

RECYCLIA
2016
ANNUAL REPORT





Summary

RECYCLIA 2016 ANNUAL REPORT

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THE PRESIDENT**

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01

A WORD
FROM THE
PRESIDENT

►► The best present to face future challenges

Once again it is my pleasure to present another year's annual report of the environmental foundations that comprise Recyclia, and thereby share with you the platform's principal milestones and achievements in 2016, reaffirming our conviction that our model of management is the most effective response to the great challenges that sustainable development poses to our society.

These milestones of 2016 include the integration of Ecolum as a full partner in Recyclia, thereby concluding a process that began in 2014 with the signing of a collaboration agreement to optimise the selective collection and recycling of waste from lamps, lights and illuminated signs. Thanks to this synergy, Recyclia now brings together more than 40% of the electronic appliance producers and more than 62% of battery producers, totalling more than 1,300 producers and importers of these products in Spain.

This reaffirms Recyclia's position as the principal platform for electronic waste and batteries in the country, having in 2016 increased its share in categories of appliances such as lighting and large domestic appliances. In this regard, the new requirement to provide data per number of units brings us closer to the reality of a market in which the Recyclia foundations already sell one in every four appliances. Meanwhile, in the professional field, producers who are members of Recyclia now account for 31% of units.

Specifically, our ability to respond to all types of equipment, in both the domestic and the professional field, has allowed us to manage more than 180,000 tonnes of electronic waste and 20,183 tonnes of batteries since the operations of our foundations began.

We continued to grow with regard to batteries, in the year in which Ecopilas celebrated its 15th anniversary, succeeding in collecting 41% of the portable batteries placed on the Spanish market. Furthermore, the foundation now has the second-largest collection network in Europe, with more than 49,000 points, 10% of the 380,935 points installed by the collective systems linked to Eucobat and surpassed only by Germany which has 44.5%.

In short, in 2016 we have continued to gain efficiency and optimisation in our management processes, which places us in the best position to face challenges such as the implementation and legislative development of the new Royal Decrees on electronic waste and batteries. From 2018 it will be compulsory to recycle a range of professional electronic equipment that has until now been exempt. Recyclia has already recycled more than 64,000 tonnes in this market since operations began, and it is the market leader with 40% of the devices sold in Spain each year.

To face these challenges, we will continue the same line of activity that has allowed us to reach these milestones so far, that is, we will continue driving collaborations with all projects and international forums that analyse trends in the electronic and battery recycling sector, and with consumers, public bodies, companies and organisations that contribute to our work and whose commitment is the basis of sustainable development.



○ *Luis Pérez Bermejo*
PRESIDENT OF RECYCLIA

02

A WORD
FROM
THE CEO

► Commitment and responsibility

Environmental protection, the circular economy and sustainable development are broad concepts that we, as citizens, can support in our day-to-day lives with such simple acts as, for example, putting a used battery in the right container for it to be collected and recycled.

The full implications of these all-important and wide-ranging concepts would be impossible to attain without collaboration, and for that reason I would like to begin this report by giving our thanks to all those who, in 2016, have collaborated with Recyclia for another year to achieve the magnificent results detailed over the next few pages.

We thank you because, without the commitment and responsibility of the public, producers, government bodies, distributors, managers, the media and bodies and associations in different fields of work, we would not, in 2016, have been able to beat our record for electronic waste collection with more than 28,449 tonnes, a 42% increase on 2015, nor would we have collected 41% of the batteries placed on the market by Ecopilas producers, exceeding 2,532 tonnes.

Thanks to the integration of the Ecolum foundation, we have incorporated 332 new manufacturers into our environmental foundations, leading to our achievement of these results and the reaffirmation of our status as the largest platform for electronic waste and battery collection in the country.

Meanwhile, we have continued to dedicate great effort and resources to the task of bringing collection points closer to the public and the channel of distribution, with the rollout of a further 1,610 new collection points for electronic devices and 1,320 for batteries, reaching totals of 15,392 and 34,089 respectively across the whole of Spain, forming the biggest such network in the country.

On top of all this, we continued working to raise awareness and educate about recycling culture, through an ever-increasing number and variety of initiatives and campaigns - detailed in this report - aimed at children and young people, distributors and the general public. This area of work has evolved into Recyclia's backbone and it is what has allowed us to pass the milestone of having managed 20,000 tonnes of batteries since 2009 which, without doubt, is the best result with which to celebrate the 15th anniversary of Ecopilas in 2016.

Finally, I would like to complete this letter of thanks with a special mention of the human team at Recyclia. We thank you for your dedication to this project and your ability to infect others with your enthusiasm for building a sustainable future. Likewise, we extend our thanks to the Trustees of the Foundation and to the numerous public and private bodies that acknowledge and support us.



○ José Pérez García
CEO OF RECYCLIA

03

about us

recyclia

Recyclia is the biggest selective collection platform for electrical and electronic waste and used batteries in Spain, operating and managed through the Environmental Foundations Ecopilas, Ecofimática and Ecoasimelec-Tragamóvil, and at the end of 2016 it completed the incorporation of Eolum. We also continue our collaboration with Pv Cycle, providing Recyclia's member companies with access to a comprehensive service that covers all categories of electrical and electronic equipment and batteries.

These foundations, which are now constituted as collective extended producer responsibility systems, or SCRAP, according to the requirements of current environmental legislation, have for more than 10 years offered their member manufacturers the tools and guarantees required for the proper fulfilment of their environmental obligations in a straightforward and cost-effective manner, thanks to the simplification of processes, the optimisation of management costs and the application of the very best technology at the service of recycling.

Recyclia now has in place the most extensive waste collection network in the country, comprising more than 48,800 points, allowing us to collect and properly recycle more than 206,253 tonnes of waste since we began our operations.

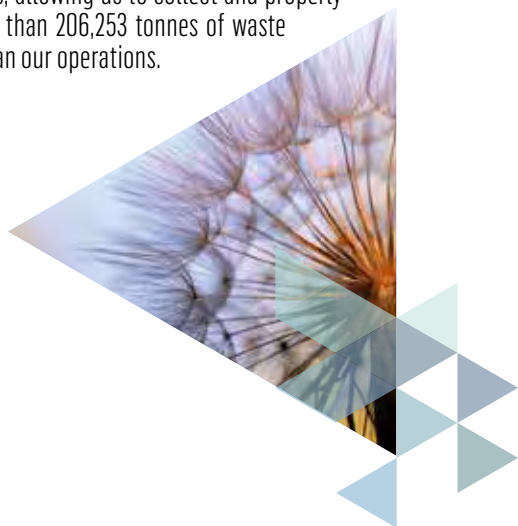


Management Board

The Recyclia Management Board is the environmental platform's managing body and it is made up of representatives from the four environmental foundations. The Boards of Trustees select participants to represent the interests of each Foundation and sector.

The Management Board's key functions include approving budgets for coordinated management, and monitoring and controlling company activities.

This model of coordinated management of Recyclia is reflected in cost savings and the creation of synergies that enable us to be the country's point of reference in the electronic recycling sector, optimising resources and driving the sustainable development of society.



**RECYCLIA
MANAGEMENT BOARD**

PRESIDENT

Luis Pérez Bermejo Ecoasimelec

CEO

José Pérez García Ecopilas

DIRECTORS

Enrique Muñoz Ecoasimelec

Agustín Alarcón Ecoasimelec

Benigno Martínez Ecopilas

M^a Gemma Redondo Ecopilas

Ramón Campos Ecopilas

Jaime Corderas Ecofimática

Vidal Vicente Ecofimática

Carmen Aláez Ecoasimelec

On 31 December 2016



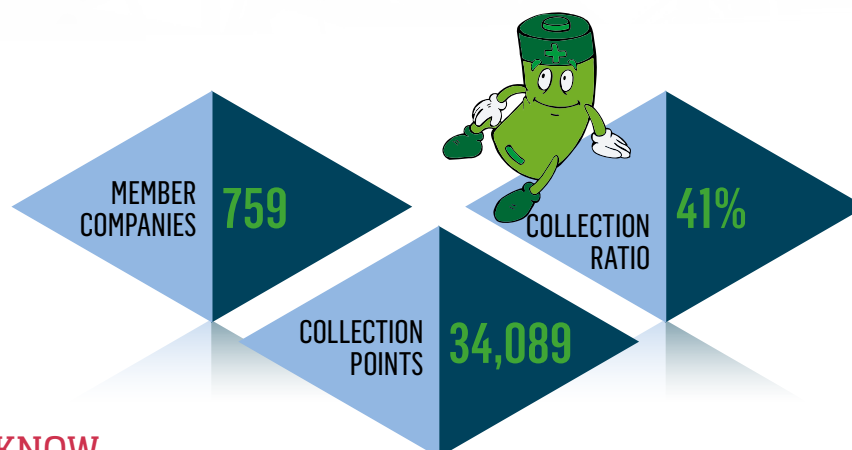
'Give Your Batteries New Life'

The Ecopilas Foundation was founded in the year 2000 and ever since has been a national and international flagship for the collection and proper management of waste batteries and accumulators, and has been a pioneer in Spain in the creation and implementation of recycling procedures for this waste.

With more than 759 member companies, it is the national leader in this sector, registering constant growth in its operations throughout the whole country.

Its extensive collection network, now comprising 34,000 collection points, has been set up to make it easier for the general public properly to deposit their spent batteries, by bringing collection closer to end users.

The intense activity undertaken by Ecopilas over the years has allowed us to properly manage more than 20,000 tonnes of spent batteries and accumulators since the entry into force of the regulation in 2008, achieving a collection ratio of 41% of all batteries released to market.



DID YOU KNOW...

Ecopilas makes on average more than 25,000 collections of used portable batteries per year, which equates to more than a hundred million portable batteries each year.

[www.ecopilas.es]



'Make an Impression on the Environment'

Ecofimática is an environmental foundation belonging to the Recyclia platform and providing national coverage for the collection and recycling of waste printers, fax machines, photocopiers and multifunction devices, of both domestic and professional origin.

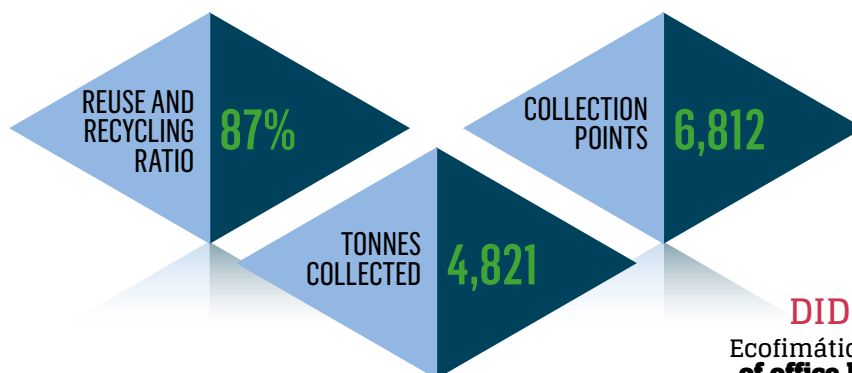
It is devised as a 'tailored solution' to the environmental needs of companies in the office IT sector, to guarantee the proper management of end-of-life equipment generated in business activities.

The Ecofimática Foundation represents 90% of the sector and is made up of the bulk of companies that manufacture and import office IT equipment in the country, many of them represented on our Board of Trustees.

In order to facilitate the handover of the used equipment, Ecofimática has set up a major network of collection points offering nationwide coverage, currently comprising 6,812 points where both domestic and professional users can deposit their waste.

ECO AWARDS. One of the most important tasks undertaken by Ecofimática is connected with the raising of awareness among professionals in the office IT sector as to the importance for the environment of the collection and proper management of disused equipment.

To make the task simpler and more appealing, in the year 2013 Ecofimática set up the Eco Awards, with the aim of raising environmental awareness in the sector, increasing the collection of waste and rewarding those companies and professionals making the greatest contribution to the task in each Spanish region.



[www.ecofimatica.es]

DID YOU KNOW...

Ecofimática brings together **90% of office IT manufacturers and importers in Spain**, providing national coverage for waste electrical and electronic equipment collection.



Ecoasimelec was set up in the year 2005 with the aim of assisting companies manufacturing and importing electrical and electronic equipment to comply with their environmental commitments derived from the issuance of Royal Decree 208/2005.

Ever since it was founded, the Ecoasimelec Foundation has been a national flagship in the management of waste electrical and electronic equipment (WEEE), and enjoys the trust of 570 member companies and notable representation across the sector in such major segments as IT and telecommunications, medical equipment, recreational machines and surveillance and control equipment, among other fields.

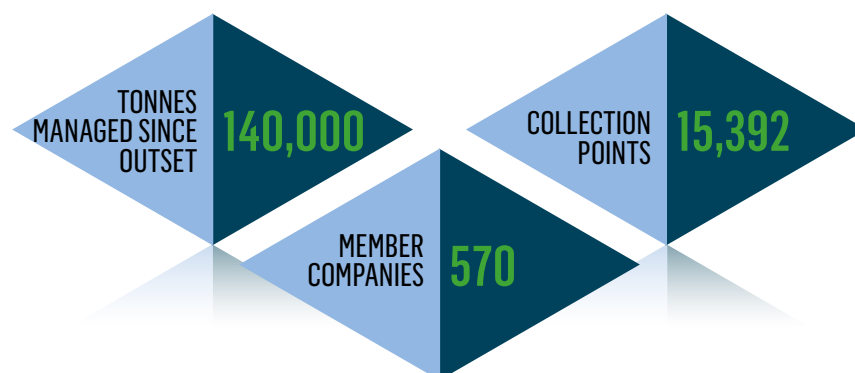
In 2014, Ecoasimelec and Tragamóvil cemented their merger into a single entity, and since that moment the two foundations have joined forces in a common project, which aims to strengthen the Tragamóvil project and optimise processes and synergies with other operations that integrate Recyclia.

In order to guarantee successful management and ensure compliance with its objectives, operations have progressively been defined in accordance with the needs of each of these sectors.

DID YOU KNOW...

Up to 90% of the components of a mobile phone are recyclable, hence the importance of raising the awareness of millions of mobile phone users, so that they can contribute to their recycling.

Since they first began, Ecoasimelec and Tragamóvil have managed more than 140,000 tonnes of waste electrical and electronic equipment, achieving a reuse and recycling ratio in excess of 80%.



[www.ecoasimelec.es]

[www.tragamovil.es]



Foundation for the Recycling of Lighting Equipment

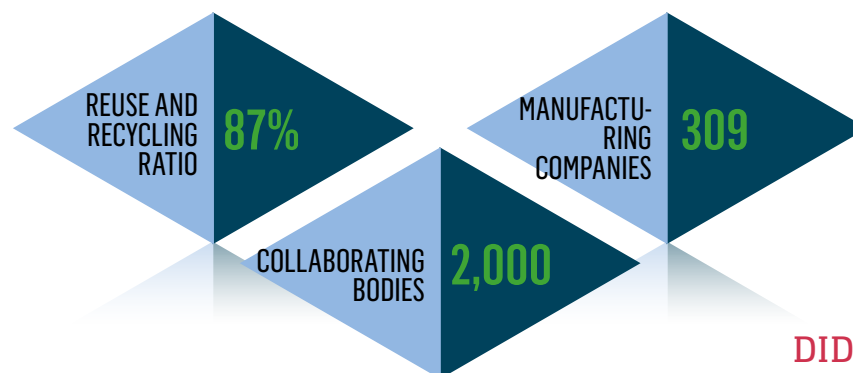
'We recycle light'

The Ecolum Foundation is a not-for-profit organisation that launched with the coming into force of Royal Decree 208/2005 on electrical and electronic devices and the management of their waste. Currently, it is authorised on a national level for the comprehensive management of waste from lighting equipment such as lights, lamps, LED and illuminated signs.

Experience, quality, commitment and transparency are characteristics that define the service offered by Ecolum, which is why more than 300 manufacturing companies and 2,000 entities that generate this type of waste trust Ecolum to fulfil the obligations established by current law.

The Ecolum Foundation has developed a waste management model that connects all the entities and users who participate in the life cycle of lighting equipment, from the moment it is placed on the market until it becomes waste, at which point it must be properly managed in authorised treatment plants.

Since it first began, Ecolum has managed more than 6,916 tonnes of waste electrical and electronic equipment, achieving a reuse and recycling ratio in excess of 87%.



DID YOU KNOW...

Ecolum is the leading collective system in the professional market for category 5 lighting equipment, with a **40% share of the market in 2016.**

[www.ecolum.es]

SUMMARY OF FOUNDATIONS' GENERAL FIGURES

MEMBER COMPANIES OF
RECYCLIA

1,307

TONNES COLLECTED SINCE
OUTSET

206,243

TOTAL COLLECTION POINTS

48,871

NEW COLLECTION POINTS
IN 2016

4,669

WEEE REUSE
AND RECYCLING RATIO

86.29%

WEEE VALUATION
RATIO

90.39%

COLLECTION INDEX FOR
SPENT BATTERIES*

41%

MULTI-CONTAINERS
INSTALLED

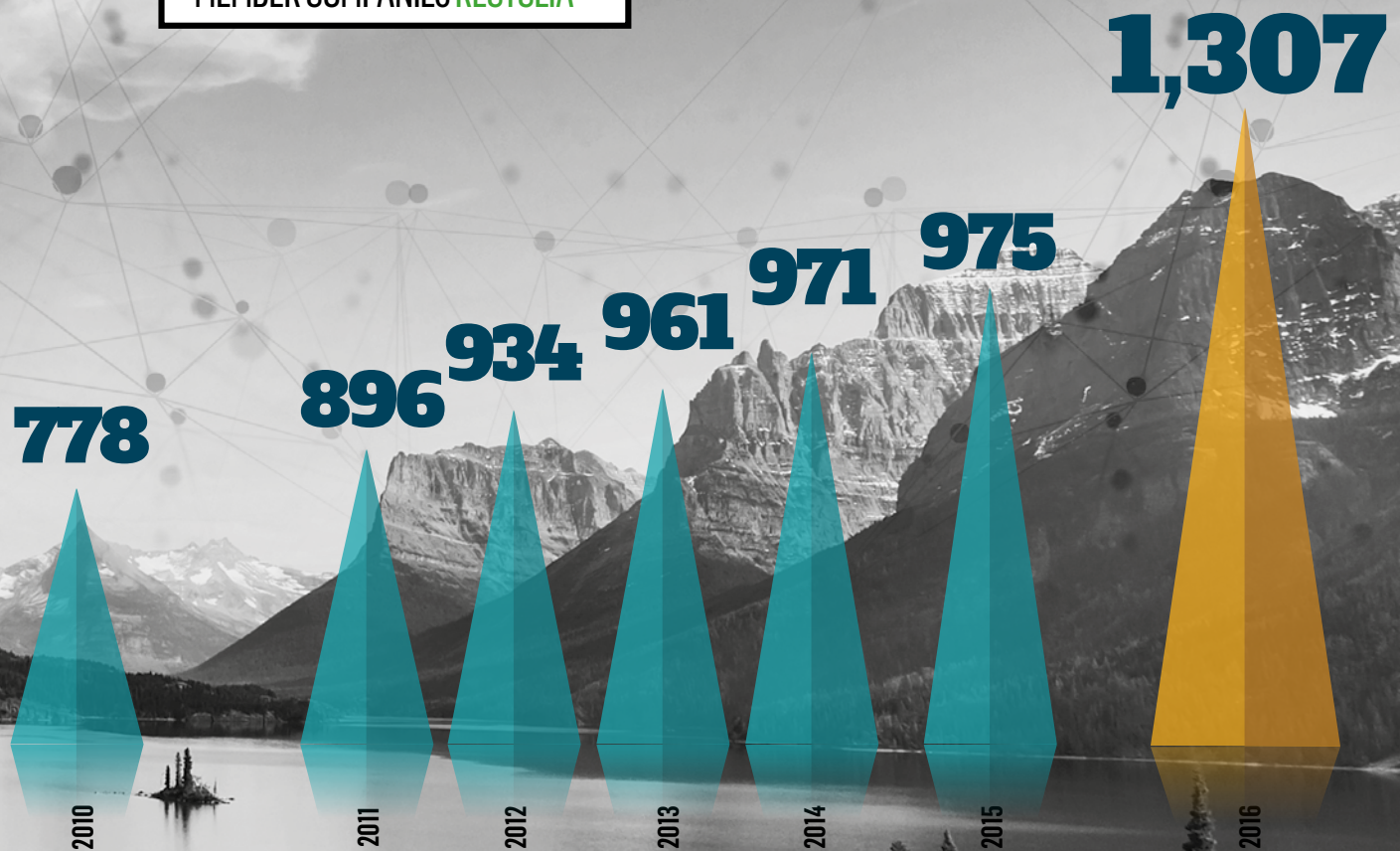
300

*Including additions

04

2016 *figures*
FIGURES

MEMBER COMPANIES **RECYCLIA**



EVOLUTION OF MEMBER COMPANIES

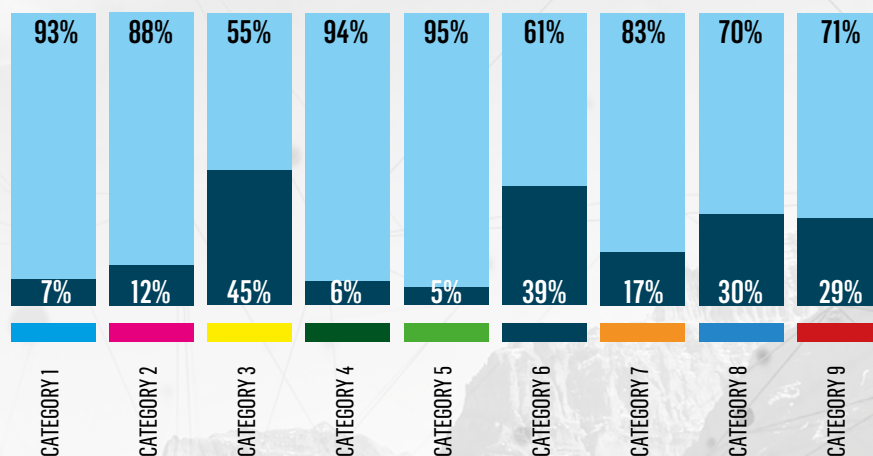
REPRESENTATIVENESS BY CATEGORY

1. WEEE

RECYCLIA

REST OF THE MARKET

DOMESTIC

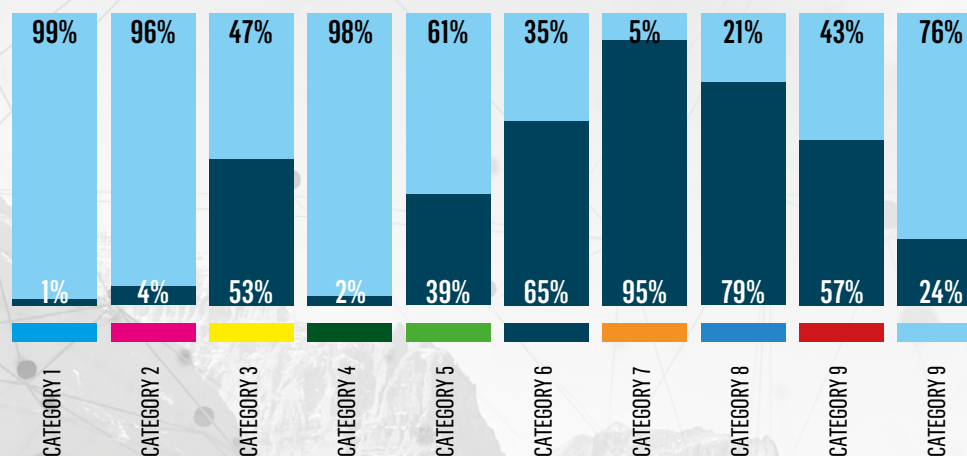


			Total RECYCLIA (Kilograms)	Rest of the Market (Kilograms)
	CAT.1	Large domestic appliances	27,540,618	368,984,009
	CAT.2	Small domestic appliances	5,204,714	39,235,201
	CAT.3	IT and telecoms equipment	14,601,215	17,709,198
	CAT.4	Consumer electronics and photovoltaic panels	2,569,324	38,402,196
	CAT.5	Lighting equipment	324,378	6,162,530
	CAT.6	Electrical and electronic tools	4,642,209	7,244,006
	CAT.7	Toys, sports and leisure devices	2,050,593	9,800,628
	CAT.8	Medical devices	258,883	606,113
	CAT.9	Surveillance and monitoring devices	204,400	512,119
	CAT.10	Vending machines	0	0
			57,396,334	488,656,001

REPRESENTATIVENESS BY CATEGORY 1. WEEE

RECYCLIA REST OF THE MARKET

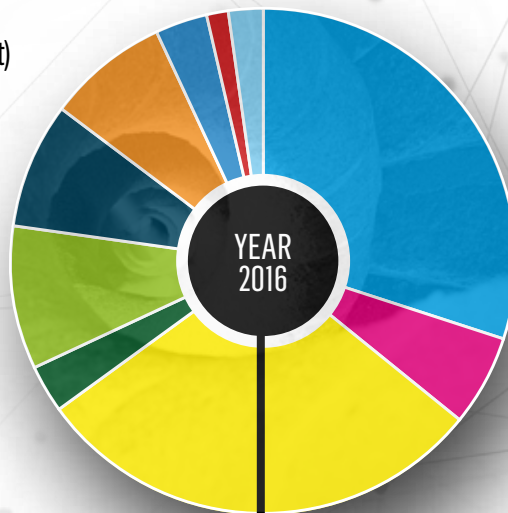
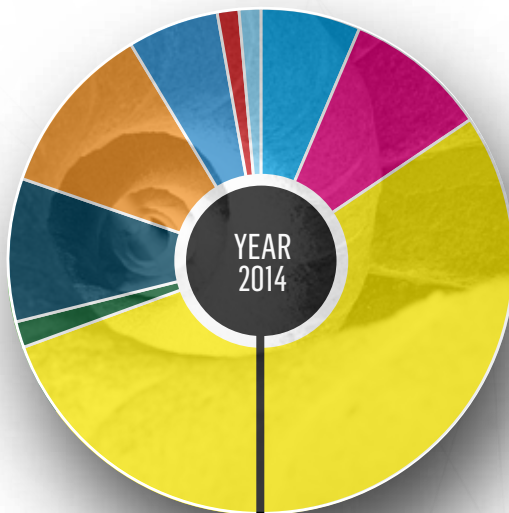
PROFESSIONAL



		Total RECYCLIA (Kilograms)	Rest of the Market (Kilograms)
CAT.1	Large domestic appliances	104,269	9,169,857
CAT.2	Small domestic appliances	40,998	967,191
CAT.3	IT and telecoms equipment	12,170,950	10,997,484
CAT.4	Consumer electronics and photovoltaic panels	86,115	3,717,719
CAT.5	Lighting equipment	8,192,134	12,574,468
CAT.6	Electrical and electronic tools	2,538,530	1,379,710
CAT.7	Toys, sports and leisure devices	5,045,933	281,400
CAT.8	Medical devices	2,846,525	755,249
CAT.9	Surveillance and monitoring devices	1,216,149	899,669
CAT.10	Vending machines	1,817,661	5,796,695
		34,059,264	46,539,443

REPRESENTATIVENESS BY CATEGORY 2. WEEE

POM
(placed on market)



6.58%	3,334,103.00
9.03%	4,579,446.00
53.98%	27,372,199.80
1.79%	906,104.00
0.00%	0.00
9.12%	4,625,514.00
10.96%	5,559,528.00
5.84%	2,959,097.00
1.50%	758,184.00
1.21%	613,585.00

CAT.1	Large domestic appliances
CAT.2	Small domestic appliances
CAT.3	IT and telecoms equipment
CAT.4	Consumer electronics and photovoltaic panel
CAT.5	Lighting equipment
CAT.6	Electrical and electronic tools
CAT.7	Toys, sports and leisure devices
CAT.8	Medical devices
CAT.9	Surveillance and monitoring devices
CAT.10	Vending machines

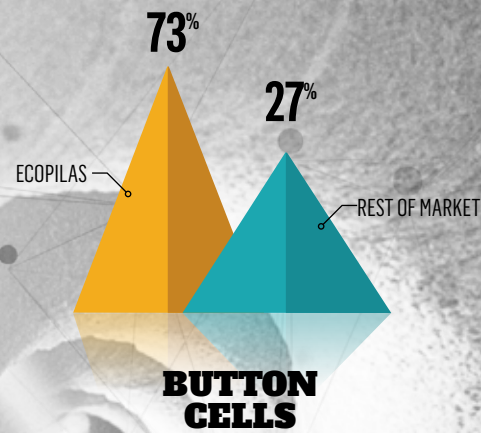
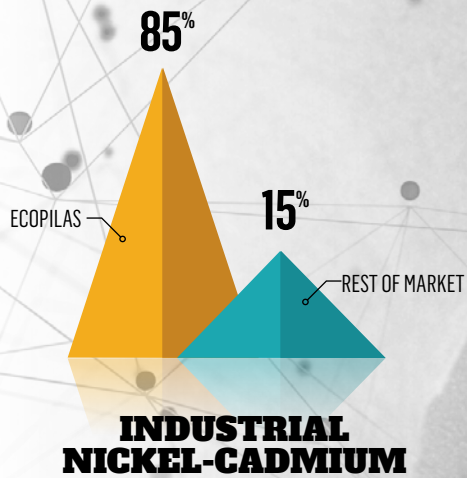
30.23%	27,644,887.00
5.74%	5,245,712.00
29.27%	26,772,165.22
2.90%	2,655,439.00
9.31%	8,516,511.48
7.85%	7,180,739.00
7.76%	7,096,526.00
3.40%	3,105,408.00
1.55%	1,420,549.00
1.99%	1,817,661.00

Total kg 2014 50,707,760. 80

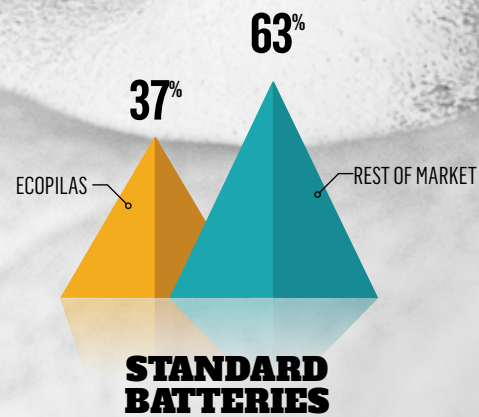
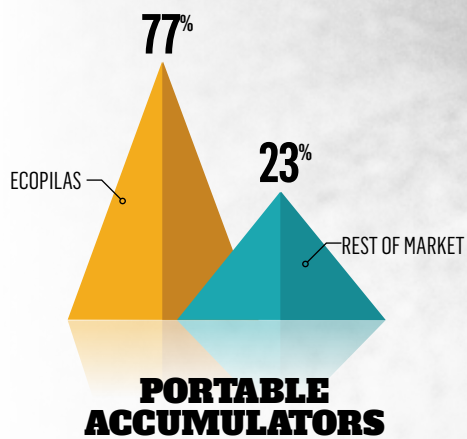
Total kg 2016 91,455,597.70

REPRESENTATIVENESS **BY CATEGORY**

3. ECOPILAS

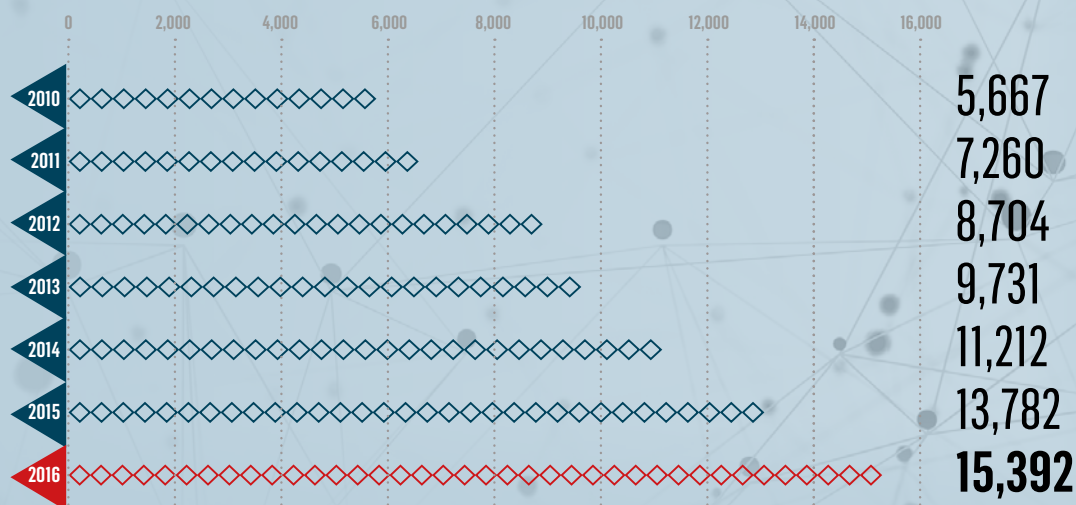


POM
(placed on market)

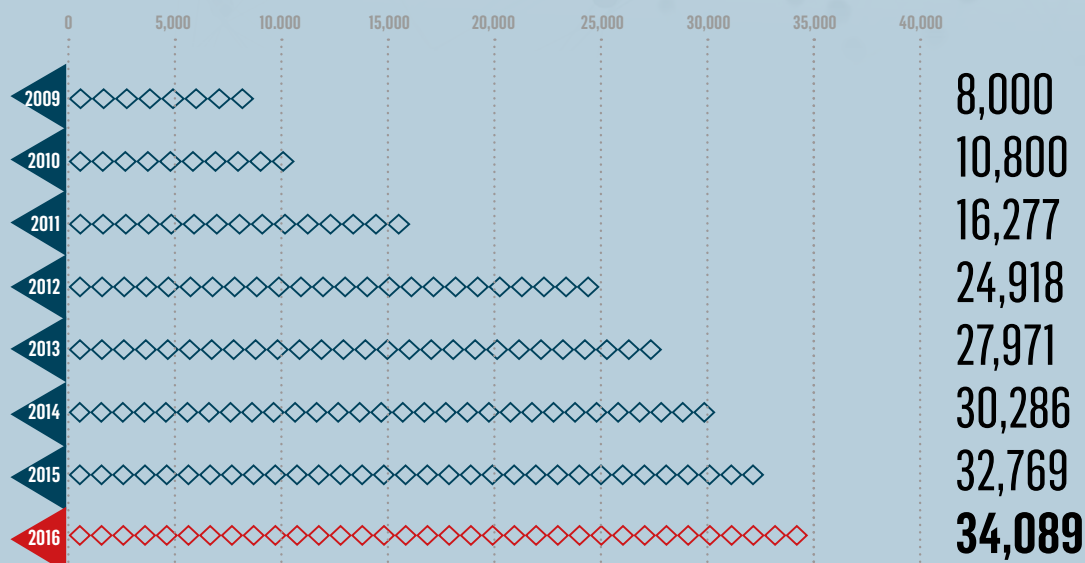


RECYCLIA COLLECTION POINTS

EVOLUTION OF WEEE

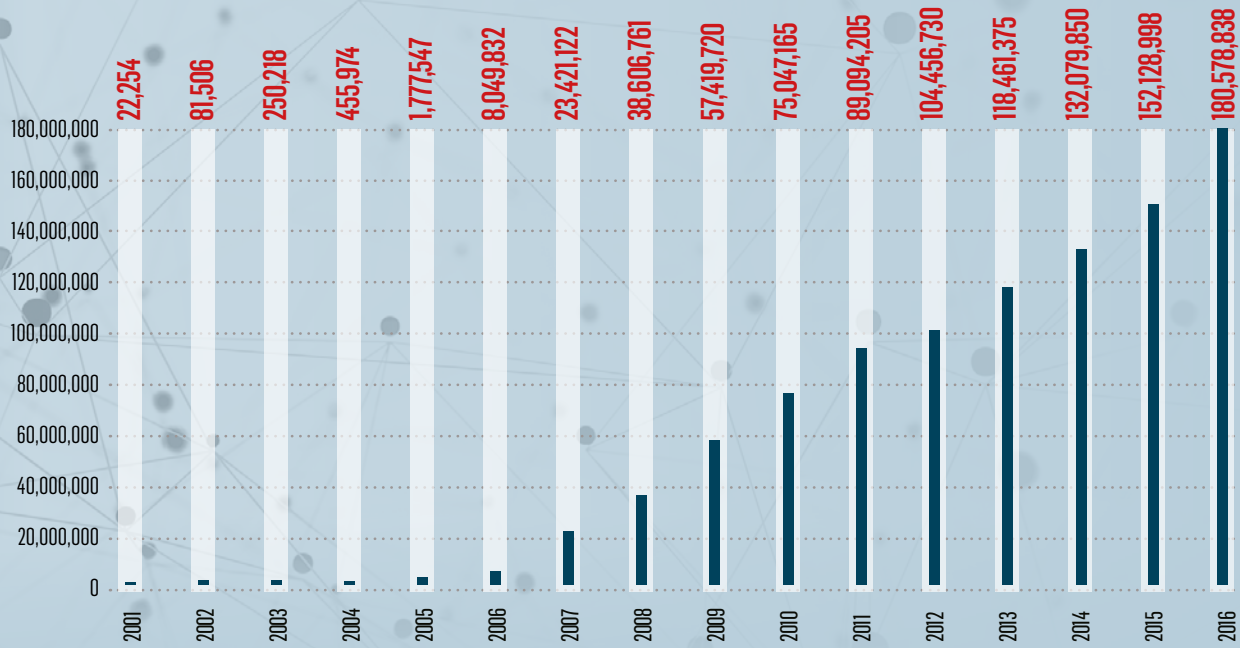


EVOLUTION OF BATTERIES

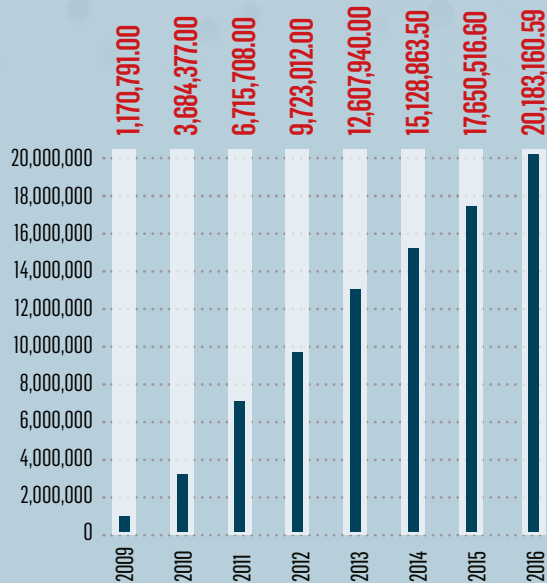


TOTAL KILOS OF WEEE AND BATTERIES MANAGED

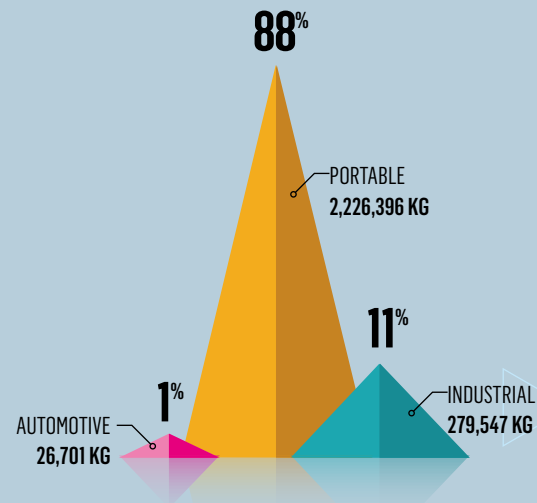
WEEE
QUANTITIES MANAGED: CUMULATIVE (kg)



BATTERIES
CUMULATIVE kg COLLECTED

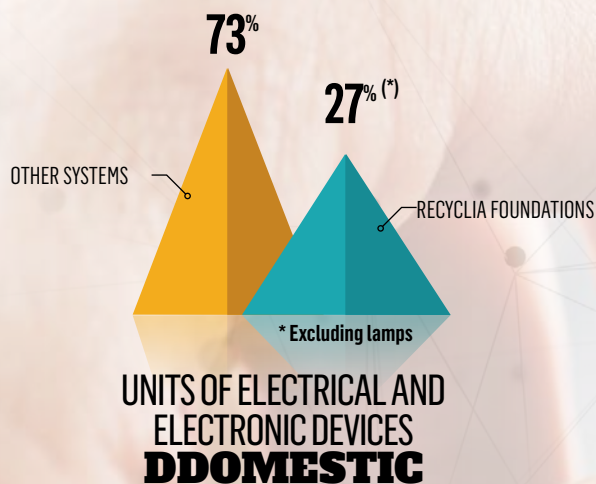


TYPES % KILOS COLLECTED 2016



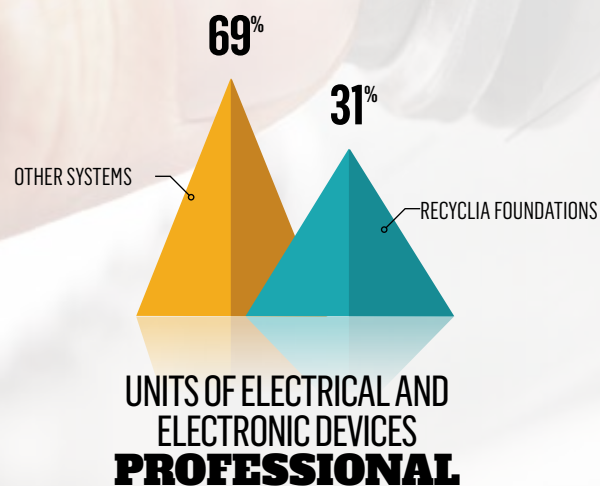
MARKET WEEE UNITS 2016

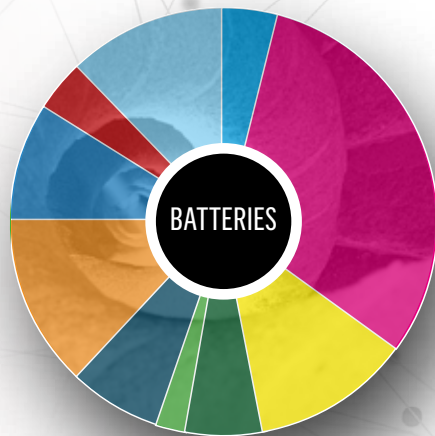
The legal obligation to provide data in numbers of units brings us closer to the reality of the market.



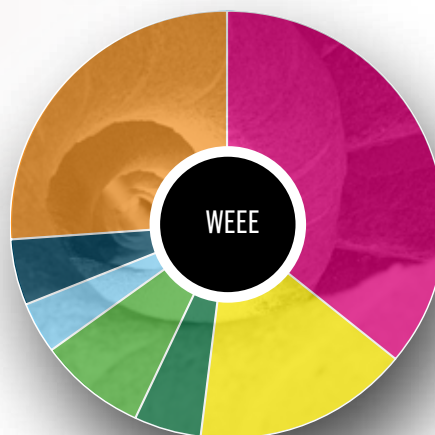
1 in every 4 domestic electrical and electronic appliances placed on the market in Spain are declared through the Recyclia foundations.

In the professional sector, 31% of units declared in the EEE register are declared through one of the Recyclia foundations.



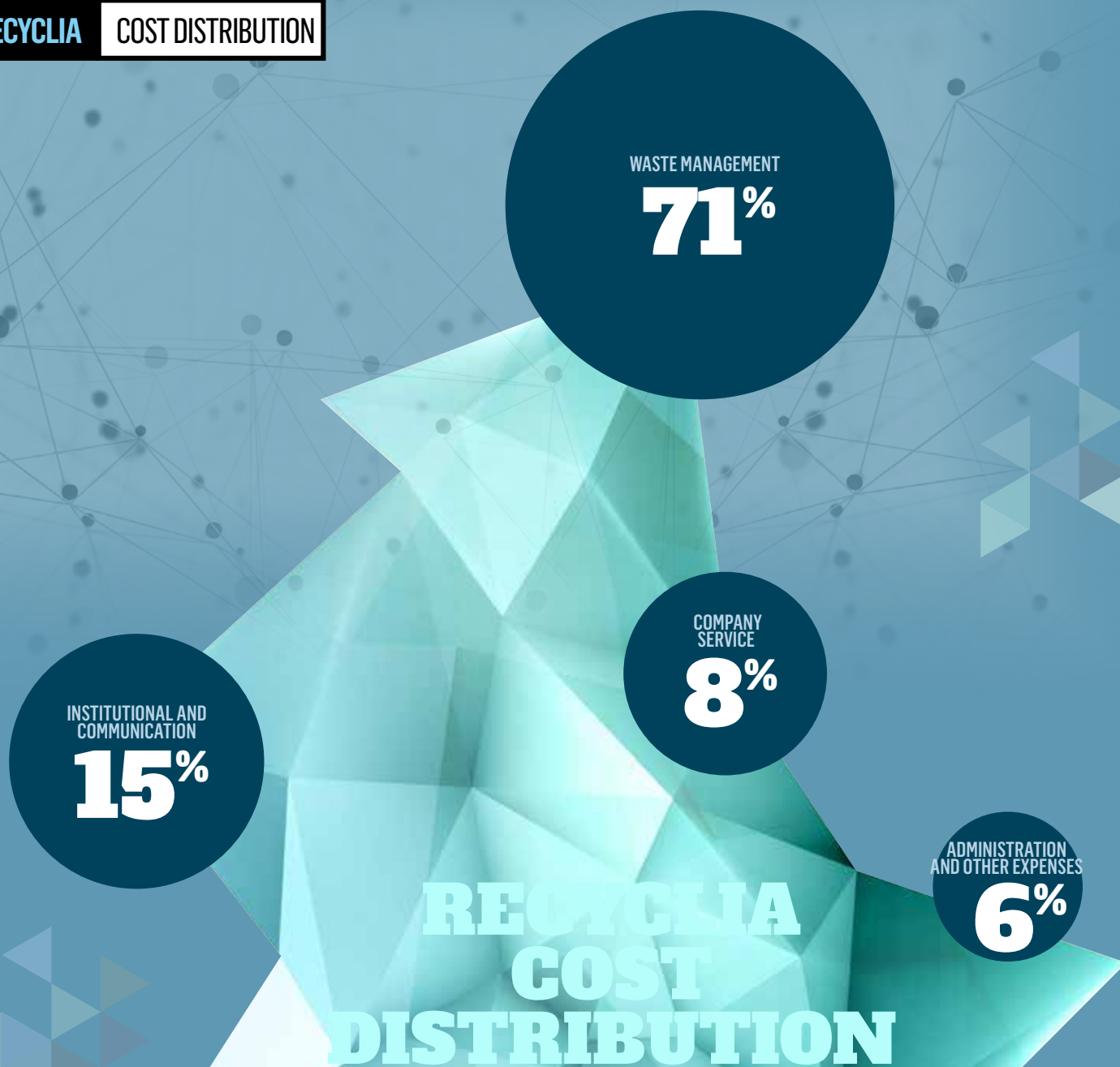
COMPANIES


BATTERIES SECTOR		No. COMPANIES
4%	DISTRIBUTION	29
32%	CONSUMER ELECTRONICS/TELEPHONY/IT	218
11%	ELECTROMEDICINE	80
6%	TOYS/LEISURE/SPORTS	45
2%	OFFICE IT	17
14%	OTHER SECTORS	81
7%	SMALL HOUSEHOLD APPLIANCES/HARDWARE/DIY/ELECTRICS	48
12%	BATTERIES	91
8%	PROFESSIONAL / INDUSTRIAL	59
4%	TELECOMS AND RADIOCOMMUNICATIONS	27
Total		759



WEEE SECTOR		No. COMPANIES
36%	IT, TELEPHONY, OFFICE IT AND CONSUMER ELECTRONICS	203
16%	ELECTROMEDICINE	93
5%	RECREATION	30
8%	SURVEILLANCE AND MONITORING	46
4%	TOYS AND PROMOTIONAL GIFTS	23
5%	ELECTRICAL TOOLS AND AUTOMOTIVE	26
26%	OTHER SECTORS	149
TOTAL		570

▶ **RECYCLIA** COST DISTRIBUTION



SPECIFIC RECYCLIA OPERATIONS

The Foundations belonging to our platform present an optimised waste collection and recycling model, fulfilling the management needs of the domestic and professional channels covered by Recyclia.

**MAIN
LOGISTICAL
MODELS:****PROFESSIONAL
WEEE**

- Electromedicine collections
- Professional tools collections
- Recreational machines collections
- Ecofimática collections
- Ecolum collections
- Photovoltaic panels collections

**DOMESTIC
WEEE**

- Collection in retail centres
- Collection in recycling points
- Distributors' specific channels

BATTERIES

- Batteries of municipal origin
- Batteries of domestic origin
- Batteries of professional/
industrial origin

WEB PLATFORM A MEETING POINT

Recyclia provides its member companies, logistical operators and waste managers with a computerised system that guarantees the complete traceability of WEEE and batteries, allowing producers to file their quarterly declarations in a straightforward and secure manner.

Recyclia centralises all its operations through the 'Recyclia Web Platform', which can be used to perform the following procedures:

- | | | | |
|----|--|----|---|
| 01 | AFFILIATION OF NEW COMPANIES AND LAUNCH OF NEW COLLECTION POINTS | 05 | DIALOGUE WITH LOGISTICAL AND TREATMENT MANAGERS |
| 02 | QUARTERLY DECLARATIONS AND COMMUNICATION WITH WEEE REGISTRY AND BATTERY AND ACCUMULATOR REGISTRY | 06 | CONSULTATION OF DELIVERY NOTES AND COLLECTION AND DECLARATION ARCHIVE |
| 03 | SWIFT AND STRAIGHTFORWARD WASTE MANAGEMENT REQUESTS | 07 | DOWNLOADING OF REQUESTS AND CERTIFICATES |
| 04 | COORDINATION AND TRACEABILITY OF WASTE COLLECTION AND MANAGEMENT OPERATIONS | 08 | INFORMATION AND NEWS |

SPECIFIC **RECYCLIA** OPERATIONS **1 DOMESTIC**

Municipal channel

The municipal waste electrical and electronic equipment and battery and accumulator collection networks are based on containers installed at municipal recycling points, which have the purpose of assisting users in handing over their waste and achieving effective separation of categories in accordance with the treatment they require.

In order to cover these recycling points, **municipalities and local bodies may request the removal of the containers via the Recyclia foundations, or otherwise use the shared services of OFIRAE and OFIPLAS**, established jointly by all the Collective Systems for this purpose.

DID YOU KNOW...

The fundamental aim of the municipal recycling points is to assist users in handing over their waste.



SPECIFIC RECYCLIA OPERATIONS 1 DOMESTIC

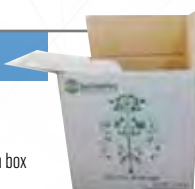
Distribution channel

The collection points established in the commercial distribution system (retail centres, supermarkets etc.) have the fundamental aim of increasing users' options in handing over their waste, while assisting distributors in fulfilling their legal obligations, since in many cases such establishments must by law have collection containers available to consumers.

Recyclia has signed numerous agreements with such entities for the installation of the containers needed by their outlets, and has designed containers suited to the point of collection and type of waste to be handled.

ECOASIMELEC RETAIL OUTLETS

>> Waste electrical and electronic equipment collection box



TRAGAMÓVIL RETAIL OUTLETS

>> Tube container for mobile phones



ECOPILAS RETAIL OUTLETS

>> Ecopilas box



>> Ecopilas igloo



>> Ecopilas tube



MULTICONTAINER: Specially created for the joint collection at hypermarkets and retail centres of batteries, portable accumulators, small household appliances, energy-saving bulbs and fluorescent tubes. Its design and implementation involved collaboration by various Collective Systems similar to Recyclia, to obtain operational and logistical synergies that are vital for containers of this type.

SMART CONTAINER: Last June, at the TECMA fair in Madrid, we demonstrated the Recyclia-Ambilamp Smart Container Project in which users can deposit batteries, small electric devices and lighting.



SPECIFIC **RECYCLIA** OPERATIONS**2 PROFESSIONAL****08**

PHOTOVOLTAIC PANELS: The operation agreed by and between Pv cycle and Ecoasimilec for waste collection and management of photovoltaic panels is Recyclia's newest operation, given that since 2015 the law expressly includes photovoltaic panels among the equipment that must be collected and recycled.

01**ELECTRO-MEDICINE:**

Operation tailored to the needs of the health sector, agreed by and between ECOASIMELEC and FENIN (Spanish Federation of Health Technology Companies), requiring the signature of ownership and decontamination clauses, along with collection resources and specialist personnel. In operation since 2007, it is an example of collaboration between operators and producers in the healthcare technology sector.

02**RECREATIONAL MACHINES:**

The collection system for recreational machines agreed with FACOMARE (Association of the Recreational Industry) and Ecoasimilec, is designed to guarantee the traceability of the collection and final management of end-of-life machines, with a system of tickets handed out to operators at the point of market release.

03**PROFESSIONAL TOOLS:**

Operation designed jointly with AFME and Ecoasimilec, for the collection and management of electrical tools of professional origin.

04**INDUSTRIAL PORTABLE BATTERIES:**

Operation created to resolve the specific needs of the industrial battery sector and large-scale portable battery users, guaranteeing compliance with the legislation governing both hazardous waste and hazardous goods (ADR).

07**ECOLUM:**

Waste collection operation for lights, lamps and illuminated signs. Ecolum has several different types of container to install at distributors' facilities and for each type of waste. It also collects directly from the facilities or places where large amounts of waste are generated (such as construction sites and large companies).

06

ECOFIMÁTICA: Operation intended to cover the needs of producers, distributors and professional users of office IT products. This is the longest-standing operation of all the Recyclia professional activities, as it was set up on a small scale back in 2003, before being extended nationwide in 2005.

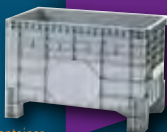
05**HYBRID-ELECTRIC VEHICLE BATTERY:**

The collection of these batteries has developed jointly with the main companies in the automotive sector, through collaboration with their corporate programmes. The main aim is to develop the most appropriate procedures for the collection, transportation and ultimate recycling of such batteries.

>> Battery collection canister



>> Battery pack container





05

COMMUNICATION
communication and events
EVENTS

Communication, via general and specialist media, the websites and social media profiles of the foundations that make up Recyclia, is one of the key lines of work that the environmental platform carries out and, in this regard, 2016 has been no exception.

In 2016, there were more than 1,800 hits in the press, radio and television on a national and regional level, a 48% increase on 2015. Of this total, the majority (61.6%) correspond to articles in the generalist media, followed by environmental and waste management media (13.6%). Next comes other specialist media (11.7%), such as corporate social responsibility, education, science and outreach, sport, industry and logistics. This is followed by technology, electronics and distribution channel media (8.8%), and finally, economics (4.3%).

Social networks, the pulse of everyday reality

The @Recyclia profile on Twitter closed the year 2016 with more than 4,000 followers, with an average increase of 100 followers per month, equivalent to a daily average of 3 to 5 followers of the tweets produced each day, with photos and news about corporate activity.

On Facebook, the most popular network, the number of fans exceeds 1,100 and more than 400 professionals follow the platform's daily reports on the LinkedIn professional network.

With regard to the foundations' websites, **2016 saw in excess of 200,000 visitors, and Ecofimática's was the most popular website among internet surfers.**

Over the year, a quarterly newsletter has been sent to all our member companies and our commercial and institutional contacts.

Following the redesign of the Ecofimática and Ecoasimilec websites, it is worth noting the inclusion of an interactive map of the 300 establishments in which the public can access multi-containers to drop off small electrical and electronic devices and used batteries, located in the country's main retail centres.





ecoencuentro



The impact of recycling and collective waste management systems in the circular economy was the focus of the annual meeting of the Recyclia environmental platform, **EcoEncuentro 2016**. Held in Madrid on 23rd November, the day brought together **more than 200** professionals from the electronics recycling and energy efficiency sector and government representatives to analyse the latest developments and trends in regard to the circular economy.

EcoEncuentro 2016 was opened by José Antonio Díaz Lázaro-Carrasco, Madrid City Council's general director for the environment, and he underscored the importance of having enough collection points for electronic waste and batteries and them being close enough to the public.

Then, José Pérez, managing director of Recyclia, reviewed the platform's work and its management of more than 152,000 tonnes of electronic devices and 17,600 tonnes of batteries since 2001, sealing its position as a flagship in the management of this type of waste in Spain.

EcoEncuentro 2016 also analysed sustainable development initiatives such as car2go and the green design projects by Ihobe, the Basque Government's Public Society for Environmental Management. For his part, José Rizo, from the European Commission's Directorate General for the Environment, expounded the benefits of recycling batteries in the circular economy.





Furthermore, as in previous editions, **EcoEncuentro 2016** held a debate to analyse the role of electronic device producers and the collective system for electronic device waste management, in accordance with Royal Decree 110/2015 which regulates their environmental treatment in Spain. Fernando Sánchez Salinero, communications professional and strategic consultant, brought the proceedings to a close with a keynote presentation on reconsidering the welfare state.

Ecopilas celebrated its 15th birthday



conama 2016

From 28th November to 1st December, Recyclia took part in the 13th edition of the National Congress of the Environment (CONAMA). The president of Ecopilas, José Pérez, was one of the speakers at the event's round table, the Ibero-American Meeting on Sustainable Development. For her part, María Jesús Veleiro, director of planning and development at Recyclia, participated in the working session, 'Preparing for Reuse'.

In fact, in this regard it is worth noting that Recyclia collaborated with Ecolec and Conama in a pilot test for reusing waste IT equipment. The companies donated 55 pieces of equipment which were reused over the course of the Congress, having undergone a detailed data-deletion process, tests to ensure their correct functioning and the installation of new software.





2nd Recyclia Environment Awards

Recyclia held the second edition of its Environment Awards in 2016. With these awards, the platform recognises the effort of people, organisations and media outlets in working for environmental sustainability and, in particular, encouraging recycling and promoting its benefits. The event also commemorated the 15th anniversary of the environmental foundation Ecopilas.

In this second edition, Recyclia awarded the Provincial Council of Burgos' Provincial Institute for Sport and Young People (IDJ) in the category 'Greatest Support from a Public or Private Entity for Promoting Recycling', in recognition of its work to raise awareness of proper waste management through sports events such as the Cycling Tour of Burgos and the Atapuerca Cross Country. The award was collected by David Colinas, vice-president of the IDJ board of governors.

Gonzalo Echagüe Méndez de Vigo, director of the National Congress of the Environment (CONAMA) Foundation, was awarded the prize for 'Greatest Support from an Individual for Promoting Recycling', for making the CONAMA a benchmark event in environmental sustainability on a national and international level.

In the category 'Best Work by a Media Outlet to Raise Awareness of Recycling', the 2nd Recyclia Award went to El Economista's monthly supplement, 'Agua y Medio Ambiente' ('Water and Environment') for

the financial media outlet's work to provide space for environmental information with a generalist approach. Meanwhile, Federico Cardelus was awarded in the category 'Best Work by a Journalist to Raise Awareness of Recycling' for his report on recycling electronic waste for the episode, 'Enganchados a la red', of the programme 'Comando Actualidad' on TVE channel 1.

Finally, in celebration of the Ecopilas Foundation's 15th anniversary, Recyclia awarded two special recognitions to Rafael Acedo Pérez and José López de Velasco for their work in the Office for Environmental Quality of the former Ministry of Agriculture, Food and Environment, in the legislative development of the Royal Decrees on environmental management of batteries and electronic devices.



THE FOUNDATIONS' OWN CAMPAIGNS

2016 **Tour of Spain Cycle Race**

For the third consecutive time, Ecopilas and the Tour of Spain promoted battery collection among cycling fans. Ecopilas, a pioneer in this country in fostering a culture of recycling through sport, launched an information and collection campaign that enabled it to remove more than 1,650 kilos of batteries in the 2014 and 2015 editions of the cycling race.

The foundation set up collection bins at the start and finish lines of the 21 competition stages. It also handed over the Sportsmanship Award in 11 stages, including the final in Madrid in which Alejandro Valverde collected the award from José Pérez, the foundation's president, and deposited some batteries in one of the containers, thereby collaborating in raising awareness of the importance of the proper recycling of batteries.

Meanwhile, fans who attended the finish lines at Peñíscola, Lluçena, Gandía, Calpe, Alcoy or Madrid could visit the mobile School of Re-



cycling, an environmental education programme promoted by Recyclia and Ambilamp that offers an interactive demonstration of the benefits of recycling batteries, small domestic appliances, light bulbs, LEDs and fluorescent tubes.

Finally, Ecopilas has recognised the three most active municipalities in battery collection among the 40 locations that hosted start and finish lines in the latest edition of the Tour of Spain. This recognition went to Alcañiz (Aragón), Corrales de Buelna (Cantabria) and Luintra (Orense).



THE FOUNDATIONS' OWN CAMPAIGNS

Mallorca **Cycling Challenge** and **Tramuntana Travessa**

As well as collaborating with the Tour of Spain for another year and, for the first time, sponsoring Ecopilas Extremadura, in 2016, the foundation has run awareness-raising campaigns in other cycling competitions in order to promote practices that favour sustainability.

For the third consecutive time, the foundation collaborated with the **Mallorca Cycling Challenge**, held from 28th to 31st January. Throughout the battle for its four trophies, Ecopilas promoted the collection of used batteries on the Balearic Islands with the installation of containers at the start and finish lines. Furthermore, fans who attended the finish lines at Deiá and Palma de Mallorca could visit the School of Recycling, the pioneering environmental education project promoted by Recyclia and Ambilamp.

As in the two previous editions, the initiative enjoyed the support of the Government of the Balearic Islands General Directorate of Environmental Education, Environmental Quality and Waste.



The **Tramuntana Travessa** is held on 2nd and 3rd December in the Tramuntana Natural Park in Mallorca.

Runners who took used batteries to the Ecopilas stands in the number collection area or the finish line participated in a prize draw to win 200 euros worth of sports equipment and four places to participate in Tramuntana Travessa 2017.

Formentera Half Marathon



At the eighth edition of the **Formentera Half Marathon**, Ecopilas representatives handed over one of the sporting achievement prizes, brought the collection points closer to fans, and also visited several schools together with the Councillor for the Environment, Daisee Aguilera, to show pupils the environmental benefits of recycling batteries.

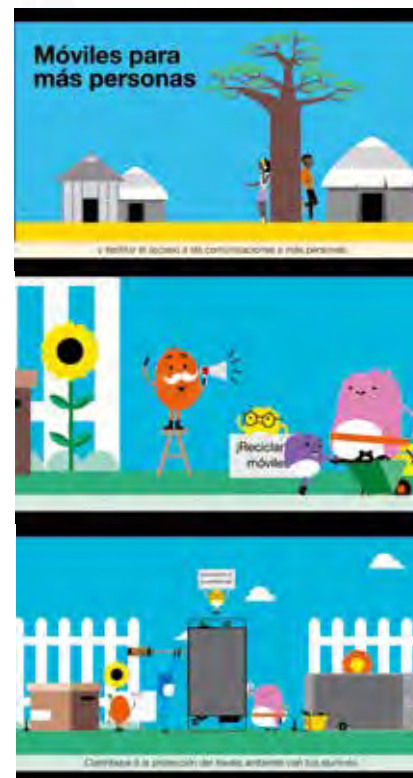
The Reciclators (Orange)



Under the title, '**The Reciclators**', **Orange** and the Recyclia environmental platform launched this contest for teachers and pupils in 3rd to 6th years of primary school, which aims to raise the

school community's awareness of caring for the environment through recycling mobile phones and other small electronic devices.

As well as bringing mobile phone collection containers to their schools, the campaign showed pupils the materials recovery process and how the recycling sector boosts employment. For its part, Recyclia, via Ecoasimilec, has taken on the task of collecting and recycling the mobile phones deposited in the schools.

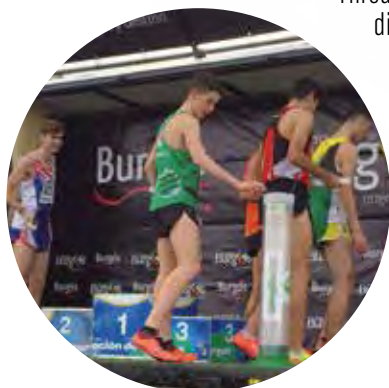


THE FOUNDATIONS' OWN CAMPAIGNS

Burgos Council

With a view to beating 2015's record of collecting 6,481 kilos of used batteries, Ecopilas and Burgos Council, through the Provincial Institute of Sport and Young People, signed a collaboration agreement to carry out environmental education actions in this province of Castilla y León.

Through activities organised by the institution, including the **Cycling Tour of Burgos**, the **Cross de Atapuerca** and the School Games, Ecopilas and Burgos Council raised public awareness of the importance of selective collection and recycling of batteries.



With the momentum these activities generated, Ecopilas collected 15,037 kg of batteries in 2016 in the province of Burgos, more than double the amount collected in 2015.

Unicaja Basketball

As part of its collaboration with **Unicaja Basketball** and the 'Málaga Recycles' campaign, Ecopilas facilitated the collection of more than 3,000 batteries from participants in the 8th All Star Minibasket Tournament, organised by the Málaga club. The tournament, held in Los Guindos Basketball School, involved the participation of 16 teams from Andalusia, Albacete and Melilla.

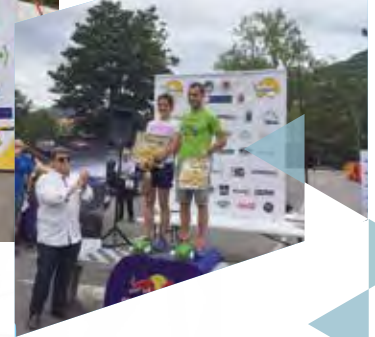


Travesera Picos de Europa

In 2016, Ecopilas promoted the environmental benefits of recycling batteries to the public at a variety of sporting events, including, for the first time, the endurance running race **Travesera Picos de Europa**, held on 11th June.

Fans who attended to support the race beat the collection record, as on a single day of the competition, Ecopilas managed to collect more than 600 kilos of used batteries in the containers placed at the race finish line.

Over the summer, Ecopilas also sponsored the **10th Resistencia Reino Astur trail run in Nembra**, Asturias.



Descent of the Sella

Ecopilas also had a notable presence on the podium at the 80th Descent of the Sella canoe race, in recognition of its sponsorship work in previous years.



Tour of Asturias

Ecopilas sponsored the **Cycling Tour of Asturias**, which took place from 30th April to 2nd May. Ecopilas had stands at the exits and finish lines of the stages, and worked with hotels in the areas where the competition took place to boost public participation in collecting used batteries.



THE FOUNDATIONS' OWN CAMPAIGNS

Chocolate Room



The Ecopilas foundation collaborated with the 11th edition of the **Madrid Chocolate Room**, held from 20th to 23rd October, demonstrating to visitors that recycling batteries is as easy and pleasant as enjoying a bar of chocolate. So, everyone who took batteries for recycling to the foundation's stand was awarded with an original battery-shaped chocolate.

In addition, they received information about where and how to contribute to battery recycling and why it is important, and they were given a handy cardboard box for storing batteries at home before taking them to the appropriate waste containers.



11th Hortaleza School Cross Country

Ecopilas sponsored the 11th edition of the **School Cross Country in the Hortaleza district**, which is the largest school race in the Community of Madrid and in which more than 5,000 primary-age children from the district's state and private schools participated. For another year, the environmental foundation turned the event into a celebration of sport and recycling, providing containers for participants to deposit their batteries in and rewarding their contributions.



Rugby in Pozuelo



Ecopilas collaborated for another year with the Pozuelo Rugby Club by sponsoring the 8th Autumn Children's Rugby Tournament in October, in which eight teams participated. In doing so, Ecopilas promotes battery recycling among the youngest fans of a most demanding sport.

Extremadura-Ecopilas MTB

Given the excellent response from cycling fans to the battery recycling dissemination campaigns that Ecopilas runs at events like the Tour of Spain, the foundation sponsored the Extremadura professional mountain biking team for the first time in 2016.

The team, which competed under the denomination '**Extremadura-Ecopilas**', promoted the collection of 360 kilos of batteries in public awareness actions that took place in the context of a range of events, including the Monfragüe Biosphere Reserve MTB race and the Titán Villuercas. It also contributed to the extension of the foundation's collection point network in the region.



THE FOUNDATIONS' OWN CAMPAIGNS

Murcia and Extremadura ECO Awards



In March, the Ecofimática Foundation announced the **first Murcia and Extremadura ECO Awards**, in partnership with the regions' respective Environment Departments. These accolades form part of an environmental information and awareness campaign launched by Ecofimática in both autonomous communities in 2014 with a view to increasing the volume of recycled equipment and the number of distributors who are members of the collection network.

So, in **Murcia**, the Foundation removed 47.4 tonnes of waste via this business channel, in a 30% increase on the two previous years, and increased the number of member distributors by 35%. In Extremadura, 73.6 tonnes of waste were achieved, an increase of 180% and a 100% growth in the commercial collection network.

The ECO Awards ceremony was honoured by the attendance of María Encarnación Molina, director general of the Government of Murcia's Department of Quality and Environmental Protection, and Esperanza Martínez Flores, head of the Government of **Extremadura** Environmental Protection Service.



THE SCRAPS AND AUTONOMOUS REGIONS' CAMPAIGNS

Apilo XII 2nd Edition (Catalonia)

The second edition of the **Apilo XII** campaign, launched by the Catalan Waste Agency and the battery management collective systems, closed with the collection of more than 36 tonnes of waste batteries, thanks to the collaboration of Catalan schools.

The two that collected the most batteries were schools in the Garrigues district: Soleràs (Soleràs) and La Lavanda (Juncosa), which collected the most batteries per pupil. Second and third places went to the Tivenys municipal club (Baix Ebre) and Vilamajor de Bovera school (Garrigues). They all received vouchers to exchange for classroom materials.

Furthermore, in 2016, Apilo XII doubled the number of training sessions on the importance of selective battery collection, with 220 workshops over 195 centres.



THE SCRAPS AND AUTONOMOUS REGIONS' CAMPAIGNS

RAEEcíclos (Aragón)

The Government of Aragón, in collaboration with the Ecoasimilec foundation and the region's other authorised collection systems, launched a travelling exhibition to raise the Aragonese public's awareness of the need for electronic waste management.

Under the title '**RAEEcíclos**', and using audiovisual resources, objects and signs, the exhibition offers a fun way to learn about how electronic devices turn into waste and how important it is to recycle them appropriately when they reach the end of their useful life in order to reduce the environmental impact and save raw materials and energy.

The exhibition, which opened on 12th September 2016 in Zaragoza, will visit 27 municipalities in Aragón and will be completed with a series of educational workshops for secondary school pupils, 5th and 6th year primary school pupils and cultural and consumer associations, over the course of 2016-17.



Recicla (Valenciana)



Mislata, Vall d'Uixó and Burriana are some of the Valencian municipalities that joined the second edition of the '**Recicla**' campaign in 2016, with the aim of contributing to the proper recycling of electronic appliance waste.

'Recicla' has been promoted by the Valencian Community's Department of Agriculture, Environment, Climate Change and Rural Development and the collective electronic waste collection systems operating in the region, including Ecofimática and Ecoasimelec.



Electroimplicate (Andalusia)

The first edition of the **Electroimplicate Awards**, framed within the 'Nature doesn't need us to throw it a line' campaign, took place on 21st April. This initiative to promote proper management of small electrical appliances in Andalusia is framed by the collaboration agreement between the Government of Andalusia's Department of Environment and Land Planning, the Andalusian Electrical Appliance Federation (FAEL) and the collection systems.

Throughout Andalusia, 49 schools and more than 800 electric appliance businesses participated in the **Electroimplicate Awards**. This first edition recognised around twenty Andalusian individuals, businesses and organisations for their involvement in and commitment to recycling electronic waste and preserving the environment.



Charge your batteries! (Lanzarote)

2,382 kilos of batteries were recycled thanks to the 'Charge your batteries!' competition, supported by **Lanzarote Council** and promoted by Ecopilas. This second edition, which involved 46 of the island's schools, managed to collect 20% more kilos of batteries in 2015-16 than in the previous year.

The Capellanía del Yágabo pre-school centre and primary school once again claimed the top prize, with 516 kilos of batteries. Also, the Muñique pre-school centre and primary school, which has just 9 pupils, won the prize for 'Most batteries collected per pupil' for collecting 54 kilos.



06

**SOCIAL
COMMITMENT
AND CSR**

Real Madrid Foundation

The Real Madrid Foundation's Sport and Social Schools Tournament is already one of the best-attended events in the used battery recycling campaign conducted by the Ecopilas environmental foundation.

In the 2016 edition, more than 2,000 children from the 20 Community of Madrid schools participating in the tournament collaborated to contribute more than 1,000 kilos of batteries.



Ecomar Foundation



Students and members of the 64 yacht clubs and sailing schools that participated in the '**Charge up your batteries and recycle**' campaign, conducted by Ecopilas and the **Ecomar Foundation**, collected 1,100 kilos of batteries in the summer of 2016, 10% more than in the same period in 2015.

In 2016, for the second consecutive year, Ecopilas and Ecomar promoted this campaign to boost the protection of our coastlines through battery recycling, installing containers in the yacht clubs, sailing schools, marinas and other yachting centres across Spain that are participating in the Grímpola Ecomar environmental education programme.

In addition, as in the first edition, Ecopilas and Ecomar awarded sports equipment to the three clubs that collected the most. With 154 kilos, the Royal Sailing Club of Algeciras won first prize, while second and third places went to the Royal Sailing Club of Palma de Mallorca and the Cataventos de Corcubión Yacht School (A Coruña), for their contributions of 137 and 124 kilos of batteries respectively.



Adapted Descent of the Sella

A total of 145 sportspeople with disabilities participated in the **23rd Adapted Descent of the Sella**, organised by the Principality of Asturias Sports Federation for People with Physical Disability (FEDEMA). For another year, Ecopilas sponsored this competition, which is now established as the star event of the national canoeing calendar, and awarded one of the sporting achievement prizes.



Bobath Foundation Agreement renewal



Comprehensive care for people with cerebral palsy

In 2016, Ecofimática renewed its commitment to the Bobath Foundation, which handles care and treatment for children suffering from cerebral palsy.

Ecofimática collaborates to provide the classrooms at the Bobath Centre in Spain with novel technological tools for communication, information and learning to be used by the children to foster their social and family integration, improving their relationship with their immediate environment.

The adapted technological equipment, funded with the collaboration of Ecofimática, comprises eye movement mouses, interactive blackboards and IT equipment, allowing the students at the centre to significantly improve their communication capability once they have been trained in their use.

Apadis Foundation Agreement renewal



The APADIS Foundation is an association of parents of people with learning disabilities in San Sebastián de Los Reyes, seeking to fulfil the basic educational, leisure, vocational training and employment needs of their children.

In 2016 Ecofimática participated in the Foundation's Crossing Paths programme for people with learning disabilities, the key aim of which is to include such people in normalised activities already on offer in the municipality and its surroundings.

Argadini Association

Recyclia and its foundations, Ecofimática and Ecopilas, have collaborated throughout the year with the Argadini Association, whose purpose is attending to people as risk of exclusion for physical or psychological reasons.

Several members of the Association participated actively in EcoEncuentro 2016 and the Cycling Tour of Spain, supporting us by welcoming participants and distributing documentation etc.



Almar Foundation

In 2016 the Ecopilas Foundation again sponsored the 2nd CHARITY NIGHT RACE, organised by the Almar Foundation in the municipality of Boadilla del Monte. The Foundation, created in February 2011, is dedicated to researching Friedrich's ataxia and other degenerative ataxias.



07

COLLABORATIVE
FOCUS

In pursuit of our aim to offer the highest quality in its services to the more than 1,300 member companies of its Foundations and the public and private bodies we work with, Recyclia seeks to extend and improve collaboration agreements with various entities to create a major and constantly growing network.

More than 2,975 agreements with distributors and other entities to bring collection closer to the public and end users.

1,265 framework agreements with autonomous regions and local entities for the collection and recycling of WEEE and batteries throughout Spain.

Creation and development of a common system for municipal collection together with other collective systems to optimise the management of recycling facilities (Ofipilas and Ofirae).

Agreements with such associations as FENIN, FACOMARE, ANFAC/ANIACAM, ANESDOR, AFME and AMBE to offer specific solutions for the different sectors represented by these bodies.

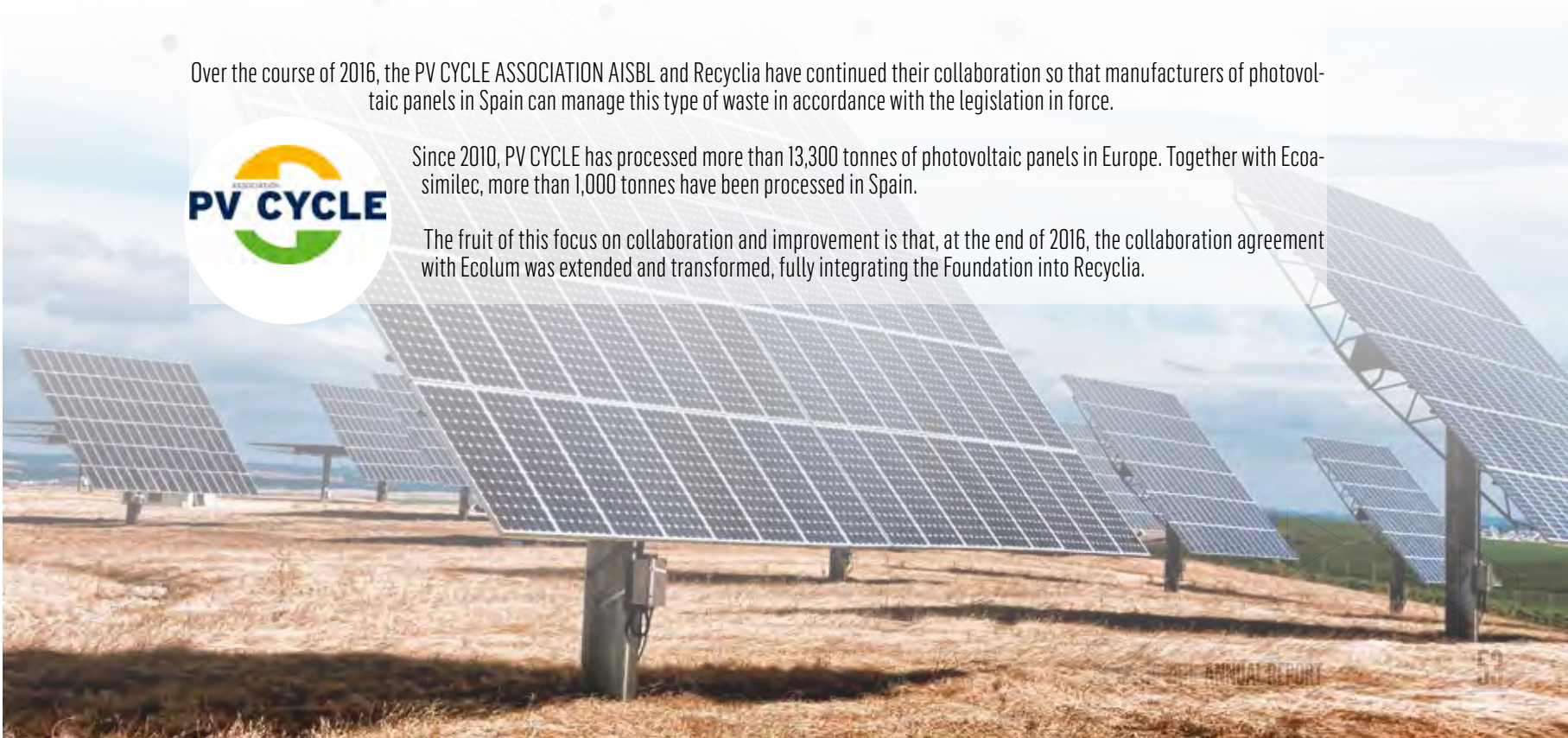


Over the course of 2016, the PV CYCLE ASSOCIATION AISBL and Recyclia have continued their collaboration so that manufacturers of photovoltaic panels in Spain can manage this type of waste in accordance with the legislation in force.



Since 2010, PV CYCLE has processed more than 13,300 tonnes of photovoltaic panels in Europe. Together with Ecoa-similec, more than 1,000 tonnes have been processed in Spain.

The fruit of this focus on collaboration and improvement is that, at the end of 2016, the collaboration agreement with Ecolum was extended and transformed, fully integrating the Foundation into Recyclia.



08

INTERNATIONAL
international presence
PRESENCE

Recyclia and its Foundations participate actively in a number of international forums in which the experiences of waste collection and recycling in different countries around the world are shared. Over the years, the platform and its Foundations have become an international referent in the electrical and electronic waste and used battery management sector, thanks to their broad experience and management model in the field.

6th Green Standards Week of the UIT (Union of International Communications)

Recyclia was represented by its CEO, José Pérez, at the sixth edition of the Green Standards Week, organised by the International Telecommunication Union and held in Montevideo, Uruguay in September. In his presentation, titled 'The contribution of e-waste to the circular economy: areas of activity, cost structure, figures from Europe and Latin America', included in the panel session on 'The fate of electronic waste in the circular economy', José Pérez took the opportunity to explain Spain's example of recycling electronic waste and batteries, and the Tragamóvil experience, presenting the cost structure of Recyclia and its Foundations, as well as the permanent work carried out in communication and dissemination of recycling best practice.



6TH GREEN STANDARDS WEEK

The Green Standards Week has been celebrated since 2011 and it acts as a global platform for debate and knowledge exchange, with the aim of achieving greater awareness with regard to the importance and opportunities of using information and communication technologies (ICT) to protect the environment and accelerate the transition toward smart, sustainable cities. So, this week brings together major specialists in the field: high-level politicians, engineers, smart city planners, civil servants, regulatory bodies, standardisation experts, academic institutions and more.



Eucobat



The Ecopilas foundation, together with the European systems for battery collection Bebat (Belgium), Corepile (France); GRS (Germany), SNRB (Romania) and Stibat (Netherlands), has participated in a project that analyses the average life of portable batteries.

The study, designed by Eucobat, ran throughout 2015 and 2016 and analysed more than 100,000 portable batteries from different technologies, tracing their life cycle from manufacture and placement on the market to collection for subsequent treatment. The objective was to establish the average time it takes for various types of batteries to reach recycling containers and the amount discarded each year.

To do this, the various waste battery technologies were analysed, such as li-ion batteries whose useful life can exceed six years. Currently, the formula for waste batteries generated only takes into account the batteries released to market in the last three years.

This study, in which Ecopilas has played an active role, will help collective systems and the European authorities to set more realistic environmental targets.



ICBR 2016: 21st International Congress for Battery Recycling

José Pérez and Gonzalo Torralbo, CEO and General Secretary of the Ecopilas Foundation, participated in the 21st International Congress for Battery Recycling (ICBR) which took place in Amberes, Belgium, in September.

The main topic was the recycling of lithium batteries, as this technology has experienced a boom in the battery market, in both industrial use and the electrical vehicle and bicycle sector, and an analysis of the nature of its transport and treatment is needed.

Speakers at the congress also analysed the current and future trends in battery recycling, in Europe, the USA, Canada, Japan and Australia, and their new uses, given the growing relationship between batteries, e-mobility and sustainable transport, and the need for new technologies and new forms of treatment and recycling to return waste to productive activity in order to produce a new vision of the contribution of battery recycling to the circular economy.

The sessions and debates at the congress were complemented by a commercial exhibition area where various modes of waste treatment and transport were displayed. Keen interest was shown in Sparta's electric bicycles with Smart Ion Technology, and the most popular car, the Tesla Roadster, the first completely electric sports car, manufactured by the American company Tesla Motor.



IARC2016 European Congress

Ecopilas has played an active role in the #IARC2016 International Automobile Recycling Congress, which addresses the recycling of car parts and batteries, organised by @icm_events and held in Berlin in March.

Our CEO and general secretary participated in several round tables which dealt with issues including:

- Waste gasification for energy generation, new plants with much higher yield.
- The exponential growth of electric car use means that more than 15 million will be on Europe's roads by 2020.
- The search for a second purpose for lithium-ion car batteries where mobility is not necessary, and the possibility of an electric network.

For our part, Ecopilas presented itself to the professional participants as a solution for electric car battery recycling, contacting practically all the brands that will be present in Spain in the medium term.



Contact was maintained with battery recycling plants such as REDUX and SNAM, with car manufacturers and with Spain's Integrated Car Recycling System, SIGRAUTO.

The congress in Berlin brought together the different agents that make up the scrap vehicle recycling chain such as car and metal manufacturers, scrap metal and plastic dealers, recyclers, dismantlers, shredders and politicians and policy-makers from all of Europe.



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