## PRODUCING HIGHER QUALITY JOBS:

1

#### ENFORCING MANDATED JOB BENEFITS IN BRAZILIAN CITIES BETWEEN 1996-2007

Rita Almeida<sup>1</sup> Pedro Carneiro<sup>2</sup> Renata Narita<sup>3</sup>

<sup>1</sup>World Bank,IZA

<sup>2</sup>UCL,IFS,Cemmap

<sup>3</sup>University of Sao Paulo

2015 ABCDE "Productivity, Growth, and the Law" Mexico city, June 15-16

### Motivation

Many factors improved a lot in the past two decades in Brazil

poverty and inequality reduction lower unemployment and informality lower mortality rates higher wages for the low skill workers

However, productivity and growth has not accompanied social development

GDP to decline 1.5% next year, the biggest contraction since 1990

イロト (日本) エヨト (日本) シスペ

## Motivation

Education (access and attendance) did not improve productivity in Brazil



(Source: Naercio Menezes-Filho at Valor Economico newspaper, 05/22/15)

## Main question

Our paper looks at one aspect of institutions that can affect welfare and perhaps labor productivity

enforcement of labor regulations

We do not model welfare, but we investigate what happens to vacancy characteristics with stricter enforcement:

Mandated benefits (registration, social security, transport subsidy, MW, max. working period)

### Literature

**Compensating wage differentials:** firms tend to compensate higher cost of mandated benefits through adjustment in wages and other negotiable benefits

Wages respond inversely to changes in payroll taxes [ex: Boeri, Helppie and Macis (2008), Kugler and Kugler (2002), Gruber (1997)]

### Labor Regulation in Brazil

Registration (worker's card): entitles worker to employment protection

paid annual leave, maternity leave, severance, 44 hours/week, unemployment insurance and transportation benefits

Severance Pay: 8.5% wage; worker entitled if fired for no reasons; it costs to the employers a 50% fine, a notice period of 1 month, and 2 hours/day to the worker to seek jobs

Payroll tax: 20%

Transportation benefit, varies by city and transport means

Minimum wage: set by the federal gov. R\$ 112 in 1996 and R\$ 380 in 2007 (approx. 50% of mean wage)

Other costs (e.g., sector contributions): Up to 6% of gross wage

## **Enforcement in Brazil**

Enforcement gained importance during the 90s:

From beginning 90s: to increase compliance with Federal Constitution/1988 which increased severance pay, payroll tax, paid leave, maternity leave and reduced weekly permitted working hours After mid-90s: to reduce public deficit led the government to search for alternative ways to collect revenue

This was motivated by the large payroll tax evasion (57% of workforce and significant non-compliance with severance pay by firms)

Inspections (and fines) are mostly to ensure compliance of firms with worker's registration, severance pay, MW, maximum working period/shifts

Evasion of one of these dimensions accounts for approximately 62% of all fines issued in 2006

Fines are significant:

fixed per worker (R\$ 403 ~1MW) for lack of registration, or vary with firm's profitability, e.g. R\$40- 4,025 per worker for fines related to working period [average profit of a small firm is R\$ 600, ECINF 2003] recidivism doubles the penalty

## How does enforcement work?

An inspection may be triggered by a random firm audit, or by a report (often anonymous) of non-compliance

Inspectors' wages are relatively high and tied to performance. Top 10% wages in Brazil's labour market. They have to rotate across offices

Enforcement is decentralized at the district level

イロト (日本) エヨト (日本) シスペ

#### We construct a panel of cities using PNAD (Brazilian HH

◆□ > ◆□ > ◆臣 > ◆臣 > 善臣 - のへで

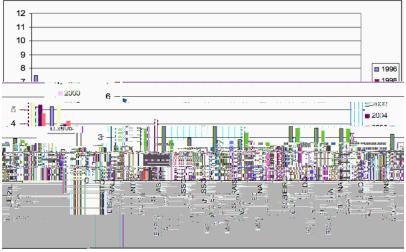
## Large within country and time variation

Labor Inspections/1,000 residents: North and Northeast States



## Large within country and time variation

Labor Inspections/1,000 residents: Center and Southern States



▲□▶▲圖▶▲≣▶▲≣▶ ≣ のQ@

**Baseline regression** 

$$Y_{it} = + E_{it-1} + X_{it-1} + i + i$$

▲□▶▲圖▶▲≣▶▲≣▶ ≣ のQ@

## Other specifications

1. We consider changes over time in unobserved state-level variables possibly correlated with enforcement

We control for trends by state

2. We did find that enforcement (1996-2006) relates to some outcomes in the past (1980-1991)

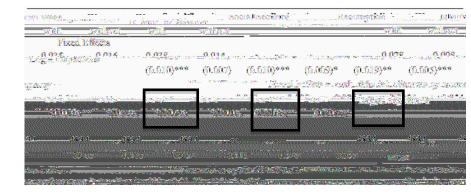
We control for past trend in the outcomes constructed from census data 1980 and 1991

# Enforcement and Employment Status



A 10% increase in inspections (in the city) raises of the share of wage earners (0.32pp), decreases the share of self-employed (-0.16pp, not sig.) and increases the share of unpaid workers (0.16pp).

## Enforcement and Mandated Benefits



Stricter enforcement increases compliance with main mandated benefits

No significant impact on other mandated benefits:

transportation subsidy and maximum hours of work/week

## **Enforcement and Voluntary Benefits**



Increase in inspections decreases the provision of voluntary benefits (food and employer-provided health insurance)

# Enforcement and wages

(10th, 50th, 90th percentile log-wages)



The share of formal increased, this should have decreased wages in the informal sector, or

CWD: Stricter enforcement increases the cost of providing mandated benefits; decreases wages for workers with mandated benefits and increase for workers without it

Cannot decrease the lowest wages because of MW: tends to affect most high rather than low paid workers

## Conclusion

Brazil has a heavily regulated labour market, enforcement is likely important

With stricter enforcement, CWD theory predicts firms try to avoid compliance and/or adjust wages and voluntary benefits – that may be more valued by workers and can be related to worker productivity

Our results for Brazil show that stricter enforcement increases compliance with mandated benefits

Enforcement does not affect employment but increases the fraction of unpaid workers

Enforcement reduces provision of negotiable benefits (wages of high skill workers, food benefits, and employer-provided health)

Effects on total welfare depend on the valuation and costs of provision of each benefit (agenda)