PACE Webinar - Extended Producer Responsibility for E-waste Management

20 June 2013

EPR AND WEEE MANAGEMENT IN COLOMBIA

BASEL CONVENTION

Outline

- Introduction about Colombia
- WEEE Management approach in Colombia
- Current Status: generation, legal framework, implementation
- Recycling infrastructure
- Challenges

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COLOMBIA GENERAL DATA

- Inhabitants: 46.5 million (2011)
- Area:1’141.748 km²
- Capital: Bogota (pop. 7.3million)
- GDP (PPP):9.620 USD/cap.
- GDP Growth:5.7% (2011)
- Inflation (annual):3.17
- Rate of literacy:93.3%

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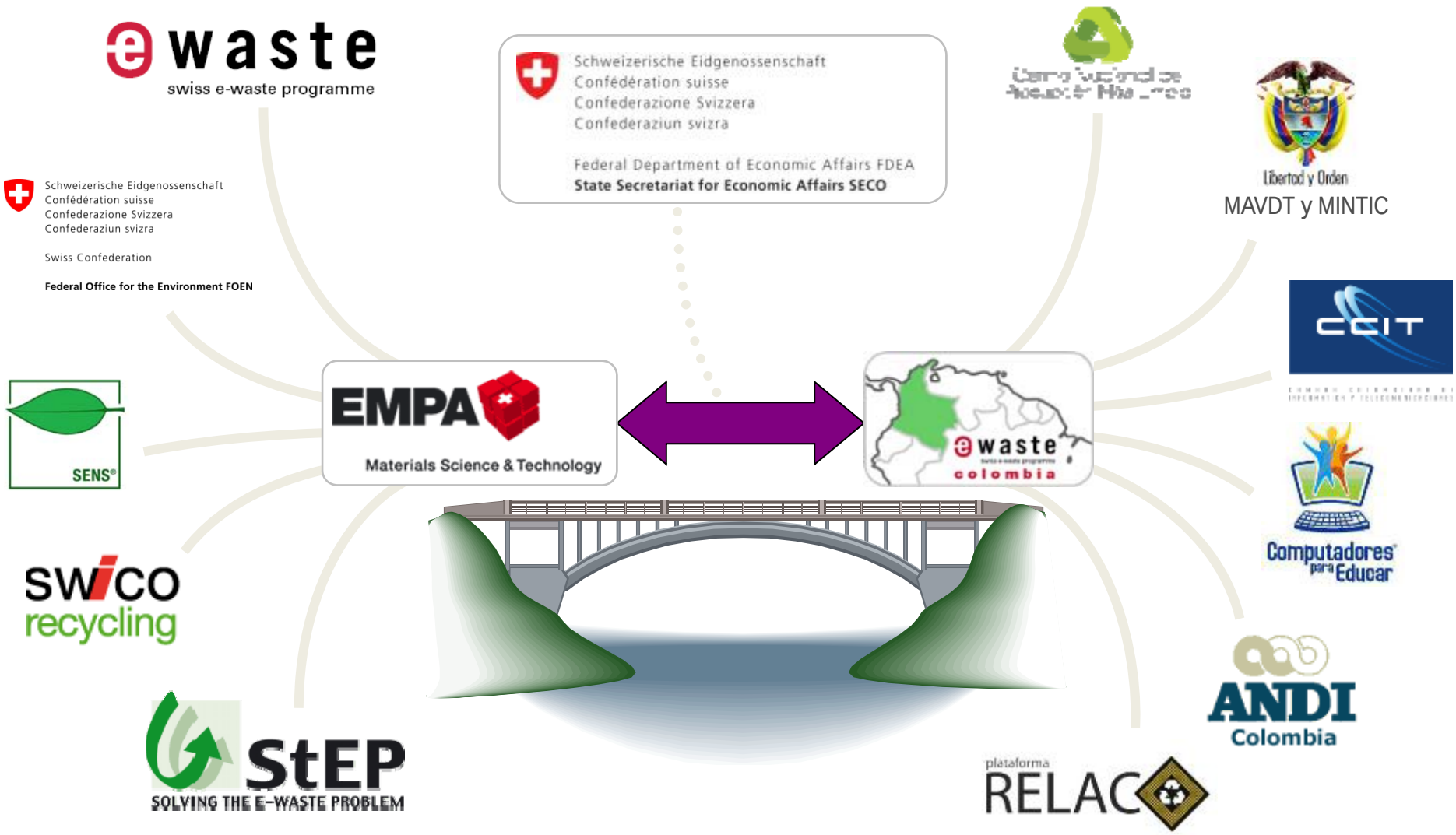
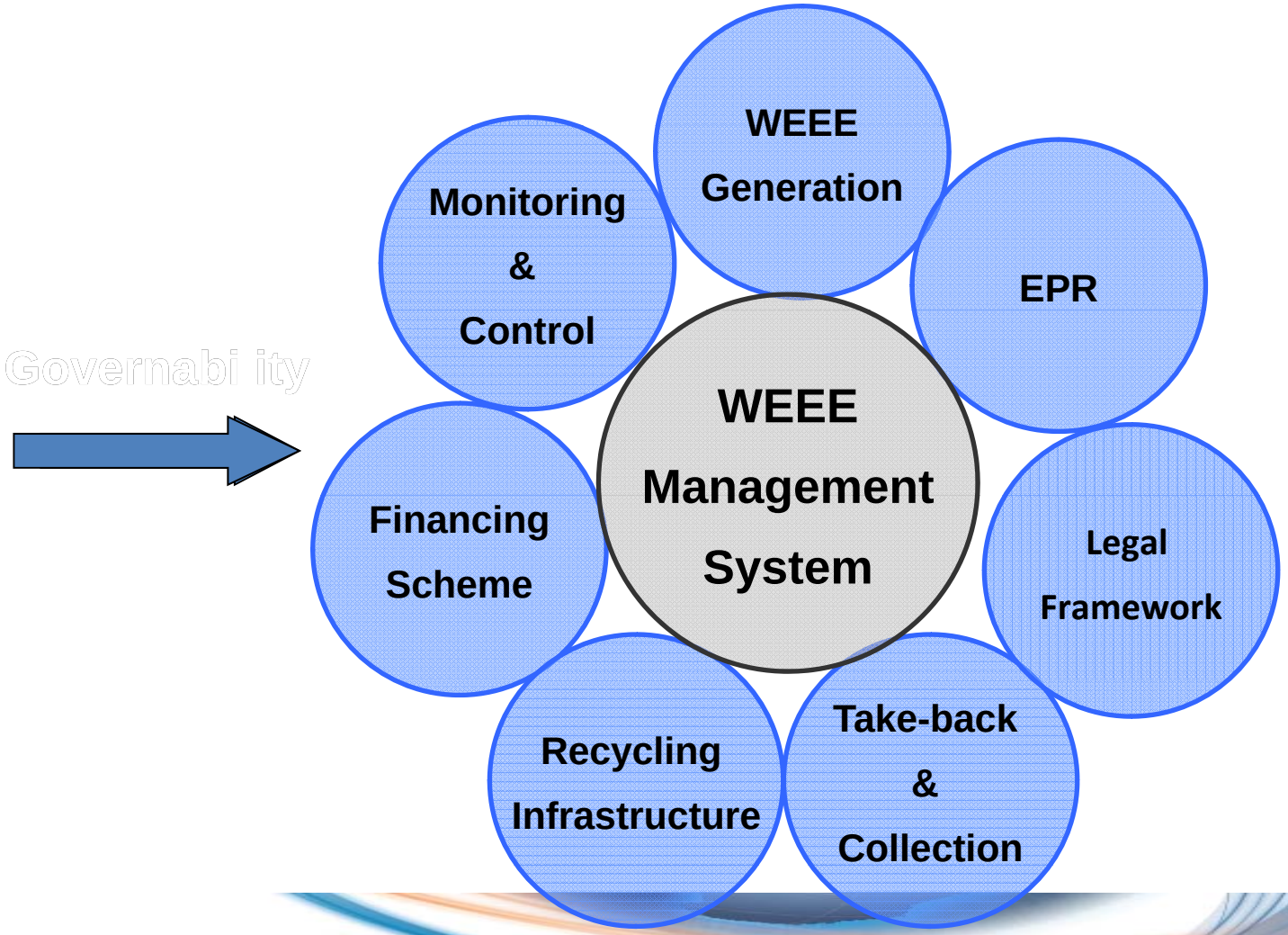
WEEE Project Colombia 2007-2012



The 7 Pillars of WEEE Management



Source: Bornand 2007, SWICO

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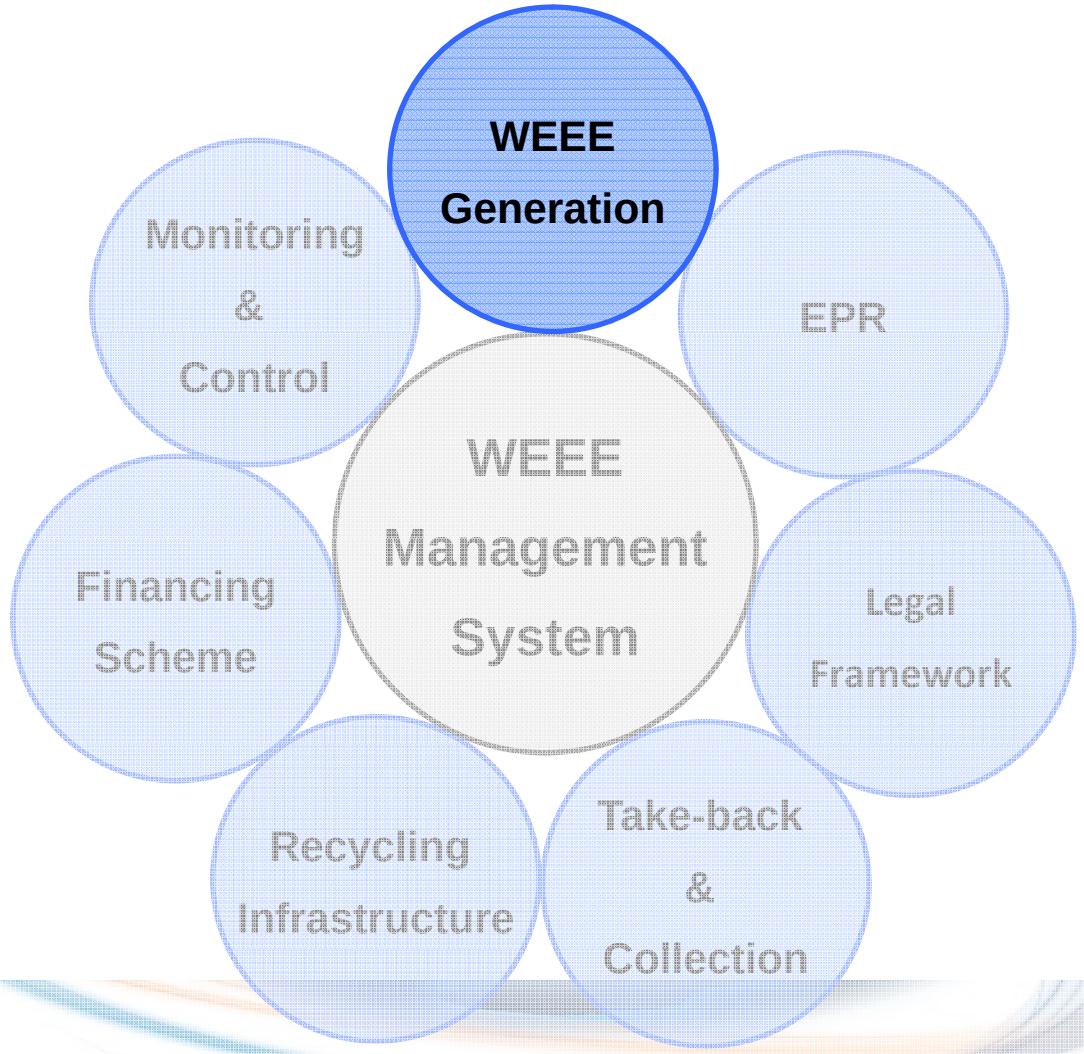
WEEE Generation



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Historical Data

Indicator		2009	2010	2011	2012
WEEE National generation (All categories)	Tonnes	120'000	140'000	160'000	180'000
	kg/cap.	2.7	3.1	3.5	3.9
PCs and peripherals waste	Tonnes	8'500	10'000	12'000	15'000
	kg/cap	0.18	0.22	0.26	0.33
WEEE recycling formal companies	#	5	8	11	18
PC waste recycled by formal companies	Tonnes	1'200	2'000	3'000	4'000
Percentage of PC waste recycled by formal companies	%	14%	20%	25%	27%
Jobs associated with formal WEEE recycling and reconditioning	#	300 (100+200)	450 (250+200)	600 (400+200)	600 (400+200)

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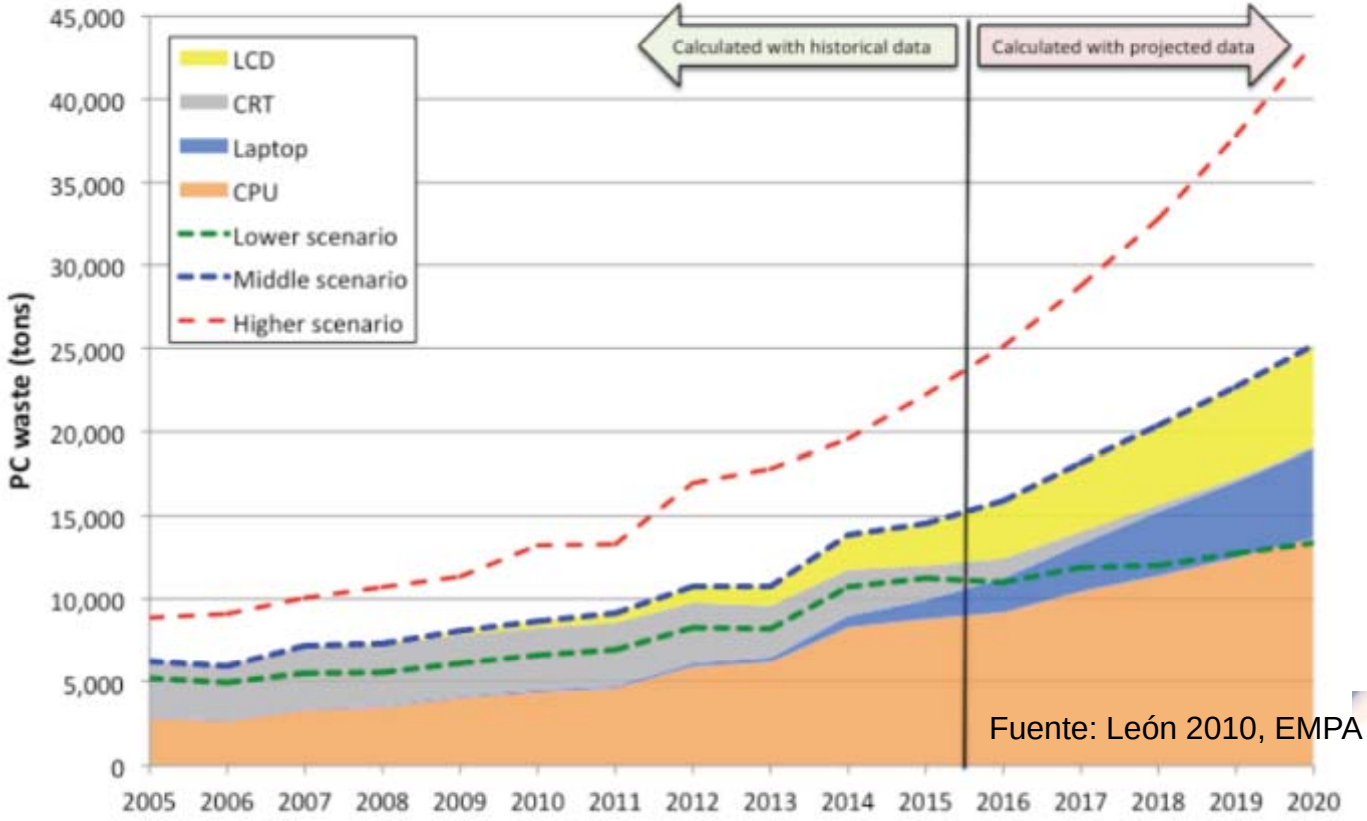
Colombia: Estimated Generation of PC waste

In 2011:

Up to 2011:



Fuente: León 2010, EMPA

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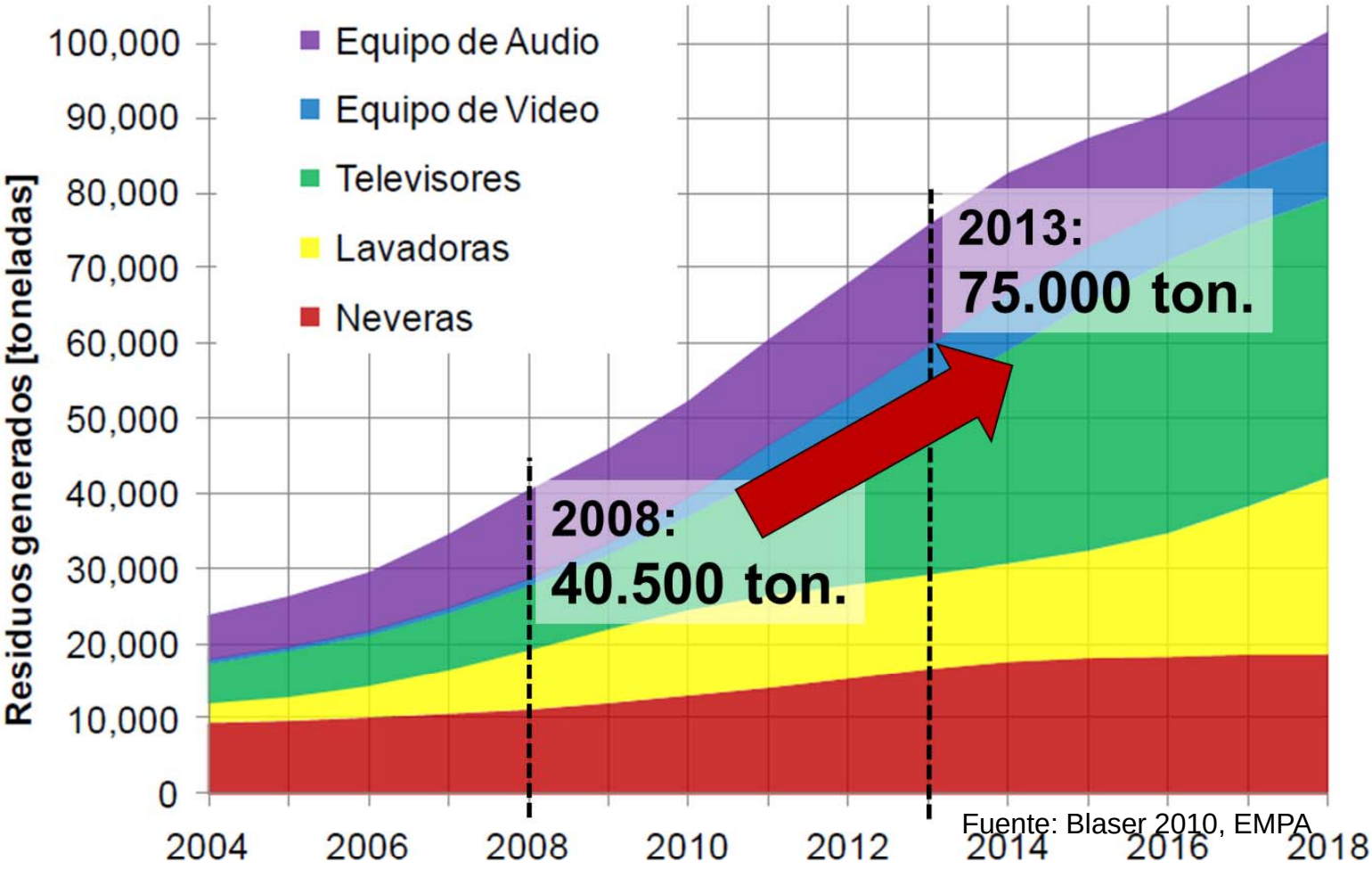
Colombia: Household appliances waste generation and others



Fuente: Blaser 2010, EMPA

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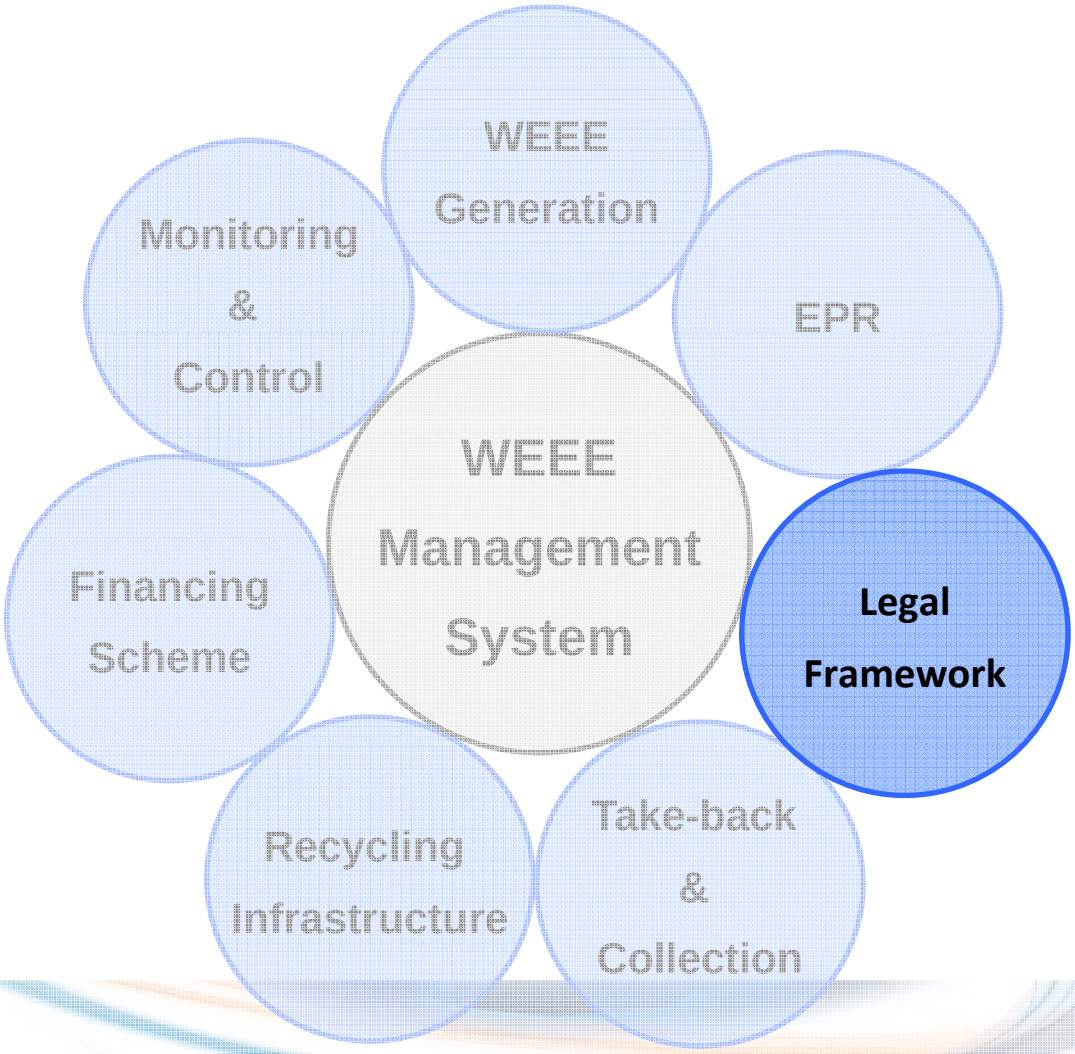
Legal Framework



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Published Resolutions

- Establish Selective Collection Systems (SCS) and Waste Environmental Management
- Resolution 1512: computers and/or Peripherals
- Resolution 1511: luminaries (bulbs)
- Resolution 1297: Batteries and portable accumulators

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Applies to:

Activity	• *Manufacturers* • *Importers* • *Assemblers (for computers)* • *Own brands distributors*
Product	• *Type of device* • *Corresponding tariff record*
Anual production quantity	• *Lamps: 3.000 o more units per year* • *Computers: 100 o more units per year*

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What is asked ?

Strategy plan	• *Document content is defined in the resolutions.* • *Evaluated by National Licensing Authority*
Collection targets	• *Base unit the products sold in previous years* • *Goals grow annually at a fixed rate defined in the norm* • *Computers include a refurbishment goal*
Compliance with obligations	• *Obligations defined by actor* • *Including environmental authorities obligations*
Compliance with management conditions	• *Formal recycling enterprises require environmental license* • *Pre-management activities do not require an environmental license*

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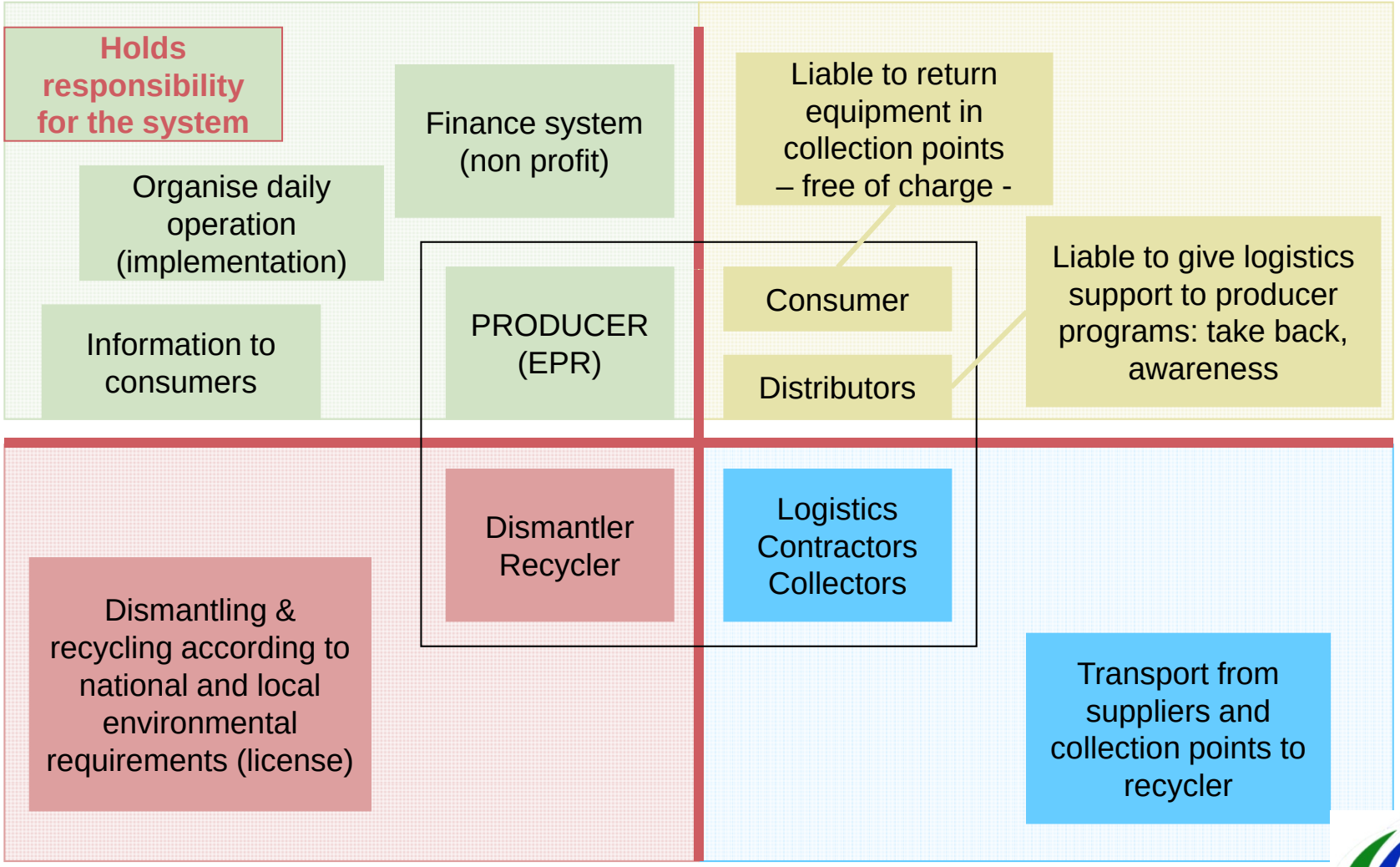
RESPONSABILITIES



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Environmental Authorities Responsibility

MDAS: to issue specific regulation and public policies on WEEE management

National Authority for Environmental Licenses: Take back Systems Assessment and monitoring

Local Environmental Authorities and Municipalities: to support producer programs diffusion and awareness. Surveillance and control of management activities.

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How it has been implemented?

Product	Individual Systems	Collective Systems	% National market	Units per year	Goal 2012 (Units)

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How are programs evaluated?

- National Licensing Authority follows up on the goals through annual reports submitted by producers
- Administrative acts are generated to accept, approve or deny, and also to impose specific obligations to programs

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Colombia: Collective System
ECOCOMPUTO

ECOCOMPUTO

- ANDI led initiative supported by the project.
- Currently 47 companies including OEMs, importers, wholesalers and local assemblers.
- Market share of approx. 51% open to new members.
- Operational from January 1, 2012

ANDI
ASOCIACIÓN NACIONAL DE EMPRESARIOS DE COLOMBIA

EMPA

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ECOCOMPUTO`s Goals

	Unidades	Peso (Ton)

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Legal Framework

- Bill 17 de 2010: establishes guidelines for the adoption of a public policy on WEE management
- Applies to all WEEE categories
- Residue Management differentiated (according to MADS directives)
- Principles: EPR, active participation, prevention, production and sustainable consumption, etc.
- Producer: Manufacturers, Importers, assemblers, remanufacturers with own
- Obligations for the government, producers, marketer, final user, recyclers

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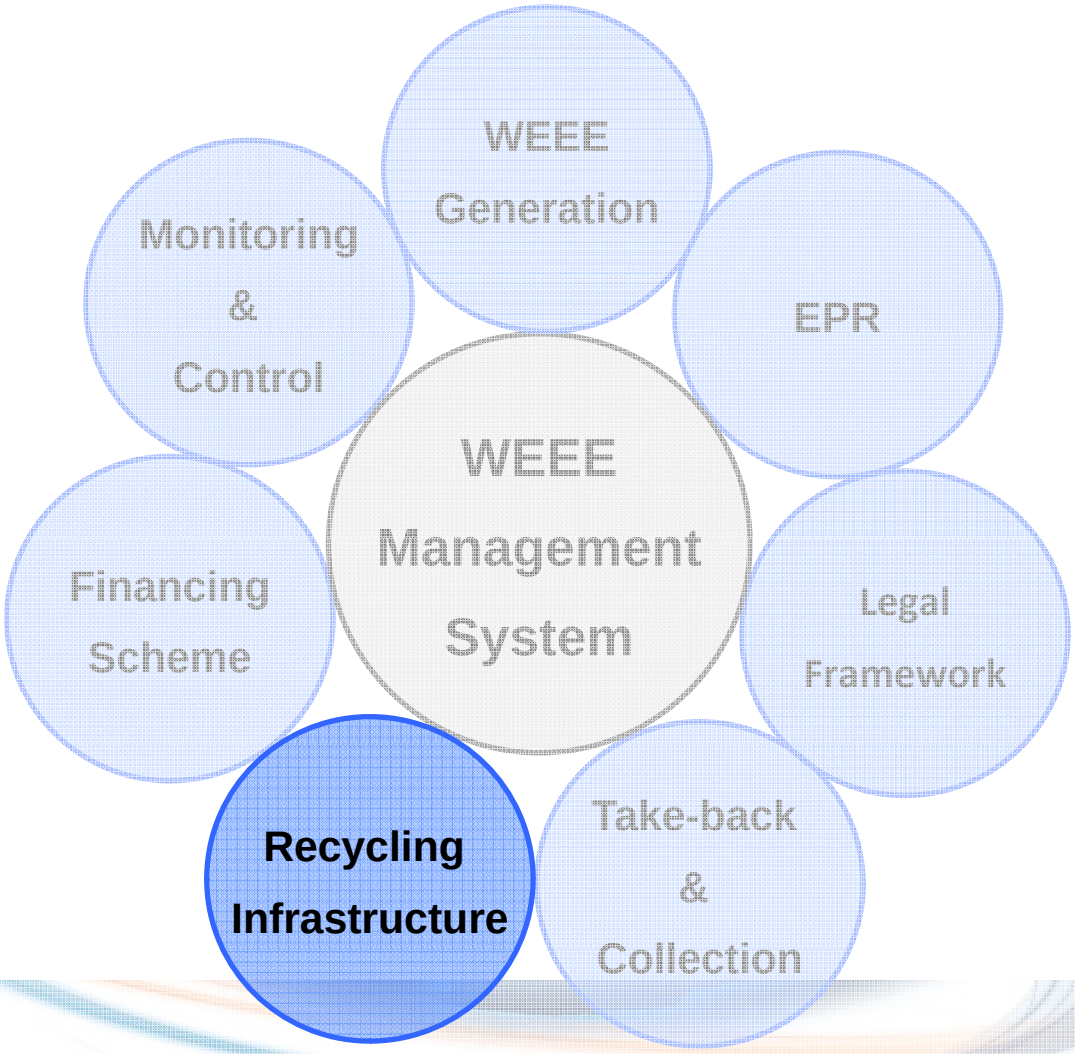
Recycling Infrastructure



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Recycling Infrastructure

- Common practices": disassembly, plastics recycling, copper recycling, ferrous metal recycling, export of printed circuit boards, disposal of hazardous and non hazardous wastes.

- Since 2000, more than 120.000 PCs donated to the program "Computers for Schools", 68% of them being suitable for refurbishment

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Recycling infrastructure

- 8 formal companies authorized for WEEE dismantling, 3 of them with years of experience and joint ventures with international recyclers; growing interest of new companies entering the market
- 10 formal companies authorized for collection and storage.
- Formal PCs recycling capacity of about 20% (of total generation)
- High collection efficiency by informal sector: more than 50% of computers
- Companies mainly provide services B2B

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Conclusions and challenges

- Institutional coherence and cross curricular subject
- Recycling infrastructure: valuation, final disposal
- Technical standards for WEEE Recycling (technical requirements for permits)
- Recycling solutions for certain (problematic) fractions of WEEE: No local solution for CRT glass and plastics with BFR; technical feasibility studies are under way.
- Informal sector inclusion
- Increase end user awareness
- Auditing process (monitoring & control)
- “Regionalization” vs. Transboundary Movements (import & export of WEEE)

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Páginas Web de Interés

EMPA
Materials Science & Technology

e waste
swiss e-waste programme
colombia

Centro Nacional de Producción Más Limpia

e waste
swiss e-waste programme

StEP
SOLVING THE E-WASTE PROBLEM

plataforma
RELAC

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Centro Nacional de Producción Más Limpia

GRACIAS

Carlos A. Hernández S.
Carlos.Hernandez@cnpml.org

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