FOR WASTE PICKER ORGANIZATIONS (scavengers): PRIORITY MATRIX

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OPERATIONAL ACTIVITIES FOR WASTE PICKER ORGANIZATIONS (scavengers): PRIORITY MATRIX

Collecting recyclables - scavengers: Common scenario Brazil before 2010

These organizations are present in about 30 countries, covering mainly Latin America, Asia and Africa (Global Alliance of Waste Pickers, 2015)
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Past  Present  Future
Introduction

• With Brazilian Solid Waste Policy (Federal Law 12.305/2010), the Waste Picker Organizations (WPO) have been formally incorporated into Integrate Solid Waste Management.

• Among other obligations, It’s establishes that the cities must:
  • Eliminate the garbage dumps replacing them with landfills (which should receive only non-recyclable waste)
  • Improve your waste management process and implement selective collection systems, with the participation of WPO (promotion of social inclusion)
Introduction

Due their social and economic situation, the WPO have inefficiently performed their Operating Activities of the Recycling Chain (OARC):
Introduction

• The sustainability of WPO relies on their ability to carry out these activities with guarantee of institutional standardization, self-management, and the generation of work and income under adequate public health and safety conditions in order to achieve increasing social, economic, and environmental results;

• The OARC of the WPO are non-standardized, disorganized, have rudimentary practices, and lack knowledge on the relationship between them and their respective importance;

• The objective was to propose the hierarchical organization of OARC according to Criteria that Influence Market Efficiency (CIME).
Material and Methods

Study area

• The study was conducted in the state of Espírito Santo (ES)/Brazil, which has 65 WPO in operations.
## Material and Methods

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<td>CIME selected and prioritized</td>
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<td>- Focus Group in six regions of Espírito Santo with 124 representatives of WPO and government</td>
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### Results and Discussion

#### Stage 1 - Identify, select, and prioritize CIME of the WPO

<table>
<thead>
<tr>
<th>CIME</th>
<th>Description</th>
<th>Weight</th>
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<tbody>
<tr>
<td>CIME 1</td>
<td>Ability to add value to the product</td>
<td>4.60</td>
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<tr>
<td>CIME 2</td>
<td>Support from the Government and development agencies</td>
<td>4.53</td>
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<tr>
<td>CIME 3</td>
<td>Being self-managed and organized</td>
<td>4.49</td>
</tr>
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<td>CIME 4</td>
<td>Ability to compete in the market</td>
<td>4.48</td>
</tr>
<tr>
<td>CIME 5</td>
<td>Ease of execution of production steps</td>
<td>4.43</td>
</tr>
<tr>
<td>CIME 6</td>
<td>Ability to receive and process USW</td>
<td>4.41</td>
</tr>
<tr>
<td>CIME 7</td>
<td>Representation and inclusion of WPO in the region</td>
<td>4.40</td>
</tr>
<tr>
<td>CIME 8</td>
<td>Client satisfaction</td>
<td>4.35</td>
</tr>
<tr>
<td>CIME 9</td>
<td>Compliance with legal requirements</td>
<td>3.83</td>
</tr>
<tr>
<td>CIME 10</td>
<td>Quality of life</td>
<td>3.81</td>
</tr>
<tr>
<td>CIME 11</td>
<td>Assistance</td>
<td>3.56</td>
</tr>
</tbody>
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Weights obtained in the evaluation of Criteria that Influence Market Efficiency (CIME)
Results and Discussion

Stage 1 - Identify, select, and prioritize CIME of the WPO

Eigen vector to Criteria that Influence Market Efficiency (CIME) of the WPO from Brazil
Results and Discussion

Stage 2 - Check the execution status of the OARC and classify its execution (projects, process, or operation)

• For the 74 OARC, 13% were classified as "fully performed", 49% as "partially performed", and 38% as "unperformed"

• Regarding execution, 72% of them were classified as process execution, against 22% for project and 6% as operation
Results and Discussion

Stage 3 - Consolidate the WPO collective judgment matrices to prioritize their OARC

- Plan and align supply chain resources: 100%
- Purchase raw materials: 100%
- Plan and manage customer service operations: 100%
- Establish governance and service delivery strategies: 83%
- Understand markets, customers and organizational capabilities: 83%
- Develop business strategy: 83%
- Develop strategy of customer service and attention: 67%
- Develop products and services: 50%
- Manage strategic initiatives: 33%
- Manage service delivery features: 33%
Conclusions

• The Criteria that Influence Market Efficiency "Ability to receive recyclable material", "Ability to receive and process USW", and "Being organized with self-management" stood out as the most important.

• The operational activities of the recycling supply chain related to self-management and planning are those that the WPO have difficulty achieving (since they were related for partially or unrealized activities).

• Function: **low knowledge about circular economy culture, non-adherence to the system of associativism/cooperativism, lack of specialized technical assistance, low level of schooling, frequent turnover, and lack of attendance and union by members of the WPO.**

• The OARC of "Planning and aligning supply chain resources",
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