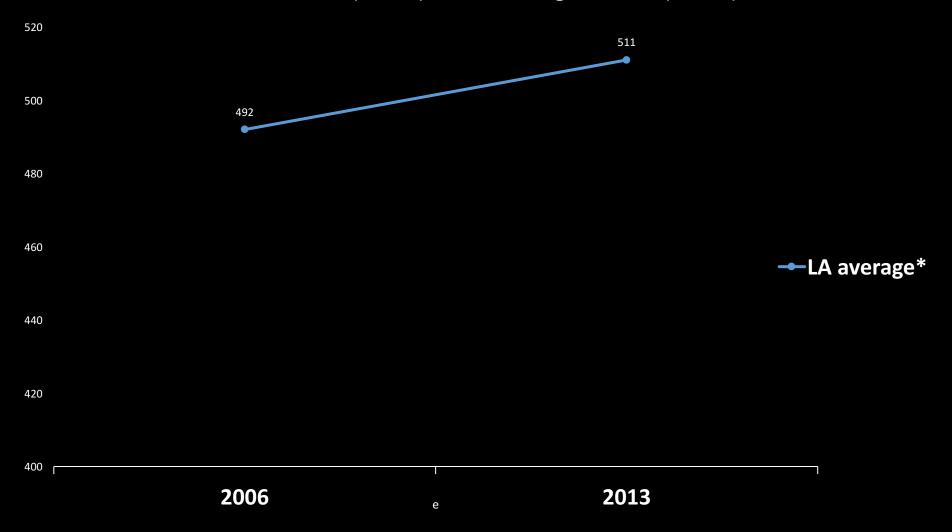
#### The Politics of Transforming Education in Ecuador 2006-2017

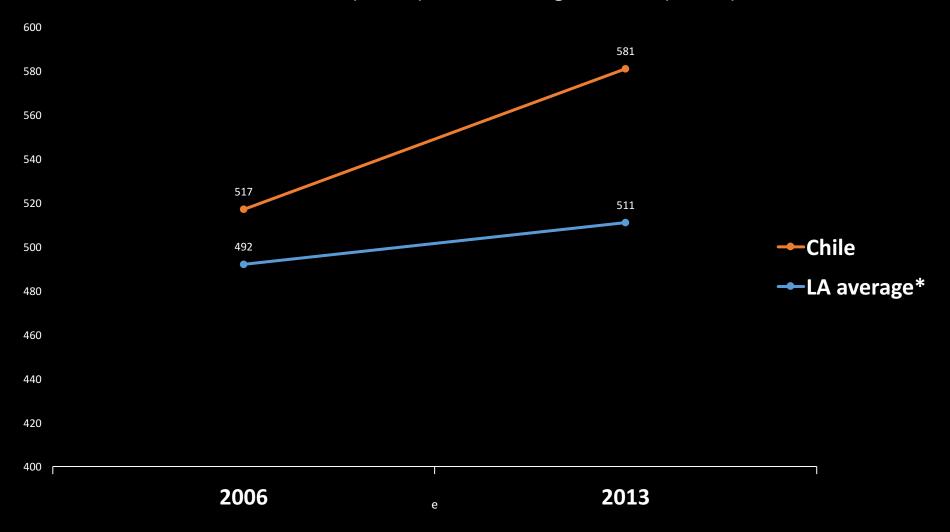
Ben Ross Schneider, Pablo Cevallos Estarellas, and Barbara Bruns

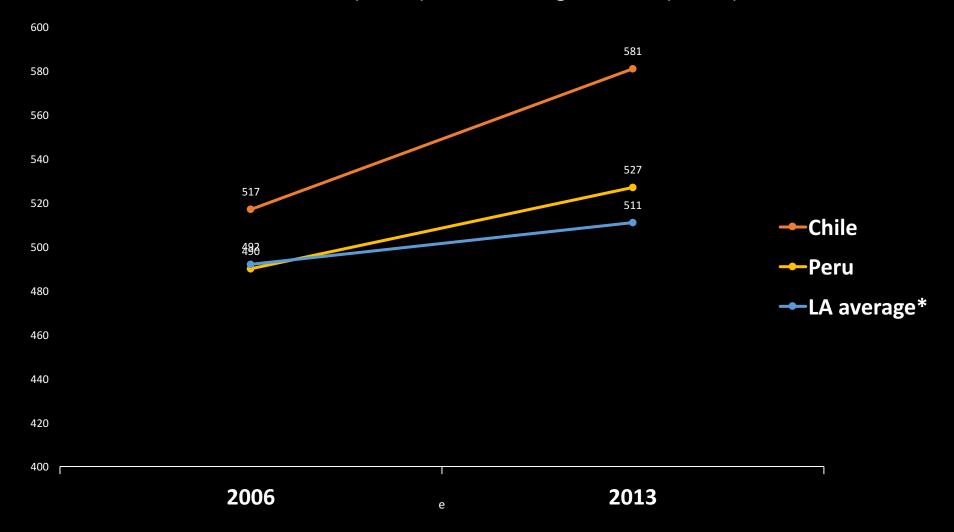


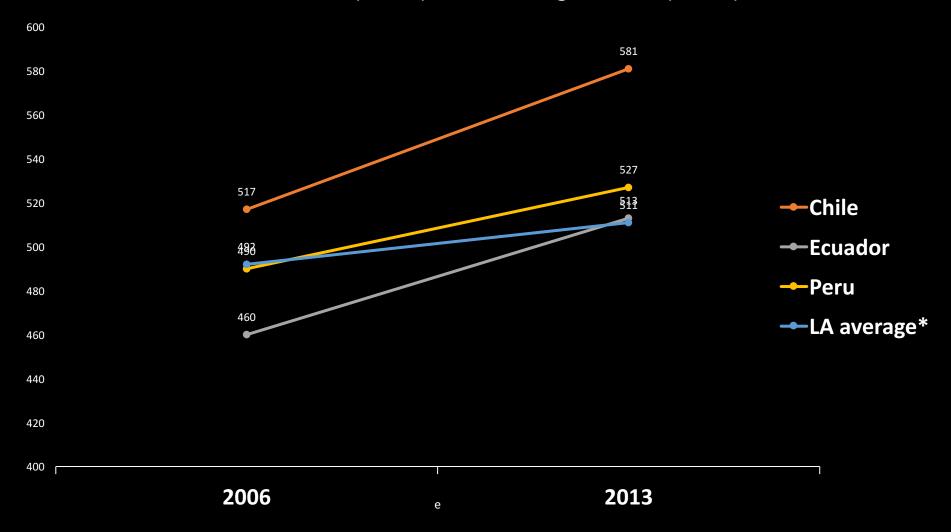
#### Outline

- 1. Ecuador's education transformation in an Andean context
- 2. What drives learning improvement?
  - What education economics is telling us: cost-effective interventions
  - 2. What policymakers are doing: system-wide reform with little evidence base
- Challenges of reforming teacher policy technical and political
- 4. How Andean countries are doing it?
- 5. What we can learn from Ecuador?



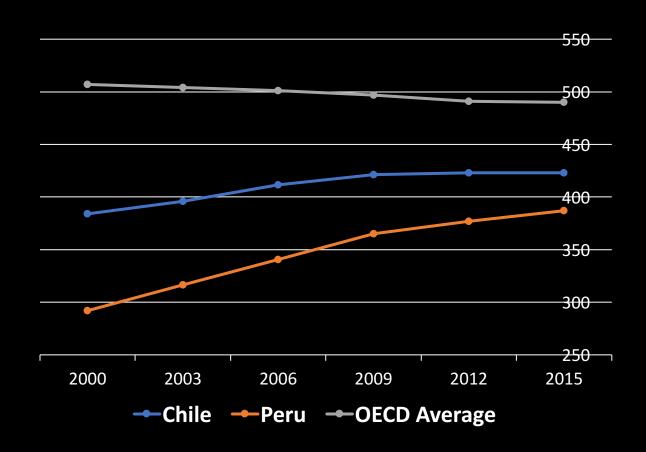






#### Andean countries on PISA: 2000-2015

Math scores on PISA

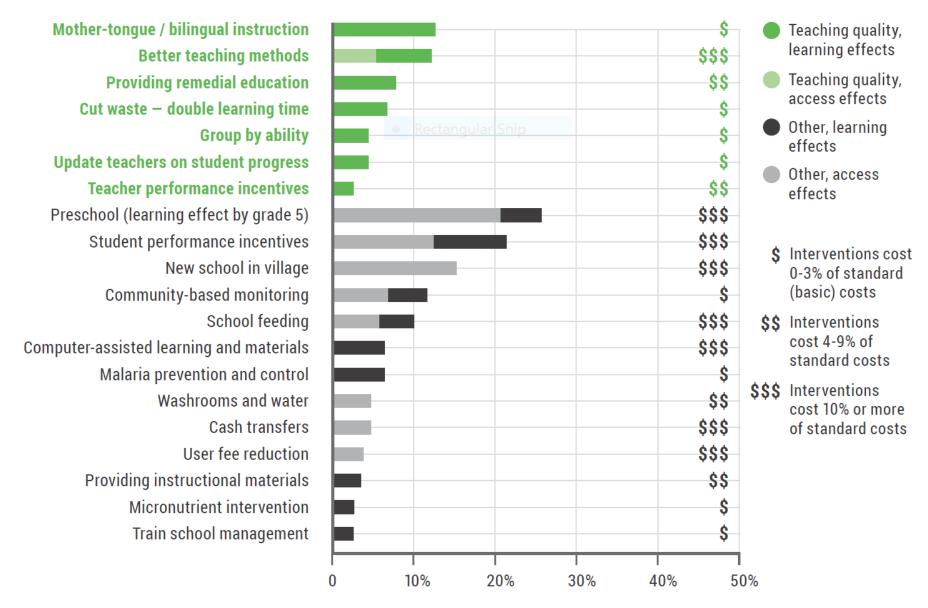


*Note: Values for Peru interpolated from 2000-2009* 

What is driving Andean education progress?

• Cost-effective interventions?

Figure 13. Highly effective practices to increase access and learning outcomes



Source: Education Commission analysis (2016). V8 Note: The improvements are based on a baseline of 50 percent (of enrollment, comple-

Table 17: Variance within versus across McEwan's (2014) intervention categories

	In category		Not in c	Not in category		tal	
Category	Mean	s.D. <sub>Rec</sub>	<b>Mean</b> tangular Sr	s.D.	Mean	S.D.	More within category variation?
Teacher training	0.171	0.225	0.067	0.156	0.097	0.184	Yes
Computers or technology	0.200	0.309	0.082	0.154	0.097	0.184	Yes
Instructional materials	0.107	0.160	0.093	0.192	0.097	0.184	No
Deworming drugs	0.044	0.188	0.102	0.183	0.097	0.184	Yes
Food, beverages, and/or micronutrients	0.066	0.188	0.102	0.183	0.097	0.184	Yes
Contract or volunteer teachers	0.117	0.093	0.093	0.196	0.097	0.184	No
Monetary grants	-0.005	0.098	0.103	0.186	0.097	0.184	No
Class size or composition	0.132	0.083	0.092	0.194	0.097	0.184	No
School management or supervision	0.118	0.188	0.094	0.184	0.097	0.184	Yes
Student/teacher performance incentives	0.102	0.106	0.096	0.191	0.097	0.184	No
Informational treatments	0.058	0.095	0.102	0.192	0.097	0.184	No

Source: Evans and Popova, What Really Works to Improve Learning in Developing Countries, 2015

Table 7 – Summary of Impacts on Test Scores of School Inputs Table 5 – Summary of Impacts on Test Scores of Demand Side Interventions Negative, Negative, Positive, Positive, Total Negative, Negative, Significant Insignificant Insignificant Significant Insignificant Insignificant Significant Studies Interventions that Increase Access to Schools Information-Based Interventions Building new schools Inform. on returns to schooling (RCT) 0(0)1(1) 0(0)0(0)RCTs 0(0)0(0)Other high quality studies 0(0)0(0)Career counseling (RCT) 0(0)1(1) 0(0)0(0)Hours per school day (high quality) 0 (0) 1(1) Cash Transfer Programs Pedagogical Materials and Facilities Conditional cash transfer Textbooks (all RCTs) 0(0)2(1)1(1) 3(3) 5 **RCTs** 0(0)1(1) Other high quality studies 0(0)1(1) 1(1) 0(0)2 Flipcharts (RCT) 0(0)0(0)Unconditional Cash Transfers (RCT) 1(1) 0(0)0(0)1(1)Provision of libraries (RCT) 1(1) 1(1) Labeled cash transfer (RCT) 0(0)0(0)1(1) 0(0)Multilevel learning materials (RCT) 0(0)1(1) Multi-level teaching materials and 0(0)0(0)Promise of high school fin. aid (RCT) 0(0)1(1) 0(0)0(0)parent-teacher partnerships (RCT) Scholarship Programs Teacher Quantity and Quality Merit-based scholarship (all RCTs) 0(0)1(1) 0(0)5(3) Pupil-teacher ratio 0(0)1(1) Other high quality studies Other Household Interventions 3(2) 1(1) Provision of Food School meals 0(0)0(0)Table 9 - Summary of Impacts on Test Scores of Pedagogy Interventions Other high quality studies 0(0)2(1)Take home rations (RCT) 0(0)0(0)Negative, Negative, Positive, Positive, Total School Feeding /parent-teacher Significant Insignificant Insignificant 0(0)0(0)Significant Studies partnerships (RCT) Medical Services Teaching at right level/ 0(0)1(1) 1(1)4(3)Deworming Medicine (RCT) 0(0)1(1) Supplemental instruction Iron supplements (all RCTs) 0(0)(all RCTs) 1(1) Provision of eyeglasses (RCT) 0(0)0(0)Tracking/Streaming (RCT) 0(0)0(0)0(0)2(1)Large-scale Provision of Resources Computers/Electronic games Attending an Elite Public School (both 0(0)0(0)are other high quality studies) RCTs 1(1) 0(0)3(3) 10(6) Other high quality studies 3(1) 0(0)0(0)0(0)Infrastructure/Materials/Training 0(0)0(0)(high quality) Reading-intensive pedagogy and 0(0)0(0)2(1)2(1)Unexpected school block grant (RCT) 0(0)0(0)reading materials (RCT) Expected school block grant (RCT) 0(0)0(0)1. Figures are number of estimates; figures in parentheses are number of papers/studies. Incentivized community block grant 0(0)1(1) Non-incentivized community block 0(0)0(0)grant (RCT) Support circles (RCT) 0(0)0(0)Source: Glewwe and Muralidharan, 2015

Positive,

0(0)

0(0)

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1(1)

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Positive,

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Significant Studies

Total

Table 11 - Summary of Impacts on Test Scores of Governance Interventions

	Negative, Significant	Negative, Insignificant	Positive, Insignificant	Positive, Significant	Total Studies
Monitoring (All RCTs)	0 (0)	1 (1)	4 (3)	1(1)	4
School-based Management RCTs Other high quality studies	0 (0) 0 (0)	9 (3) 1 (1)	7 (3) 1 (1)	2 (2) 1 (1)	5 2
Teacher performance pay RCTs Other high quality studies	0 (0) 0 (0)	1 (1) 0 (0)	2 (1) 1 (1)	5 (2) 1 (1)	3 1
Contract teachers (all RCTs)	0 (0)	0 (0)	0 (0)	3 (2)	2
Private School (vouchers) RCTs Other high quality studies Diagnostic Feedback to	0 (0) 0 (0) 0 (0)	0 (0) 2 (1) 1 (1)	3 (2) 2 (1) 1 (1)	2 (2) 0 (0) 0 (0)	3 2
Teachers (RCT)	v (v)	1 (1)	1 (1)	v (v)	

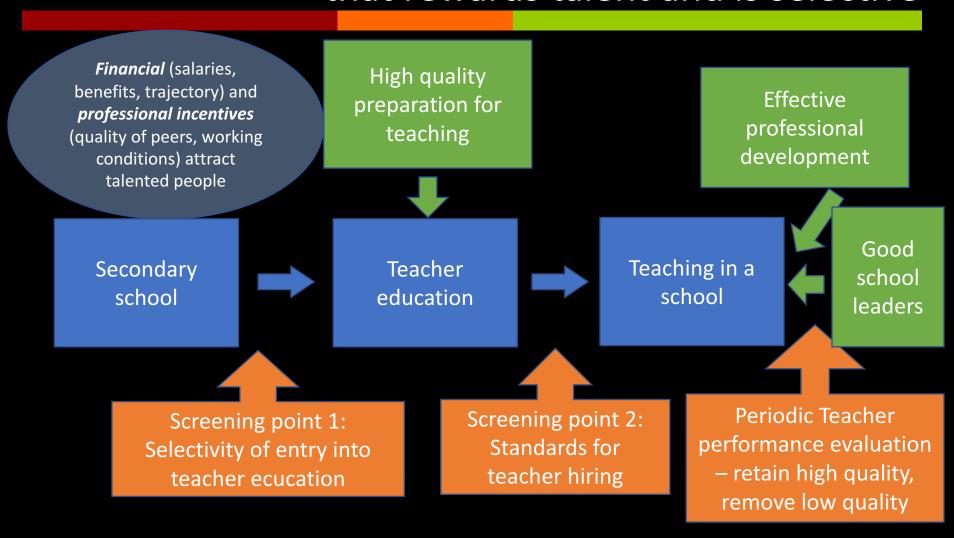
<sup>1.</sup> Figures are number of estimates; figures in parentheses are number of papers/studies.

<sup>1.</sup> Figures are number of estimates; figures in parentheses are number of papers/studies

What is driving Andean education progress?

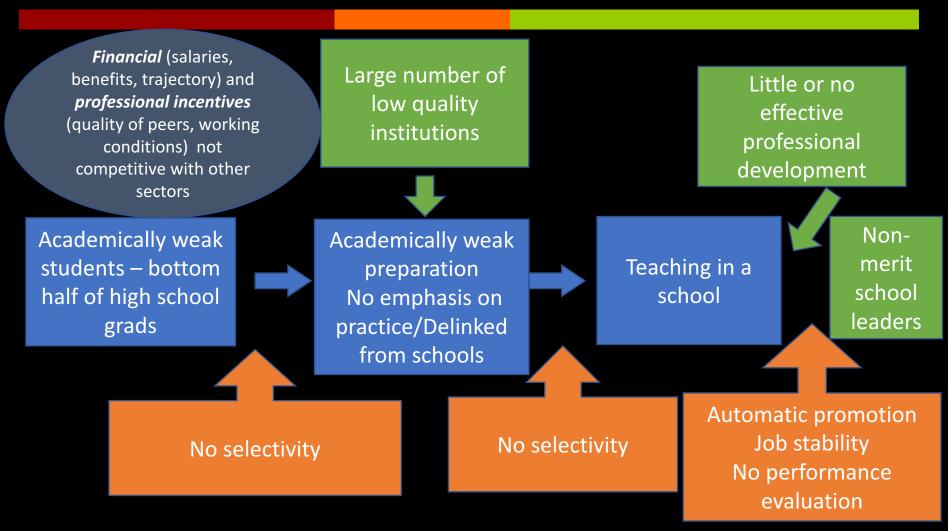
- Cost-effective interventions?
- Or comprehensive reform tackling the core issue of teacher quality?

## High quality teachers are produced by a *System* that rewards talent and is selective



How it works in Finland, Singapore, Canada, Japan, Korea, Shanghai

#### Raising teacher quality requires reforming the System that produces teachers



How it works in low-performing countries...

## Teacher reform is technically challenging

- Big agenda multiple reforms, covering incentives, institutions and processes need to be pursued at same time and aligned
- Capacity-intensive teacher performance evaluation; institutional accreditation; effective professional development all require expert skill and implementation capacity
- Hard to monitor To affect student learning, reforms must affect teacher practice in the classroom, but this is hard to change
- Slow and diffused results benefits, in terms of education system performance, take years to accrue

#### ... and politically conflictual

- Costs of reform are concentrated on teachers and teacher unions
  - Increased accountability, decreased job stability, more variable pay
  - Threats to union structure (decentralization) or unity (variable compensation)
- Unions have immense political power
  - Largest, most homogeneous, and most powerful union in many countries
  - High disruptive power through strikes and demonstrations
  - Direct political power in funding candidates and voting bloc
- Not just a labor association
  - Leadership often politicized and allied with powerful parties
  - May control significant rents (e.g., appointments)
  - May be part of clientelist, machine politics
  - Multiple layers of interests superimposed on unions
- Quality reforms affect all of these interests



So why – and when – does it happen?

- No satisfying answers from political scientists
- May be lessons from the Andean wave three politically distinct countries implementing very similar reforms
- Parallel in Washington DC, which has been researched
  - Dee and Wyckoff, 2013 within 3 years, teacher evaluation program "shifted the entire distribution of teachers in the direction of higher quality"
  - Jacob et al, 2015 test-based recruitment has produced more effective new teachers

"Andean wave" of Teacher Policy Reforms

Policy goals and instruments	Ecuador <i>2007-15</i>	Chile <i>2004-16</i>	Peru <i>2009-14</i>	Wash DC 2010
More selective and higher quality pre-service education (selection pt. 1)	✓	✓	✓	
- Close low quality schools	✓	✓	✓	
- Create exit exam		<b>√</b>		
Higher standards for new teachers (selection point 2)	✓	✓	✓	✓
- Higher salaries for new recruits	✓	✓	✓	✓
Individual teacher performance evaluation	<b>√</b>	<b>√</b>	✓	✓
- Eliminate job stability	<b>√</b>	<b>√</b>	✓	<b>√</b>
Promotion based on skills and performance	✓	✓	✓	✓
Duefoccional incontinuos (timos for callabarration				
<ul> <li>Professional incentives (time for collaboration, more in-service training, higher quality training)</li> </ul>	<b>V</b>	V	<b>V</b>	<b>V</b>

#### The case of Ecuador's education reform

- Sense of crisis: spending fell to 1 % of GDP; lowest scores in LAC region on SERCE; teachers working only 62 % of contractual hours.

### Unique features

- Political leader with a mandate and personal conviction: Rafael Correa.

- Resources: oil prices and economic expansion permit 4-fold increase in spending, to 5% in 2013.

## Ecuador: Political strategies

- Key reform opponent (teachers' union) was defeated by Correa's communications strategies.
- No other major stakeholders were influential, but parent and student involvement in school-level decisions built support.
- Strong technical team in Ministry and stable leadership only 2 ministers from 2006-2013.

1. More selective, and higher quality, pre-service teacher education

- Minimum standards set for teacher education curriculum
- Most teacher training institutes were closed down
- National Education University (UNAE) was created

## 2. Higher standards for new teachers

- Entrance tests to apply for public teacher positions
- Minimum score in ENES test to enter teacher education programs
- Recruitment campaign "I want to be a teacher"

# 3. Individual teacher performance evaluation

- First-time assessment of all in-service teachers
   & principals
- Economic incentives to those who received better marks
- Creation of Institute of Educational Assessment (INEVAL)

# 4. High quality in-service professional development

- National training program for in-service teachers
- Orientation program for new teachers
- Mentorship program

5. Restructure teacher career with promotion based on tested competencies

- Entry salary increase
- "Meritocratic" career ladder
- More professional opportunities

#### Conclusions

#### What worked?

- Strong political leadership produced overwhelming public support.
- Long tenure of reformers generated continuity of reforms.
- Teachers' union opposition to reforms was skillfully deactivated.
- Education reform was comprehensive.

#### What looks problematic?

- Top-down reform failed to build a broader coalition of civil society support and cultivate teacher buy-in.
- Teacher selection mechanisms showed a disconnect between requisites and retribution.
- Limited attention was given to the quality of key actors of the education system other than teachers – e.g., school leaders and supervisors.
- Some substantively important reforms may produce little impact, as they do not address the flaws they were meant to solve.

#### ¡Gracias! Thank you!

- Ongoing research
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