



# THE SOLIDARY SELECTIVE COLLECTION IN THE EAST REGION OF BELO HORIZONTE CITY

Vilma da Silva Estevam - COOPESOL Leste Apoio: Larissa Sousa Campos (UFMG)

# COOPESOL Leste [Solidary Cooperative of the Workers and Productive Group of East Region]

2003 17 women + 6 men funded Coopesol Leste

2005 Trash&Citizenship Forum helped the negotiation with Municipality for a warehouse

2010 Sorting Shed Inauguration with 40 cooperates

activities: sorting, fine sorting, pressing, commercialization and management

2014 Collection with compactor truck –difficulties to sort and more contamination

2015 Municipality Pilot Project: Coopesol hired to door to door collection in one district



# **Belo Horizonte Pilot Project**

#### **Waste Peakers Request**

- ✓ Negotiation with Municipality mediated by Waste&Citizenship Forum of Minas Gerais state
- ✓ Payment for Mobilization and Reciclable Collecting: [enough only for operational costs]:

Mobilization paid for each house visited Colletion paid for tons collected

#### Goal

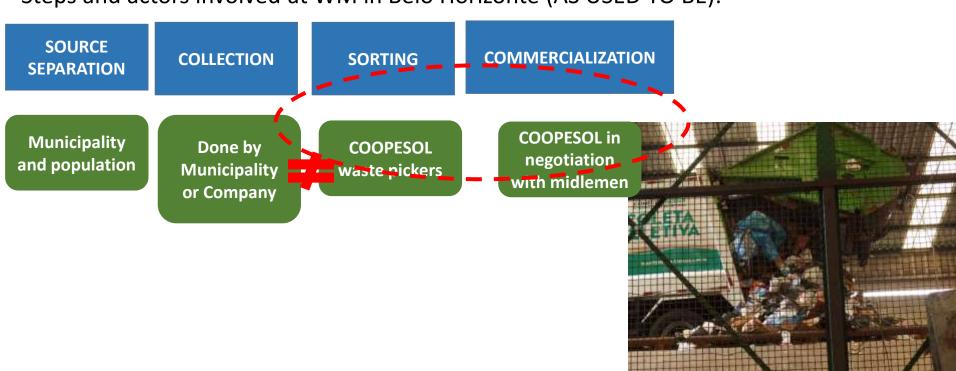
2400 visited houses + 2,97ton/day [= 8% total waste production]

#### 2017

expansion of collection area + price adjustment

### Context

- Demands for improvement on work conditions and on the income of the catadores
- Brazilian Waste Management Law (PNRS) demand on waste pickers inclusion on selective collection
- Steps and actors involved at WM in Belo Horizonte (AS USED TO BE):



## Diferent ways of improving efficiency

#### **MOBILIZATION**

CONTACT WITH POPULATION

- WP's better comprhension about the way population used to do source separation -WP inform how it must be done: for example, how to separate glass

#### COLLECTION

TRUCK ORGANIZATION
DURING THE COLECTION

- Identify "no recyclable" — avoid dead work -Pre-sorting of cardboard -Pre-sorting of glass in the bag -Organization of the material in

the truck to

greater volume

## DELOADING (at warehouse)

PRE-SORTING AND WEIGHTING

organized in bags
- Weighting of carboard and glass sorted in the truck

during the

collection

-Material

#### **SORTING**

SEPARATION OF MATERIAL BY KIND AND WASTE

Material
 collected in
 CSS process is
 sorted in a
 separated way
 To weight
 glass and

reject

INTEGRATION BETWEEN DIFFERENT STEPS
IMPROVEMENT OF THE SYSTEM AS A HOLE

SYSTEMIC EFFICIENCY

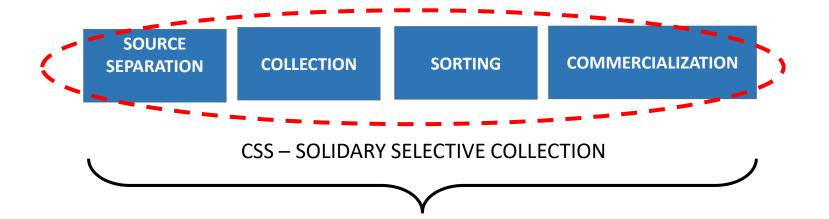
# Diferent ways of improving efficiency





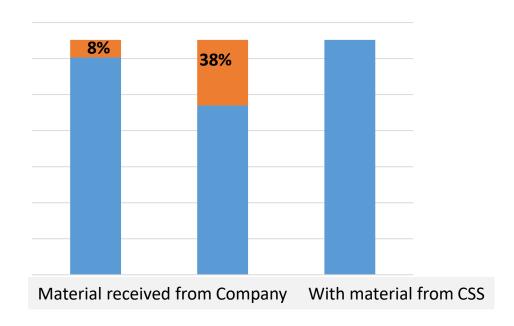
## **Improvements**

- Better quality and greater quantity (material collected is better than the material received from the collection company, contact with households improve the quantity and the quality of the collected material);
- Better work conditions: glass is organized and packaged in the truck, avoid work accidents; WP only collect recyclable, less reject and contamination; Cooperative and Company are paid by tons collected but for the cooperative isn't worth to carry rejects;
- Improvement in the productivity of sorting that implay in better income;



## Results

Improvement on sorting productivity (tons/person/day)



### Results

- Allow integration between population and reciclable collectors more sensibilization and mobilization to recycling
- Improvement at quantity and quality of material collected :
  - "It doesn' t interest us to bring trash to warehouse"
  - The collection model allow pre-sorting
- The amount paid by the service providing improves the global income: some times is greater than the income from commercialization, and more material also allows more money from commercialization
- Imrpovement on work conditions
  - Improvement in production efficiency...
  - ... Without became worse the work conditions.

OBRIGADA! Thank you!