

Financing strategies to achieve the MDGs in Latin America and the Caribbean

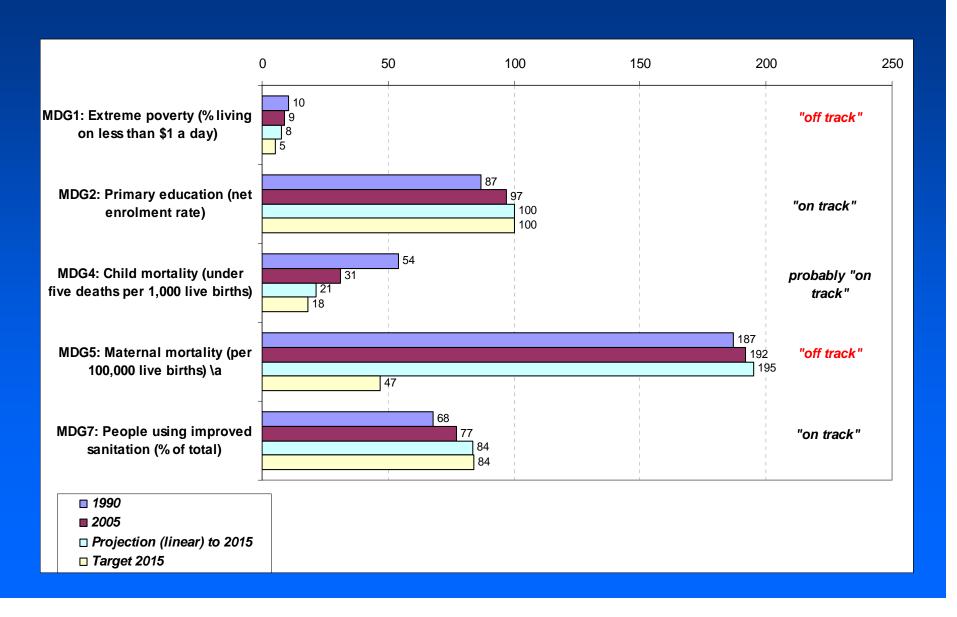
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Presentation prepared for the inception and training workshop of the project "Assessing Development Strategies to Achieve the MDGs in Asia and the Pacific, Bangkok, 20-22 August, 2008.

Introduction

- Is Latin America "on track" to achieve the MDGs?
- Can the MDGs be achieved through adjusted policies?
- How much additional public spending will be needed and how can this be financed?
- Which trade-offs need to be taken into account when identifying a preferred financing strategy?

Is Latin America on track?



Really now, is LAC "on track"?

- The Millennium Development Goals Report 2007 (UN):
 - LAC is on track to achieve
 - universal primary education,
 - reduced child mortality,
 - improved access to water and sanitation;
 - LAC is off track to achieve
 - poverty reduction,
 - reduced maternal mortality
- Problematic concept: linear projection
- Instead: model-based "business-as-usual" (BAU) scenario, taking into account economywide trade-offs and a continuation of current policies

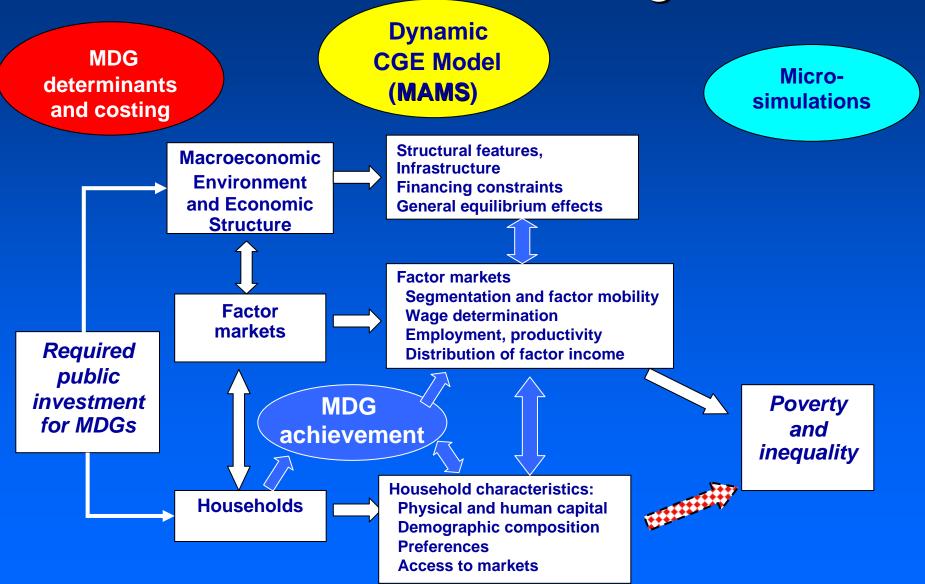
Some key questions regarding MDG strategies

- What does it take to achieve the MDGs?
 - What are MDG determinants?
 - How would MDG achievement influence other aspects of economic and social development?
- Do we know how much it will cost and can we afford achieving the goals?
- What policy options do we have in financing the MDG strategy? What are the trade offs when:
 - Scaling up aid or borrowing abroad?
 - Enhancing domestic resource mobilization?

UN/DESA-UNDP-UN/ESCAP Public policies for MDGs project

- **MAMS: Maquette for MDG Simulations.**
 - Economy-wide (dynamic CGE) simulation model to analyze MDG strategies in different countries.
 - Dynamic MDG module
- Sector analysis of MDG determinants and of interventions needed to achieve MDGs in education, health, water and sanitation
 - Microeconomic analysis of determinants of access to schooling, infant mortality, etc.
 - Costing exercise, considering household behaviour
- Microsimulation methodology
 - Translate labour market outcomes of CGE simulations into impact on poverty and income distribution at household level using micro datasets

Macro-micro linkages



MDG determinants

- What is needed to get all children in school and make them complete all grades?
 - Build more school infrastructure?
 - Improve quality of other school inputs (teachers, textbook supplies)?
 - Increase access to school by improved household income and demand subsidies?
 - All of the above?
- What is needed to reduce child mortality?
 - Better nutrition?
 - Expansion of immunization programs?
 - Improving maternal-child health facilities?
 - Better education?
 - All of the above?
- Are there synergies across the MDGs?
- What is the direct cost of interventions to achieve MDGs?
- Are there diminishing marginal returns to the inputs?

MAMS: Determinants of MDG outcomes

MDG	Service per capita or student	Consump- tion per capita	Wage incen- tives	Public infra- structure	Other MDGs
2-Primary schooling	X	X	X	X	4
4-Under-five mortality	X	X		X	7a,7b
5-Maternal mortality	X	X		X	7a,7b
7a-Water	X	X		X	
7b-Sanitation	X	X		X	

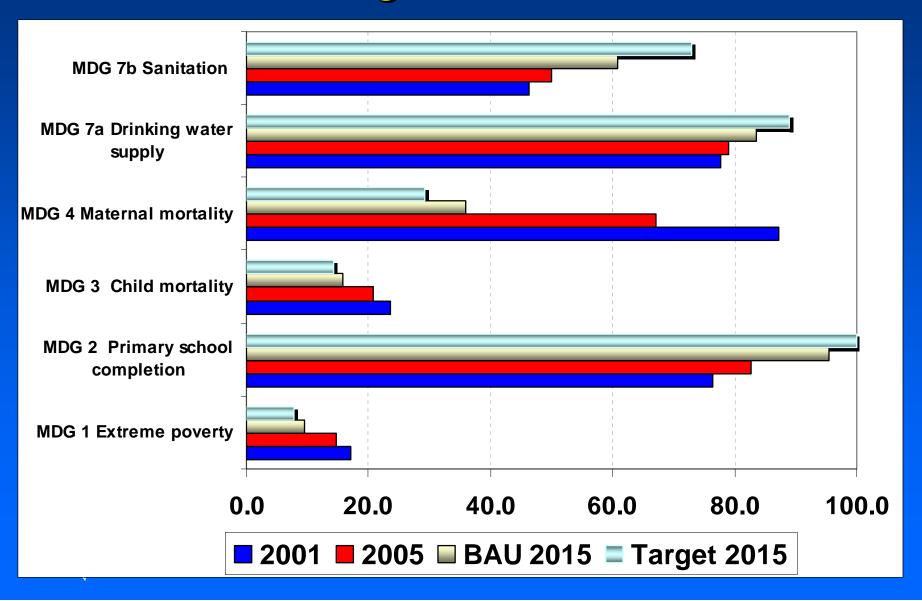
Macroeconomic influences on cost estimates

- □Synergies among MDGs: is achieving all MDGs simultaneously cheaper than pursuing them one by one?
- Complementary investment requirements, especially in infrastructure
- Macro analysis: economy-wide effects matter for the (relative) cost estimates (labour costs and constraints, prices, growth effects)

MDG simulations

- BAU: projection without policy change
- MDG scenarios:
 - Optimize to reach MDGs
 - Each MDG separately
 - Simultaneously
 - Different financing strategies
 - Foreign aid
 - Foreign borrowing
 - Domestic borrowing
 - ■Tax increases

Ecuador: Progress towards MDGs



Is LAC "on track" under BAU?

	MDG 1	MDG 2	MDG 4	MDG 5	MDG 7a	MDG 7b
Argentina						
Bolivia						
Brazil	√				V	√
Chile	√	\checkmark	\checkmark	\checkmark	V	√
Colombia	√				\checkmark	V
Costa Rica		\checkmark			V	V
Cuba		V	\checkmark	V	\checkmark	V
Dominican Republic					√	V
Ecuador						
El Salvador						√
Guatemala	√					
Honduras						
Jamaica	√					
Mexico	√	\checkmark			\checkmark	√
Nicaragua						
Paraguay						
Peru	√					
Uruguay					V	V
LAC	V				√	√

Ecuador:

Synergy among MDGs and effect on costs

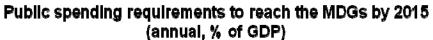
(Required additional public spending on MDG services, % of GDP, difference from baseline)

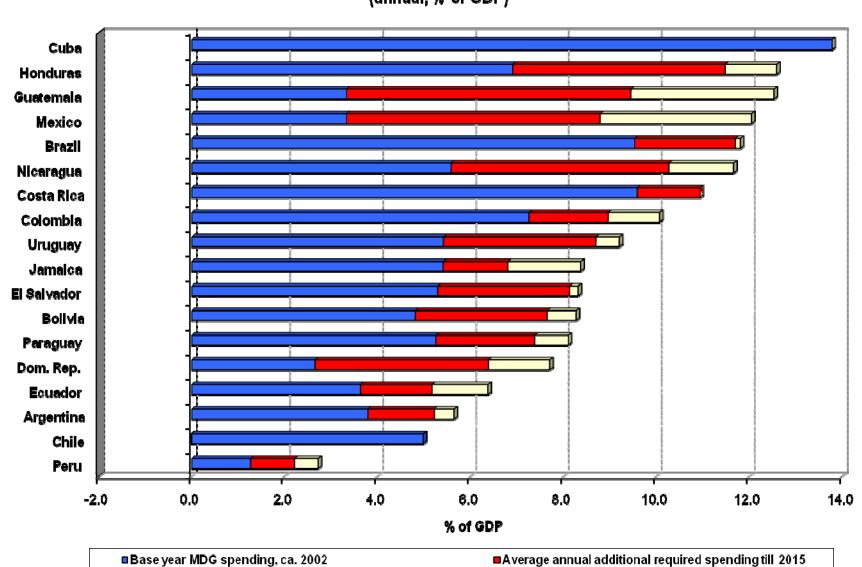
		Additional annual cost per annum (AVERAGE 2005-2015)				
	Social spending in base year	Only MDG2	Only MDGs 4&5	Only MDG7	All MDGs	
Primary Education	1.1	0.8	0.0	0.0	0.8	
- Current expenditures	1.0	0.7	0.0	0.0	0.7	
- Investment	0.1	0.1	0.0	0.0	0.1	
Health	2.0	0.0	0.6	0.0	0.4	
- Current expenditures	1.6	0.0	0.3	0.0	0.2	
- Investment	0.4	0.0	0.3	0.0	0.2	
Water and sanitation	0.3	0.0	0.1	0.3	0.3	
Total	3.4	0.8	0.7	0.3	1.5	

... but there are increasing marginal costs

(Required additional public spending on MDG services, % of GDP, difference from baseline)

		Additional annual cost per annum (END OF PERIOD 2010-2015)				
	Social spending in base year	Only MDG2	Only MDGs 4&5	Only MDG7	All MDGs	
Primary Education	1.1	1.2	0.0	0.0	1.1	
- Current expenditures	1.0	1.2	0.0	0.0	1.1	
- Investment	0.1	0.0	0.0	0.0	0.0	
Health	2.0	0.0	1.6	0.0	1.0	
- Current expenditures	1.6	0.0	0.9	0.0	0.6	
- Investment	0.4	0.0	0.7	0.0	0.4	
Water and sanitation	0.3	0.0	0.1	0.5	0.5	
Total	3.4	1.2	1.7	0.5	2.7	





□Incremental marginal spending, end period (2010-15)

Ecuador: less "expensive" with foreign borrowing..... (but not necessarily best financing strategy)

	Average 2005-15 per year	Incremental costs	Synergy effect
Foreign borrowing	1.3	1.1	0.3
Domestic borrowing	1.4	1.2	0.3
Direct tax increase	1.5	1.2	0.2

Latin America: MDG costing results

- Chile and Cuba meet MDGs 2-7 under BAU
- All other countries in this study could reach the 'non-poverty' MDGs through additional public spending of between 1 and 6 percent of GDP
- Important increasing marginal costs
- Not very high, yet significant synergy effects in most countries

Financing strategies and MDG costing results

- Additional spending requirements are generally lower in the case of external finance through aid or foreign borrowing than in case of domestic resource mobilization
- Additional spending requirements are higher in the case of domestic finance through borrowing or taxation - owing to crowding out effects and consumption compression

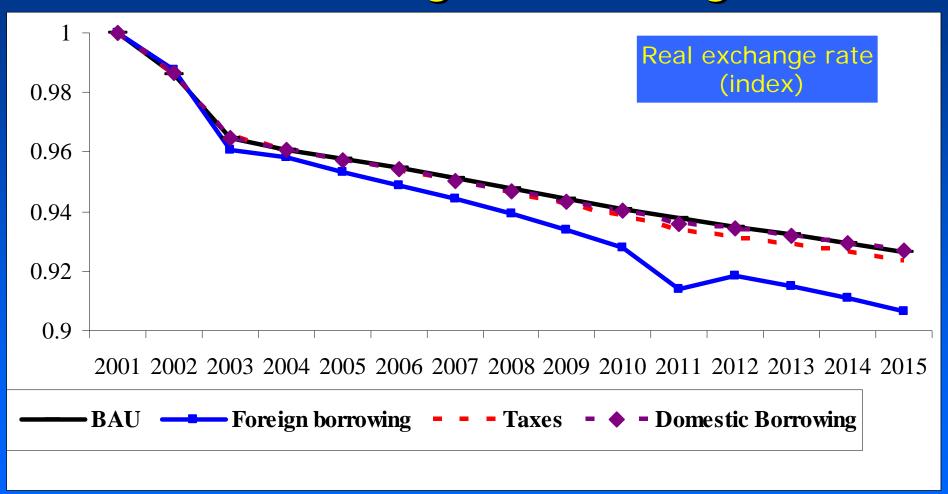
What are realistic financing options?

- Required additional public spending is just one criterion for assessing desirability of a financing strategy
- Other criteria:
 - Sustainability
 - Macroeconomic trade-offs
 - Institutional constraints and political economy considerations
- Models only analyze pure (single-source) financing strategies, but mixed strategies may be preferable

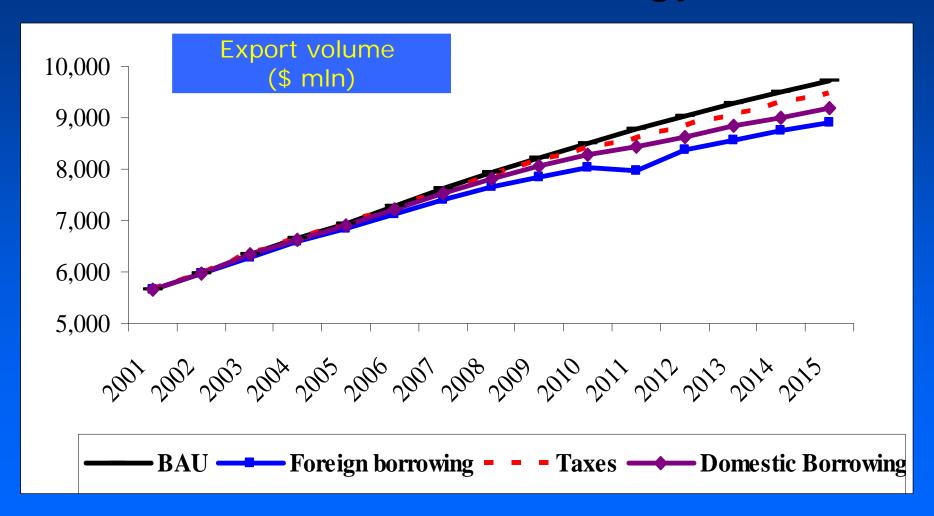
Macroeconomic trade-offs

- More public spending could generate RER appreciation: Dutch disease effects?
- Crowding out of private investment because of increased public domestic borrowing
- Tax increase could affect real disposable household income
- Labour market adjustment: Skilled labour shortage? No labour shortage, but wage pressures?

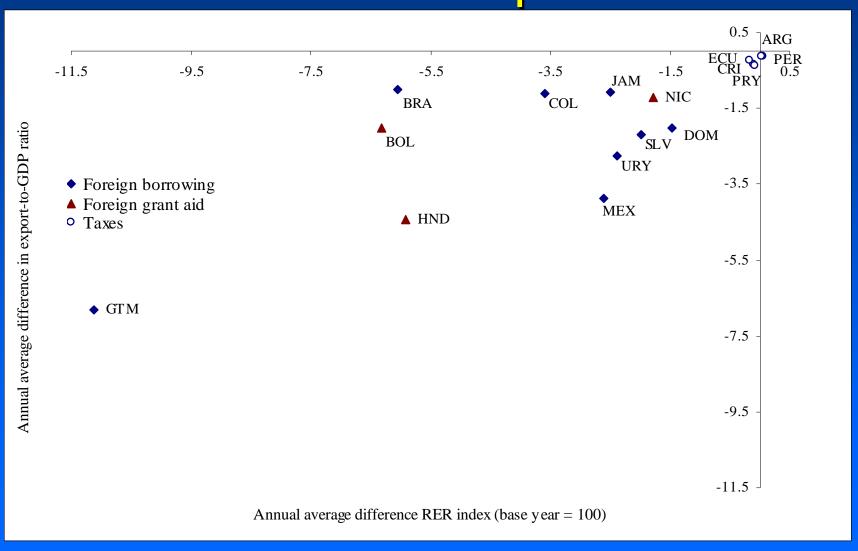
Ecuador: strong RER appreciation with foreign borrowing



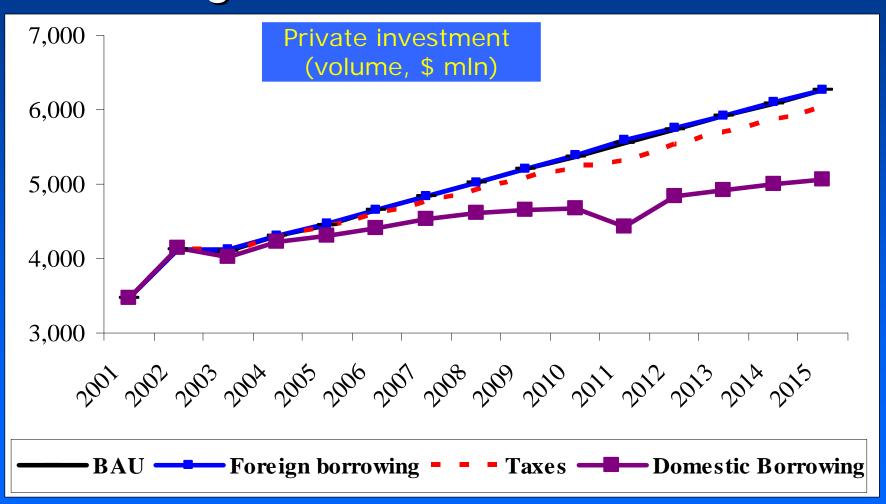
Ecuador: Lower export growth under MDG strategy



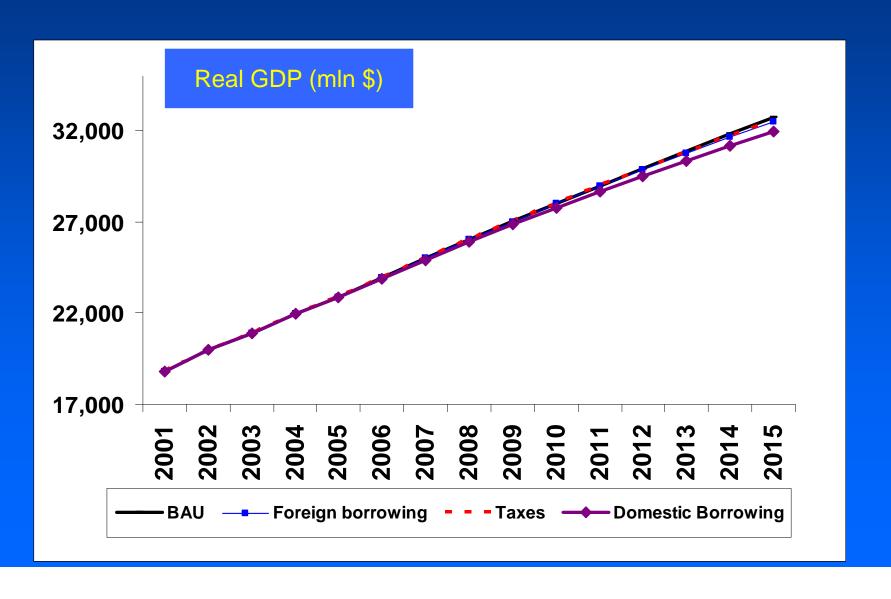
LAC: MDG financing and erosion of exports



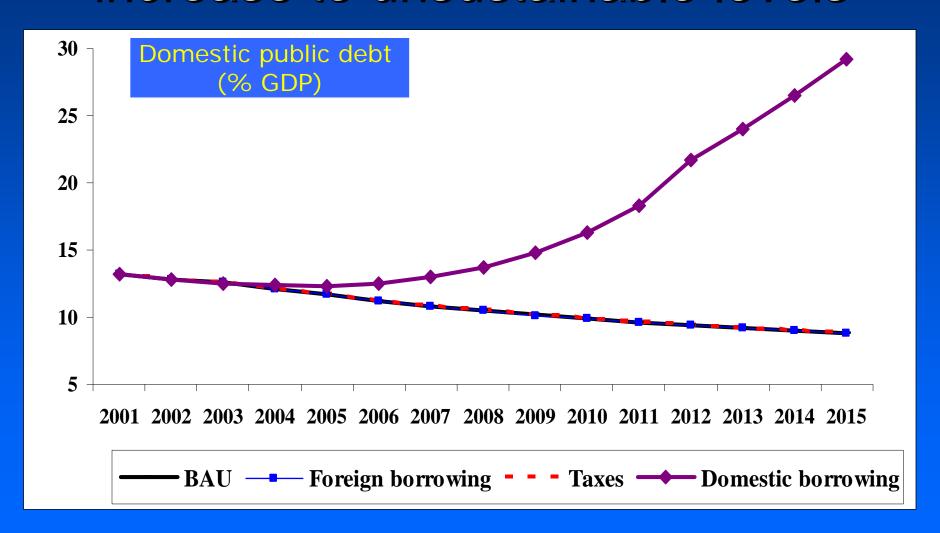
Ecuador: crowding out of private investment strongest under domestic borrowing scenario



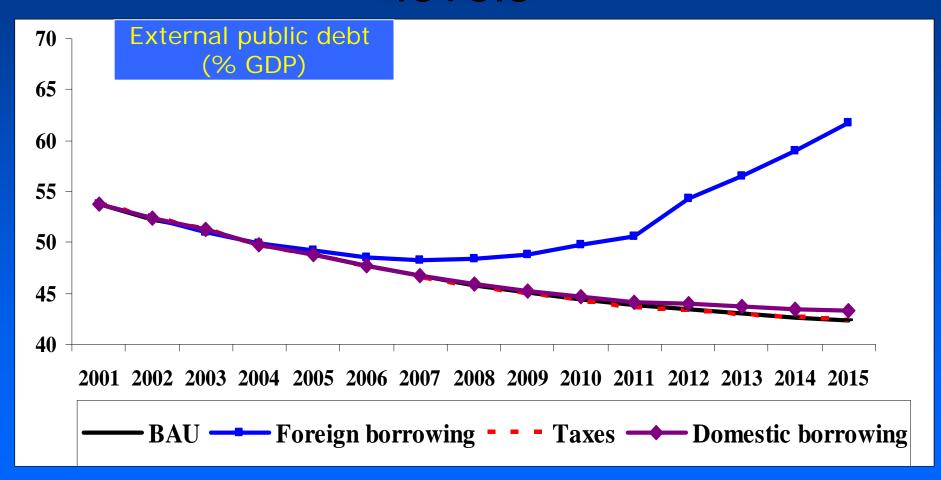
Ecuador: also GDP growth less under domestic borrowing scenario



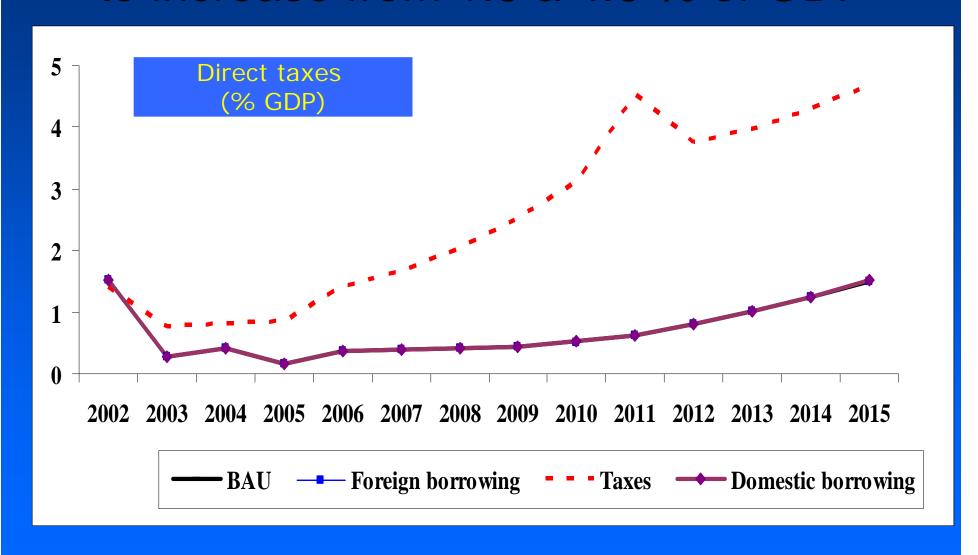
.... but domestic debt would increase to unsustainable levels



Also external borrowing strategy would raise debt to unsustainable levels



Ecuador: direct tax burden would have to increase from 1.5 a 4.6 % of GDP



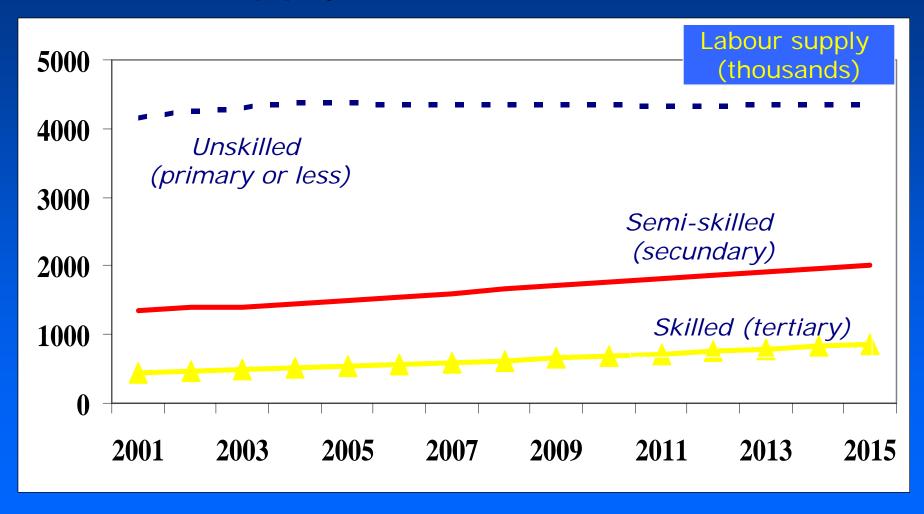
LAC: "Feasible" financing options

	Foreign aid	Tax increase	Tax increase combined with foreign aid	Tax increase combined with foreign borrowing	Tax increase with public expenditure reform and other
Argentina		V			
Bolivia	\checkmark				
Brazil		\checkmark			
Colombia					\checkmark
Costa Rica		$\sqrt{}$		\checkmark	
Dominican R				\checkmark	
Ecuador		\checkmark			
El Salvador					√
Honduras			\checkmark		
Jamaica					\checkmark
Guatemala					\checkmark
Mexico					\checkmark
Nicaragua			\checkmark		
Paraguay		\checkmark			
Peru		$\sqrt{}$		\checkmark	
Uruguay					√

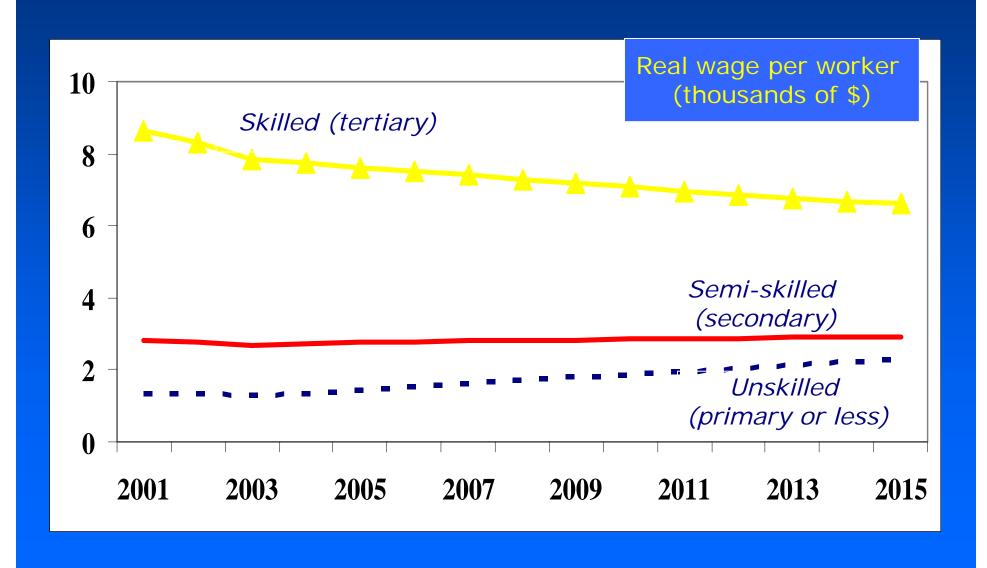
Trade-offs and MDG 1

- MAMS does not provide for an explicit MDG-1 strategy
- Changes in extreme poverty are modelled as results of the other MDG strategies and related trade-offs, in combination with microsimulation methodology using CGE outcomes for labour market and labour supply composition

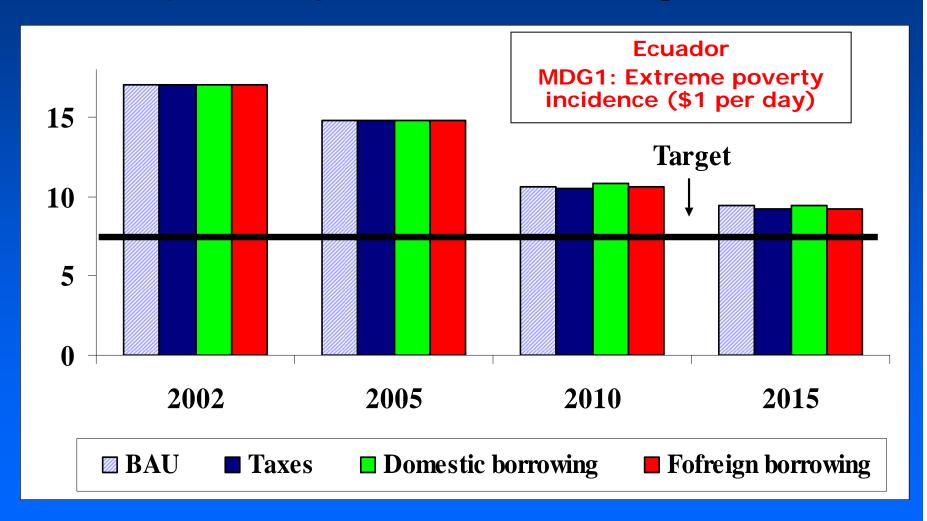
Ecuador: MDG strategy increases supply of skilled labour



Ecuador: falling wage gaps



....but not good enough to meet poverty reduction target

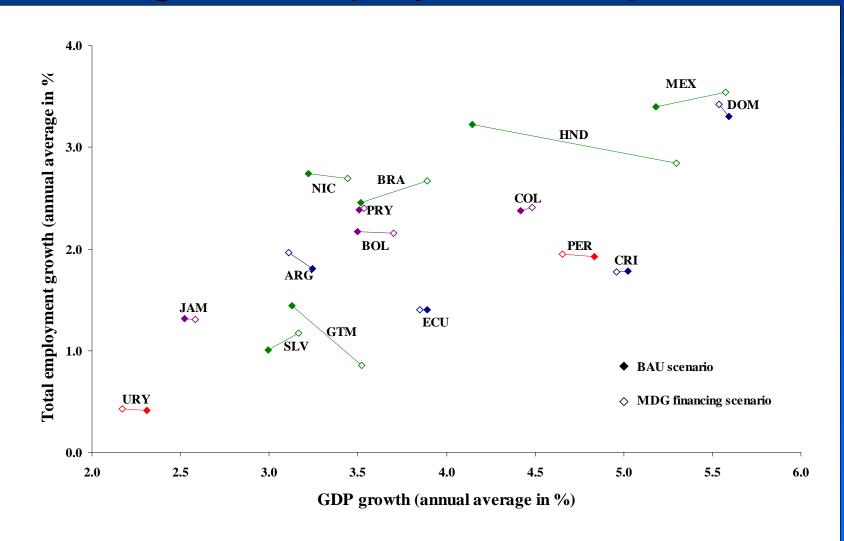


LAC: mixed results for MDG1

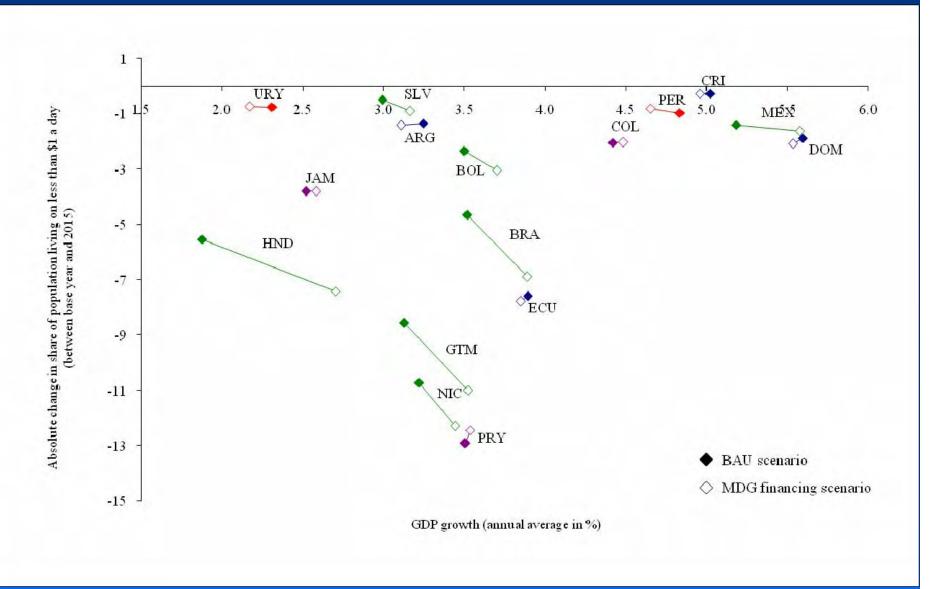
Main results:

- 7 countries reach MDG 1 under BAU, and 8 under the MDG scenario (incl. Honduras)
- Progress in poverty reduction is mostly explained by average income and employment growth both under BAU and MDG scenarios
- High income inequality remains an obstacle to increased poverty reduction in LAC

MDG strategy does not necessarily strengthen employment-output nexus



Investments towards MDGs 2-7 do not necessarily accelerate progress towards MDG 1



Conclusions and recommendations

- Affordable: the cost of reaching MDGs is not prohibitive, but most LAC countries need extra efforts to achieve the goals (BAU not good enough)
- Tax and spend: analysis of macroeconomic trade-offs suggest tax reform should be at centre of financing strategy (though mixed financing may be best in most cases)
- Efficiency increases in social spending: MAMS assumes effective allocation to reach goals, but in practice space to improve efficiency in public spending to create more fiscal space

Conclusions and recommendations

- Socially responsible macroeconomic policies: broad perspective on macro policies beyond stabilization and inflation targeting: growth, adequate social spending, employment growth and inter-temporal objective of human development
- Structural adjustment: need to generate more productive employment and reduce inequality: MDG strategy per se insufficient to meet poverty reduction target

Caveats

- MAMS gives stylized picture of economy. Results are sensitive to model assumptions and parameter estimates
- Always imperfect instrument, but provides integrated and consistent picture
 - Better costing instrument
 - Improved identification of "on track" vs "off track"
 - Link macroeconomic and social policies
- Need to avoid its use as "black box", but see as instrument to help policy dialogue