

Ewaste Plastics

A Stewardship Challenge



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Beyond Plastic Pollution
Pathways to cleaner oceans

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Today's Presentation

Circular solutions for electronics

1. About MRI E-cycle Solutions and MRI PSO
2. Plastics in Electronics
3. Stewardship Programs in Australia
4. Closing the Loop Challenges



Our Focus – 4 Solution Streams

Circular solutions for electronics & batteries

MRI E-cycle Solutions offers secure, safe, ethical and environmentally sound disposal of batteries and electronic equipment Australia wide.



asset
recovery



data
destruction



product
stewardship



ewaste & battery
recycling



mri.com.au



Some of our Customers and Partners

Circular solutions for electronics & batteries



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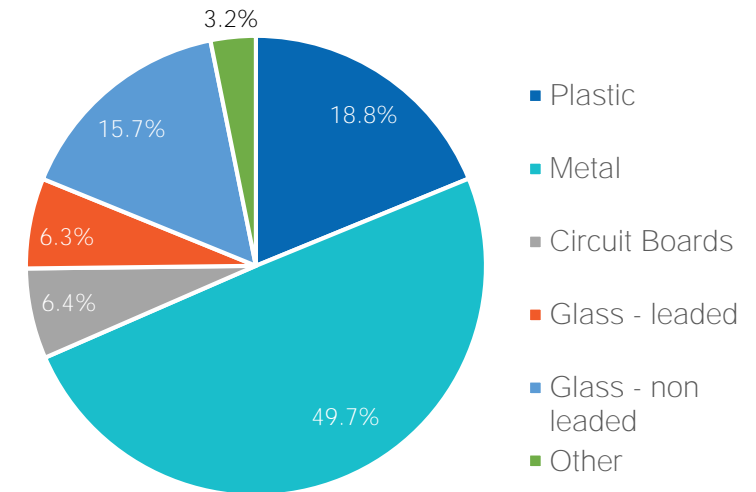


Plastics in Electronics

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- **Type of plastics** – up to 12 different types are used in electronics
- **High Impact Polystyrenes (HIPS)** make up about 50% of plastics used, mainly used in televisions
- **Plastics make up about 19% of electronics**
- **Recyclability** – claims that recyclers can identify up to 20 different types of plastics, and technology, defining the products
- **Products with recycled content** - lower value products e.g. plastic wood, outdoor furniture, some IT Products

Materials Recovered - TVs and Computers



State of Play in Australia

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Electronic Waste in Australia – Televisions and Computers (including peripherals/printers)

- Annual average electronic waste generated – 100,000 tonnes /annum
- Plastics - an estimated 18,000 to 20,000 tonnes of plastics

National Television Computer Recycling Scheme – *Government regulated*

- Established 2011, Started collecting 2012, Volume collected 184,500 tonnes, including around 38,000 to 40,000 tonnes of plastic

MobileMuster – *mobile phone recycling program, voluntary program*

- Established 1998/99, Volume collected 1,244 tonnes, including about 124 tonnes plastics

Closing the loop

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Who is doing what?

- Lenovo (2009) 30% recycled, Dell (2014) Fairphone, LightfootPrint – Heron LED Lamp, Others?

Challenges

- Sorting the plastics – burn and smell, flotation, optical,
- long supply chain from collection point to manufacture
- Separating plastics from metals
- Creating new materials

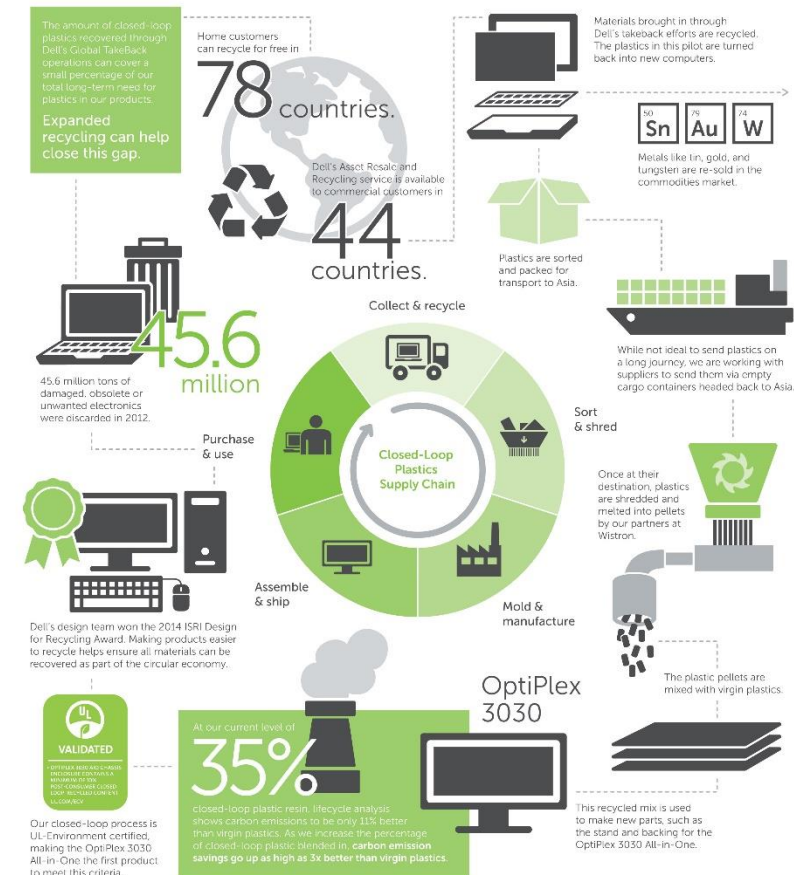


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Dell's Closed-loop Recycling Process

Dell becomes the first to offer a computer made via the UL Environment certified closed-loop process with the launch of the OptiPlex 3030 All-in-One. By using plastics collected through our existing takeback and recycling programs to build new systems, we are helping drive a circular economy for the IT industry.



Fairphone

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Our goals

When it comes to making our phone, we're doing things a little differently.

We aim to create positive social and environmental impact from the beginning to the end of a phone's life cycle.



Long-Lasting
Design >



Fair Materials >



Good Working
Conditions >



Reuse and
Recycling >



Fairphone

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Design

- Modularity
- Improved recyclability and recovery of plastics rather being used as fuel



Contact

Circular solutions for electronics and batteries

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