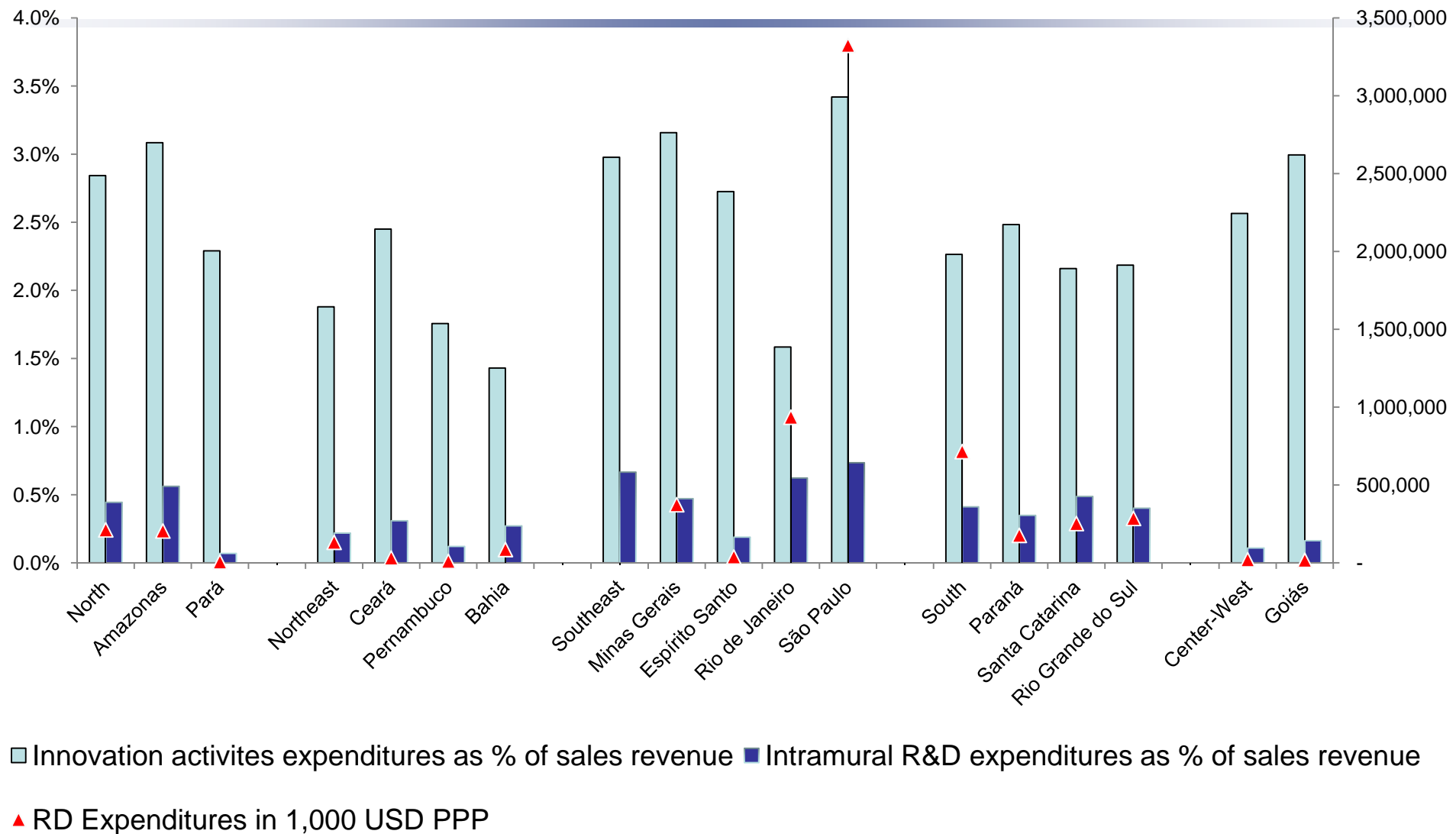
Brazil: State Government financed GERD by state as percentage of revenue, 2000-2008



PINTEC 2005: Firms having introduced a product or process innovation in mining, quarrying and manufact., 2003-2005



PINTEC 2005: Innovation activities expenditure as percentage of sales revenue in mining, quarrying and manufact., 2005



UF's selecionadas	Taxa de Inovação	
	2005	2003
1º - Amazonas	50,6	38,4
2º - Paraná	40,5	36,9
3º - Espírito Santo	37,7	36,3
4º - Pernambuco	36,8	29,0
5º - Rio Grande do Sul	36,5	39,9
6º - Santa Catarina	34,9	35,9
7º - Pará	34,0	34,2
8º - São Paulo	33,6	31,1
Total Brasil	33,4	33,3
9º - Minas Gerais	29,5	34,9
10º - Bahia	28,8	33,2
11º - Goiás	26,8	33,2
12º - Ceará	26,1	33,8
13º - Rio de Janeiro	25,7	25,0



