Latin America inequality: Recent decline and prospects for its further reduction

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Conference on Inequality: Measurement, Impacts and Policies

UNU-WIDER, Helsinki 05-09-2014

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FALLING INEQUALITY IN LATIN AMERICA

POLICY CHANGES AND LESSONS

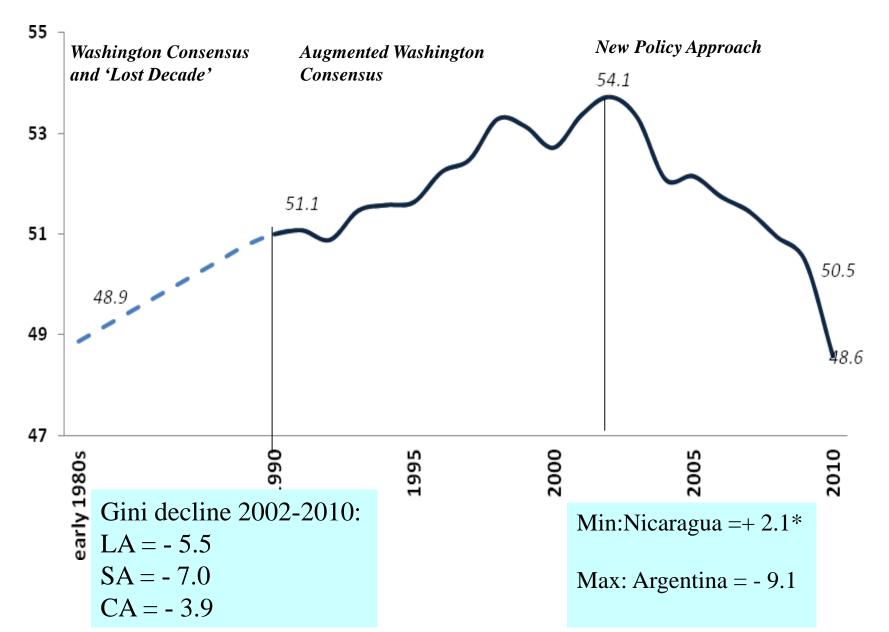
Edited by Giovanni Andrea Cornia

UNU-WIDER STUDIES IN DEVELOPMENT ECONOMICS

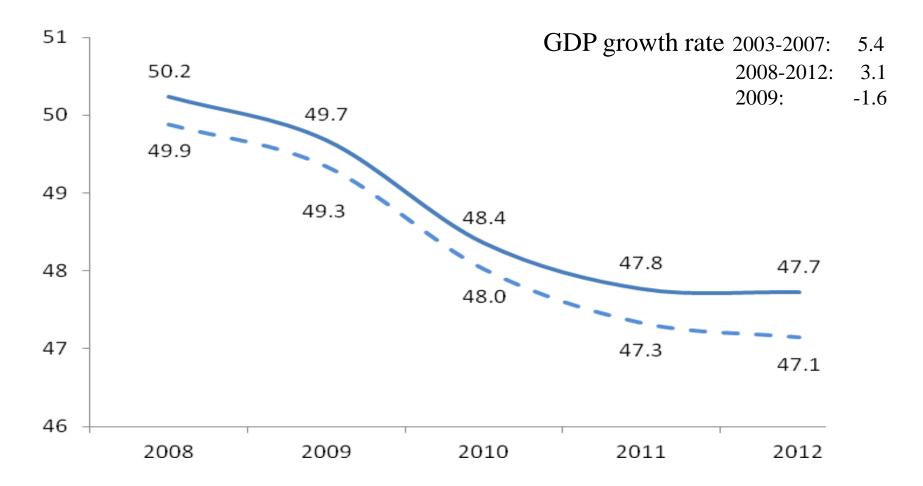
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- --Manchester
- --Monterey
- --Montevideo
- --The Hague
- --Tulane (US)

1. Trend in av. regional Gini of distribution of household income/c



Is the decline in Gini **cyclical** or **structural** ?..... Gini declines also during the turbulent years 2008-2012

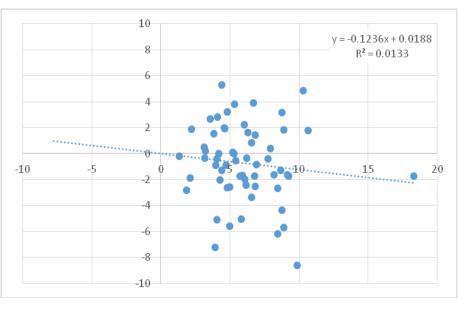


Cornia (2014) on CEDLAS & CEPAL data for 11 countries with complete data for 2008-12, i.e.: Argentina, Bolivia, Brazil, Colombia, CostaRica, Ecuador, El Salvador, Mexico, Panama, Peru and Uruguay. The dotted line includes Uruguay (which recorded a higher-than-average Gini drop over 2008-12. The solid lines excludes it.

Gini decline: cyclical or structural?

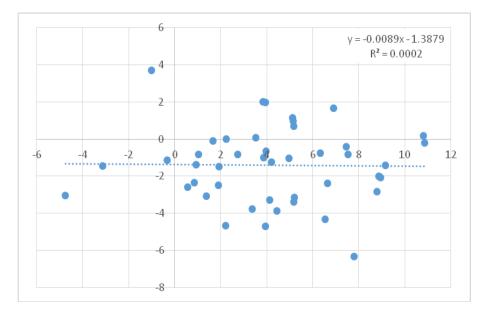


2002-2007



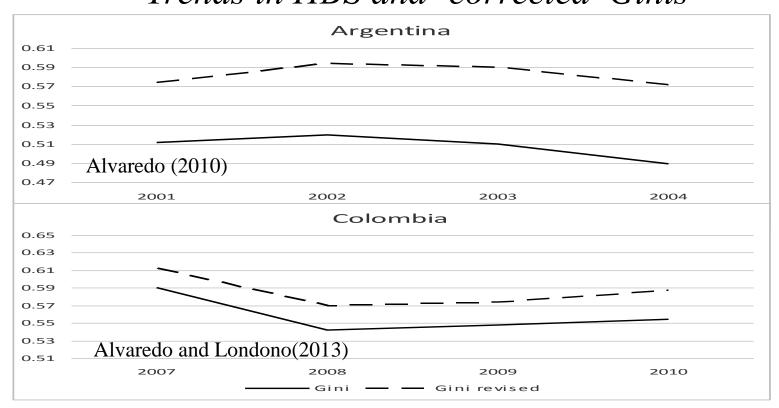
Gini gr.rate= 0.018(-0.02) - 0.123 GDP growth rate(-0.94) Note: t statistics in parenthesis.

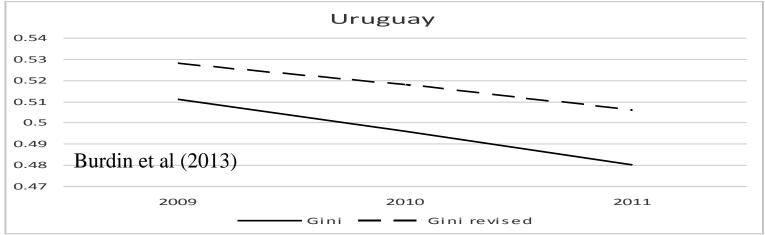
2008-2012



Gini gr. rate= - 1.387(-2.86) -0.009 GDP growth rate(-0.10)

But, do the HBS-Gini bias the inequality trend ?: *Trends in HBS and 'corrected' Ginis*





Latin America stands out in relation to other regions

Trends in the Gini coefficient of household income/c, 1980-2000 and 2000-2010

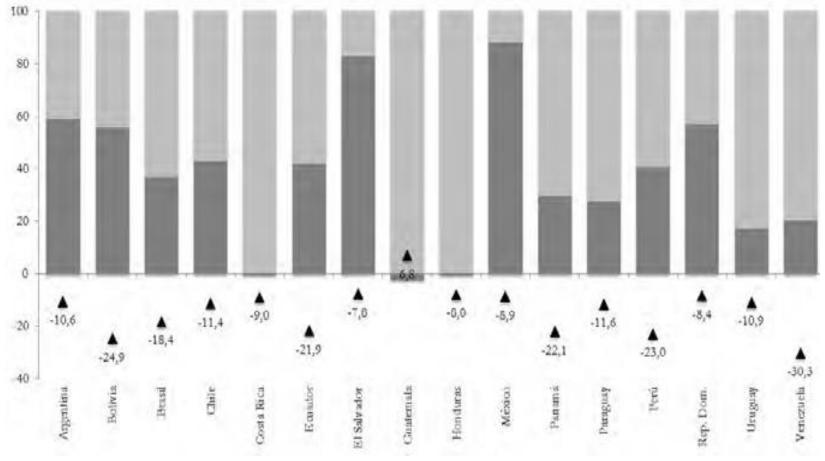
	OECD	EE-FSU	Asian	L.A.	MENA	SEA	South	SSA	World	
			Transition	ו			Asia			
	1980s and 1990s									
Period	1980	- 1990-	1980-	1980-	1980-	1980-	1980-	1980-		
	2001	l 1998	2000	2002	2000	1995	2000	1995		
Rising inequality	14	24	2	<mark>14</mark>	2	5	3	9	73	
No change	1	0	1	1	3	0	0	2	8	
Falling inequality	6	0	0	<mark>3</mark>	3	2	2	8	24	
Total	21	24	3	18	8	7	5	19	105	
				2000-2	010					
Period	2000-	1998-	2000 -	2002-	2000-	1995-	2000-	1995-		
	2010	2010	2009	2010	2007	2009	2010	2007	Total	
Rising inequality	9	13	2	<mark>2</mark>	4	3	4	7	44	
No change	4	5	1	<mark>1</mark>	0	0	1	1	13	
Falling inequality	8	6	0	<mark>15</mark>	4	<mark>4</mark>	0	<mark>13</mark>	50	
Total	21	24	3	<mark>18</mark>	8	7	5	<mark>21</mark>	107	

Source: Cornia and Martorano 2012

Relevance:

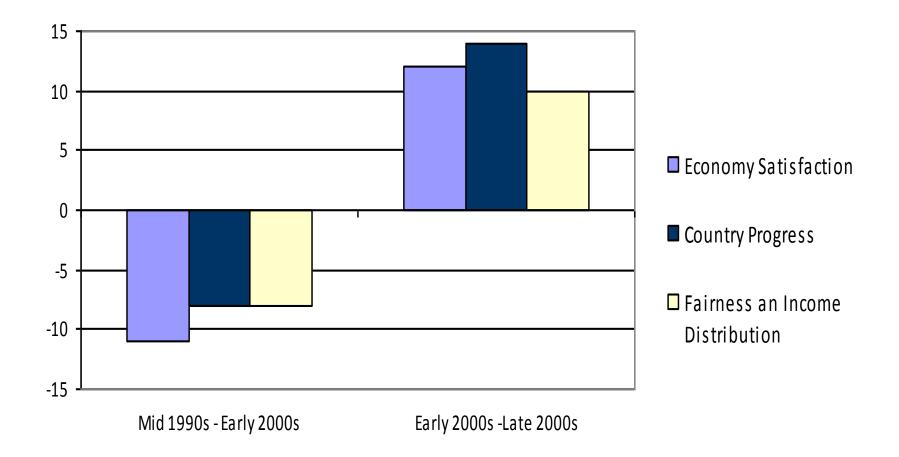
inequality drop accounts on average for 40% of poverty decline

Dark bar = distributive effect, **Light bar** = growth effect, **Arrow** = %f poverty drop



Source: Lustig, Lopez-Calva, Ortiz 2014

Changes in people's perception of performance and fairness in income distribution, mid 1990s-early 2000s TO early-late 2000s



Source: Author elaboration on Latinobarómetro (2010)

2. Explaining the inequality drop 2002-12 (i) 'luck' (good global conditions)? (ii) growth? (iii) policies?

To reply this question, we use two approaches :

1. <u>Immediate causes of inequality drop</u> - based on microdecompositions of household budget surveys (HBS) data

2. <u>Underlying causes of inequality drop</u> based on economic theory, panel regressions, sectoral studies,

..... and compare whether the results obtained agree

2.1. Immediate causes of inequality decline (based on micro decompositions of hbs data)

- (i) immediate (statistical) causes of inequality fall are identified on the basis of <u>decompositions of HBS data at two points in time</u>.
- Three methods for decomposing HBS data:

Milanovic: Gini decomposable as:

 $Gjt = \Sigma shjt Cjt$ j = uw, sw, r, rk, tr, re

 $\Delta G = \Sigma \Delta shj Cjt + \Sigma \Delta Ci shjt + \Sigma \Delta shj \Sigma \Delta Cj$

Lerman and Yitzhaki . Gini of total income, with k different sources of income, can be expressed as:

$$G = \sum_{k=1}^{K} S_k G_k R_k \qquad k = uw, sw, r, rk, tr, re$$

- where Sk = share of income type k in the total income; Gk = Gini coefficient of income k; Rk is the correlation between income source k and total income.

Results of microdecompositions (immediate causes of∆ Gini)

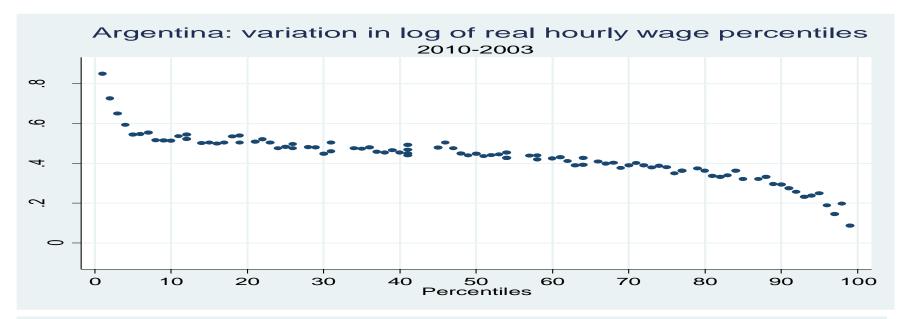
			Abs. change	Abs. change	% chang e in	% change in rural-	Abso	Absolute change in the Gini of:		
	Polit. Regi me	Period conside red	Gini verall income	in Gini Iabour income	skill premi um	urban wage gap	Cap. iinco me	Public transfe rs	Remitt ances	
Chile	C.Left	1990- 2000	+0.7	+2.4	+34.2	not relevant		Stable	not relevant	
	C.Left	2000-10	-4.3	- 3.8	- 35.1	not relevant	—	Equaliz	not relevant	
Ecuador	Right	1990- 2001	+14.0	+14.0	+25.4		+15.	Neglig	Neglig	
	CL,Left	2001-10	-10.0	-11.0	-21.5	-10.0	-18.	Equaliz	Equaliz	

Results of decomposition of Gini decline by income sources

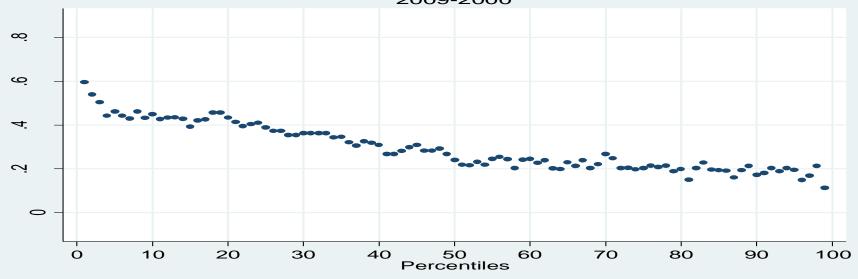
	ARGENTINA	BRAZIL	CHILE	MEXICO	PARAGUAY	URUGUAY
Income sources	2003-2010	2001-2009	2000-2009	2000-2008	2004-2009	2006-2010
Labour income	73%	62%	44%	60%	55%	66%
Registered wage earning jobs	43%	34%	33%	18%	-2%	63%
Non- registered wage earning jobs	13%	6%	12%	71%	22%	-2%
Non-wage earning jobs	17%	22%	-2%	-29%	35%	5%
Pensions	24%	14%	26%	1%	3%	21%
Public cash transfers	-5%	20%	28%	26%	2%	10%
Other non-labour incomes	8%	4%	3%	13%	41%	2%
Variation in Gini Index (in pp)	-10.1	-5.1	-3.8	-1.9	-7.4	-3.7

Source: Keifman and Maurizio 2014

Growth incidence curves of real hourly wages,2000s



Chile: variation in log of real hourly wage percentiles 2009-2000

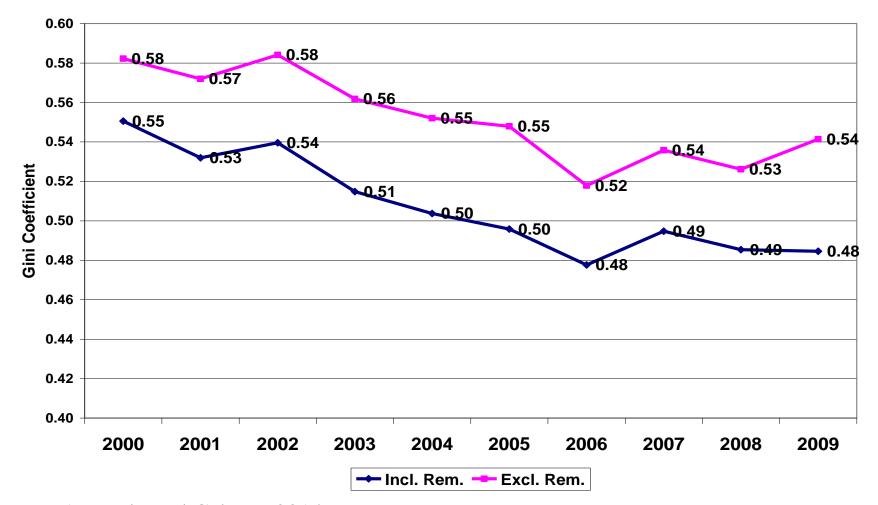


Source: Keifman and Maurizio, (2014)

Findings of the decompositions for 6 case studies

- (i) a decline of returns to education and of the wage **skill-premium** (figure)
 - stagnant demand for skilled labour (after its rapid increase during the 1990s);
 - <u>rising supply of skilled labour</u> due to higher public spending on education;
 - <u>Worsening quality of higher education</u> or of the additional (poorer) students
 - <u>high demand of unskilled workers</u> due to policies favouring the labour-intensive traded sector;
 - <u>falling supply of unskilled labour</u> due to + education, a fall in births & rising emigration.
 - <u>Institutional factors</u> (higher minimum wages, unionisation)
- (ii) where relevant, drop in **urban-rural wage gap** (due to competitive RER or rise in world agricultural prices)
- (iii) + social assistance transfers due to \uparrow tax collection & better spending targeting
- (iv) rise of **remittances on total income** (equaliz. in 3 countries not others (figure)
- (v) limited data on **capital incomes** and incomes of 'working rich' (top 1%)

Remittances are increasingly equalizing in El Salvador Gini coefficient of household income/c, including and excluding remittances



Source: Azevedo and Cabrera 2014

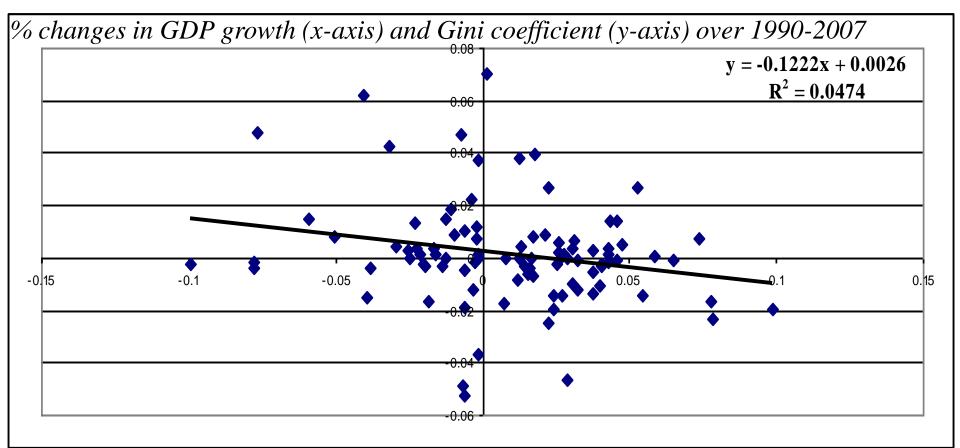
2.2 underlying causes of Δ Gini (econ. theory, sectoral studies macro-panel regressions)

- 1. Luck: favorable external conditions (trade, remittances, finance)
- 2. Impact of rapid growth of 2002-08 and 2010
- 3. Exogenous changes in dependency/participation rates (ignored here)
- 4. New policy model (macro, labor, tax, educ/health, social transfers)
- 5. Transition to democracy and 'left decade'

(i)luck: (favorable global economic environement)

- Terms of trade <u>rose</u> for 6 yrs (except for C.America), then fell
- migrant remittances rose in C.A., Andean countries, Mexico
- Financial bonanza (2004-7 capital inflows = 2.4 % GDP)
- <u>Direct distributive effects</u> of these changes
 - Inequalizing (due to high asset concentration in export sector/finance, remittances are often unequalizing)
 - Were bonanza impact on tax revenue/GDP equalizing? Only a bit (figure)
- <u>Indirect effect</u>: favorable on growth as (i) positive 'income effect', (ii) + current account balance + growth \rightarrow + jobs \rightarrow
- Overall, theory predicts these changes were little equalizing or un-eq.

(ii) Fast growth of GDP & jobs of 2002-08 and 2010?



- in LA 'growth's impact on inequality is very small and non significant

- **fast growth** is no guarantee of falling ineq. (as shown by China/India)

-much depends on the **'pattern of growth'** (capital intensive, unskilled labour intensive, regionally balanced, etc)

(iii) Deliberate policy changes ? The Politics of policy changes

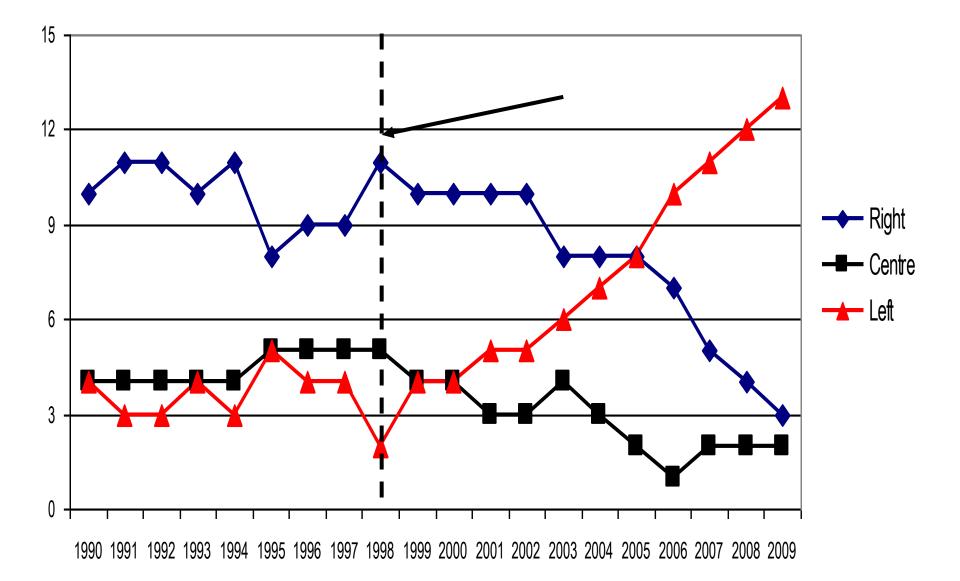
- Gradual return to democracy since 1980s-90s
- Democratic consolidation in the 1990s (institution building takes time)
- Rising dissatisfaction with results WC policies (see Latino Barometro)
- Shift towards Social-democratic and radical-populist regimes (<u>no</u> <u>ideological realignment</u> but focus is on economic interests)
- Changes in policies followed electoral results with short lags
- Policy spillovers (e.g. social transfers) also in countries with conservative regimes
- Thus, some fall in Gini also in more conservative regimes

Who won and who lost? Is Palma right? Changes in income shares of poor (q.1-5), 'middle class' (q.6-9) and rich (q-10) over 1990-2002 (rising inequality) and 2002-9 (falling inequality)

	Income deciles					Income deciles				
Country	1990- 2002	1-5	6-9	10	Δ Gini	2002- 2009	1-5	6-9	10	- ∆ Gini
Argentina	1990-02	-4.68	+0.94	+3.74	+7.7	2002-10	+5.01	+ 2.81	-7.82	-9.0
Ecuador	1995-03	+1.82	-1.49	-0.33	-2.3	2003-09	+2.87	+2.65	-5.51	-5.6
Venezuela	1989-02	-2.97	-0.62	+3.68	+5.0	2002-06	+2.45	+0.45	-2.90	-4.0
Chile	1990-03	+0.51	-0.28	+0.23	-0.5	2003-09	+1.44	+0.79	-2.23	-2.7
Mexico	1989-02	+0.42	+0.85	-1.27	-1.1	2002-08	+0.25	+044	-0.68	-0.5
Uruguay	1989-02	-2.15	+0.16	+1.99	+3.0	2002-09	+0.87	-0.85	-0.01	-1.0
Regional Average		-0.63	-0.30	+0.93			+1.40	+0.73	-2.13	

Source: Cornia (2012)

Trends in political regimes (right, centre, left), 1990-2009



Average Gini Changes During the 2000s by Year-Specific Political Regime

•	Gini points change	per period	yearly
•	Radical left	-4.36	-0.51
•	Social democratic left	-3.64	-0.92
•	Centrist	-3.11	-0.56
•	Centre-right & right	-0.70	-0.07

(iv) A new policy approach(a) macroeconomics

A 'hybrid macroeconomic model' (WC elements & 'development oriented' macro policy)

- Prudent budget (1^{ary} surplus 3-4% GDP) monetary policy
- <u>Active and progressive tax policy</u> \rightarrow +tax/GDP ratio +3 to 9 points
- Increasing public expenditure (+ 5 % GDP) especially on social public goods
- <u>Countercyclical monetary-fiscal policy</u>
- <u>competitive real exchange rate (SCRER)</u> \rightarrow (+) T, (-) NT \rightarrow (+) current account surplus and low interest rates, <u>not universal</u> (Brazil....)
- Better prudential regulation of domestic banks
- <u>Unchanged open trade regime</u>, but changing trade pattern,
- Changes in intl financing (lower foreign debt, reserves accum, debt substitution) (charts)

(b) Labor market & income policies

- rise in n. workers covered by collective contracts
- work inspections against informal employment,
- Re-centralisation of wage bargaining in Argentina, Uruguay, Brazil
- rise in minimum wage (table)
- increase in minimum social pensions,

Index of real minimum wages (2000=100), selected countries

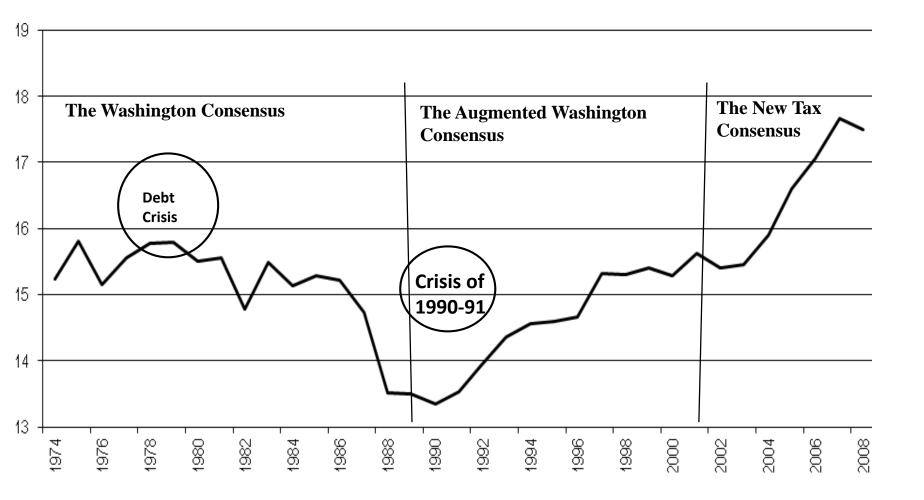
	2002	2004	2006	2008	2010
Years of left regimes			2000		
Venezuela (1999)	94.5	92.7	113.9	107.2	93.8
Brazil (2002)	114.3	121.4	145.3	160.8	182.0
Argentina (2003)	81.4	129.8	193.2	253.3	321.3
Uruguay (2005)	88.7	77.5	153.2	176.9	196.8
Costa Rica (2006)	99.5	97.6	99.5	99.5	105.8
Nicaragua (2007)	105.9	113.5	128.5	141.6	174.6
Ecuador (2007)	112.5	122.2	130.0	146.7	161.5
Guatemala (2008)	108.6	117.6	119.6	111.9	122.0
Mexico ()	101.2	99.1	99.0	96.2	95.6

(c) Tax policy and rising tax/GDP ratios

- Low initial tax/GDP ratio in relation to intl. norm
- Neo-liberal tax revolution of 1980s-90s → 1.5% tax /GDP, CIT-PIT yields, lower progressivity)
- Tax effort accelerated in 2000s including greater emphasis on direct taxes (figure)
- tax/GDP up almost everywhere, but huge variations remain (low effort in Mexico, C. America, etc.)
- <u>Higher tax/GDP reduces macro instability, allow</u> countercyclical fiscal policy, raise social expenditure

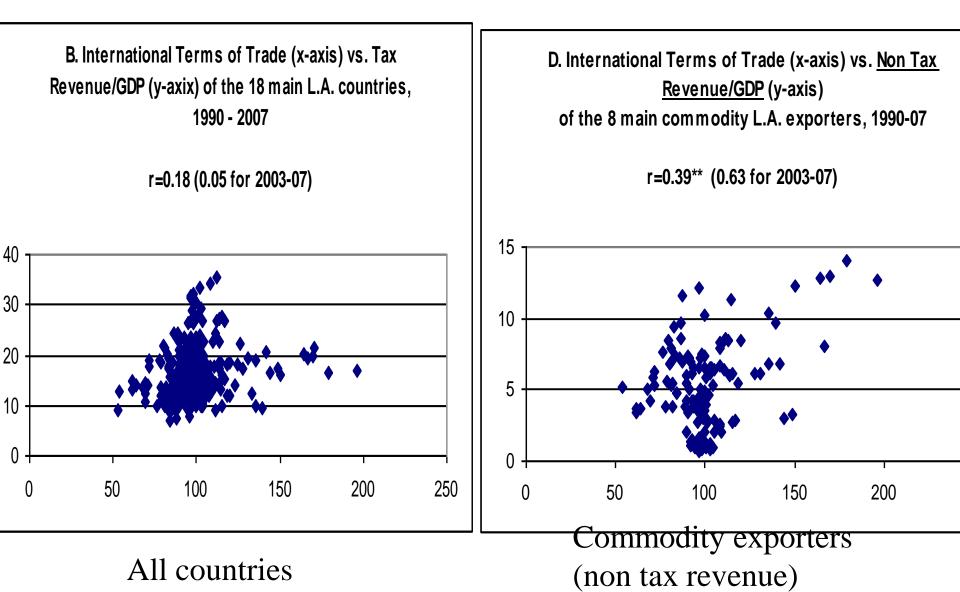
 $\Delta 2003-7 \Delta \text{tax/GDP}$ moderately progressive (table)

Trend in Average Tax/GDP Ratio, 1973-2009, L.America



Source: Cornia, Gomez Sabaini and Martorano

General equilibrium effects: Is the rise in tax revenue due to better terms of trade ?



Taxation and direct effect on income inequality

REYNOLDS-SMOLENSKY Index (Gini points) for 1990S and 2000S

	1990s	2000s	2000s -1990s
Argentina	-1.95	1.92	3.87
Brazil	-0.70	1.40	2.10
Chile	-0.78	0.27	1.05
Costa Rica	-0.98	1.24	2.22
Ecuador	-0.70	0.70	1.40
El Salvador	-1.40	-0.75	0.65
Guatemala	-0.77	1.20	1.97
Honduras	-2.80	-0.10	2.70
Nicaragua	-5.20	0.17	5.37
Panama	0.00	0.90	0.90
Uruguay	-0.20	1.20	1.40

Note: A positive sign of the index indicates that the tax system is progressive, a negative one that it is regressive.

(d) Public social expenditure and redistribution of human capital

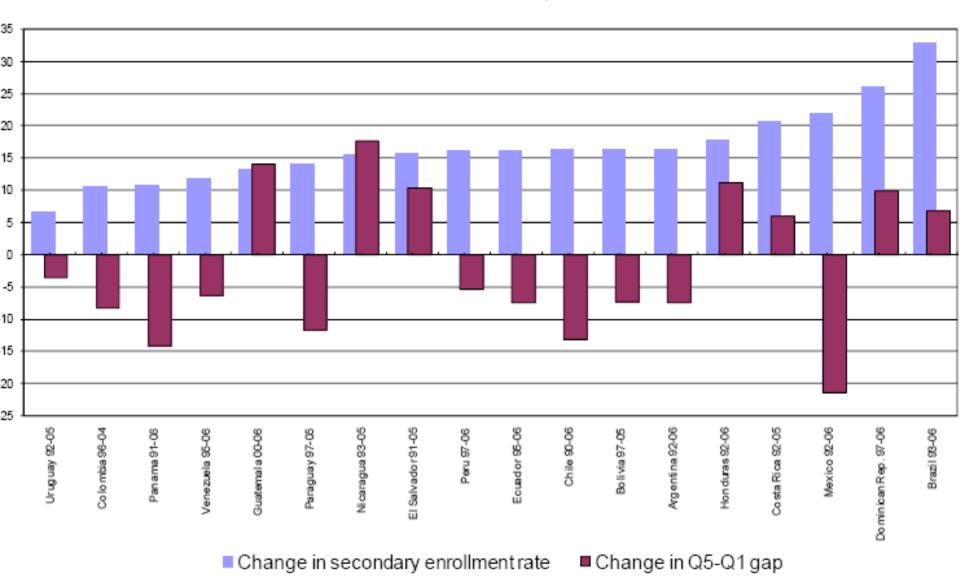
- Countries made big invest. in 2ary educ since 1990s chart
- Strong effect on income inequality, current and lagged
- Lower educational inequality \rightarrow lower income inequality
- Problems persist in 3ary education (still unequalizing) see later

	1990	1995	2000	2010
Av. spending on education p/child 0-14 (\$dollars PPP)	320	511	756	1451
Public expenditure on educ/GDP	2.8	3.3	4.0	4.4

Decomposition of changes in public outlay in education per child 0-14 shows that 33% is due to social policy, 50.6% to GDP growth, 16.4% to falling child cohorts

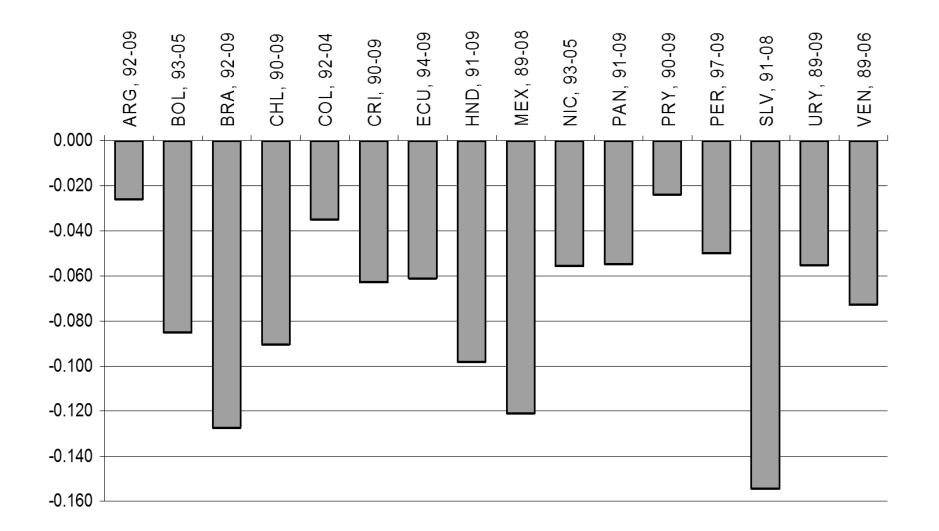
Enrollment

Secondary



Source: elaboration on SEDLAC and CEPAL data

+ public expenditure on educ \rightarrow fall in Gini education

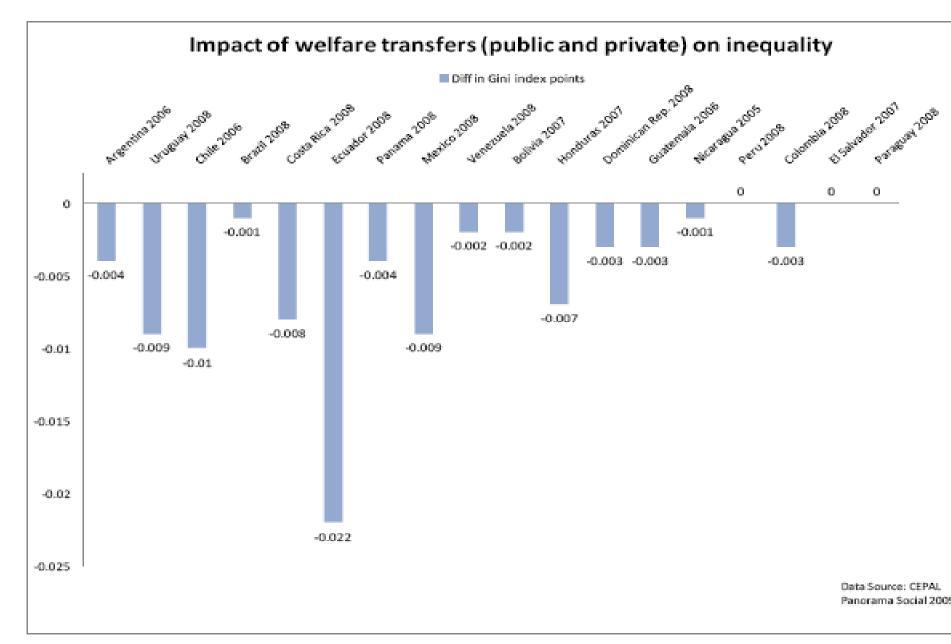


(e) Social assistance and income transfers

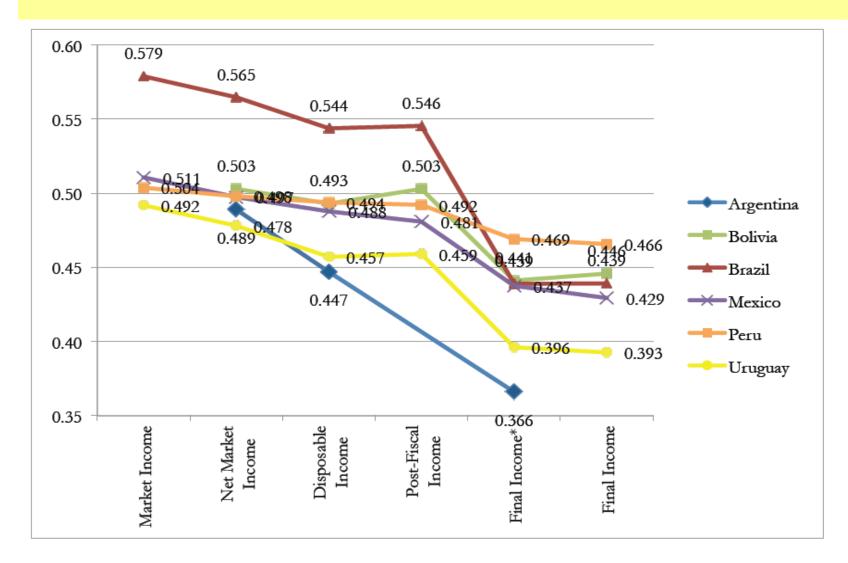
- extending coverage of **social insurance** to
 - people with few years of contributions (as in 1990s they worked in informal sector or were unemployed)
- Large increase in well targeted **social assistance**
 - <u>CCT targeted anti poverty programmes</u> (Argentina JJP, Brazil BE-BF, Chile, Uruguay, Mexixo, ..(0.5-1.0% GDP)
 - <u>Pure transfers e.g. non-contrib pensions</u> (Argentina, Brazil, Chile, Bolivia, Uruguay, etc)
- Perceptible effect on income inequality despite low-ish spending (1/3 of the drop in Brazil according to Paes de Barros true ???)

Does social assistance reduce inequality?

Disposable income with and without 'welfare' transfers: difference in Gini



e) Summing up: A pretty large impact of fiscal operations (taxation, transfers in cash-&-kind) in 6 LA countries, years 2008-2009-2010



Source: Lustig et al. (2013)

What the new policy model did not do

Broader redistribution of assets/resources

- Land redistribution (in Brazil, Paraguay, Bolivia, Guatemala) ... promised but not implemented
- Mines//gas/oil fields (Bolivia is an exception) (but rents more taxed and better targeted)
- Access to credit and finance for smallholders & SMEs
- University education
- More aggressive industrial policy
- Broader power sharing
- Reduced dependence on foreign finance (à la East Asia)

- In fact, the new model illustrates a sort of '*social-democratization of LA*' (à la Redistribution with Growth of Chenery et al 1975)
- It is 'not a radical paradigm shift', needs to be deepened

3. Regression analysis on underling causes of inequality decline

- Three estimators used (LSDV, 3SLS, GMM) \rightarrow consistent results
- •
- gains in terms of trade have been equalizing on average, but un-equalizing where economy is dominated by a capital-intensive extractive sector
- **migrant remittances** not significant, except where they are > 10 % of GDP
- **FDI** are un-equalizing on average but particularly in the Andean countries
- **GDP/c growth** (if in traded/labour-intensive sector) is modestly equalizing.

increase in human capital formation, & its more egalitarian distribution raised supply of skilled workers and reduced skill premium and inequality

Continued

- **RER** (main macro policy tool used in regression) is equalizing, though in 2000s its benefits were limited due to pressure on RER appreciation
- Drop in **tariff rate** is unequalizing if accompanied by a rise in the skill premium,
- Tax rises were equalizing but modestly
- **Rise in the minimum wage** cuts Gini sizeably
- **public expenditure on social security/GDP** (had no data on social assistance/GDP) is equalizing
- _____
- **quality of democracy** affects inequality favourably, beyond the adoption of the above policy instruments

	Signs	LSDV	3SLS	GMM
Variables	expe cted	Model 7	Model 8	Model 9
Terms of trade index	+/	-0.0007	0.0004	-0.0104***
Remittances/GDP	+/	-0.0448	-0.044	-0.0431
FDI stock/ GDP	+	0.0960***	0.0949***	0.0353***
GDP/c growth rate	-	-0.0447	-0.1364*	-0.0402*
Dependency ratio (growth rate)	_	-0.3682	-0.2945	-0.2021
Labor force participation (gr. rate)	+/	-0.0089	0.0304	0.0247
People with 3ary and 2ary educ/people with no or 1ary edu	_	-1.8689***	-1.7658**	-0.9085*
Direct/indirect taxes	-	-2.0464***	-1.8337***	-0.5307*
Public expend. on social security/GDP)	_	-0.3802***	-0.4009***	-0.1643*
Real eff. exchange rate	-	-0.0844***	-0.0932***	-0.0233*
Real eff. exchange rate ^ 2	+	0.0003***	0.0004***	0.0001*
Minimum wage index *share of formal workers	_	-0.0266***	-0.0201**	-0.0109**
Social democratic dummy	_	-0.7926**	-0.8570**	-0.3746*
Radical populist dummy	_	-3.2456***	-2.9162***	-1.6840***
Polity2 index	_	-0.4831***	-0.4545***	-0.1740***
Gini coefficient of disposable income (t-1)	+			0.6375***

Attempting to capture regional heterogeneity

		GMM – 1	GMM – 2	GMM – 3	GMM – 4	GMM – 5	GMM – 6
	Reference model	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
Gini coefficient (t-1)	0.6375***	0.624***	0.567***	0.625***	0.635***	0.638***	0.608***
Terms of trade index	-0.0104***	-0.03***	-0.01***	-0.01***	-0.01***	-0.01***	-0.012**
Terms of trade index* Commodity exporters dummy		0.0257**					
Remittances/GDP	-0.0431	-0.0611	0.0643	-0.0311	-0.0415	-0.0371	-0.0346
Remittances/GDP* Remittances receivers dummy			-0.29***				
FDI stock/GDP	0.035***	0.035***	0.037***	0.0225*	0.035***	0.033***	0.024**
FDI stock/GDP* Andean group dummy				0.0328*			
Polity2 index (quality of democracy)	-0.1740***	-0.16***	-0.17***	-0.16***		-0.18***	-0.21***
Composite index (quality of democratic institutions, consolidation of democracy and electoral turnout)					- 0.348***		
Import tariff rate (%)						0.0092	-0.1768*
Import tariff rate*skill premium							0.1053**

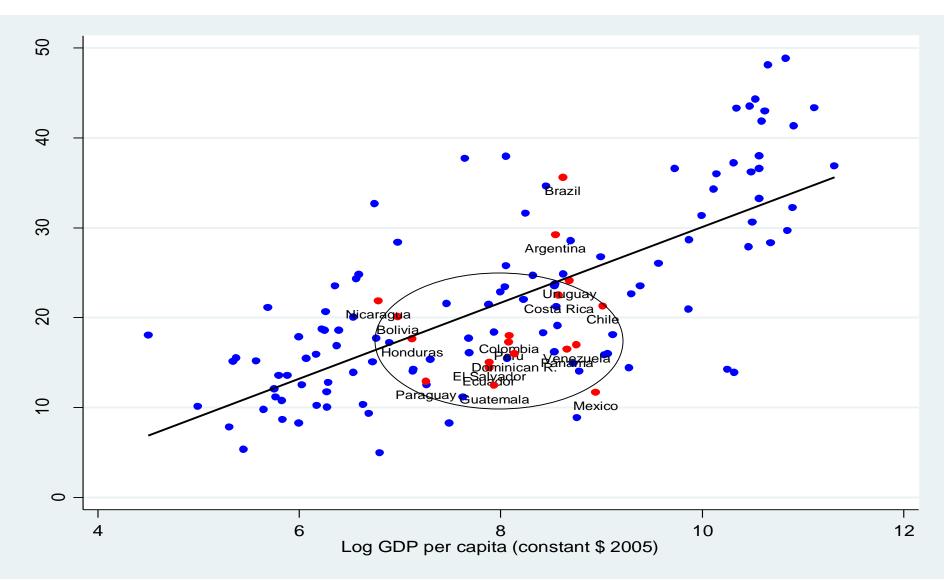
4. Challenges to further reduce inequality

- Structural reforms
 - Access to assets- endowments (land, etc.) in several countries
 - Lower dependence on foreign finance
 - Avoid re-primarization of X with 'open economy industrial policy'
- Sustain a prudent macroeconomic policy avoid temptations of populism
- Deepen social-democratic reforms ? (but be careful of their costs...)
 - Different quality of 2ary educ \rightarrow bias access to 3ary education of the poor (chart)
 - Broaden access to university education
 - Further human capital accumulation (health) and public goods (infrastructure)
 - To finance all this, continue efforts at tax collection in much of region (chart)
 - In Argentina, Brazil etc. <u>tax/GDP is high</u>, better <u>targeting of public expenditure</u>.
 (much of the redistribution comes also in OECD from the expenditure side) (last table)

Enrollment

Tertiary 35 30 25 20 15 10 5 0 -5 10 Guatemala 00-06 Nicaragua 93-05 El Salvador 91-05 Chile 90-06 Peru 97-06 Paraguay 97-05 Bolivia 97-05 Honduras92-06 Dominican Rep. 97-06 Costa Rica 92-05 Uruguay 92-05 Brazil 93-06 Colombia 96-04 Mexico 92-06 Argentina S2-06 Ven ezuela 95-06 Ecuador 95-06 Panama 91-06

Relation between Tax Revenue and lg GDP/c in 2007 around the world: Many Latinos remain below 'international norm'(computed by regression



Source: Martorano (2010) on Regional Commissions data

Redistributive effects of further changes in tax structure

Regression analysis of determ	ninants of Rey	ynolds-Smol	ensky index
	Variables ex	pressed as a	share of GDP
	1	2	3
Direct tax	0.0122***	0.0094**	0.0095**
Indirect taxes	-0.0062		
Trade taxes	-0.0149***	-0.0110**	<mark>-0.0100*</mark>
General indirect taxes		-0.0009	-0.0008
Selective indirect taxes		<mark>-0.0087*</mark>	<mark>-0.0090*</mark>
Social security contributions			0.0027
Constant	-0.0492*	-0.0482*	-0.0516*
Observations	36	36	36
R-squared	0.42	0.44	0.41

Source: Cornia, Gomez Sabaini and Martorano 2014

The above regression suggests that:

- Raising direct tax/GDP by 1 pt reduces Gini by 0.9-1.2 pts
- Cutting selective ind.taxes (excises) by 1 point reduces Gini by 0.9 points

Country	Year	Year Gini coefficient of disposable per capita household income		c	Changes in Gini coefficients due to fiscal operations					
		Before	After taxes and transfers	Total	Due to Taxation	Due to Transfers	% of total Gini decline due to transfers			
Belgium	2000	0.542	0.279	0.263	0.063	0.201	76			
Germany	2004	0.489	0.278	0.210	0.052	0.158	75			
Sweden	2005	0.442	0.237	0.205	0.037	0.168	82			
Switzerland	2004	0.395	0.268	0.128	-0.003	0.130	101			
United States	2004	0.482	0.372	0.109	0.043	0.066	60			
Average Advanced				<mark>0.170</mark>	<mark>0.033</mark>	0.137	<mark>80.0</mark>			
Czech Republic	2004	0.468	0.267	0.201	0.038	0.163	81			
Estonia	2004	0.493	0.340	0.153	0.034	0.120	78			
Poland	2004	0.527	0.320	0.207	0.005	0.202	98			
Average E.Europe				0.164	0.022	0.142	<mark>86.0</mark>			
İsrael	2005	0.491	0.370	0.121	0.045	0.076	62			
Korea	2006	0.334	0.311	0.023	0.006	0.017	74			
Taiwan	2005	0.324	0.305	0.019	0.003	0.016	84			
Average emerging				0.054	0.018	0.036	73.0			
Argentina	2006	0.589	0.479	0.110	0.019	0.091	83			
Brazil	2006	0.570	0.486	0.084	0.014	0.070	83			
Colombia	2004	0.568	0.562	0.006	-0.001	0.006	100			
Guatemala	2006	0.521	0.507	0.014	0.012	0.002	14			
Uruguay	2004-06	0.542	0.428	0.124	0.010	0.114	92			
Average L. America				0.065	0.010	0.055	85.0			

Redistributive effects of taxes and transfers in selected groups of countries

Source: Cornia, Gomez Sabaini and Martorano (2012) on Centrangolo and Gómez-Sabaini (2008), OECD, IMF, IDLA and literature