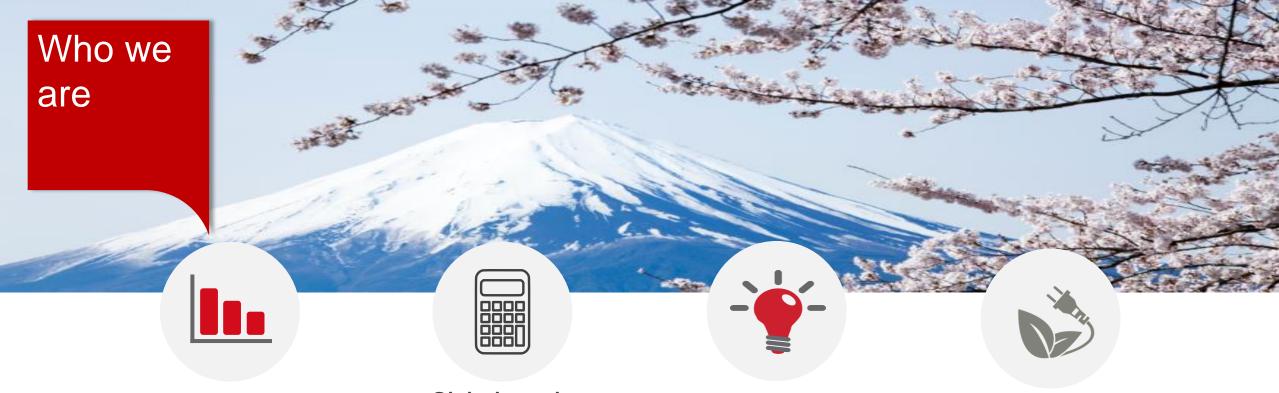
Getting smart with eWaste

Case study from Fujitsu Oceania

Blaise Porter
Sustainability Manager, Oceania





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At a glance

- One of the largest ICT companies in Australia and New Zealand
- 4,000 staff
- 1,000+ customers
- \$1.1bn+ annual revenue
- 30,000 m2 of data centre footprint

Global reach, Local focus

- Agile and responsive
- · Local market insight and innovation
- Local accountability, informed decision-making

Customer Focused

- Full service provider of sustainable, end-to-end ICT solutions
- Business improvement approach
- Working with our customers to solve business problems

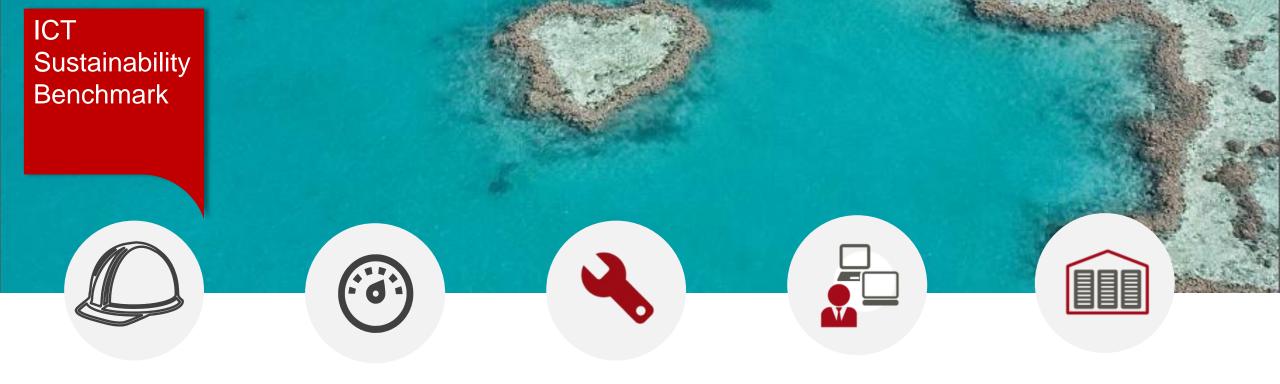
Sustainable at the core

- First factory built in park like grounds
- First NABERS Energy for Data Centre rating
- 100% renewable energy in NZ
- ABA100 winner for Sustainability & Eco Innovation in 2017
- 14 waste streams from 19 premises

eWaste in Australia



- eWaste generated three times faster than all other forms of waste
- 23.6kg eWaste generated per person annually in 2017.....
 -up from 20kg in 2014
- 95% of Australians agree that recycling eWaste is important, but 45% do not currently do so



Enablement

- · How ready are you?
- Key drivers
- Use of technology across the organization
- Agile workplace/remote working
- Business process management
- Governance and compliance

Metrics

- What gets measured gets managed!
- Consumption and cost of ICT energy

Lifecycle

- Procurement of new ICT assets (standards & ratings)
- Use of equipment over the life cycle
- Disposal of eWaste

End User

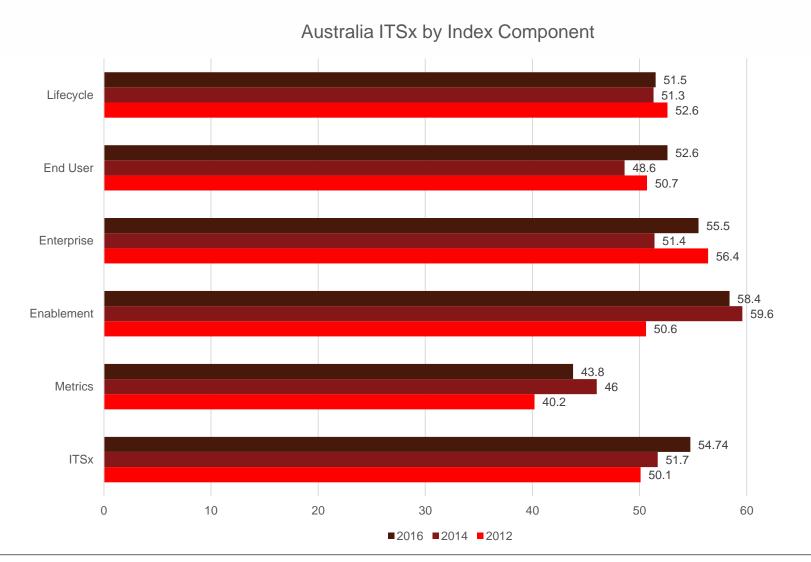
- Personal compute devices
- Standard policies, controls
- Printing
- Technology consumables (paper, print toner)

Enterprise

- Data Centre
- Broader infrastructure networks, software architecture etc

Australia ITSx Benchmark





- NCTRS introduced in 2011
- Recycling environment stable, developing
- Business maturity not growing

- Not the removal of best practice....
 -so what is it?

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Confused

- What is eWaste?
- eWaste is for big devices
- Where can I take what?
- This might be useful again one day

Inconvenient

- I don't want to have to drive out to the council depot
- I don't have the budget to pay for recycling
- It's a logistical effort to arrange
- It's fine in the cupboard

Security

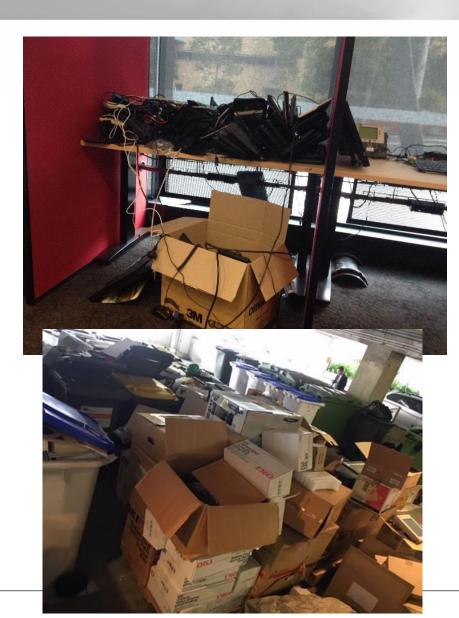
- Personal and business data on the device
- How do you protect that?
- Who do you trust?

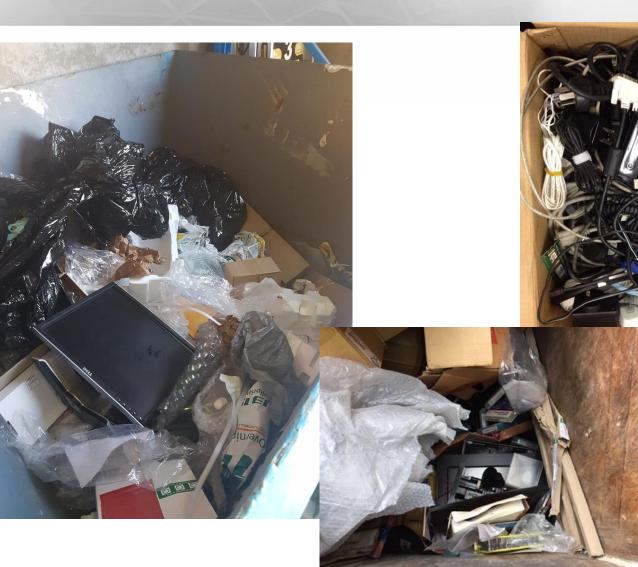
Lack of knowledge

- It's not that big a deal
- One eWaste processor is much like another
- eWaste in landfill isn't harmful
- I've heard eWaste is really valuable,
 I could get some cash for this

More eWaste, More Problems







Fujitsu & eWaste – where were we



- Zero electronic waste policy to landfill since 2009
- Liable party under the 2011 Product Stewardship (TV & Computers) Act
- Complex eWaste environment for our people to understand
 - Different rules for different things
 - Different sites had different options
 - Customers had their own rule
 - Risk & environmental concerns not well understood
 - Not a priority issue





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Education

- Legal requirements
- Environmental impacts
- Human health and social justice impacts
- Business risk
- · Benefits of recycling

Convenient

- Disposal options that work for the site
- Reduce the numbers of recycling vendors
- Utilise presence on customer sites to assist
- Bring the facility to the user
- Allow people to bring in their own stuff

Security

- Physical security of collection
- Due diligence for processing partners
- Leverage Fujitsu's relationship as a trusted partner

Simplify

- Broadening the net
- Where could we use our technology expertise to help?

eWaste bins: the concept & first prototype



- Priority: ease of use, safe, secure, attractive
- Used standalone IoT sensor to monitor fill levels and alert when full
- Worked with customers, employees, bin manufacturer, recycling partner and IoT tech vendor to generate concept and iron out problems







Co-creation
involvesblending business
expertise and
digital technology to
create new value together.
This is achieved by using
local and global Fujitsu
resources as well as
leveraging partnerships with



eWaste Dashboard



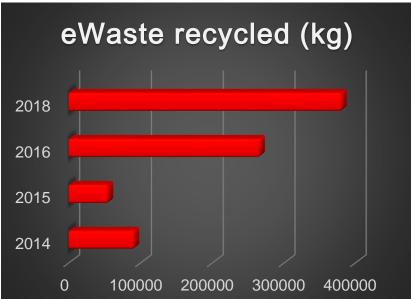
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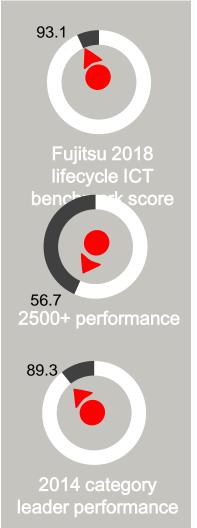
Kg eWaste processed in 2017

10,000

People reached through SmartBin education material







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The Fujitsu eWaste service provides upgrades, repairs, redeployment, recycling and hazardous materials management for devices reaching end of life at Qantas.

Country: Australia Industry: Aviation Founded: 1920 Employees: 30,000+

Around 2 000 devices reach end of life at Qantas every year; disposing of them in a responsible and sustainable manner was proactive and strategic approach to recycling

provider, Fuiltsu, to implement an eWaste of the device end of life process, including ipgrades, repairs, redeployment and recycling is well as hazardous materials management.

shaping tomorrow with you

Fuiitsu collects old devices and works with certified recyclers to either repair, upgrade or recycle them, with over 90 per cent o

120,000kg of material from landfill

 The programme has been extended to employees who are encouraged to bring in personal devices; one event netted



120,000

Devices diverted from landfill with Qantas

DESIGN FOR END OF LIFE

Fujitsu products are designed to be both easily reparable and recyclable. We have reduced adhesives and fused components to make recycling simpler.

INNOVATION IN RECYCLING

2002 - Fujitsu uses plastic recycled from own PCs in new notebook housings 2012 – Fujitsu develops methodology for recycling CDs and DVDs into notebook housing

RECYCLING

Incudes print consumable recycling, component re-use, supplier packaging concerns

Top Tips

FUJITSU

For your people

- Meet people where they are and bring the facility to them
- Allow everyone to participate
- Treat it like a benefit

For navigating technology

- Identify the biggest impact
- Start small but start
- Use competitors and customers to your advantage
- Look out for the added unintended consequence and benefits



For your recycling partner

- Go to visit
- Do an audit
- Examine downstream processes
- Chain of custody
- Check Certifications
- Additional capabilities you may want

For organisations

- Allocate a budget
- Have an eWaste policy
- Do policy education
- Buy for recyclability
- Measure, communicate, and celebrate







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