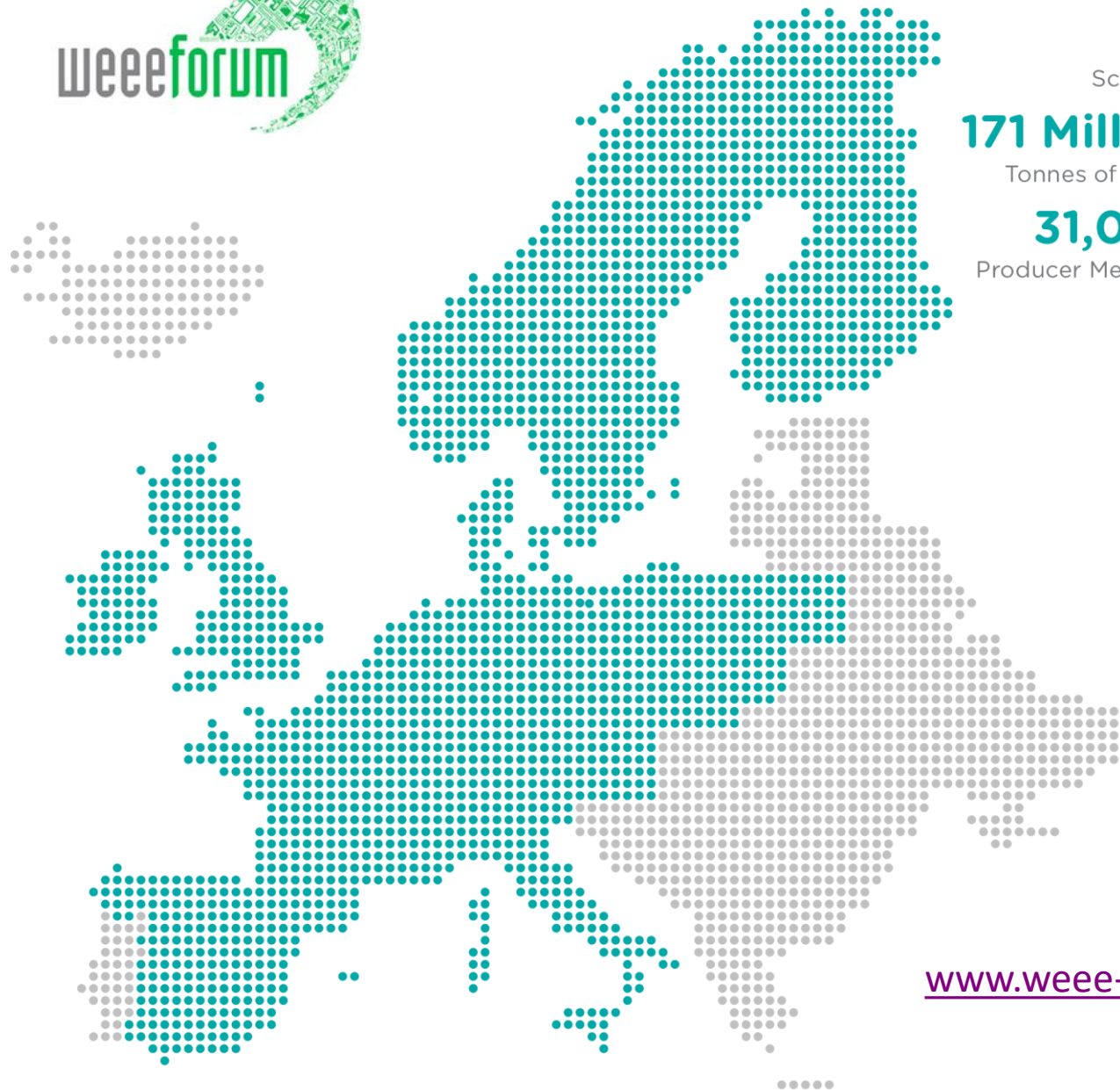


# WEEE IRELAND

## How do WEEE divide 10 into 6...and move to Open Scope in Ireland ?





**30**  
Schemes

**171 Million**  
Tonnes of WEEE

**31,000**  
Producer Members

[www.weee-forum.org](http://www.weee-forum.org)



## WEEE Europe AG

Konrad-Zuse-Platz 8  
D- 81829 München

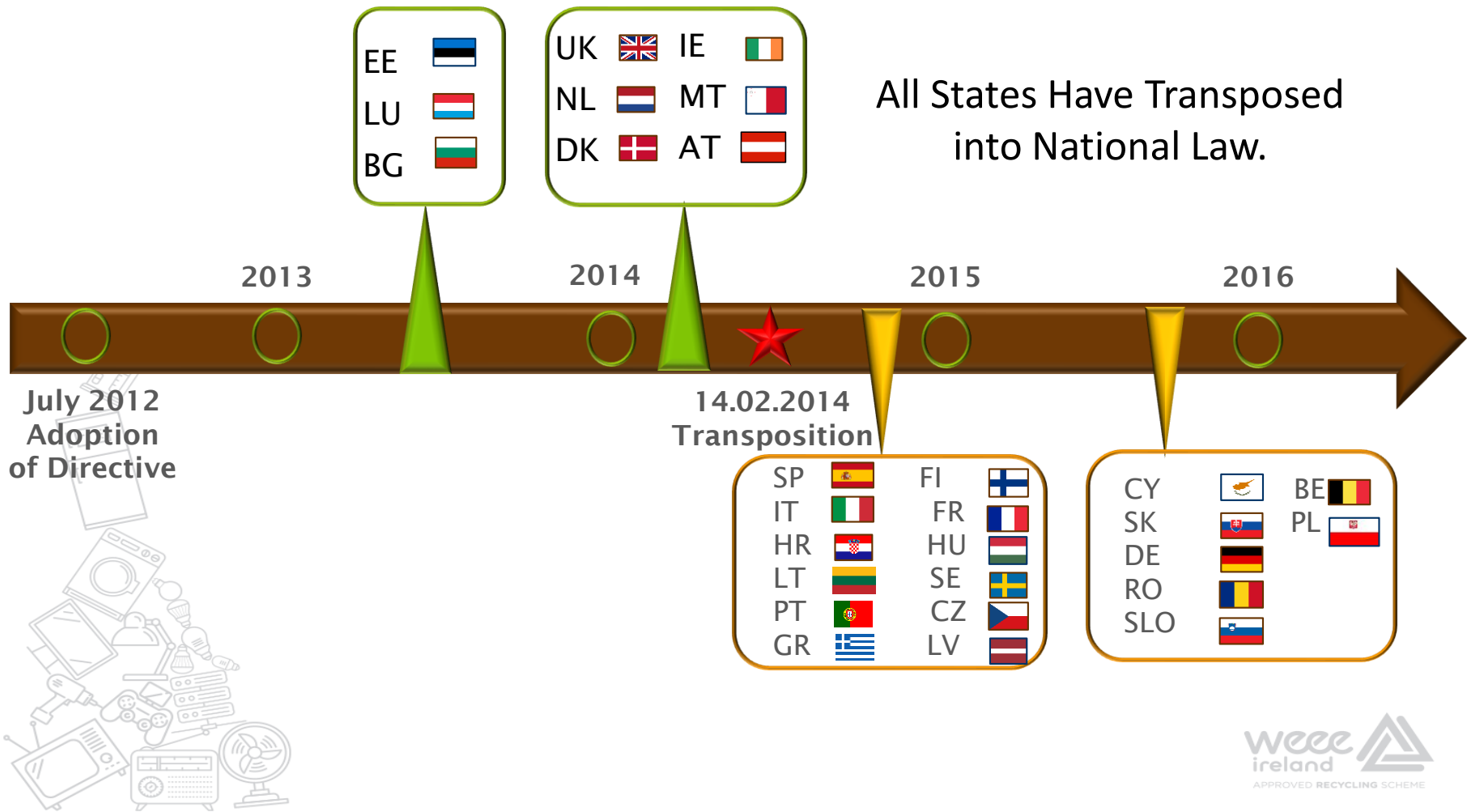
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 Austria	 Belgium	 Denmark	 Germany
 Finland	 France	 Great Britain	 Ireland
 Italy	 Netherlands	 Norway	 Poland
 Sweden	 Switzerland	 Switzerland	 Slovakia
 Spain	 Czech Republic		



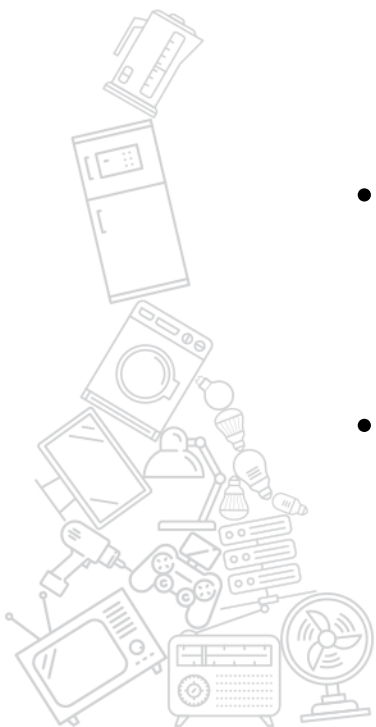
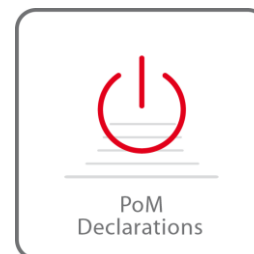
# WEEE 2.0 TRANSPOSITION



# Challenges

## Different Producer Requirements

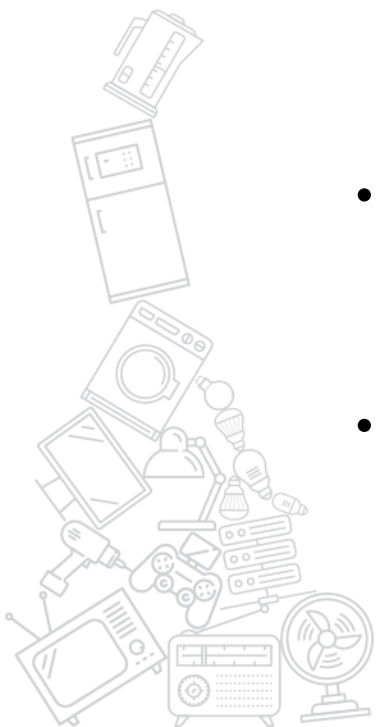
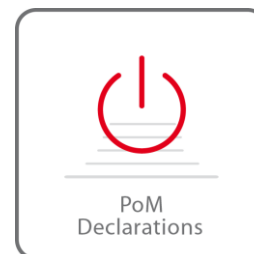
- Categorisation
- Scoping
- Declarations
- Reporting Frequencies

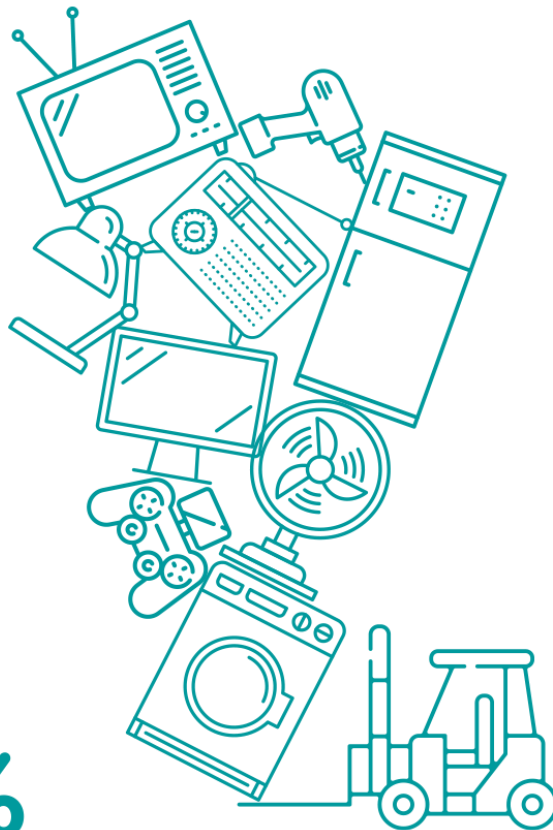


# Challenges

## Different Producer Requirements

- Categorisation
- Scoping
- Declarations
- Reporting Frequencies





# 65%

Ireland must collect a minimum of **65%**  
**of EEE placed on the market** by 2019

# CURRENT UNBALANCES IN EEE VS WEEE

1. Products with basic function not dependent on electricity may end up in the WEEE collection channel.
2. Reporting/Recycling of WEEE as scrap
3. Household Luminaires not reported as EEE but collected
4. Components and spare parts that are not declared as EEE but collected and treated as WEEE.
5. Items reported as B2B are collected in the B2C stream
6. Collection of scavenged WEEE
7. Used EEE that is exported and never arises as WEEE





# Previous Grey areas.

Components/not dependent on electricity

Electronic card door  
locker:



Furniture with  
electronics



Pump



Emergency stop device:



Clothes with lights



# Other Grey areas.

Large Equipment –currently being reported?



*Stair case lift*



*Servers*



*Radiotherapy equipment*

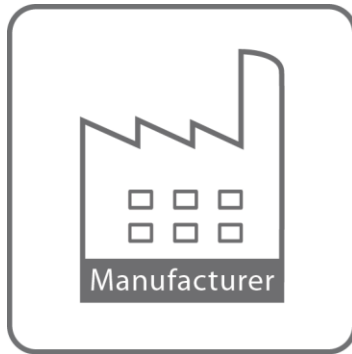


# What are the products in scope today?

1. Large Household Appliances
2. Small Household Appliances
3. IT and Telecommunication
4. Consumer Electronics / Photovoltaic
5. Lighting Equipment
6. Electrical and Electronic Tools
7. Toys / Leisure and Sports Equipment
8. Medical Appliances
9. Monitoring and Control Equipment
10. Automatic Dispensers



# Who is a producer?



# Important Issues to keep in mind as from 15.08.2018

- Extension of scope to **all Electrical and Electronic Equipment** (excluding few specific exemptions) from 2018 onwards – open scope
- Replacement of the previous 10 categories to **6 new ones**
- Equipment to be used both in households and by professionals (Dual use) is considered **B2C**
- **Increase of targets** for collection and recycling rates
- **Possibility of appointing** a natural or legal person as **Authorised Representative** to ensure the obligations of Producers established in another Member State



# What are the products in scope?

## 6 Categories (Annex 3)

1. Temperature Exchange Equipment
2. Screens, Monitors and equipment containing screens having a surface greater than 100 cm<sup>2</sup>
3. Lamps
4. Large Equipment (> 50cm)
5. Small Equipment
6. Small IT and telecommunication equipment (no external dimension more than 50 cm)

# What are the products in scope?

## In a nutshell:

- Products that require electrical current or electromagnetic fields for operation...
- $< 1000\text{V (AC)}$  or  $< 1500\text{V (DC)}$ ...
- Are not subject to a legal exemption...

# Which exemptions exist?

## Currently (according to Article 2.3 WEEE Directive)

- **equipment which is necessary for the protection of the essential interests of the security of Member States, including arms, munitions and war material intended for specifically military purposes**
- **equipment which is specifically designed and installed as part of another type of equipment** that is excluded from or does not fall within the scope of this Directive, which can fulfil its function only if it is part of that equipment
- **filament bulbs**



# Which exemptions exist?

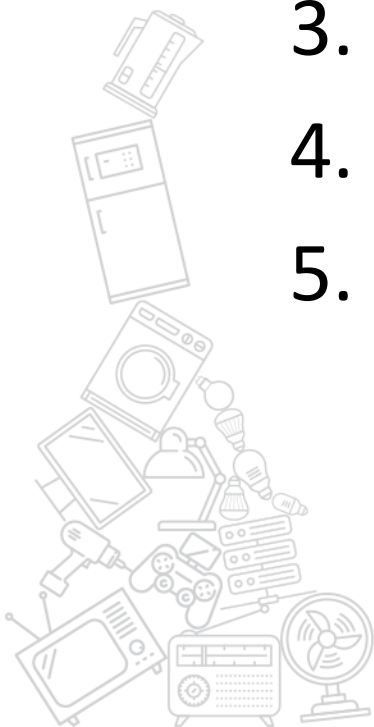
In addition as from 15.08.2018 (according to Article 2.4 WEEE Directive)

- equipment designed to be sent into space
- **large-scale stationary industrial tools**
- **large-scale fixed installations**, except any equipment which is not specifically designed and installed as part of those installations
- **means of transport for persons or goods**, excluding electric two-wheel vehicles which are not type-approved
- **non-road mobile machinery** made available exclusively for professional use
- **equipment specifically designed solely for the purposes of research and development** that is only made available on a business-to-business basis
- **medical devices and in vitro diagnostic medical devices**, where such devices are expected to be infective prior to end of life, and active implantable medical devices

# Open Scope. Challenges



1. How will open scope affect collection targets?
2. Communication to producers
3. Potential new freeriders.
4. Lack of harmonization in scope
5. Lack of harmonization in classification



# Generators and pumps



# Cooling & heating

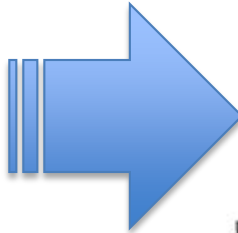




# Wiring accessories (switchgears, sockets, etc)



# From a credit card to a CNC milling machine





6 Categories:  
What are they doing in the rest of Europe?

# DEFRA in the UK

looking at alternative options for the introduction of Open Scope

## Option 1

This would involve continuing with the existing 2013 WEEE Regulations without any amendments, which currently require that from 1st January 2019, EEE and WEEE will be reported under the new 6 categories of EEE set out in the WEEE Directive

## Option 2

This would involve amending the 2013 WEEE Regulations to retain the current 14 categories, with the ability to allocate EEE previously out of scope to one of the 14 categories

## Option 3

Option 1 with an reporting utilising three sub-categories based on the treatment technologies used for different types of WEEE

The categories, including 3 sub-categories are described below.

Temperature Exchange Equipment		Screens, Monitors & Equipment Containing Screens Surface area >100cm <sup>2</sup>	Lamps	Large Equipment Any External Dimension > 50cm			Small Equipment No External Dimension > 50cm	Small IT & Telecom No External Dimension > 50cm
1	2	3	4	5	6	7	8	9
Those containing refrigerants	Those not containing refrigerants			PV	Large household Equipment (LDA)	All Other		

[https://consult.defra.gov.uk/environmental-quality/weee-regulations-amendments/supporting\\_documents/WEEE%20Regulations%20Amendments%20Open%20Scope%20consultation%20document%202017.pdf](https://consult.defra.gov.uk/environmental-quality/weee-regulations-amendments/supporting_documents/WEEE%20Regulations%20Amendments%20Open%20Scope%20consultation%20document%202017.pdf)





# Austria

In Austria there are 5 categories since 2005:

- Large appliances;
  - Cooling appliances, refrigerators and freezers;
  - Display screen equipment, including CRT appliances
  - Small electrical appliances and
  - Gas Discharge lamps.
- 
- Since 2014 there is an additional category for PV-Modules.

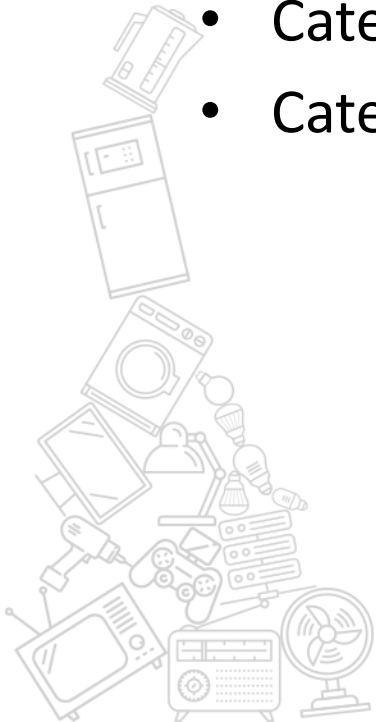


# France

“In France, some subcategories have already been created to anticipate the allocation of products to future categories.

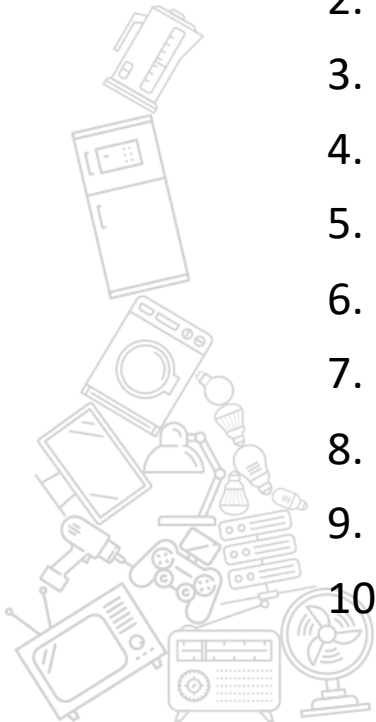
Thus, categories 01, 03 and 04 have been split in two :

- Category 1 => Category 1A (C&F) and 1B (LHA)
- Category 3 => Category 3A (Screens) and 3B (other)
- Category 4 => Category 4A (Screens) and 4B (other)”



# In Ireland Producers Report each month in 10 Categories and their subcategories to PRL Blackbox each month by unit & weight

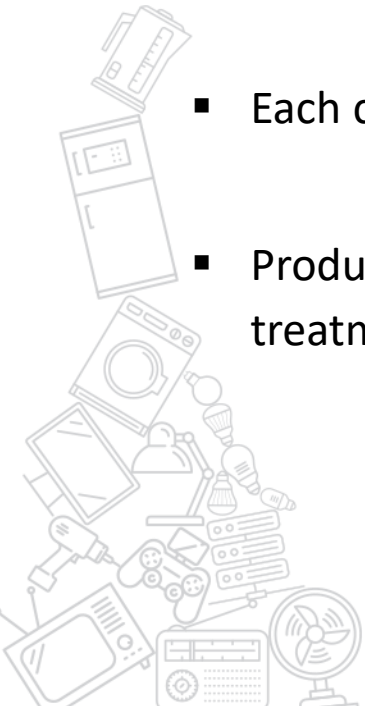
1. Large Household Appliances
2. Small Household Appliances
3. IT and Telecommunication
4. Consumer Electronics / Photovoltaic
5. Lighting Equipment
6. Electrical and Electronic Tools
7. Toys / Leisure and Sports Equipment
8. Medical Appliances
9. Monitoring and Control Equipment
10. Automatic Dispensers

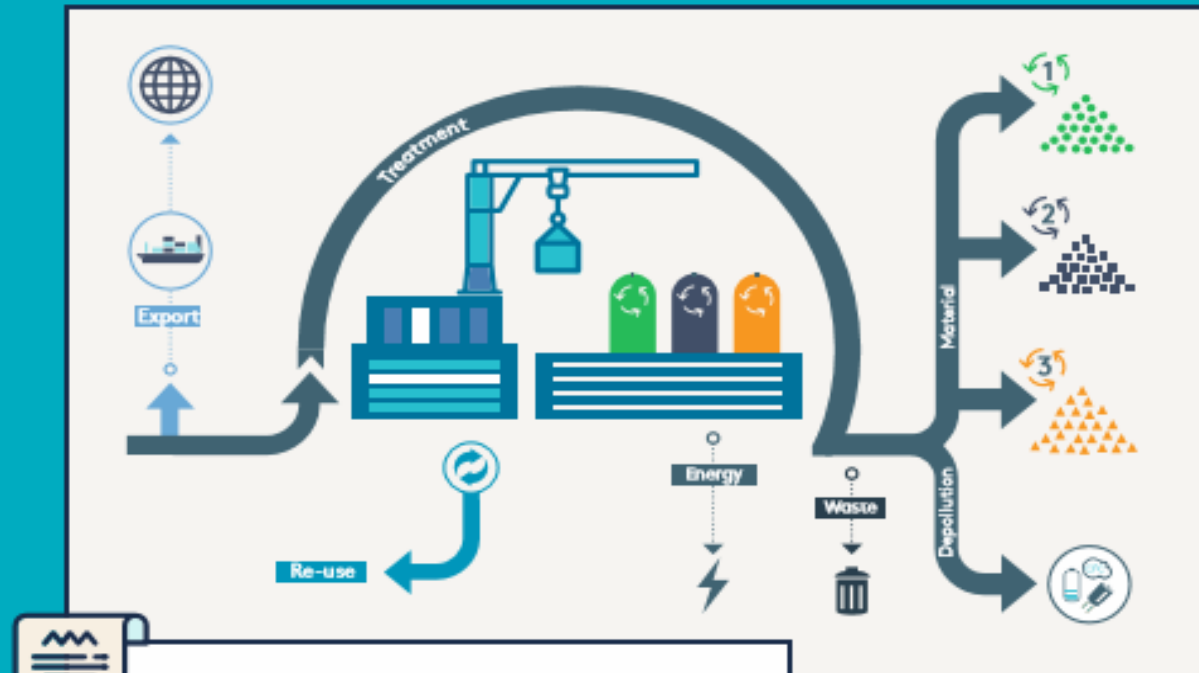


# WEEE Ireland collects for recycling in 5 families

- Fridge Freezers (FF)
- Large Household Appliances (LHA)
- Screens (CRT & FPD)
- Lamps (CFLs & FLS)
- Mixed WEEE (SHA)

- Each collection stream has its own dedicated recycling process
- Producers and Schemes have mandatory **WEEELABEX/EN 50625** certified treatment requirements for WEEE in Ireland





**EN 50625-1; TS 50625-3-1**

General treatment and depollution requirements

**EN 50625-2-1; TS 50625-3-2**

Lamps

**EN 50625-2-2; TS 50625-3-3**

Displays (CRT FPD)

**EN 50625-2-3; TS 50625-3-4**

Temperature exchange equipment

**EN 50625-2-4; TS 50625-3-5**

Photovoltaic panels

**TS 50625-5 \***  
Final treatment

<http://www.eera-recyclers.com/highlights/brochure-european-standards-waste-electrical-and-electronic-equipment>









# WEEE Ireland samples to convert 5 to 10

- Examples include
  - ratio of IT Monitors to Televisions & CRT to FPD
  - Microwaves from mixed WEEE to Category 1 LHA
  - Luminaires from mixed WEEE to Category 5 Lighting Equipment
  - Consumer Equipment, Tools & Toys from mixed WEEE to Category 4
  - IT & T from mixed WEEE to Category 3
  - Etc.....

## WHY SAMPLE & CONVERT?

- Collection rate monitoring per category
- Recovery rates as required under the WEEE Directive
- For costing and fee allocation purposes to Members









## National Data & National Collection Rates

Total

2016 Tonnes  
**66% 45,662**

Total % Takeback 2016

**69%**

Fridge / Freezers  
2016 Tonnes - 7,106

**83%**

Large Household Appls  
2016 Tonnes - 21,743

**26%**

Small Household Appls  
2016 Tonnes - 2,952

**62%**

IT&T 2016 Tonnes - 2,763

**231%**

Monitors  
2016 Tonnes - 721

**59%**

Consumer Equipment  
2016 Tonnes - 2,439

**169%**

TVs  
2016 Tonnes - 5,170

**38%**

Lamps  
2016 Tonnes - 417

**33%**

Luminaires  
2016 Tonnes - 722












**40%**

Tools  
2016 Tonnes - 1,419

The collection rate is calculated based on the total weight of WEEE collected in the respective year expressed as a percentage of the average weight of EEE placed on the market (PoM) in the three preceding years.

# WEEE RECOVERY RATE

## WEEE Ireland Recycling & Data

Category	1	2	3	4	5	5	6	7	8	9	10
Description	Large Household Appliances	Small Household Appliances	IT & T Equipment	Consumer Electronics	Gas Discharge Lamps	Luminaires	Electrical Tools	Toys & Sports Equipment	Medical Devices	Monitoring & Control Equipment	Automatic Dispensers
											
EU Target Recovery Rate	85%	75%	80%	80%	N/A	75%	75%	75%	75%	75%	75%
WEEE Ireland Recovery Rate	96%	95%	95%	96%	N/A	95%	95%	95%	95%	95%	95%
EU Target Component Material Recycling & Reuse	80%	55%	70%	70%	80%	55%	55%	55%	55%	55%	55%
WEEE Ireland Component Material Recycling & Reuse	81%	73%	75%	83%	88%	73%	73%	73%	73%	73%	73%

# Challenge!

- **7 year agreement** with DCCAE & industry on visible fee system
- Funding agreements for
  - Retail collection system
  - *We'll take it back* marketing campaign
  - Local Authority CA Sites
  - EPA Research & Enforcement support
- WEEE Ireland Financial model 2014 to 2022 (historical WEEE)

....all based on existing 10 category model



# Propose

- Transitional model until 2022
- Allocate existing sub categories into new 6 categories

## -Positives

- Limit the changes required in reporting and IT configuration
- Allows existing visible fee and non-visible fee subcategories to remain
- Arrive at solution as soon as possible to give time to change systems

## -Challenges

- Extends the amount of sub categories
- Potentially not the same as other EU countries



1. Large Household Appliances	Visible Environmental Management Cost & Descriptions	New
1.1 Refrigeration	€10.00	1.1.1
All Refrigeration	All side by side/American style refrigeration	1.1.1
1.2 Refrigeration	€5.00	1.1.2
All Refrigeration	All larder and two door (under/over configuration) appliances	1.1.2
Chest Freezers	All chest freezers above 150 litres	1.1.2
1.2a Refrigeration	€5.00	1.1.2
All Refrigeration	All under counter/table top refrigeration	1.1.2
Chest Freezers	All chest freezers below 150 litres	1.1.2
1.3 Large Appliances	€5.00	4.1.3
Washing machines	Washer dryers, Washing machines	4.1.3
Clothes dryers	Clothes dryers	4.1.3
Dish washing machines	Dish washing machines	4.1.3
Cooking appliances	Combination oven, Oven, Gas cooker with electric / electronic element, Free standing slot in & hi backs	4.1.3
Electric stoves	Electric stoves	4.1.3
Other large appliances used for cooking and other processing of food	Rotisseries	4.1.3
Other large appliances	Sun bed	4.1.3
1.4 Medium Appliances	€0.00	4.1.4
Microwaves	Microwaves	4.1.4
Electric hot plates	Electric hobs & hot plates	4.1.4
Electric radiators	All electric radiators (including portable)	4.1.4
Air conditioner appliances	Air purifier, Air humidifier, Climate control appliance, Air dehumidifier	4.1.4
Other medium appliances	Thermoelectric cooler or dispenser	4.1.4
1.5 Other Appliances	€0.00	4.1.5 or 5.1.5
Electric fans	Ceiling mounted fan, Wall mounted fan, Desktop and/or Free-standing fan	4.1.5 or 5.1.5
Electric heating appliances	Electric heating appliances, Electric fan heater	4.1.5 or 5.1.5
Other appliances for heating rooms	Portable heater other than electric radiator, Storage heater	4.1.5 or 5.1.5
Other fanning, exhaust ventilation and conditioning equipment	Other fanning, exhaust ventilation and conditioning equipment,	4.1.5 or

2. Small Household Appliances	Visible Environmental Management Cost & Descriptions	NEW
2.1 Floor care	€0.00	4.2.1
Vacuum cleaners	Vacuum cleaners	4.2.1
Other large appliances for floor care	Floor and Carpet cleaners, Floor polisher, Steam cleaner	4.2.1
2.2 Other Small Household Appliances	€0.00	5.2.2
Carpet sweepers	Carpet sweepers	5.2.2
Other appliances for cleaning	Other appliances for cleaning, Cordless handheld vacuum cleaner	5.2.2
Appliances used for sewing, knitting, weaving and other processing for textiles	Wool defuzzer, Knitting machine	5.2.2
Irons and other appliances for ironing, mangling and other care of clothing	Active ironing board, Iron, Steam iron with or without external steam generator, Trouser press	5.2.2
Toasters	Toasters, Sandwich toasters	5.2.2
Fryers	Deep fat fryer	5.2.2
Grinders, coffee machines and equipment for opening or sealing containers or packages	Coffee grinder, Coffee maker, Can opener	5.2.2
Electric knives	Electric knives	5.2.2
Electric scales	Bathroom scales, Kitchen scales	5.2.2
Small kitchen appliances	Bread makers, Kettles, Barbecue, Blender, Bottle and/or cup warmer, Can opener/Knife sharpener, Cheese maker, Chopping device, Dish warmer, Electric wok, Egg boiler, Film sealing device, Fondue set, Food processor, Fruit squeezer, Gourmet set, Hotdog machine, Ice-cream machine / Sorbet machine, Ice-maker, Juice centrifuge, Kitchen timer, Milkshake maker, Mixer, Pierrade (stone grill), Pizza pan, Plate warmer, Popcorn maker, Potato peeler, Raclette set, Rice cooker, Salt and pepper set, Sauce maker, Slicer, Steamer, Steriliser, Tea machine, Vacuum packer, Waffle iron, Water filter, Yoghurt maker, Wine thermometer	5.2.2
Other small household appliances	Other small household appliances, Electric blanket	5.2.2
2.3 Miscellaneous Small Household Appliances	€0.00	5.2.3
Appliances for hair-cutting, hair drying, shaving, massage and other body care appliances	Beard trimmer, Electric razor, Hair trimmer, Nose and ear trimmer, Curler set, Curling iron/tongs, Depilatory kit, Electric slimming pants, Facial massage appliance, Facial tanner, Hair colouring appliance, Hair dryer, Hair drying hood, Hair styler, Manicure and/or pedicure appliance, Aromatherapy appliance, Facial cleanser, Facial sauna, Foot massage appliance, Infrared lamp, Massage appliance, Muscle developing device, Acupuncture appliance, Electric toothbrush and other oral hygiene equipment	5.2.3
Radio Alarm Clock	Radio alarm clock	5.2.3
All other small appliances	Insect repellents and/or traps, Rodent repellents, Animal training and grooming appliances, Electrochemical insect repellent diffusers, Fragrant diffusers/Air fresheners, Digital safe	5.2.3
2.4 Clocks and Watches	€0.00	5.2.4
Clocks, watches and equipment for the purpose of	Alarm clock, Individual clock, Stopwatch, Clocks, Watches	5.2.4

3. IT and Telecommunications Equipment	Descriptions	NEW
3.1 Centralised data processing		4.3.1
Mainframes	Mainframes	4.3.1
Minicomputers	Minicomputers	4.3.1
Printer units	Printer units	4.3.1
Other centralised data processing equipment	Other centralised data processing equipment (e.g. routers)	4.3.1
3.2 Personal computing		6.3.2
Personal computers (CPU, mouse and keyboard included)	Desktop personal computer	6.3.2
Laptop computers	Laptop personal computer	6.3.2
Notepad computers	Notepad computers	6.3.2
Monitors	CRT Monitors, Flat panel	2.3.2
Other personal computing equipment (including accessories)	Keyboard, Mouse, External drives, Modem, Games computer, Handheld computers, Organiser, Scanning pen, Webcam, DSL Modem, Access cards, Personal digital assistant, USB Key	6.3.2
3.3 Printing and Copying Equipment		
Printers	Printers, Video printer, Camera printer, Laser printer, Ink - based printer	4.3.3 or 6.3.3
Copying equipment	Photocopiers, Scanners	4.3.3 or 6.3.3
3.3a Electronic Printer Cartridges		6.3.3
Electronic Printer Cartridges	Printer cartridges which contain electrical parts and are dependent on electric currents and electromagnetic fields to function properly	6.3.3
3.4 User terminals and systems		6.3.4
Electrical and electronic typewriters	Electrical and electronic typewriters	6.3.4
Pocket and desk calculators and other products and equipment for the collection, storage, processing, presentation or communication of information by electronic means	Pocket and desk calculators and other products and equipment for the collection, storage, processing, presentation or communication of information by electronic means	6.3.4
Facsimile	Facsimile	6.3.4
Telex	Telex	6.3.4
Telephones	Telephones	6.3.4
Pay telephones	Pay telephones	6.3.4



4. Consumer Equipment	Cost & Descriptions	NEW
4.1 Large Colour Televisions (Visible Screen Size)	€5.00	2.4.1
Large TV's 73cm+	Including Plasma/LCD/CRT TV, Projection television	2.4.1
4.2 Medium Size Colour Televisions (Visible Screen Size)	€0.00	2.4.2
Medium Size TV's 52-72cm	Including Plasma/LCD/CRT TV	2.4.2
4.3 Small Size Colour Televisions (Visible Screen Size)	€0.00	2.4.2
Small TV's 0-51cm	Including Plasma/LCD/CRT TV	2.4.2
4.4 Medium Size Consumer Products	€0.00	5.4.4
Video cameras	Security cameras	5.4.4
Set top boxes and PVR's	BlueRay/DVD/Video recorder with or without HDD, BlueRay/DVD/Video player with or without HDD, Satellite receiver with or without HDD, Saorview/Freeview receiver with or without HDD	5.4.4
Hi-fi systems	Hi-fi systems, Home theatre systems	5.4.4
Hi-fi separates	Audio amplifiers, Turntables, Tape decks, Tuners, Receivers, CD Players/Recorders, MD players (excluding speakers - all using AC mains only)	5.4.4
Musical instruments	Electric guitar, Electric organ, Digital piano, Synthesizer	5.4.4
Other medium sized consumer products	Record player, Security monitor, Projectors (all types)	5.4.4
4.5 Small Consumer Products	€0.00	5.4.5
Small products or equipment for the purpose of recording or reproducing sound or images, including signals or other technologies for the distribution of sound and image other than by telecommunications	Sound mixer/mixing board, Portable tape cassette/CD/MD/MP3 and other Codec appliances - all using battery/AC adaptor, Baby alarm/monitor (one way) , Photo camera (analogue), Photo camera (digital), Camcorder, Single-use camera with flash, Radios, Handheld TV, Speaker set, Portable/mobile GPS receiver, Door intercom system	5.4.5
4.6 Miscellaneous Items	€0.00	5.4.6
Miscellaneous items	Microphone, Battery charger, A/C Adapter, Remote control, Headphones, LNB (for Satellite Dish), All antenna amplifiers, Wireless control switch, Portable radios without built in loudspeakers, Extension Leads, Photovoltaic panels	5.4.6
4.7 Photovoltaic Panels		4.4.7
Photovoltaic Panels	Photovoltaic Panels	4.4.7

5. Lighting Equipment (with the exception of household luminaires)	Visible Environmental Management Cost & Descriptions	<u>NEW</u>
5.1 Gas Discharge Lamps	€0.15	3.5.1
All fluorescent lamps (FL's)	All fluorescent lamps	3.5.1
High and low pressure gas discharge lamps (i.e. bulbs with the exception of filament bulbs)	High and low pressure/intensity gas discharge lamps, including sodium lamps and metal halide lamps	3.5.1
All compact fluorescent lamps (PLS AND CFLs)	All compact fluorescent lamps (PLS AND CFLs)	3.5.1
5.2 LED's	€0.05	3.5.2
LED Light Sources	LED Lamps & Luminaires	3.5.2 Luminaire is 4 or 5
5.3 Luminaires and Lighting Equipment	€0.00	4.5.3 or 5.5.3
Lighting or equipment for the purpose of spreading or controlling light with the exception of household luminaires	Lighting or equipment for the purpose of spreading or controlling light; Torches, Bicycle lamps etc.	4.5.3 or 5.5.3

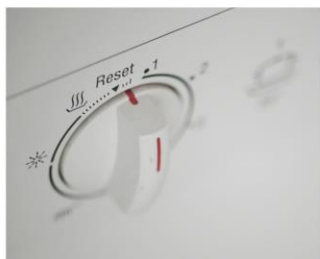
6. Electrical and Electronic Tools (with the exception of large-scale stationary industrial tools)	Visible Environmental Management Cost & Descriptions	NEW
6.1 All Electrical Equipment	€0.00	4.6.1 or 5.6.1
Drills	Hammer drill, Drill, Diamond core drill for wet and dry drilling	4.6.1 or 5.6.1
Saws	Table circular saw, Jigsaw, Mitre saw, Circular saw, Metal cutting saw with blade, Band saw, Reciprocating saw / Pendulum saw / Sword saw	4.6.1 or 5.6.1
Sewing machines	Sewing machines	4.6.1 or 5.6.1
Tools for rivetting, nailing or screwing or removing rivets, nails, screws or similar uses	Break hammer, Hammer screwdriver, Impact wrench, Screwdriver, Stapler / Nail machine	4.6.1 or 5.6.1
Equipment for turning, milling, sanding, grinding, sawing, cutting, shearing, drilling, making holes, punching, folding, bending or similar processing of wood, metal and other materials	Triangle sander, Belt sander, Block sander, Eccentric sander, Concrete cutter, Cutting machine with disk, Edge cutter, Grinder, Jackhammer, Milling machine, Mixer, Sheet cutter, Straight cutter, Tapping machine, Trimming machine, Universal scraper, Wallpaper steamer	4.6.1 or 5.6.1
Tools for welding, soldering or similar use	Solder / Unsolder equipment, Welding apparatus	4.6.1 or 5.6.1
Equipment for spraying, spreading, dispersing or other treatment of liquid or gaseous substances by other means	Glue gun, High pressure cleaner, Inflation pump, Paint roller, Paint spray gun, Paint stripper, Rechargeable air pump	4.6.1 or 5.6.1
Tools for mowing or other gardening activities	Aerator, Chain saw, Compost mill, Hedge clipper / Hedge trimmer, Lawnmower, Leaf blower / Vacuum sweeper, Grass shear, Pond pump / Fountain pump, Pruning shear, Sprinkler, Stalk shredder, Edge trimmer (nylon), Undergrowth cutter, Well pump , Blowing and suction appliance	4.6.1 or 5.6.1
Other electrical equipment	Other Electrical Equipment, Compressor, Transformer, Paper shredder, Laminating machine, Binding machine, Coin/Note counter	4.6.1 or 5.6.1

7. Toys, Leisure and Sports Equipment	Visible Environmental Management Cost & Descriptions	NEW
7.1 Toys, Leisure and Sports Equipment	€0.00	5.7.1
Electric trains or car racing sets	Electric trains or car racing sets	5.7.1
Hand-held video game consoles	Hand-held video game consoles	5.7.1
Video games	Video games unit	5.7.1
Computers for biking, diving, running, rowing, etc.	Computers for biking, diving, running, rowing, etc.	5.7.1
Sports equipment with electric or electronic components	Sports equipment with electric or electronic components, (e.g. Pedometers, etc)	4.7.1
Coin slot machines	Coin slot machines	4.7.1 or 2.7.1
8. Medical Devices (with the exception of all implanted and infected products)	Descriptions	
Radiotherapy equipment	Radiotherapy equipment	4.8 or 5.8
Cardiology	Cardiology	4.8 or 5.8
Dialysis	Dialysis	4.8 or 5.8
Pulmonary ventilators	Pulmonary ventilators	4.8 or 5.8
Nuclear medicine	Nuclear medicine	4.8 or 5.8
Laboratory equipment for in-vitro diagnosis	Laboratory equipment for in-vitro diagnosis	4.8 or 5.8
Analysers	Analysers	4.8 or 5.8
Freezers	Freezers	4.8 or 5.8
Fertilization tests	Fertilization tests	4.8 or 5.8
Other appliances for detecting, preventing, monitoring, treating, alleviating illness, injury or disability	Other appliances for detecting, preventing, monitoring, treating, alleviating illness, injury or disability (e.g. Hearing aids, Nebulizers, Blood pressure monitors, Medical thermometer, etc)	4.8 or 5.8

<b>9. Monitoring and Control Instruments</b>	<b>Descriptions</b>	<b>NEW</b>
<b>9.1 Smoke Detectors with Ionisation Chamber</b>		<b>5.9.1</b>
Smoke detector with Ionisation Chamber	Smoke detector with Ionisation Chamber	<b>5.9.1</b>
<b>9.2 Smoke Detectors without Ionisation Chamber</b>		<b>5.9.2</b>
Smoke detector without Ionisation Chamber	Smoke detector without Ionisation Chamber	<b>5.9.2</b>
<b>9.3 Monitoring &amp; Control Equipment other than Smoke Detectors</b>		<b>4.9.3 or 5.9.3</b>
Heating regulators	Heating regulators	<b>4.9.3 or 5.9.3</b>
Thermostats	Thermostats	<b>5.9.3</b>
Measuring, weighing or adjusting appliances for household or as laboratory equipment	Measuring, weighing or adjusting appliances for household or as laboratory equipment	<b>4.9.3 or 5.9.3</b>
Monitoring and control instruments used in industrial installations (e.g. in control panels)	Other monitoring and control instruments used in industrial and commercial installations (e.g. in control panels).	<b>4.9.3 or 5.9.3</b>
Other monitoring and control instruments	Other monitoring and control instruments (e.g. Uninterruptible Power Supplies)	<b>4.9.3 or 5.9.3</b>
<b>10. Automatic Dispensers</b>	<b>Descriptions</b>	<b>4.10.</b>
Automatic dispensers for hot drinks	Automatic dispensers for hot drinks	<b>4.10.</b>
Automatic dispensers for hot or cold bottles or cans	Automatic dispensers for hot or cold bottles or cans	<b>4.10.</b>
Automatic dispensers for solid products	Automatic dispensers for solid products	<b>4.10.</b>
Automatic dispensers for money	Automatic dispensers for money	<b>4.10.</b>
All appliances which deliver automatically all kinds of products	All appliances which deliver automatically all kinds of products	<b>4.10.</b>



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