





# Inclusive and Solidary Recycling Observatory



**Núcleo Alternativas de Produção/ UFMG**



**DRS/  -MG**



**NETWORK TO BUILD SOLUTIONS TO WASTE RECYCLING AS A SOCIAL AND ENVIRONMENTAL ALTERNATIVE FOR URBAN WASTE TREATMENT**

**FROM THEORETICAL AND PRACTICAL KNOWLEDGE**



# SURVIVE FROM WASTE IS NOT A NEW REALITY...



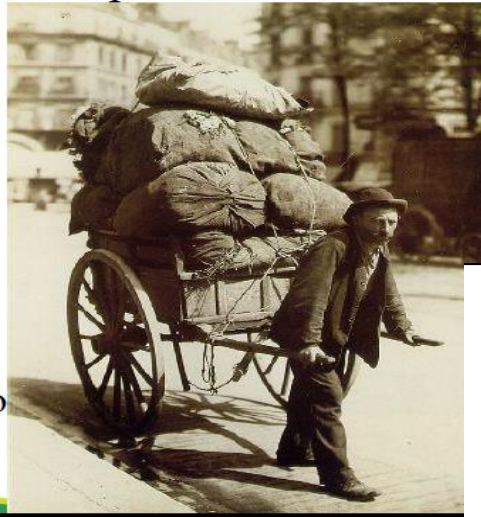
24 San Francisco, Cal.—A Chinese Rag-Picker

Foto: Eugene Atget

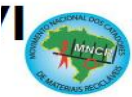
1899-1900



Rag-Picker



England – XVI century



SCAVENGER



# Jean- François Raffaelli (1850 - 1924)



- ✓ Recolector;
- ✓ Cartonero;
- ✓ **CATADOR DE MATERIAIS RECICLÁVEIS**

- ✓ Scavanger;
- ✓ Ragpickers;
- ✓ Waste Pickers;
- ✓ Recyclable material collector;
- ✓ Recyclable material pickers;

**USA - XIX CENTURY**





# BRASIL: 70's - 80's - UNEMPLOYMENT



Pictures: Insea e Pastoral da Rua

# BRASIL: end of 80's - ORGANIZATION



Catholic groups [*Street Pastoral* and *Fraternal Assistance Organization*] fought political and police persecutions [gentrification as “sanitation actions”]:

- ✓ Contact with workers at streets;
- ✓ Meetings on street and under viaducts;
- ✓ Street assemblies
- ✓ Mobilizations on squares and in public institutions.



# BRASIL – FIRST COOPERATIVES



Pictures: Pastoral de Rua

São Paulo/SP

COOPAMARE - 1989

Support: OAF



Belo Horizonte/MG

ASMARE – 1990

Support: Pastoral de Rua



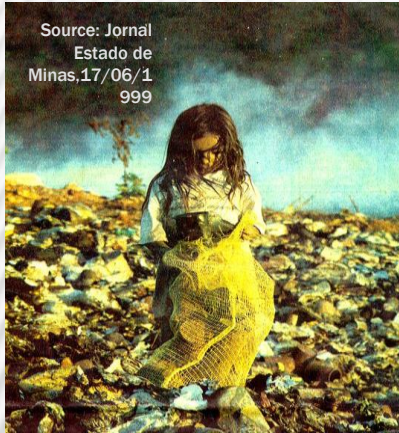
# WASTE & CITIZENSHIP



Source: UNICEF, 1999



# CHILDHOOD INTO THE DUMP



Source: Jornal  
Estado de  
Minas, 17/06/1  
999

- ✓ Estimative: > 45000 children working;
- ✓ Dumpsites in all Brazilian towns and cities.

**RECYCLING SUSTAINED BY MISERY!**



Source: Jornal  
Estado de São  
Paulo, 1999

Child Pastoral + UNICEF organized  
Forum Waste&Citizenship

Permanent Campaign:



Source: UNICEF, 1999

**CHILD INTO THE TRASH NO MORE!**



# WASTE&CITIZENSHIP FORUM



## PROPOSALS:

- ✓ eradicate child labour
- ✓ elect WP as priority partners in the selective collection with guarantee of work and income
- ✓ eradicate dumps and reclaim degraded areas



# FEDERAL SOCIAL PROGRAM PRIORITY



Source: MDS, 2005

**ILO resolution [182/2000]:**

**working with waste**



**worse child work**



**WP mothers received income to keep  
their kids in school instead of working**



**46.000 children attended**

# I NATIONAL CONGRESS OF BRASILIAN WPs

June, 4-6 2001

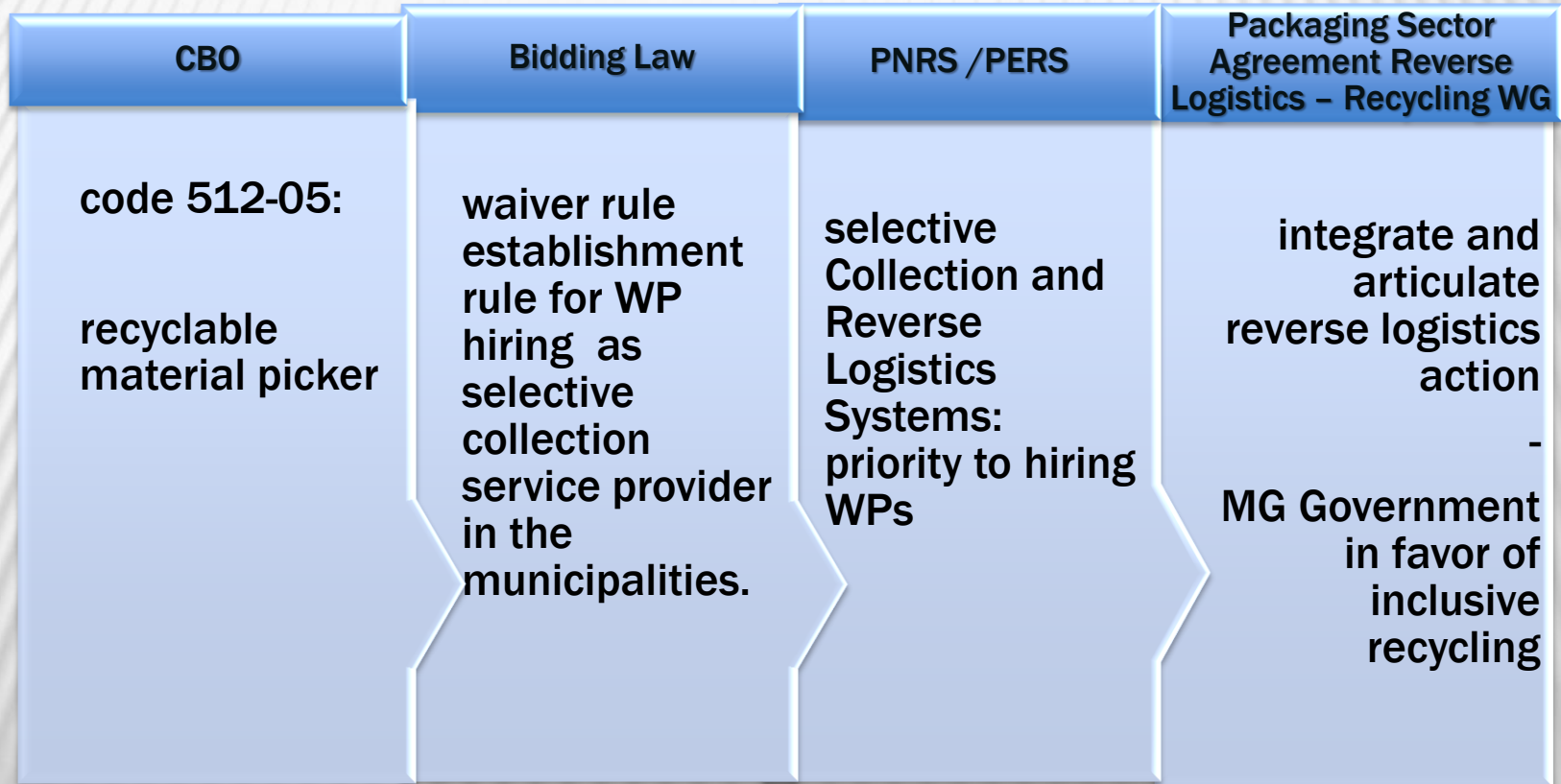
## 1700 Waste Pickers

### HISTORY MADE BY MANY HANDS, HEARTS AND MINDS THAT DREAM





# WP: PUBLIC POLICY SOCIAL AGENT



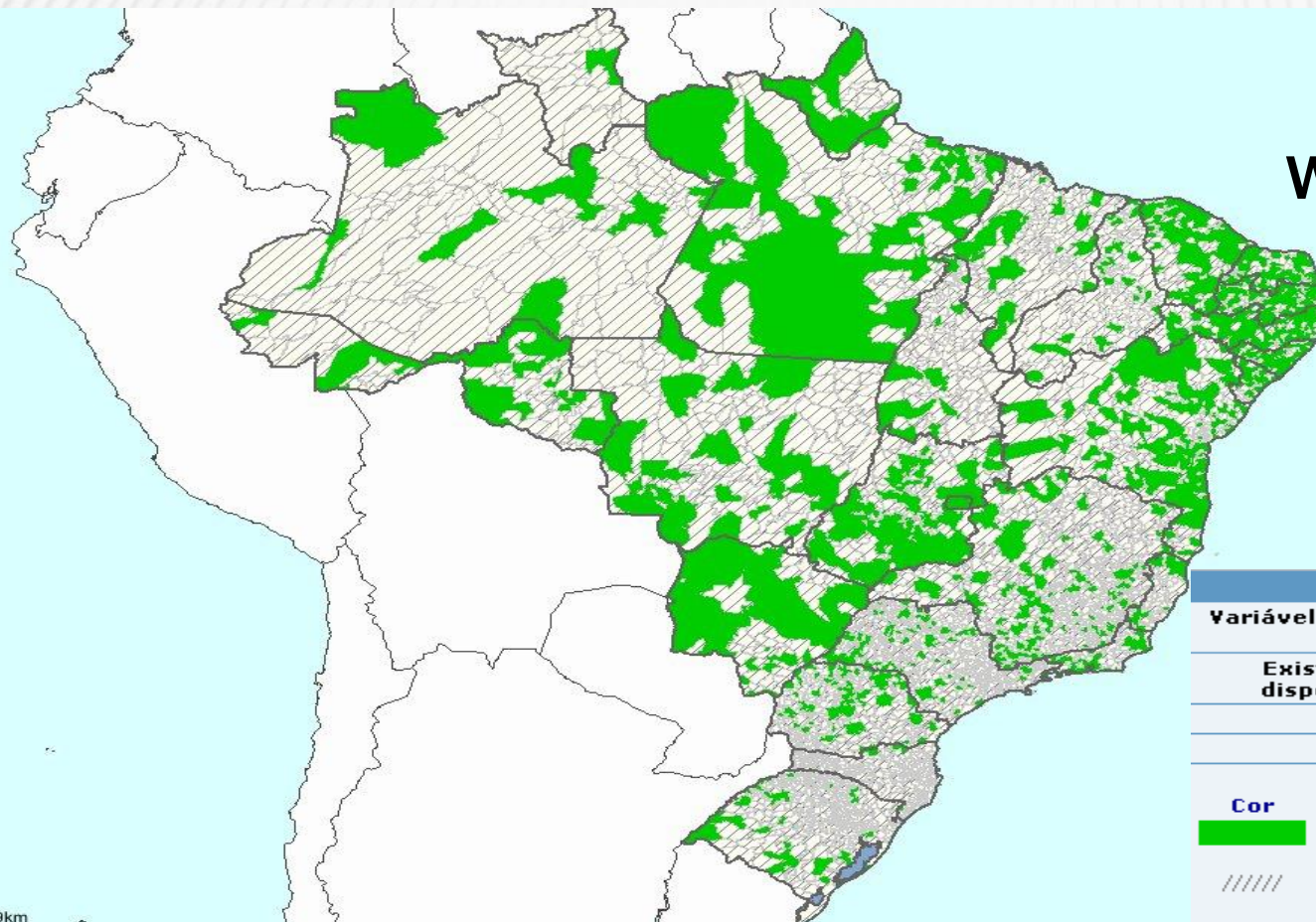
# BUT REALITY



Source: Brazilian Environmental Ministry, 2010



# NATIONAL CENSUS 2010-12



WPs at dumpsites



## Legenda

Variável = Número de municípios com manejo de resíduos sólidos (Unidades)

Existência de catadores nas unidades de disposição de resíduos no solo = Existem

Ano = 2008

Nível Territorial = Município

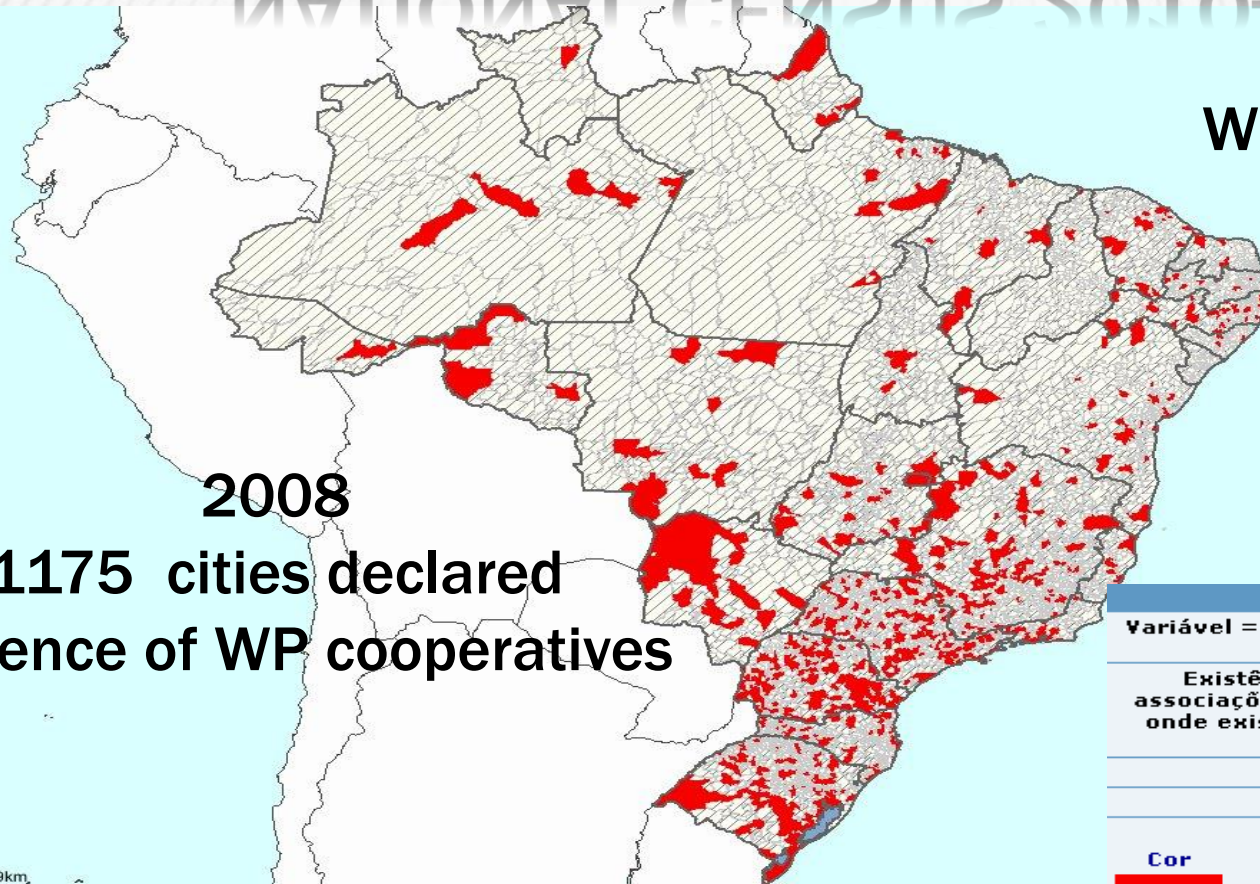
Cor	De	Até	Freqüência	%
	1	1	1488	26,7
	Ausência de dados, (-) ou valor desidentificado		4076	73,3

# NATIONAL CENSUS 2010-12

## WPs organization

2008

1175 cities declared presence of WP cooperatives





### Legenda

Variável = Número de municípios com manejo de resíduos sólidos (Unidades)

Existência e número de cooperativas ou associações de catadores = Total de municípios onde existem cooperativas ou associações de catadores

Ano = 2008

Nível Territorial = Município

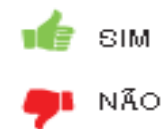
Cor	De	Até	Freqüência	%
	1	1	684	12,3
	Ausência de dados, (-) ou valor desidentificado		4880	87,7

Fonte: IBGE - Pesquisa Nacional de Saneamento Básico

Programa Cataforte III supported 35 WP cooperative networks

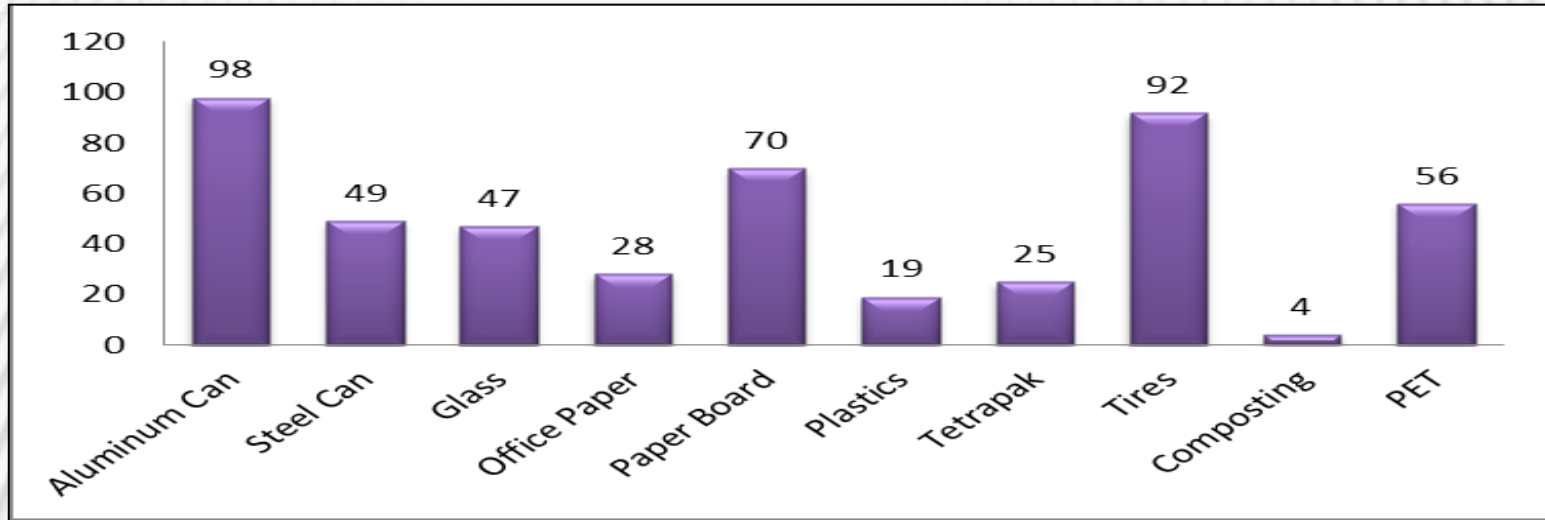


# WASTE SELECTIVE COLLECTION



**IN MOST CITIES, WPS RESPONSIBILTY IN AN INFORMAL WAY**

# BRASILIAN RECYCLING INDEX [2012]



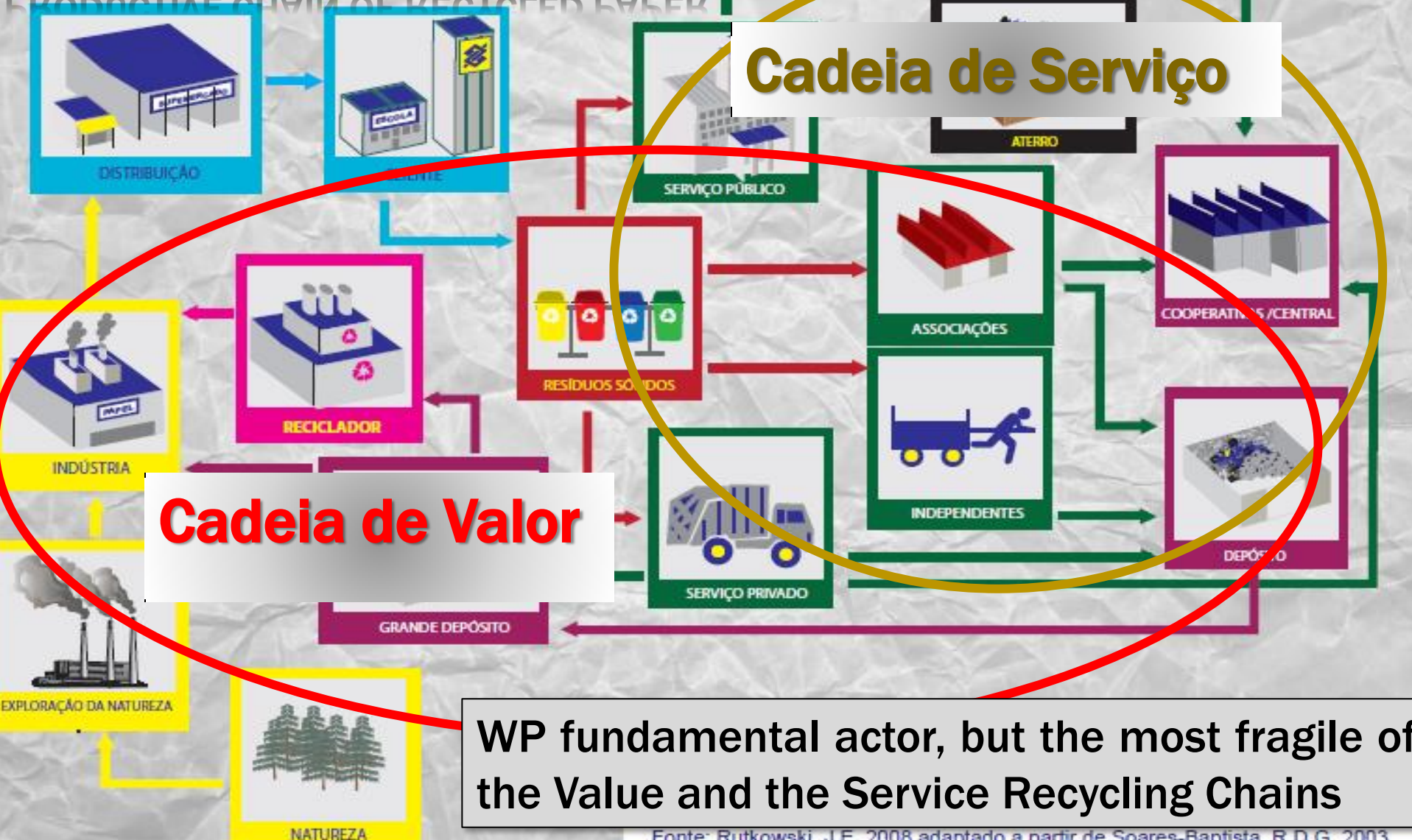
**Municipal waste recycling programs responsible for 3% of the total recycled :  
0,7% for metals, 7,5% for papers e 17% for plastics**

**WPs responsible for 90% of the recycled material back into industrial process**

**WPs account for 12% annual increase in Brazilian urban waste recycled.**



# PRODUCTIVE CHAIN OF RECYCLED PAPER











# SOLIDARITY SELECTIVE COLLECTION





# SOLIDARITY SELECTIVE COLLECTION – SOCIAL TECHNOLOGY

**more effectiveness: greater area reached**

**Sensibilization for recyclables selection**

**Get to traditional collection system unreachable areas**

**technical efficiency: a greater volume subtracted from urban waste**

- ✓ Natal/RN – 42 t/month to 298 t/month in 12 months ;
- ✓ Itaúna/MG – 140 t/month to 208 t/month with 30 days of work;  
70% to 30% reduction of discarded material in 30 days

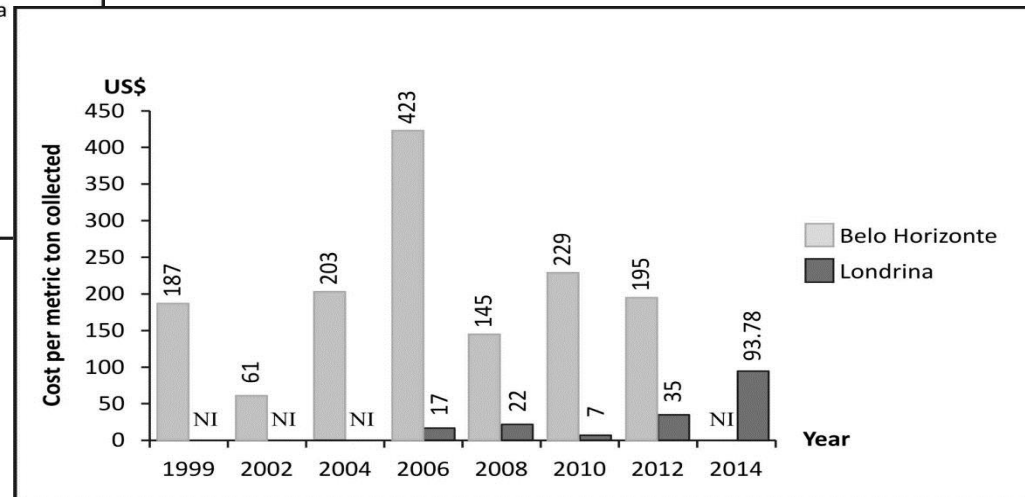
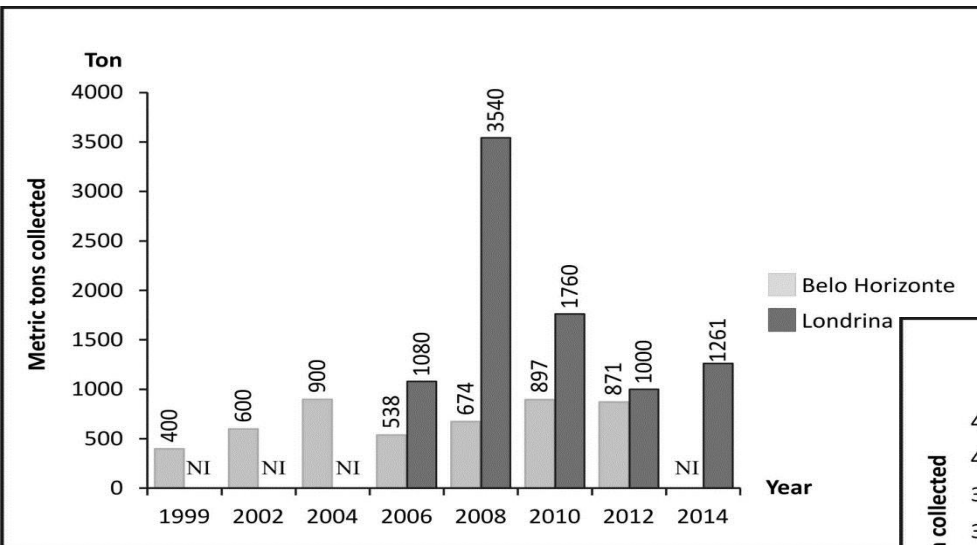
**sustainability increase: better system maintenance**

**growth of > 46% WP income**

**> 48% productivity**

# SOLIDARITY SELECTIVE COLLECTION - SOCIAL TECHNOLOGY

**better environmental results      more material recycled**  
**less waste onto landfill**



Source: Made by the author from CEMPRE, 2014



# **SOLIDARITY SELECTIVE COLLECTION – SOCIAL TECHNOLOGY DEVELOPMENT AND EXPANSION**

- ✓ **Widespread social technology SSC to waste professionals in universities, management and technical institutions;**
  - ✓ **Widespread SoCo tool to waste professionals in universities, management, WP cooperatives and technical institutions;**
  - ✓ **Widespread ORIS e-learning course for managers [in process];**
- 
- ✓ **Stimulate countries with unskilled workers to appropriate of SSC social technology [helpful to reduce misery and poverty];**
- 
- ✓ **Priority guaranteed for recycling;**
  - ✓ **Avoid technologies that could compete for recyclable material, such as incineration.**

# **SOLIDARITY SELECTIVE COLLECTION – SOCIAL TECHNOLOGY DEVELOPMENT AND EXPANSION**

- ✓ Use of participatory methodologies for planning waste management system: join theoretical and practical knowledge to construct community-based refuse collection and recycling programs, considering different kind of actors
- ✓ Define sustainable means of financing the waste pickers cooperatives, based on principles of social and solidary economy and on payment for environmental services (as Recycling Grant of Minas Gerais Government).



# SOLIDARITY SELECTIVE COLLECTION – SOCIAL TECHNOLOGY DEVELOPMENT AND EXPANSION

- ✓ Disseminate Cooperative Solidary Networks: more competitiveness to marketing recyclables surpassing middlemen;
- ✓ Discuss how WPs advance in the productive chain – how became a player in a global chain, such as plastic;
- ✓ Disseminate knowledge to WP around the world.



