SYSTEMIC POLICY DESIGN FOR A MORE SUSTAINABLE WEEE MANAGEMENT: THE CASE OF COLOMBIA

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Acknowledgements
Introduction

Problems

- Increasing amounts of WEEE
- Pollution and public-health concern.
- Few countries with legislative bases
- Isolated and short-term decision-making.
- Low levels of coordination and cooperation
- Lack of awareness from consumers

Motivations

- The appropriate management of WEEE may offer economic opportunities
- The existence of policies and legislative frameworks is needed
Systems approach

Actors

Producers
Retailers
Consumers

Treatment operators (recyclers)
Collectors
Government

Perspectives

Social
Environmental
Economic
Legislative

Technical
Cultural
Logistics

Processes

Consumption
• Use
• Reuse

Distribution
• New EEE
• Used EEE

Production
• Importation
• Local assembly

Processing
• Manual
• Mechanical
• Metallurgical

Collection

Decisions on WEEE management

Logic of Cause-Effect in time

Final disposal
Systemic-Design of policies

1. ... building the timeline of the WEEE management.

2. ... designing the ideal future.

3. ... identifying:
   - Effects
   - Structural Causes

4. ... designing goals, strategies, actions and indicators of success.

WEEE management actors

Systemic-design team

Working together on ...

Current situation

Policy to design

Milestones?  Actors?  Failure elements?  Success elements?

Today

First Round

Objective 1
Initial strategy proposal

Objective 2
Initial strategy proposal

Objective 3
Initial strategy proposal

Effects

Focal problem

Structural Causes
Systemic-design for the WEEE Management in Colombia (2014-2015)

Preparation phase → Design of the Problematic situation → Identifying structural causes → Participatory design of strategies → Action and monitoring & control plans → Final policy approval

Objectives of the policy (2017-2032)

- Prevent and minimise the generation of WEEE
- Promote the integrated management of WEEE
- Incentivise the environmentally conscious utilisation of WEEE
- Promote the full integration and participation of producers, retailers, users, and consumers of EEE
Conclusions and recommendations

✓ Systemic-Design Team
✓ Participation of actors, trust building
✓ More than an assessment, a design of the problematic situation
✓ Learning processes, new forms of perceiving the world

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