



Consorzio Nazionale della Piccola e Media Impresa  
per la gestione dei rifiuti da apparecchiature elettriche ed elettroniche

# ELECTRONIC WASTE: SMSs and Regulation

# Summary

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- **Law's Reference and Requirements**
- **Field of application, definitions and rules of WEEE and ROHS Directives and their Italian transposition**
- **Organization and activities of WEEE Italian Consortia: state of art**
- **Different applications and transposition of the WEEE Directive in other European Countries**
- **The project of Consortium APIRAEE and its good environmental practice**
- **Conclusion**

# Law's Reference and Requirements

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**WEEE  
2012/19/EU**

**Environmental Management of WEEE  
D.Lgs. 49/2014  
Italian Decree of transposition**

**ROHS  
2011/65/EU**

**Restriction of the use of  
certain hazardous substances  
D.Lgs. 27/204  
Italian Decree of transposition**

# Dir. 2011/65/EU

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- **About restriction of the use of certain hazardous substances in EEE**
- **Member State shall ensure that new EEE put on the market does not contain:**
  - ✓ **Lead**
  - ✓ **Mercury**
  - ✓ **Cadmium**
  - ✓ **Hexavalent chromium**
  - ✓ **Polybrominated biphenyls (PBB)**
  - ✓ **Polybrominated diphenyl ethers (PBDE)**

# Dir. 2012/19/EU

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- **About Waste Electrical and Electronical Equipment Management**
- **13 August 2012 into force: Transposition of Directive by Member States into national laws (Italy was the first) before 14 February 2014**
- **First from 13 August 2005 to now: financial producer responsibility of EEE (producer clearly identifiable)**

# Producer large responsibility

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- **Definition of “producer”**: not only people who made EEE but also the “importer” from another State different from Italy
- **Directives of “New approach”** that give the responsibility to the producer in a LCA way of thinking: From the cradle to the cradle
- **Operative and financial responsibility**
- **The cost of collecting waste is not for the customers but covered by the producers**

- **Most important FAQ about application of WEEE Directive**
- **Analysis of technical evolutions**
- **Help on creation of decisional tree to verify applicability of laws to different products**
- **Periodically updated (Last April 2014)**

# D.Lgs. 14/03/14 n° 49

- **Into force 12 April 2014**
- **Objectives, responsibilities and categories of EEE are indicated in Decree 49/2014, as listed in the WEEE Directive (*not all the EEE are covered by the WEEE Directive until 14 August 2018 when 6 categories will cover quite all EEE*)**
- **Definition of “producer”: not only people who made EEE but also the “importer” from another State different from Italy (Different National Registers)**
- **Additional information and “symbol” about separate collection printed visibly**
- **Organization in national collective system (Italian multi consortia choice)**

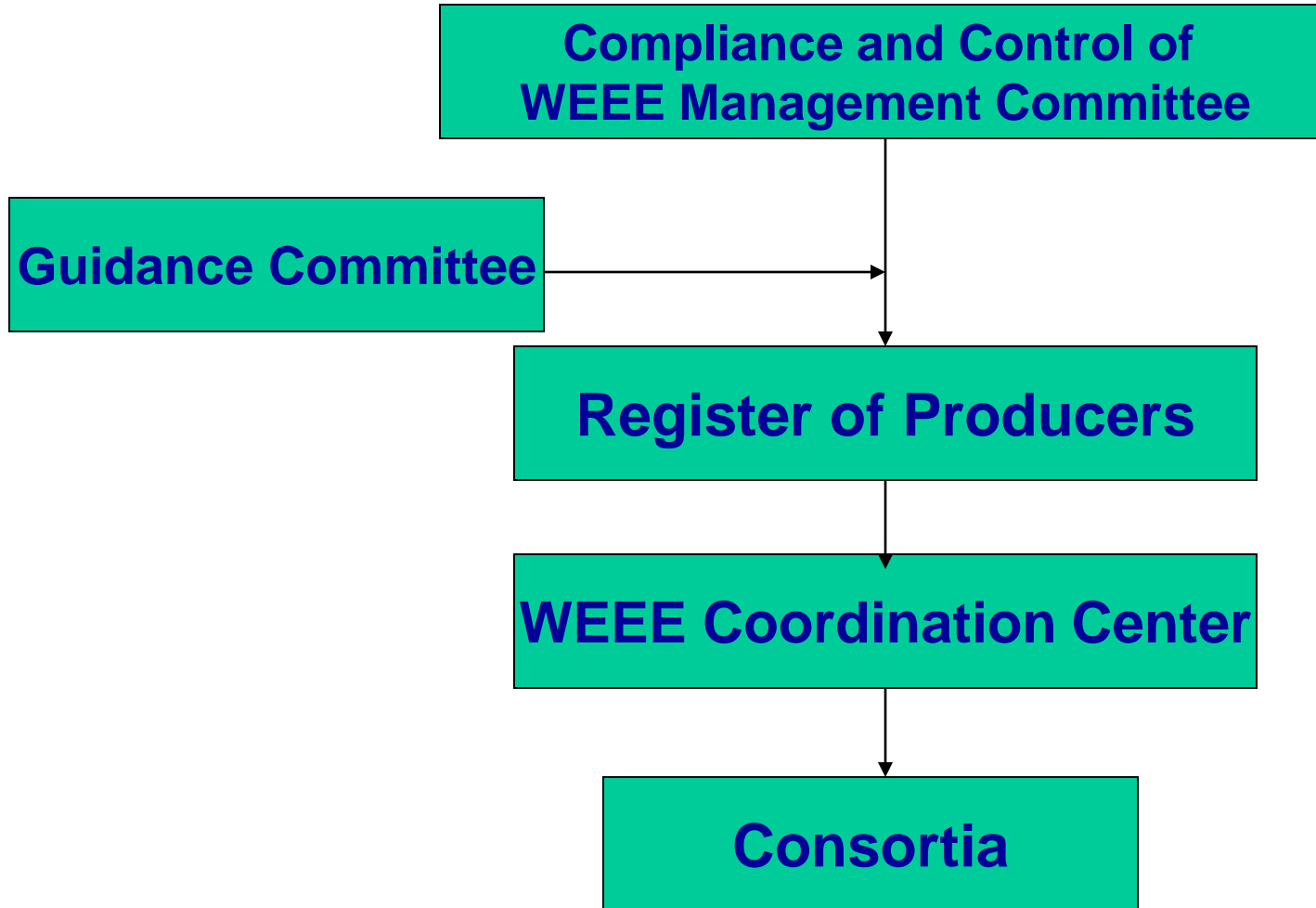




# Italian WEEE Management Bodies

- **Italian Ministry of Environment responsible for implementing the Decree**
- **Supervision and Control of WEEE Management Committee (operating costs are to be financed by producers according to their MARKET SHARE)**
- **WEEE Coordination Center ([www.cd craee.it](http://www.cd craee.it)) (15 Collective Systems)**
- **Central Italian register (Chamber of Commerce – [www.registroaee.it](http://www.registroaee.it))**

# Control and guidance bodies



# Categories of EEE covered by Dir.

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1. Large household appliances
2. Small household appliances
3. IT and telecommunications equipment
4. Consumer equipment
5. Lighting equipment
6. Electrical and electronic tools (with the exception of large-scale stationary industrial tools)
7. Toys, leisure and sports equipment
8. Medical devices (with the exception of all implanted and infected products)
9. Monitoring and control instruments
10. Automatic dispensers

**These EEE when will became WEEE will be collected in 5 separate collection stream:**

- 1) Large household
- 2) Small and other household
- 3) Screens
- 4) Small electronic tools
- 5) Lamps

# Collection stream

R1



R2



R3



R4



R5



# HOUSEHOLD VS PROFESSIONAL WEEE

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- Different obligations for the producer
- Different type of collecting
- Environmental Visible Fee
- Different way of distribution



# WEEE Public and Private Management

Cittadini



Trattamento



Distribuzione



Ritiro e trasporto

## Different program agreements

# Public Disposal Sites (Eco-Center)

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- **Opened to the public and sometimes for small enterprises (with convention)**
- **Free entrance for citizens of that Municipality (no fee for disposal but covered by Local Waste Tax)**
- **Different chain of WASTE:**
  - ✓ **Packaging (paper, plastic and glass)**
  - ✓ **Paper**
  - ✓ **Plastic**
  - ✓ **Wood**
  - ✓ **WEEE**
  - ✓ **Batteries**
  - ✓ **Hazardous Waste (Painting, Oil, Solvents, Medicine)**
  - ✓ **Iron and other Metals**
  - ✓ **Not differenced waste**
  
- **Controlled and by:**
  - 1. Public Society (mix between municipality and private society)**
  - 2. Complete private society (with authorization)**
  - 3. Consortium of Bacin (multi-municipality)**

# The numbers of Italian Eco-Center

- **Municipal collection center (One for one medium city, more than one for Big City, one for group of cities)**
- **Collecting places for distribution (different from selling point or shopping center)**
- **Private collecting point (different from the 1<sup>st</sup> one not a property of municipality)**

Eco C. 2013	Eco C. 2014	Var. % 2013/20 14	Other point	Eco C/1000 ab	Var. Eco C/1000 ab 2013/14
3759	3801	+1,12%	237	7	0%



# Call for recovery weee

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- **Subcriptor of the contract with CDC Rae for one Municipality makes the request by:**

- **Phone**
- **E-Mail**
- **Site**



- **CDC Rae send a e-mail to the Consortium that have that Municipality to serve given also information about type of WEEE to collect and maximum time to take action (TMI) normally 3 days (more for the islands)**



- **Consortium sends the task to its supplier to go to collection, transport, recovery or disposal WEEE to a final private point of destination**



# Distributors of EEE: 1 to 1 or 1 to 0

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- Directive and other national laws oblige distributors to accept a discarded item when a new equivalent item is purchased (also for distance selling)

1 to 1

- Directive and other national laws require distributors, at retail shops with sales areas relating to EEE of at least 400m<sup>2</sup>, to accept very small WEEE (no external dimension more than 25cm) when returned to them, with no further obligation to the end-user to buy EEE of an equivalent type

1 to 0

- Italy has just published this second Decree to rend this obligation mandatory
- Target of 45% collection by January 2016
- Target of 65% collection by January 2019 (instead 85% of WEEE annually produced)

# The Management System of Consortia

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- **B2B**

**Direct relation with the customer:**

**Customer calls direct the producer or the supplier for transportation, collect and disposal of WEEE**

**Customer pays only if don't pay for an equivalent EEE**

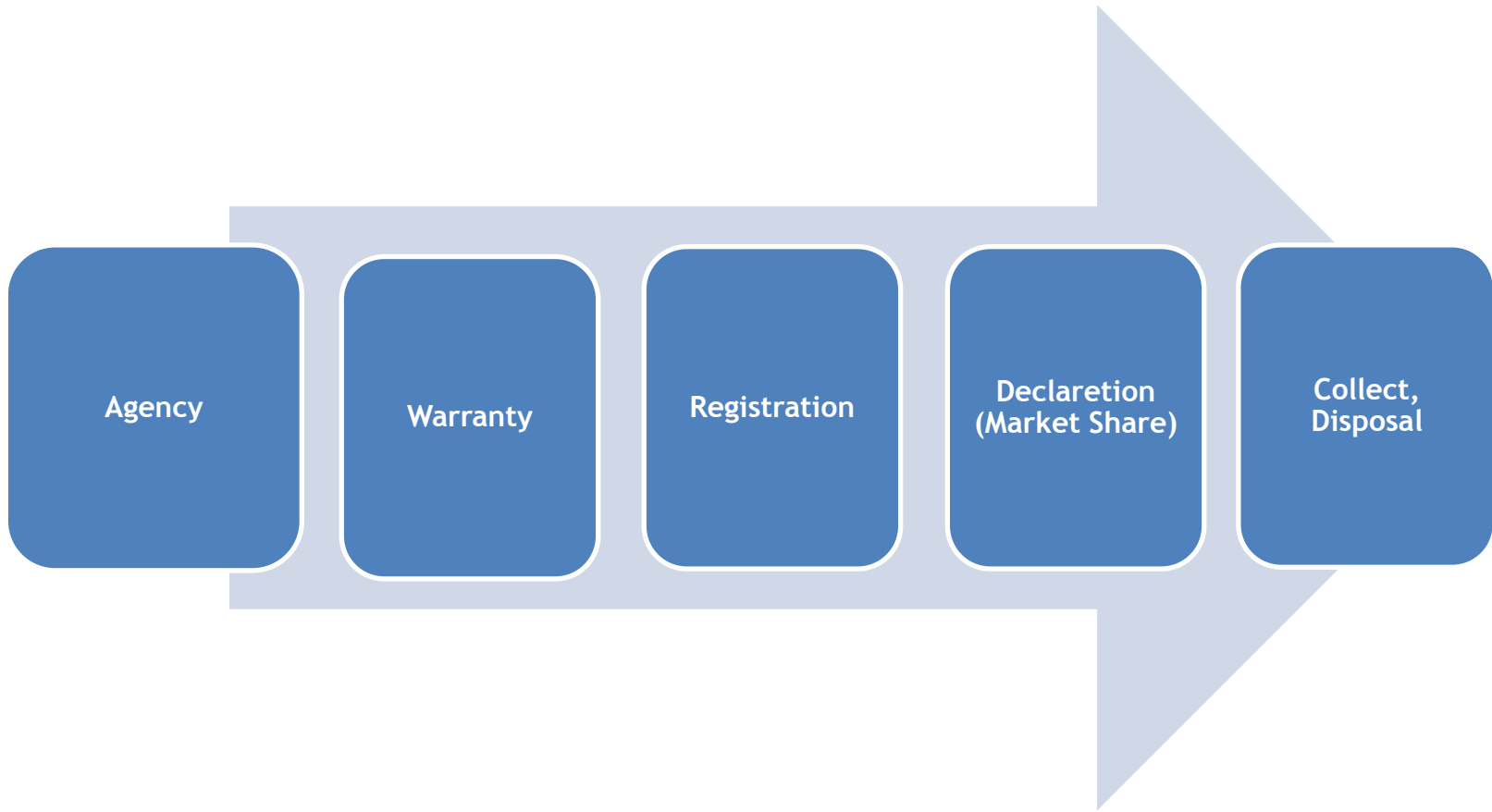
- **B2C**

**End consumer go to the eco-center or to the distributor to leave the WEEE**

**End consumer never pay this service**


# Other European System: Germany

- **24 October 2015** into force the new German Law (ElektroG2)



# Other European System: France (1)

- **Producer responsibility organizations:** The removal, sorting, decontamination and recycling of separately collected at pickup points are organized on behalf of producers
- **An household WEEE Authorized Coordinator Agency (OCAD3E),** a subsidiary of the four eco-organizations, aims to connect local authorities with producer responsibility organizations for household WEEE collection (one-stop scheme).
- **Producers responsibility organizations in charge of household WEEE are :**

Concerned categories	Producer responsibility organizations
Categories 1 to 4, 6 and 7	 <small>La 2<sup>e</sup> vie des déchets électriques</small>
	
	 <small>Valorisation des Déchets d'Équipements Électriques et Électroniques - DEEE</small>
Category 5	 <small>regroupement à l'univers</small>

# Other European System: France (2)

- **Producers responsibility organizations in charge of professionals WEEE are:**

Concerned categories	Producer responsibility organizations
Category 1	Ecologic Eco-Systèmes
Category 2	Ecologic Eco-Systèmes
Category 3	Ecologic
Category 4	Ecologic
Category 5	Recylum
Category 6	Récydent
Category 7	-
Category 8	Récylum Récydent
Category 9	Récylum
Category 10	Eco-systèmes

# Implementation in Europe

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- **Very different organization and level of implementation**

## WEEE Member State Contact



# **The start-up project - APIRAEE**

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- **The idea was born immediately after the publication of the first Decree 151/2005 on Official Gazette (29/07/2005 Official Italian Newspaper)**
- **API – CONFAPI System's interest to put in common associated SMEs needs and requests and to provide new consultant service**
- **Activity of selection of existing Consortium at the date on July 2005 (benchmarking)**
- **Monitoring, also through questionnaires, the real numbers of associated SMEs interested on the creation of the new Consortium**



# Apirae as a best practice

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- **Idea promoted at national and local level by CONFAPI and some of its regional and province association (Torino, Reggio Emilia, Parma, Verona and Varese)**
- **Interest expressed by some SMEs EEE producer (part of a working group) no from a single multinational corporate (eg SAMSUNG)**
- **Knowledge of technical consulting on environmental aspects, especially on waste management legislation, (expertises from local association API)**
- **Target group: SMEs- often without a specific environmental office and department**
- **Possibility to put in contact EEE producer and SMEs on WEEE treatment market**

# Objectives of Consortium

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- **To promote the respect by the producer of legal requirements from National Decree 49/2014**
- **To find, throughout Italy and abroad in Europe, transport, recycling and treatment WEEE operators for SMEs producer with the best price (other private market different from public market of waste treatment)**
- **To manage activities (especially legal issues) related to WEEE management on behalf of the producer**
- **To represent all interest of SMEs producer in all Control and Guidance Bodies**

# Objectives of Consortium

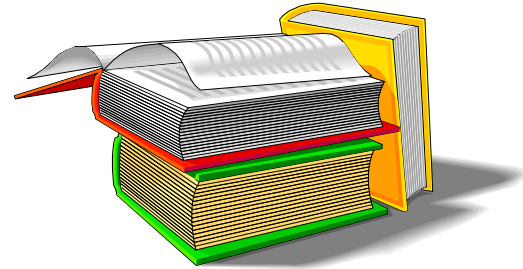
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- **To provide training activity and new information also to respond to costumers requests**
- **To promote use and fabrication of easily recyclable EEE and its components**
- **To promote new production, new technologies and new materials with a low environmental impact and with a low use of energy**
- **To promote research and study activity to improve the recycling and disposal processes**
- **To find new SMEs to increase our Association World (API – CONFAPI)**

# Legal documents

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- **Statute**
- **Regulation**
- **Documents to adhere**
- **Use of the trademark**



# Consorzio APIRAEE

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