

Εταιρεία Πανελλαδικής ΕΝαλλακτικής
Διαχείρισης ΣΥΣσωρευτών
Ε.Π.ΕΝ.ΔΙ.ΣΥΣ. Re-Battery A.E.
The Alternative Battery Management S.A.



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Alternative Management Organizations AMO or the System

Environmental Waste Management Systems

In Greece in the 80's and 90's there was hardly any legal/environmental framework for the waste management.

1985: L.2650/1985 on the Environment protection

1986: CMD 49541/1424/86 "Solid waste in compliance with the European Directive 75/442/EEC

1996: CMD 69728/824 Annexes of the European lists of waste

1997: CMD 114218/97 Instructions on framework specifications

L.2939/2001

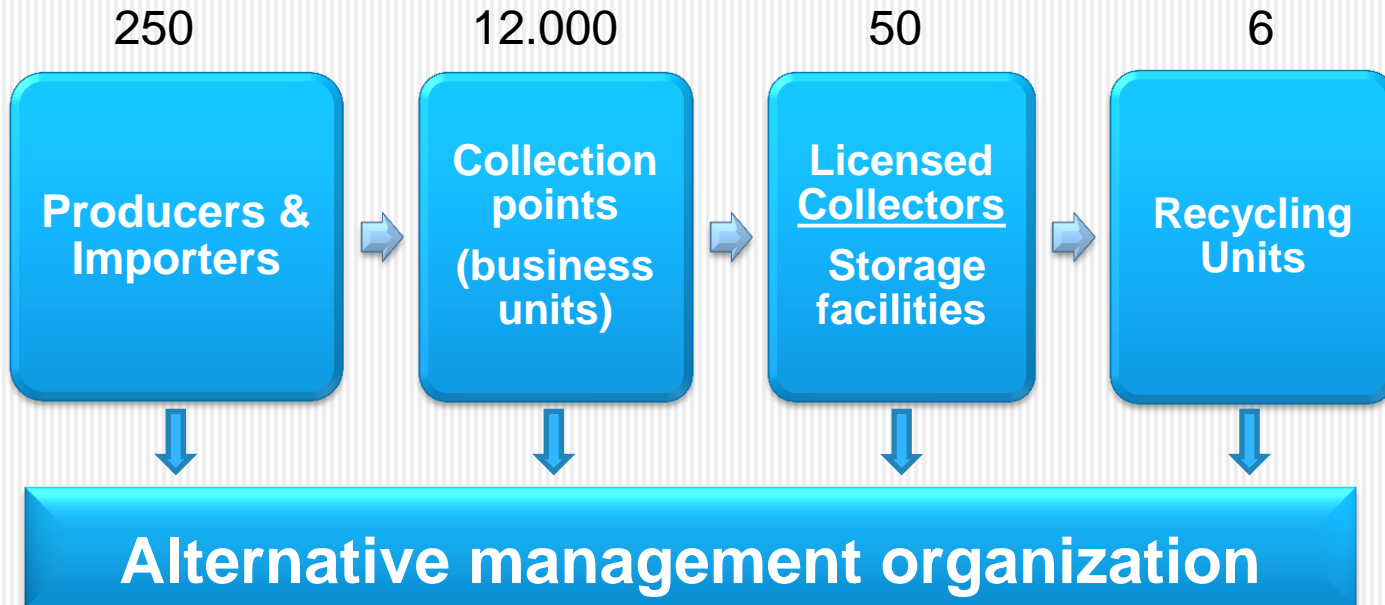
Article 2, No 18 defines “Alternative management of packaging and other materials” as the procedures of collection including sponsorship, transportation, transfer, temporary storage, reuse and development of waste aiming at their re-entry in the market stream once they reused or developed.

The principles of Alternative Management are:

- **P**revention
- **R**euse
- **R**ecovery of material and energy
- **R**esponsibility of all parties involved
- **P**olluter pays
- **P**ublic awareness

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The **KEY-PLAYERS**



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The Chronicle

1980

- Recycling of 100% of the battery waste due to the high value of the waste, without implementation of any environmental rules

2001

- L.2939

2004

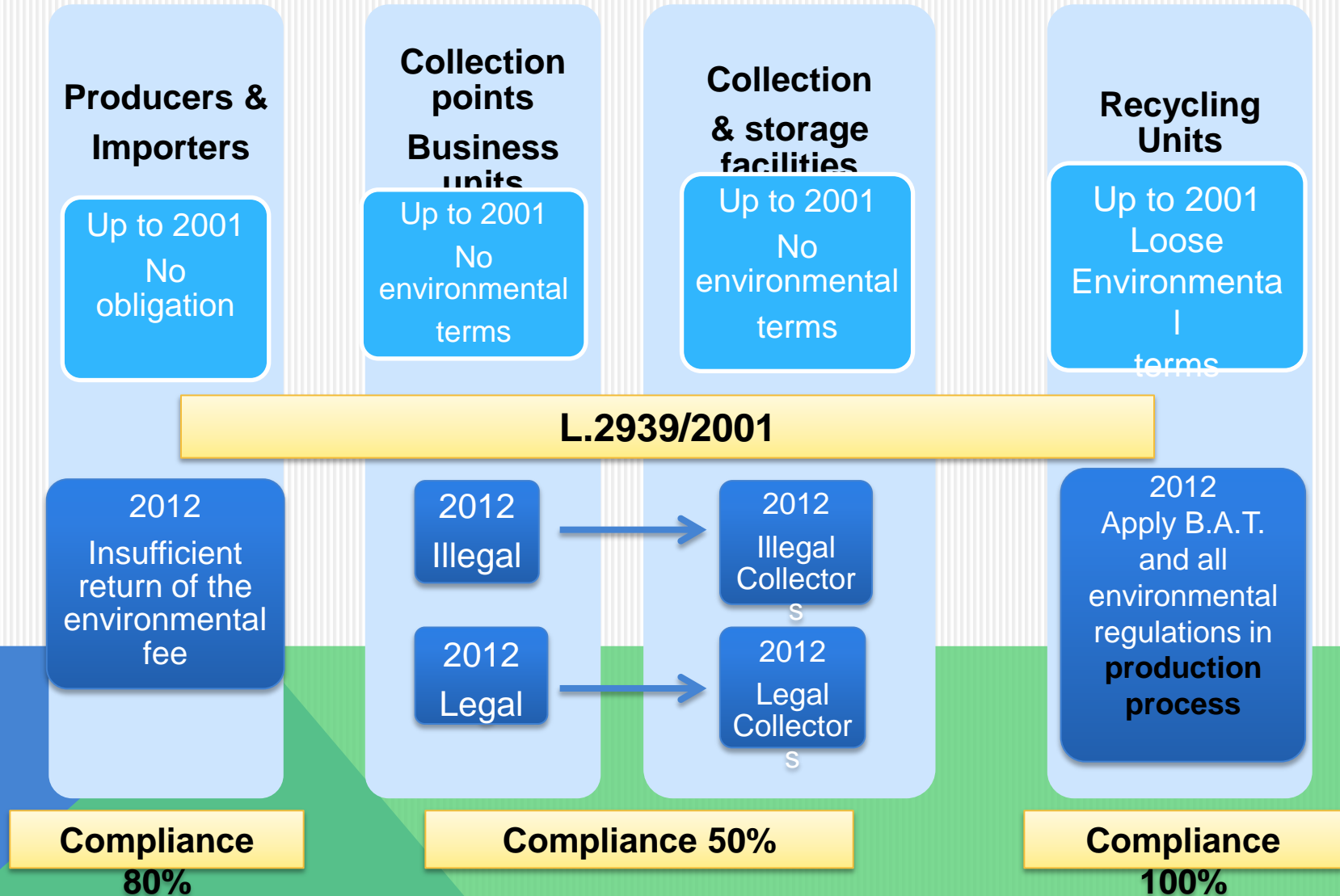
- Establishment of Alternative Management Organization

2012

- 11 years since L.2939
- 8 years after the establishment of Alternative Management Organization

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THE PROBLEM!!!



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The Alternative Battery Management S.A. – Re-Battery S.A., is an Alternative Management System for used lead-acid batteries, appropriately approved to operate as a non-profit organization according to the relevant legislation and specifically the CMD **41624/2057/E103**(G.G. B **1625/11-10-2010**). The establishment and operation of Re-Battery S.A. were unanimously approved by the 22nd meeting of the B. of D. of E.O.AN. (The National Organization for Recycling, Prot. No. OIK **803/22-12-2011**).

MAIN SCOPE

- 1. Recording**
- 2. Supervision**
- 3. Coordination**
- 4. Management**

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Terms and aims

- **Recording** the transport/recycle of used lead-acid batteries
- **Cooperating** with other alternative management **Organizations**
- **Cooperating** only with **fully licensed** waste collection-transport and recycling companies
- **Eliminating** obstacles and distortions in the **trade procedures**
- Establishing solidarity, trust and mutual acceptance among all factors involved
- Networking for “environmental awareness”
- **Supporting scientific research on the development of new recycling methods – supporting E.O.AN.**

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Re-Battery SA, a non-profit organization, exercises **public authority by concession**.

Its operational infrastructure is based in the European model, therefore the company:

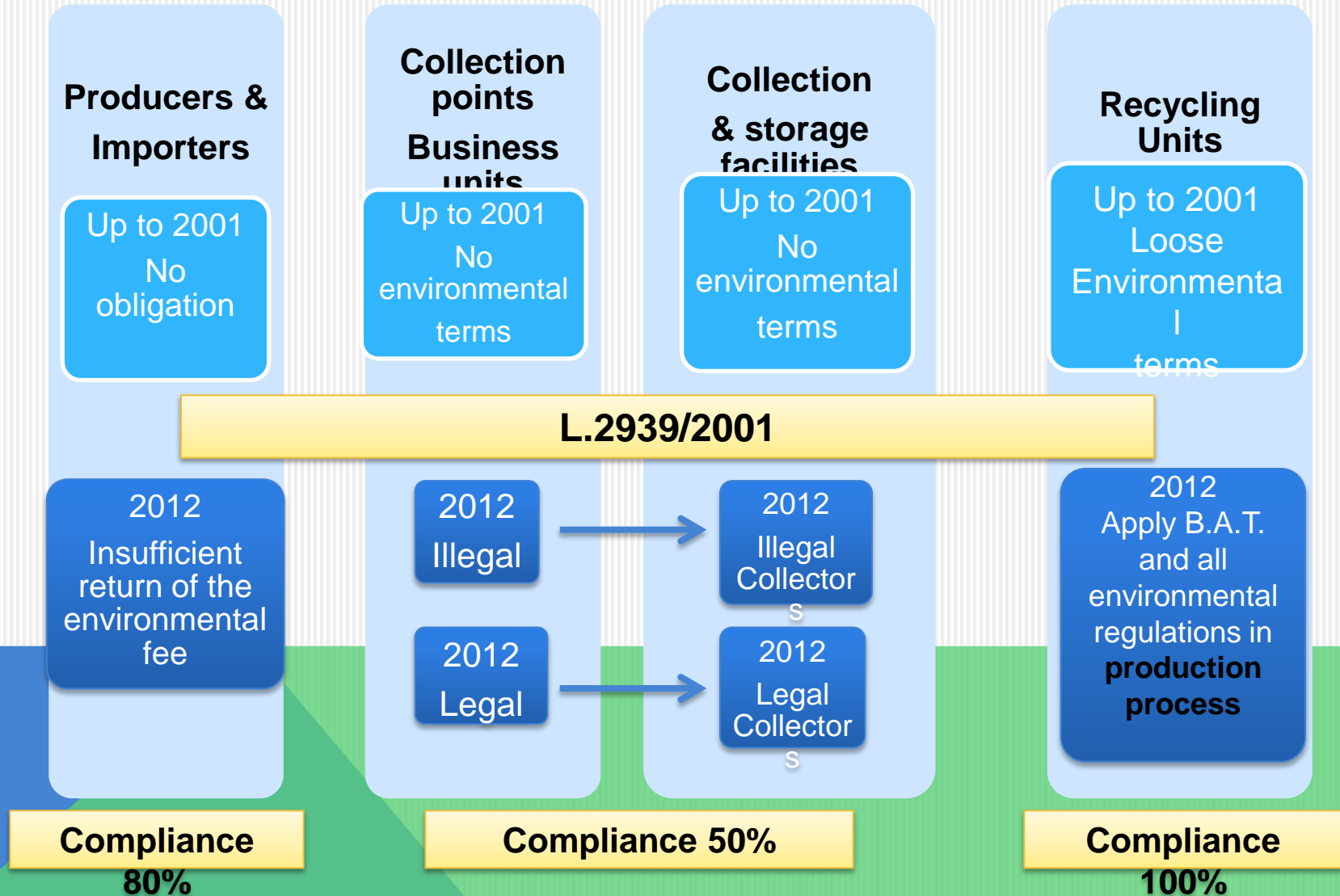
- is not taxed;
- does not distribute profits and
- does not operate for profit.

Its resources are **social** resources.

These facts impose the obligation to Re-Battery SA to have **proper administration and transparency in all proceedings**.

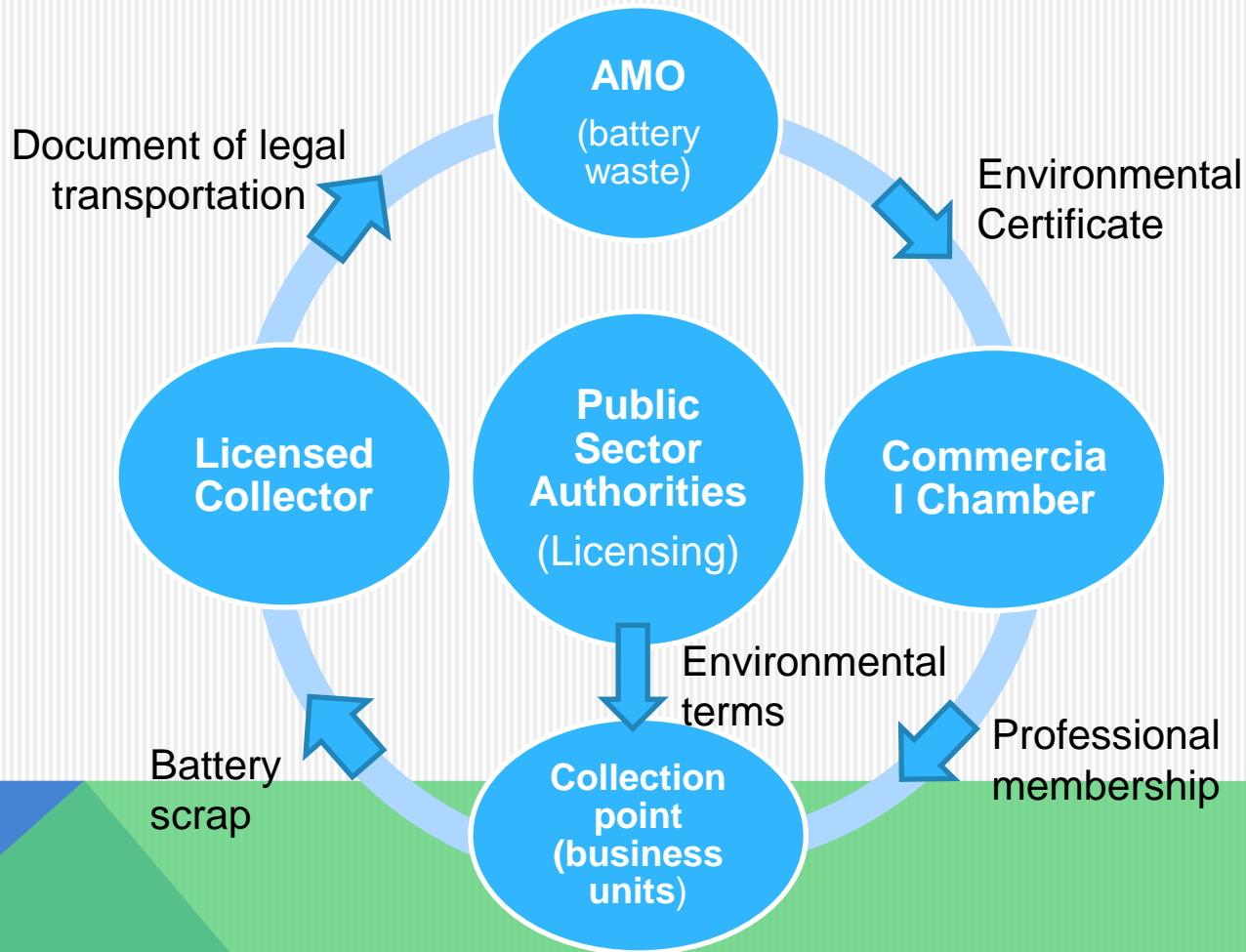
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THE PROBLEM!!!



- 1. NATIONAL REGISTER OF COLLECTION POINT
BUSINESS UNITS**
- 2. NATIONAL REGISTER OF PRODUCERS AND
IMPORTERS**

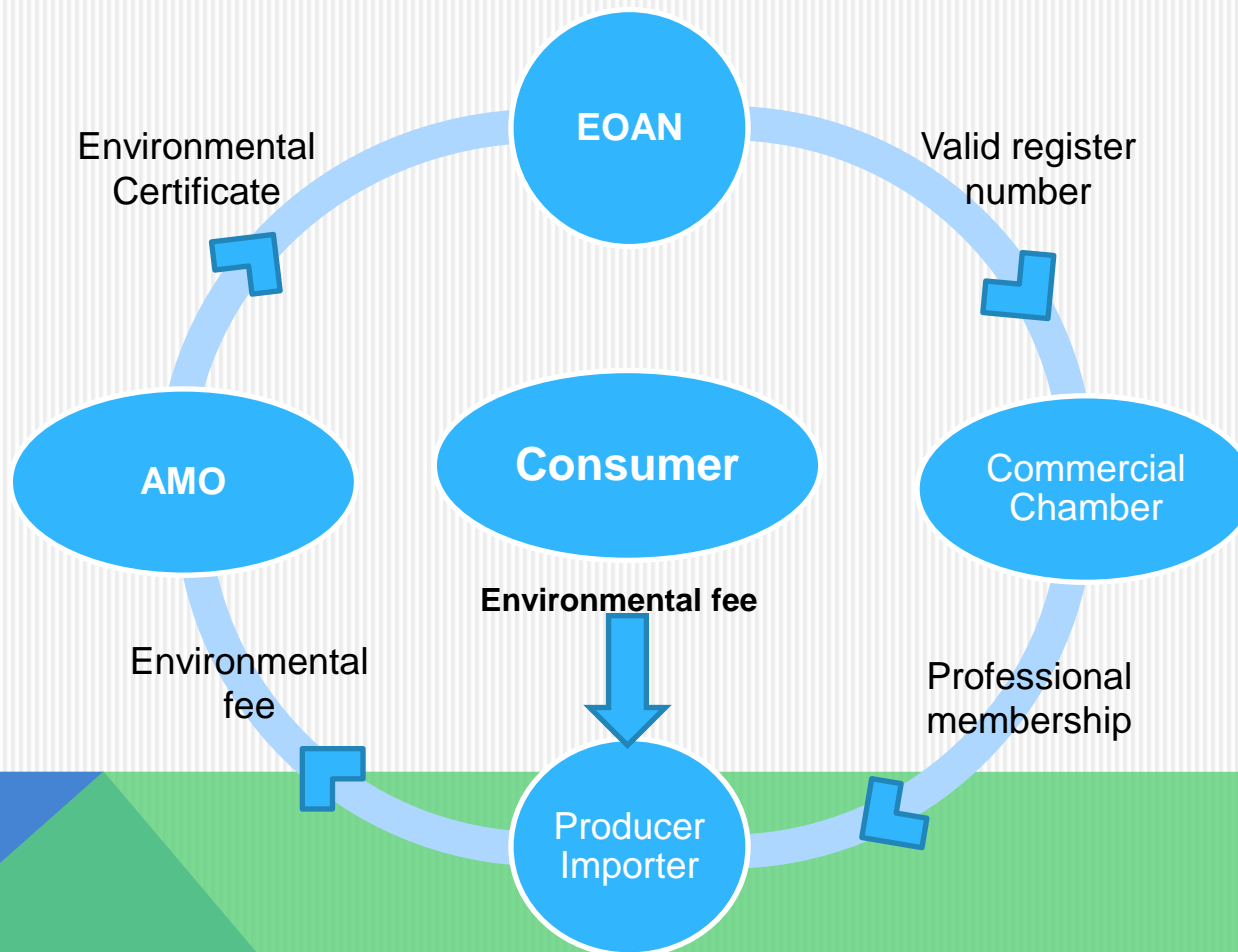
SPECIAL SCOPE 1: THE PROPOSAL



THE SOLUTION: COLLECTION POINT BUSINESS UNITS

RESPONSE: 100%

SPECIAL SCOPE 2 : THE PROPOSAL



THE SOLUTION: PRODUCERS/IMPORTERS RESPONSE: 100%

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Re-Battery SA progress

October 2012 – 10 months in operation



Re-Battery SA Integrated Information System

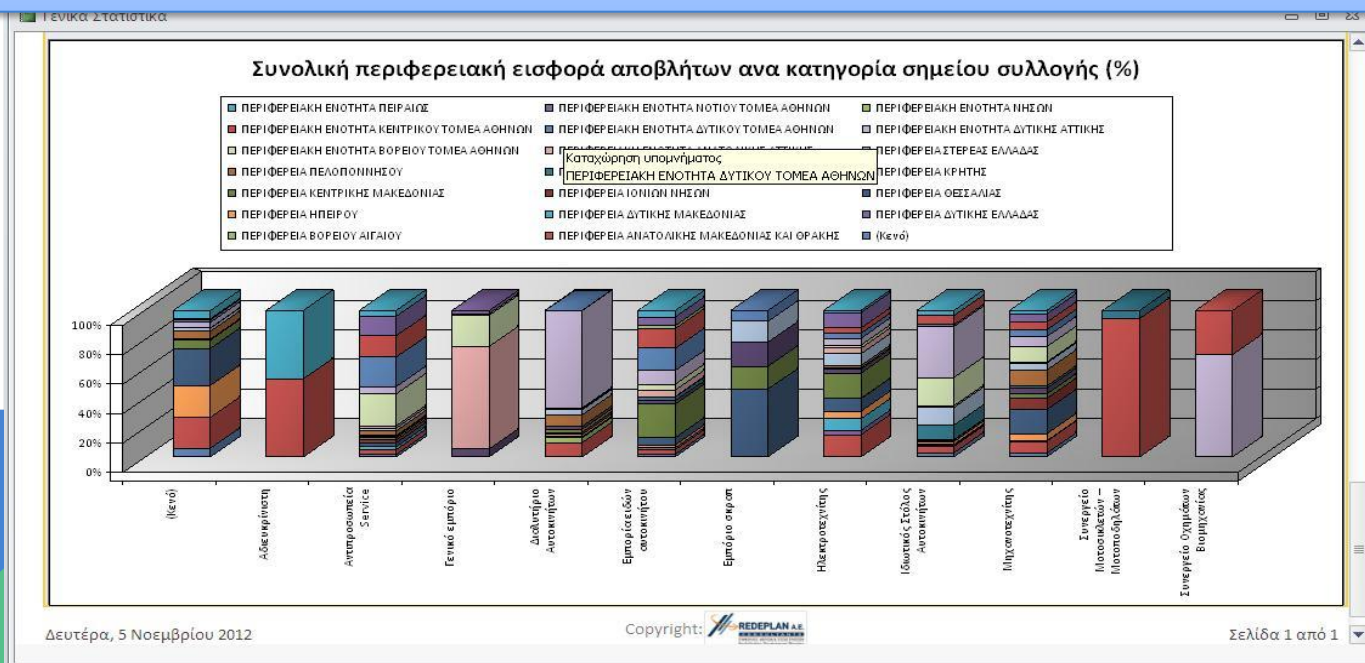
Re.De-Plan A.E. Consultants, the company in charge of Strategy and Organizational Development of Re-Battery S.A., has created a model Information System for recording all the procedures; an Information System that guarantees:

- ✓ Quantification of data and processes and Validity of results
- ✓ Control of Performance Indicators
- ✓ Focused targeting – Strategy Development
- ✓ Feedback and optimization functions
- ✓ Instant forwarding of information to the state authorities

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The Integrated Information System is a strategic development tool that provides:

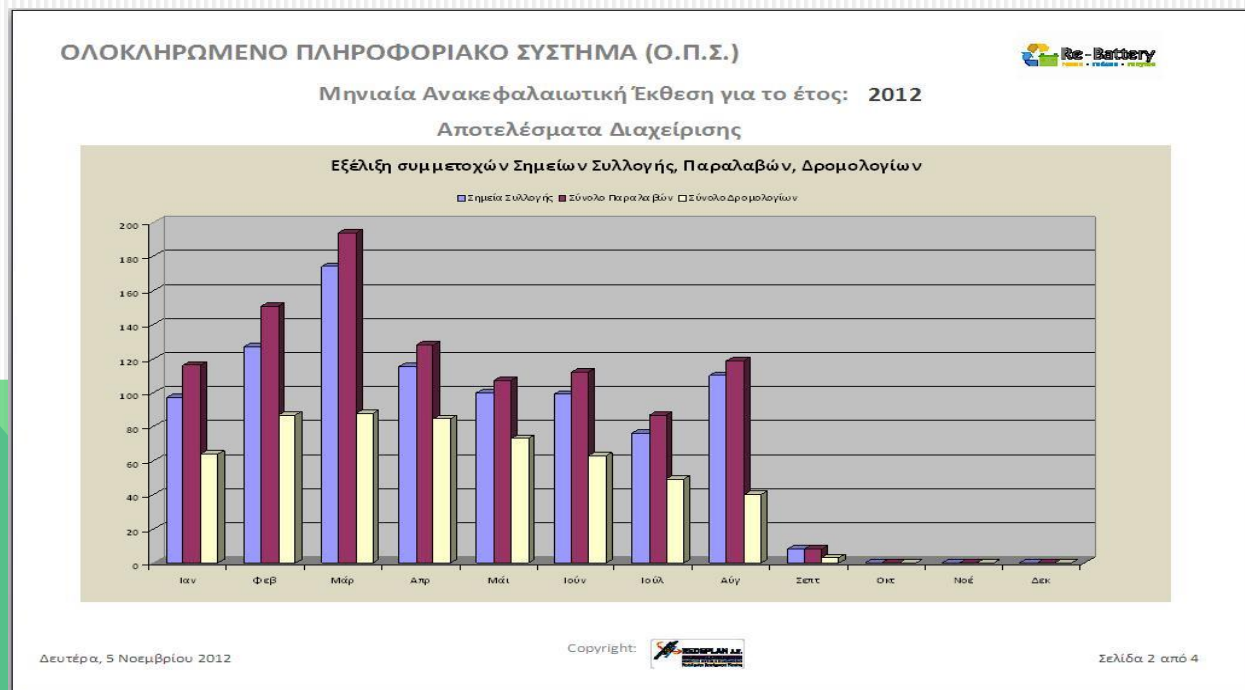
- Instant recording of all the information for the involved parties by creating internal registers
- Instant analyzing and grouping all information
- Instant calculation of all transported quantities per month, area, collector, collection point and per recycling company
- Automatic indications – ALARM – of each irregularity recorded in the special documents for transporting hazardous waste (EAEA)



Setting up the National Register of Collection points business units

- ❖ Re-Battery S.A. contacted all the Regional departments issuing Licenses
- ❖ Data base of 12.000 collection points (business units) has been created

This data base will be used to cross check the legal transport of the waste and to evaluate all the information and, finally, come up with suggestions for the best practice and best collection route design, aiming to reduce the pollutants during the waste transportation.



Re-Lead

RE-LEAD is devoted to the **development of a process** towards a declassified **non-hazardous waste** and/or a by-product suitable for utilization in added value materials resulting in a **safe, environmentally and financially effective management of the lead slag**. Project will comprises modifications in the existing process and the development of an innovative complementary treatment of slag in the lead recycling plant of J.HOUMAS SA as well as the development of safe lead-bearing innovative materials (as cementitious, geopolymers, ceramics). A prolific win-win cooperation with 3 research institutes is provided. REDEPLAN SA, an enterprise with experience in management of large scale projects will undertake the challenging management of an R&D project, mechanical design and product design for final applications. The objectives of RE-LEAD is linked with the development of an enterprising perspective for the two involved companies in the frame of waste management under the operational constrains of waste disposal in Greece. **Through RE-LEAD project, enterprises and institutes will expand their activities with national environmental and economic benefits (increase of job places, exports of lead, minimization of waste exports).**

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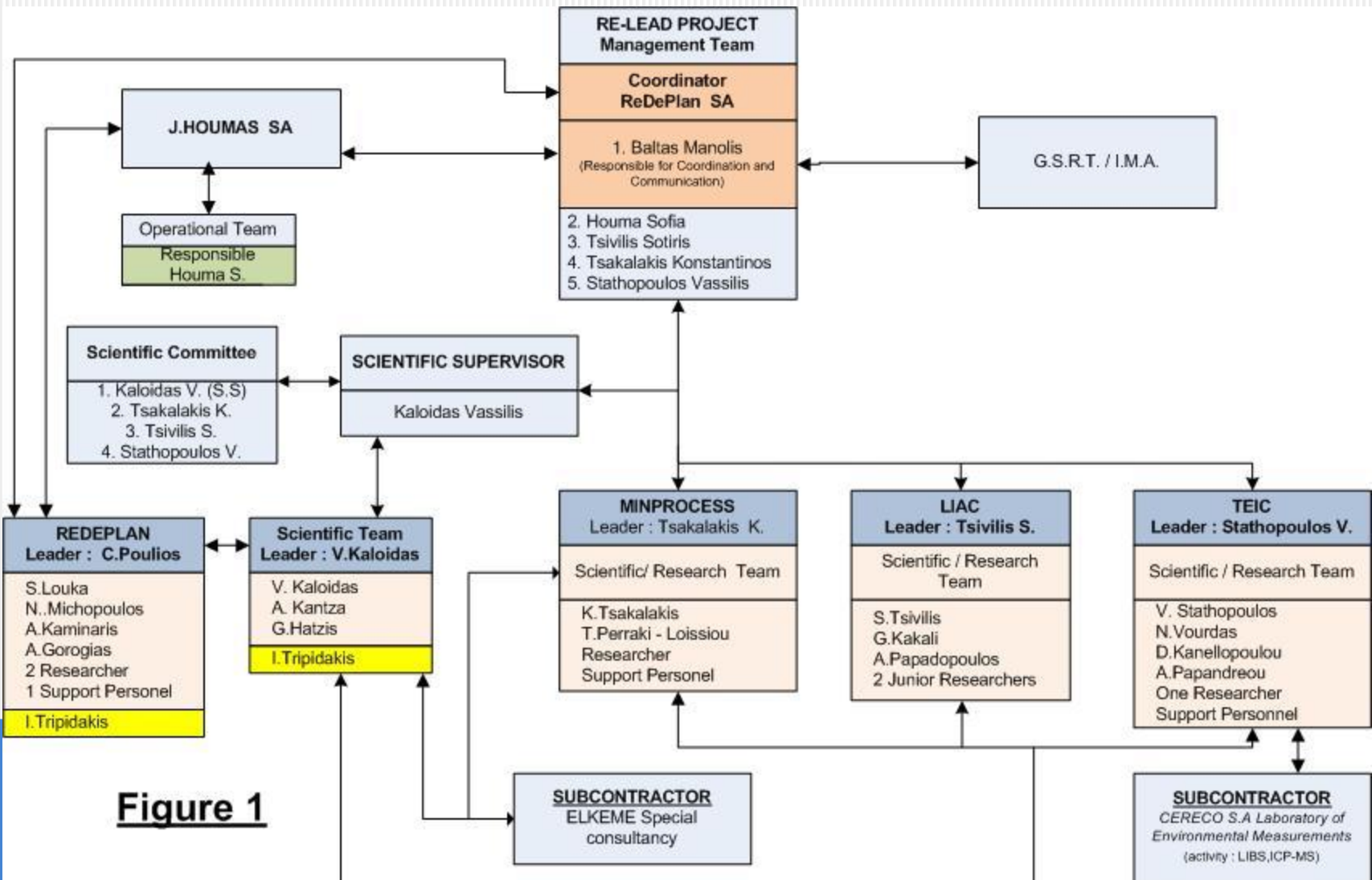


Figure 1

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ΜΕ ΤΗ **ΣΥΜΒΟΛΗ**
&
ΤΗΝ **ΥΠΟΣΤΗΡΙΞΗ** ΤΗΣ:



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Thank you for your time