Frestart () =

We are a people-powered social enterprise fixing our relationship with electronics



over 15,000 repairs

Lice .

K (2 °Y

Impact across the Restart network











Open Repair Data Standard

We collect repair data At community repair events



Name	Item	Problem	Resolution	Fix	
atherine	ilad	Digitser Crached		Forez.	·· HEED
Mike	Tashiba Captop	Screen image problem		Stylinin/Frome	1 :-
Patrich	Printer	No lights - nothing		Pared/John (will bry (9,
Anna	Food Processor	Lights work but no share	f Allwice geven		
Rebeao	AlbaTV	Possibily blacun capacitor. Chas brought photo Plug broker	s) Advice given	lan (willbrig) Ian (artist tive)	>
Rebecca	Andique lamp	Hug broker Crached screen		John	
Stefanie	come iPhone 75		Unbloched it!	· · ·)
Tasha	Laptop Sony Vino	N. Suction		All Cain D	
Andy	Vax Vacuum	Turns on/off A	Luxice (river used)	(revin	
Paul	Touch lamp	test 101 0	Re-bent!	Stephania O Aud/ian	1
	Touster	Breed up have	remove all faulty laws	Infini) O	
Paul	Fory lights	after weth	Allice over	ton Control O	
Naomi	Touch Light	not workey	Advice grent		
KA	ipad (Had)	Internet Gts at Internet Gts at Veg Guely coded!			
Mandy	Food Processor	Deg Gholy cooked! possibly cooked!	Contract cleaner &	pray lartim	
Forrah	Food Procen	No Tempermentel!	Contract Clear		
	Pane Sonic Lum	Crachby			1
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					A

<u>Edit</u> ▲ 0 Misc	OralB	electric toothbrus	h 5	battery replacement		Fixed	•	×
Category:	Brand:	Model:	Age:		Repair status:	Spare parts req	uired?:	
None of the above	OralB 🔹	electric toothbrush	5	8	Fixed •	Yes - from 3rd	party	
0.3 ¢ kg								
Description of problem/solution:								
battery replacement				e solution comments help l Dr is it a fun case study?	Restarters workir	ig on a similar de	evice in	
						Sa	ve devic	e
		ĥ.						
URL of useful repair information used:	Source of info	mation:						
Enter URL here	Please select	* +						
Add image:		I	Device ima	ges:				
	Ô							
Add devic	e images here							

Open data

- We want to encourage more open data on repair
- "Open data" is data that can be:



- Facilitates sharing and collaboration
- Can be used to push policy on **Right to Repair**

Open Repair Data Standard - current version

Dataset with **30,000+ repair attempts** from partners. The primary modules included are as follows:

- **Product related**: Information about the product/device that someone has attempted to fix. Required fields: Product category; Brand; Model; Year of Manufacture
- **Repair related**: Information about the attempted fix and its outcome. Required fields: Problem; Repair Status
- **Session related**: Information about when the repair took place and through which community repair group. Required fields: Group Identifier; Date

More info at: https://openrepair.org/open-data/open-standard

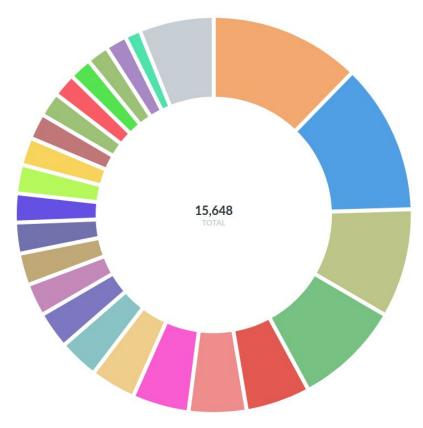
Publisher	Summary	Last updated	Structure	Licence	Downloads
Anstiftung	Community repair data collected in the Reparatur- Initiaven platform from June 2018 onwards. Product categories mapped to working set of ORDS categories – these may be remapped in future.	09 September 2019	ORDS v0.1	CC BY-SA 4.0	Zip
Fixit Clinic	Data collected via the Broken Item Report form as part of Fixit Clinic's community repair events. Product categories mapped to working set of ORDS categories – these may be remapped in future.	09 September 2019	ORDS v0.1	CC BY-SA 4.0	Zip
Repair Cafe Foundation	Community repair data gathered using the Repair Monitor platform.	09 September 2019	ORDS v0.1	CC BY-SA 4.0	Zip
The Restart Project	Data gathered at community repair events and recorded in the Fixometer module of Restarters.net. This dataset is periodically created as an export of the full dataset available from Restarters.net.	30 March 2020	ORDS v0.1	CC BY-SA 4.0	Zip

Open Repair Data Standard - Next Steps

- definition of fault types to categorise problem field (for key categories)
- removal of model information (focus on brand only)
- definition of shared set of product categories and mappings
- definition of shared set of repair statuses and mappings
- addition of provider, language and country fields

Restart data: type of products

Laptop medium	12.9%
Misc	12.8%
Mobile	9.20%
Small kitchen item	9.02%
Lamp	5.32%
Portable radio	4.74%
Hi-Fi separates	4.66%
Tablet	3.67%
Vacuum	3.20%
Power tool	2.91%
TV and gaming-related accessories	2.54%
Headphones	2.49%
Hair & Beauty item	2.40%
PC Accessory	2.24%
Toaster	2.20%
😑 Тоу	2.12%
Handheld entertainment device	1.94%
Hi-Fi integrated	1.83%
Printer/scanner	1.74%
Kettle	1.66%
Desktop computer	1.62%
Decorative or safety lights	1.57%
Digital Compact Camera	1.06%
• Other	6.21%



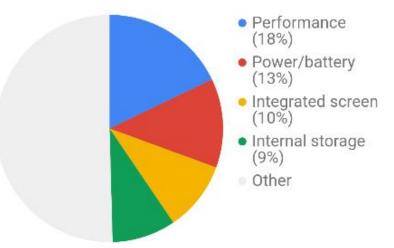
Crowdsourcing Data Analysis

Restart is testing analysis of data with volunteers. We plan to extend this to data from other partners. An example: <u>https://restarters.net/faultcat</u>

FaultCat	
Laptop Apple Repairable	
keyboard and track pad not working. Needs new battery	Translate
Is the fault type Integrated pointing device ?	
Yes / possibly I don't know, <u>F</u> etch another repair Nope, let me pick another fault	

An example of our findings on laptops

Top 4 faults we see (= 50% of all faults)



Success rates

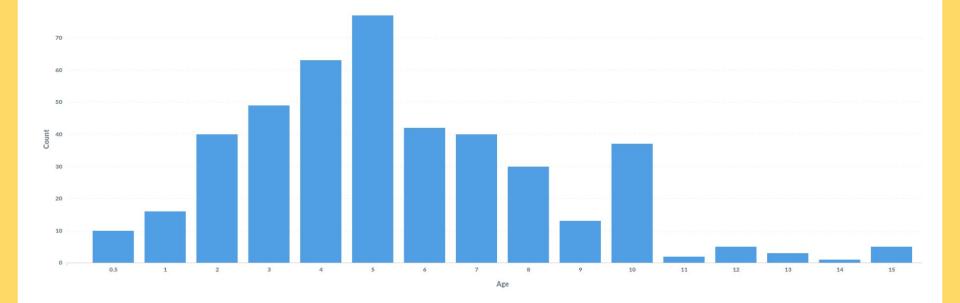
Type of fault	Success rate
Performance	73%
Power/battery	36%
Integrated screen	33%
Internal storage	74%

(Average success across all fault types = 54%)

Barriers to repair

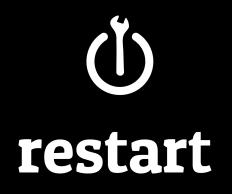
Available and affordable spare parts, standard connectors, access to repair information and easier disassembly would keep our fix rates up and keep more laptops lasting longer.

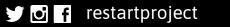
40% laptops at Restart Parties are 6+ yr old



Opportunities for community repair data

- Engaging community groups in advocating for Right to Repair
- Increasing collection across platforms (only 26% of 2019 Restart events uploaded data)
- Linking analysis to Right to Repair priorities, starting with smartphones
- Improve quality of the data collected, focusing on key barriers and product age





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