

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



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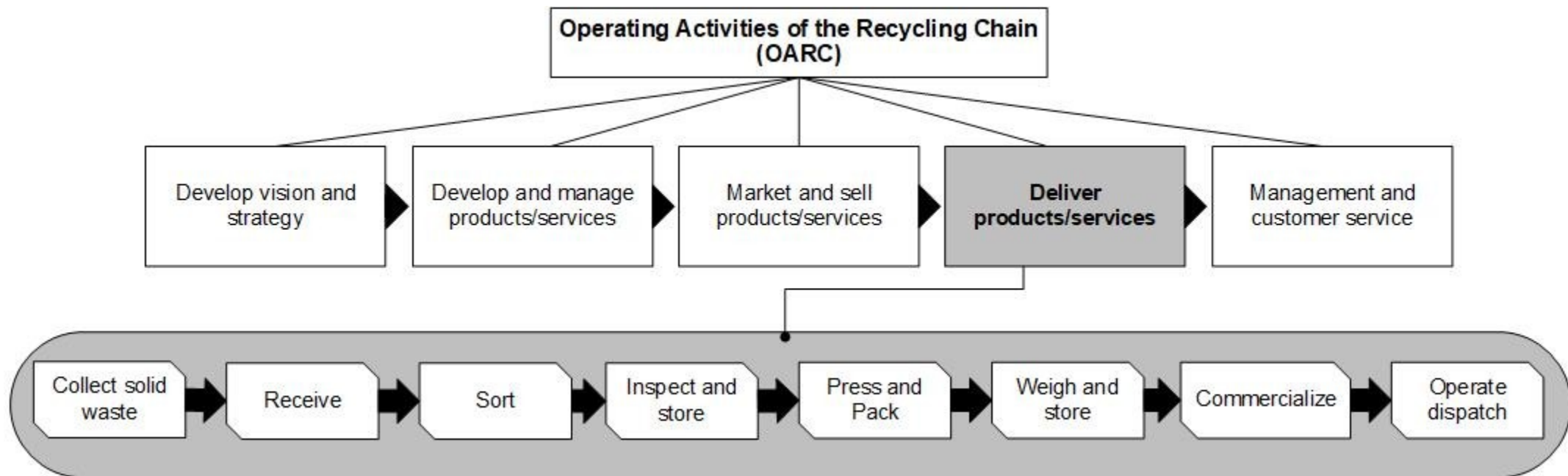
Introduction

- 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

Stages	Methods	Obtained results
Stage 1 - Identify, select, and prioritize CIME	<ul style="list-style-type: none">- Bibliographic and documentary research- Exploratory survey with 80 Brazilian specialists	CIME selected and prioritized
Stage 2 - Check the execution status of the OARC and classify its execution (projects, process, or operation)	<ul style="list-style-type: none">- Documental research- Survey with 80 Brazilian specialists and scavengers	Status of execution and classification of OACRs
Stage 3 - Consolidate the WPO collective judgment matrices to consider and prioritize their OARC	<ul style="list-style-type: none">- Focus Group in six regions of Espírito Santo with 124 representatives of WPO and government- Multicriteria analysis- Analytical Hierarchy Process	OARCs priorities

Results and Discussion

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

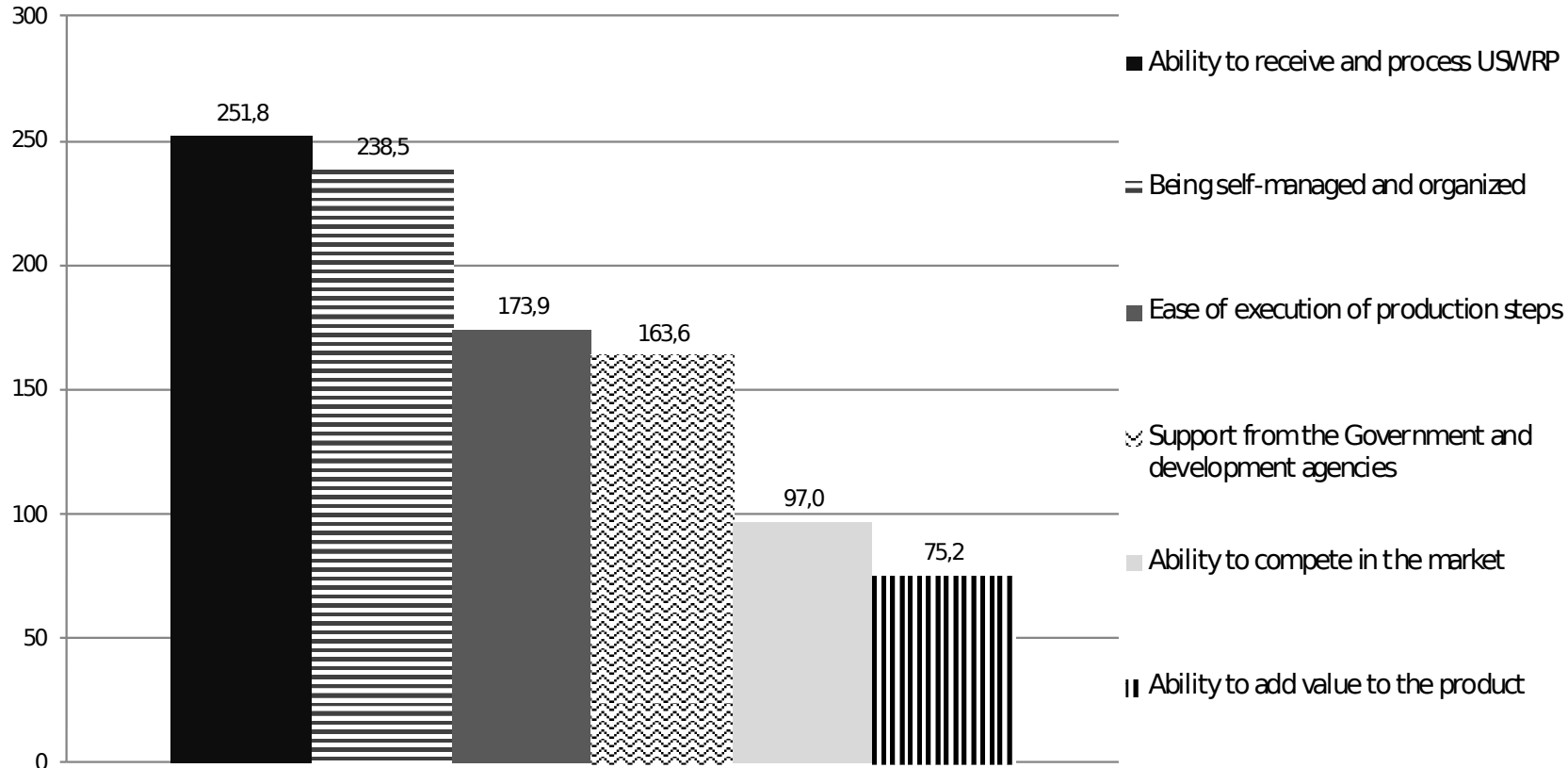
CIME	Weight
CIME 1	4.60
CIME 2	4.53
CIME 3	4.49
CIME 4	4.48
CIME 5	4.43
CIME 6	4.41
CIME 7	4.40
CIME 8	4.35
CIME 9	3.83
CIME 10	3.81
CIME 11	3.56

Weights obtained in the evaluation of Criteria that Influence Market Assistance 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

Results and Discussion

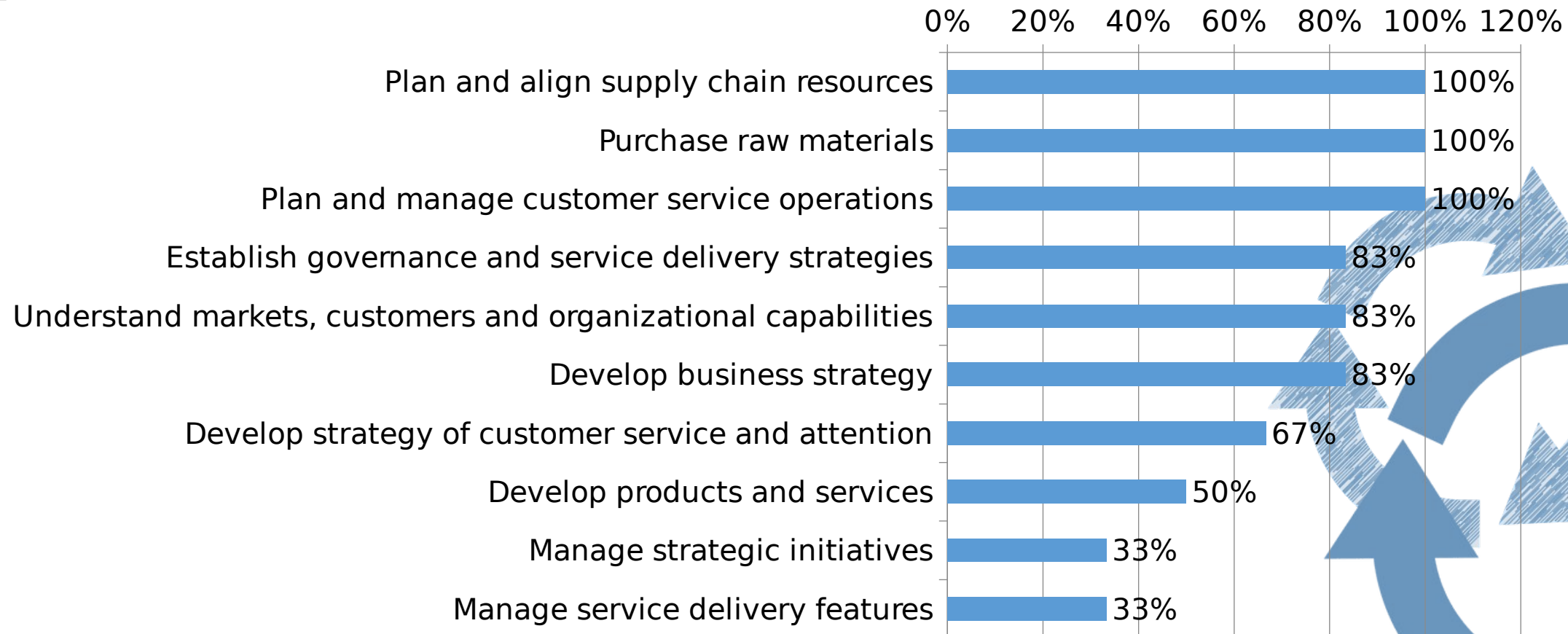
Stage 2 - Check the execution status of the OARC and classify its execution (projects, process, or operation)

- 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



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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