



IFIXIT

Right to Repair

**iFixit's mission is to enable
everyone to repair every
thing they own.**



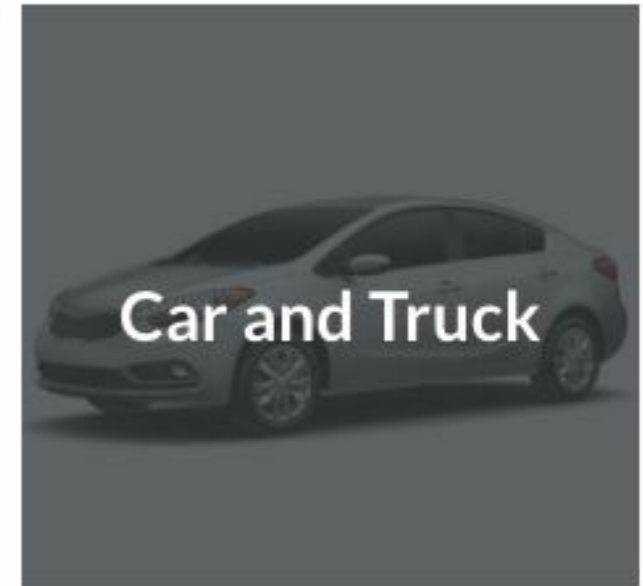


Repair Guides

[Learn More](#)

[Create a Guide](#)

What do you need to fix?





We are an online community of people sharing repair know-how.

iFixit makes it:

Easy for anyone to share repair knowledge

Simple for people to fix their devices



iFixit Member Survey



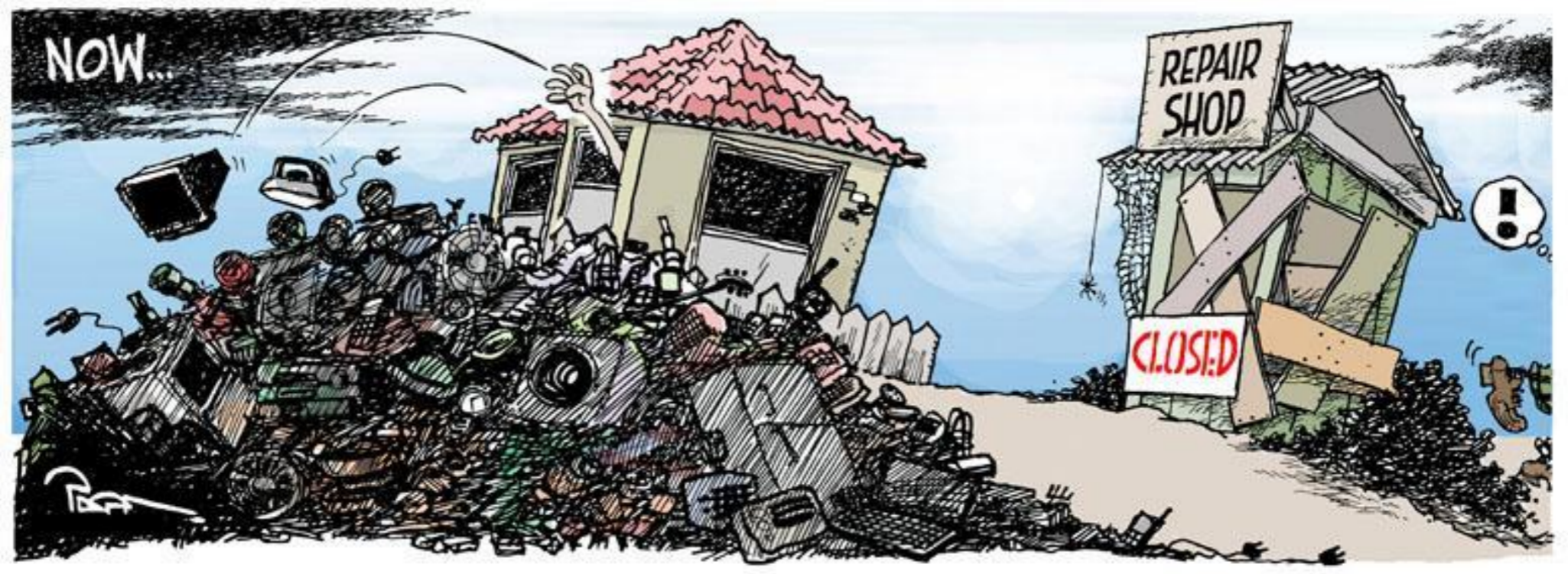
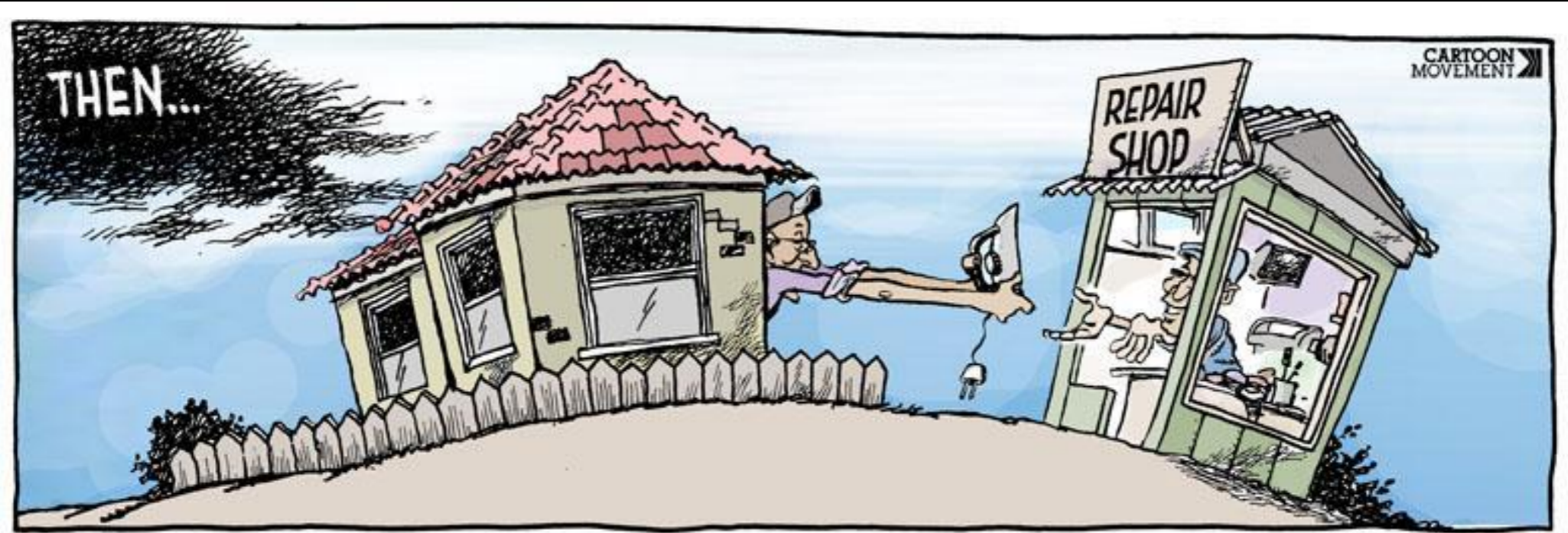
Told us that iFixit has enabled them to perform repairs they wouldn't have done otherwise.



say that a successful repair makes you more likely to buy another product from that manufacturer.



Average number of things people have fixed using iFixit.



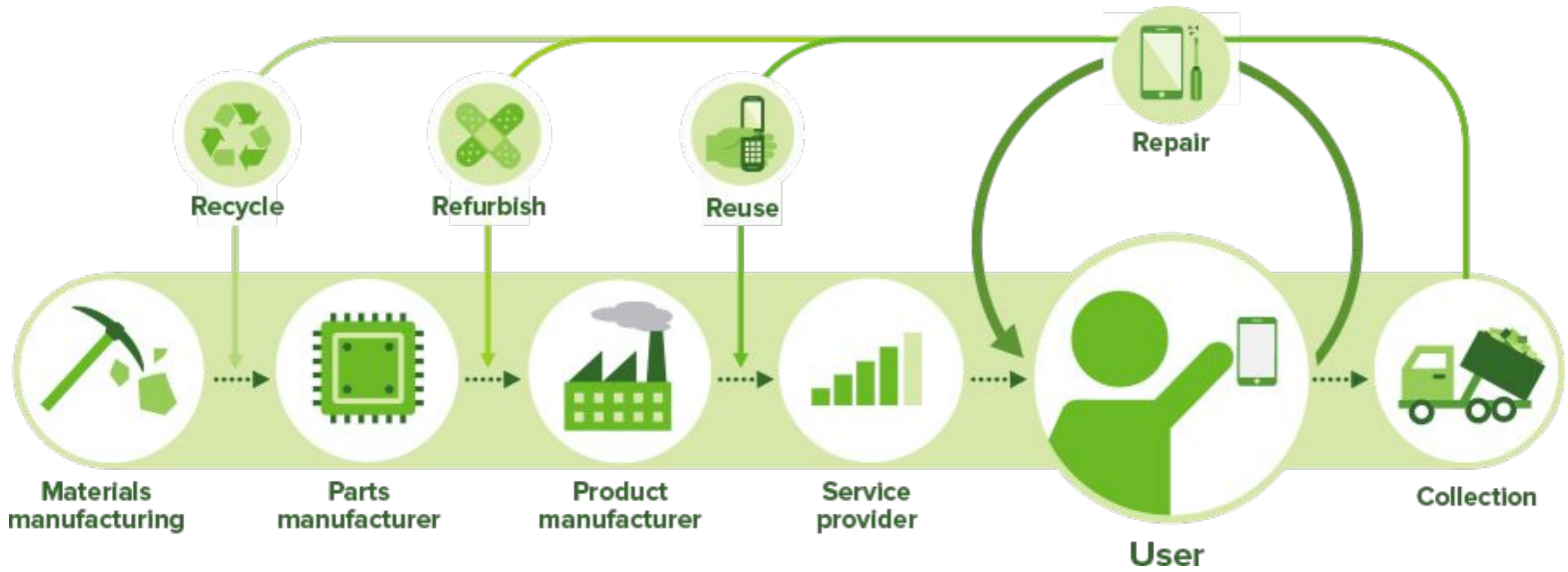
A wide-angle photograph of a large industrial sewing factory. In the foreground, several workers are seated at sewing machines, focused on their tasks. The workers are wearing various casual clothing. The factory floor is light-colored, and there are several large, empty grey plastic bins lined up in the middle ground. In the background, more workers and sewing machines are visible, along with shelves stocked with spools of thread in various colors. The lighting is bright and even, typical of an industrial setting.

It's Time for a Repair Jobs Revolution

Repair jobs may be an answer to the global unemployment problem, help bridge the digital divide, and cut down the amount of unnecessary waste.

**Repair is a cornerstone of our
environmental and economic
future.**





“Good Design is Long-Lasting. Good
Design is Environmentally Friendly.”

—DIETER RAMS



A person wearing a blue shirt is working on the underside of a car in a garage. The car is elevated on a red hydraulic lift. The person is leaning over, and their hands are near the engine or transmission area. The background shows a concrete floor and some tools.

Repairable Products Make Good Sense

Repair is good for manufacturers, good for the economy, and good for the rest of us.

We rate the latest products to make it easy to buy repairable hardware.

Smartphones





Microsoft Surface Duo

2020

- Batteries are glued and require extensive disassembly to service.
- The USB-C port is soldered directly to the main board.
- Uncommon tri-point screws secure key components.

2



Samsung Galaxy Note 20 Ultra

2020

- Battery replacement remains far too difficult for a consumable component.
- Screen repairs are tedious, poorly prioritized, and unnecessarily expensive.
- + You'll only need one screwdriver, a standard Phillips.

3



iPhone SE 2020

2020

- + The two most commonly replaced components, display and battery, remain straightforward to access with the proper knowledge and tools.
- + Most components are modular and independently replaceable, including many that are cross-compatible with iPhone 8.
- The fragile glass back is impractical to replace.

6



Samsung Galaxy A51

2020

- Screen repairs require a lot of disassembly while battling tough adhesive.
- The plastic back cover is glued in place, but can be removed fairly easily with heat.
- + A single Phillips driver takes care of all the screws.

4

Falls to the floor



Break the screen

Falls to the floor



Break the floor

Apple AirPods

(2nd generation)



TEARDOWN



Final Thoughts

- ✘ AirPods are not designed to be serviced. No hardware components can be accessed without damage to the device.
- ✘ Sealed-in batteries limit the AirPods' lifespan, making them a consumable/disposable item.

Repairability Score



Repairability 0 out of 10
(10 is easiest to repair)





MOTHERBOARD
TECH BY VICE

AirPods Are a Tragedy

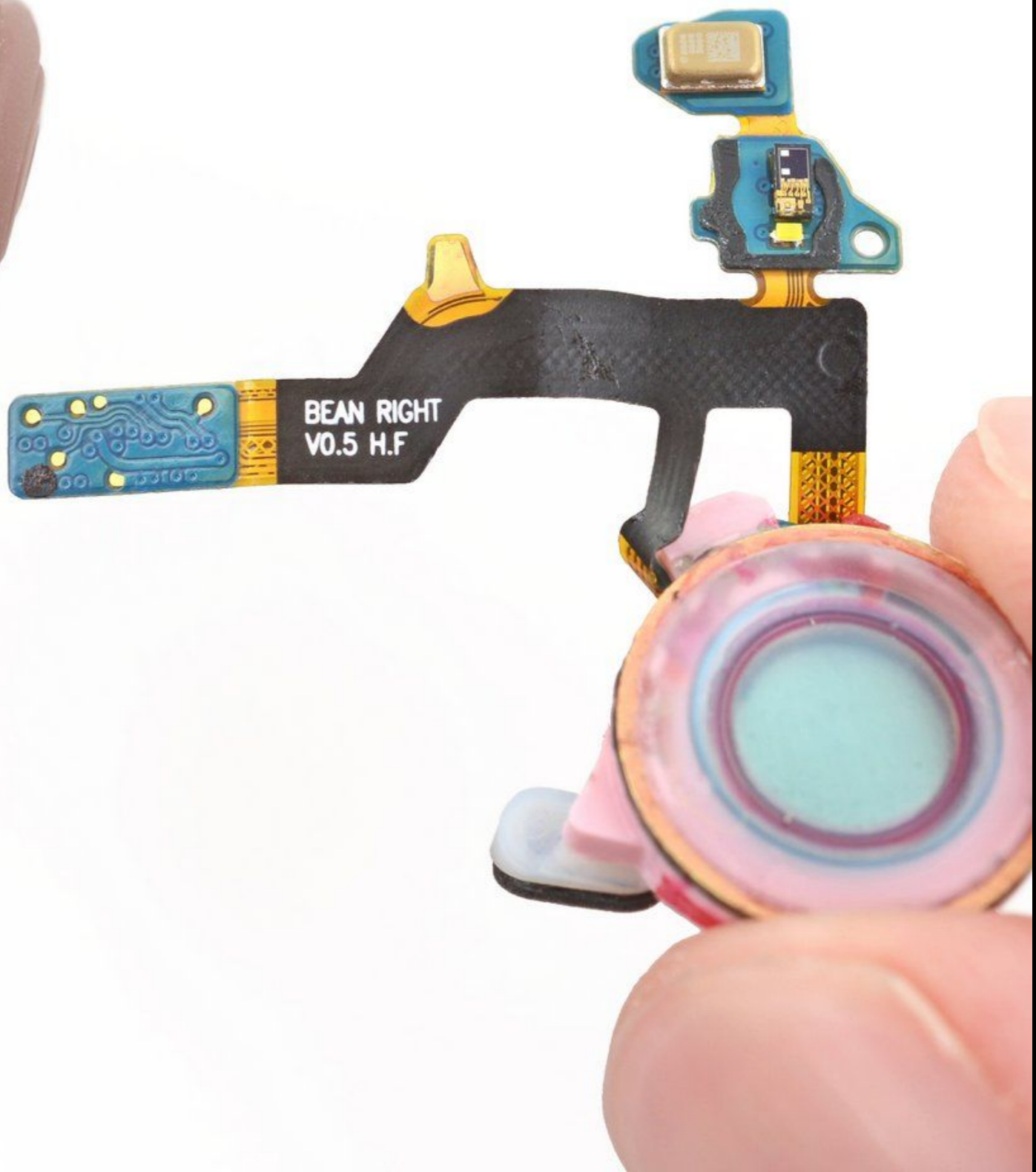
Apple claims that AirPods are building a “wireless future.” Many people think they're a symbol of disposable wealth. The truth is bleaker.

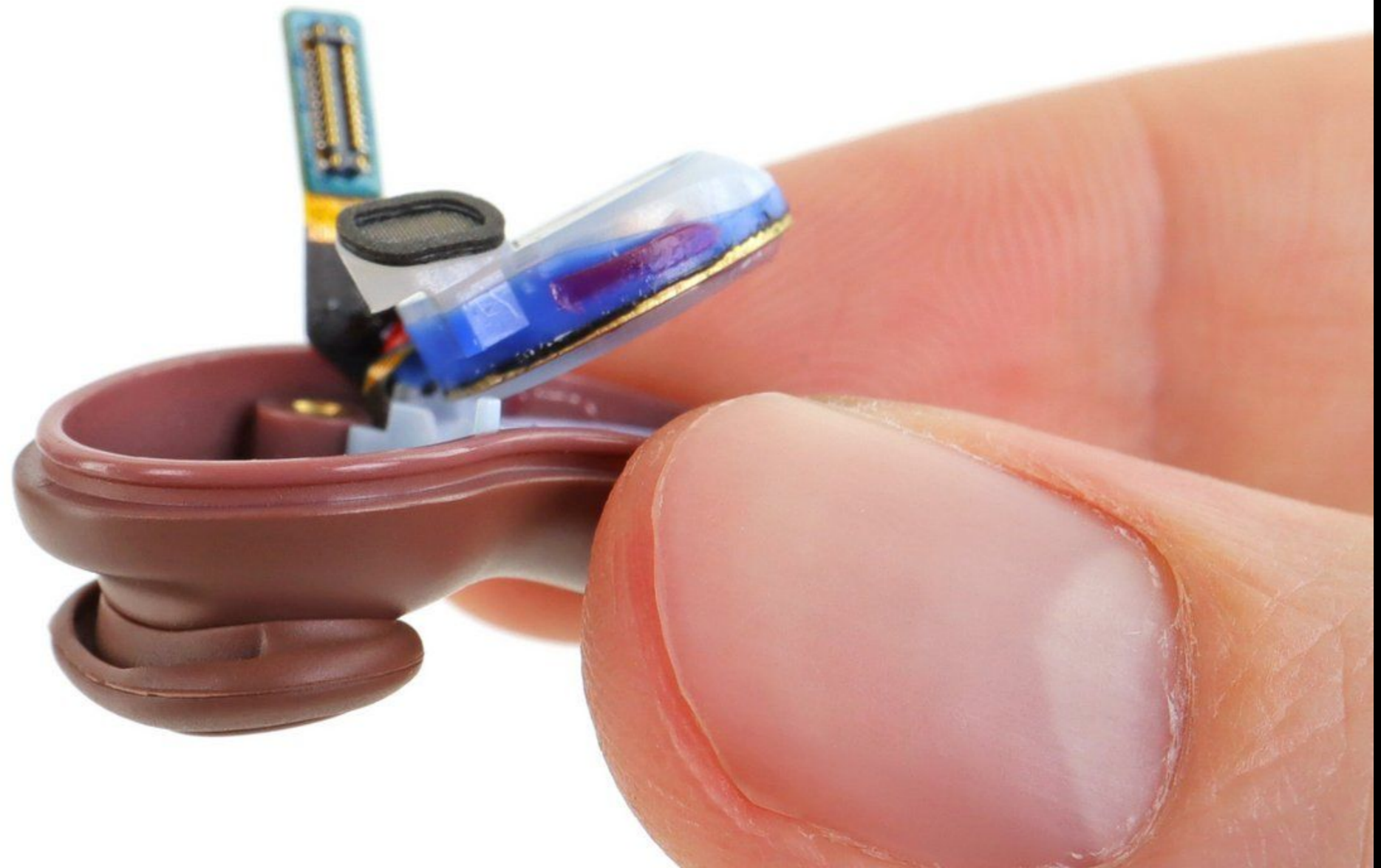
By [Caroline Haskins](#)

May 6 2019, 6:36am [f](#) Share [t](#) Tweet









Final Thoughts

- ✓ All enclosures are held together with clips instead of glue, allowing for non-destructive opening procedures.
- ✓ Disassembly can be accomplished with common tools and a Phillips screwdriver.
- ✓ All batteries are easily accessible and replaceable.
- ✓ Most other major components (circuit boards, speaker drivers, etc.) are relatively modular and can be replaced independently.
- Adhesive is used to keep many of the internal components together, though it is not excessive and can be reused for reassembly.
- ✗ Careful prying is required throughout to separate components without tearing fragile cables or otherwise damaging the buds.

Repairability Score



Repairability 8 out of 10
(10 is easiest to repair)

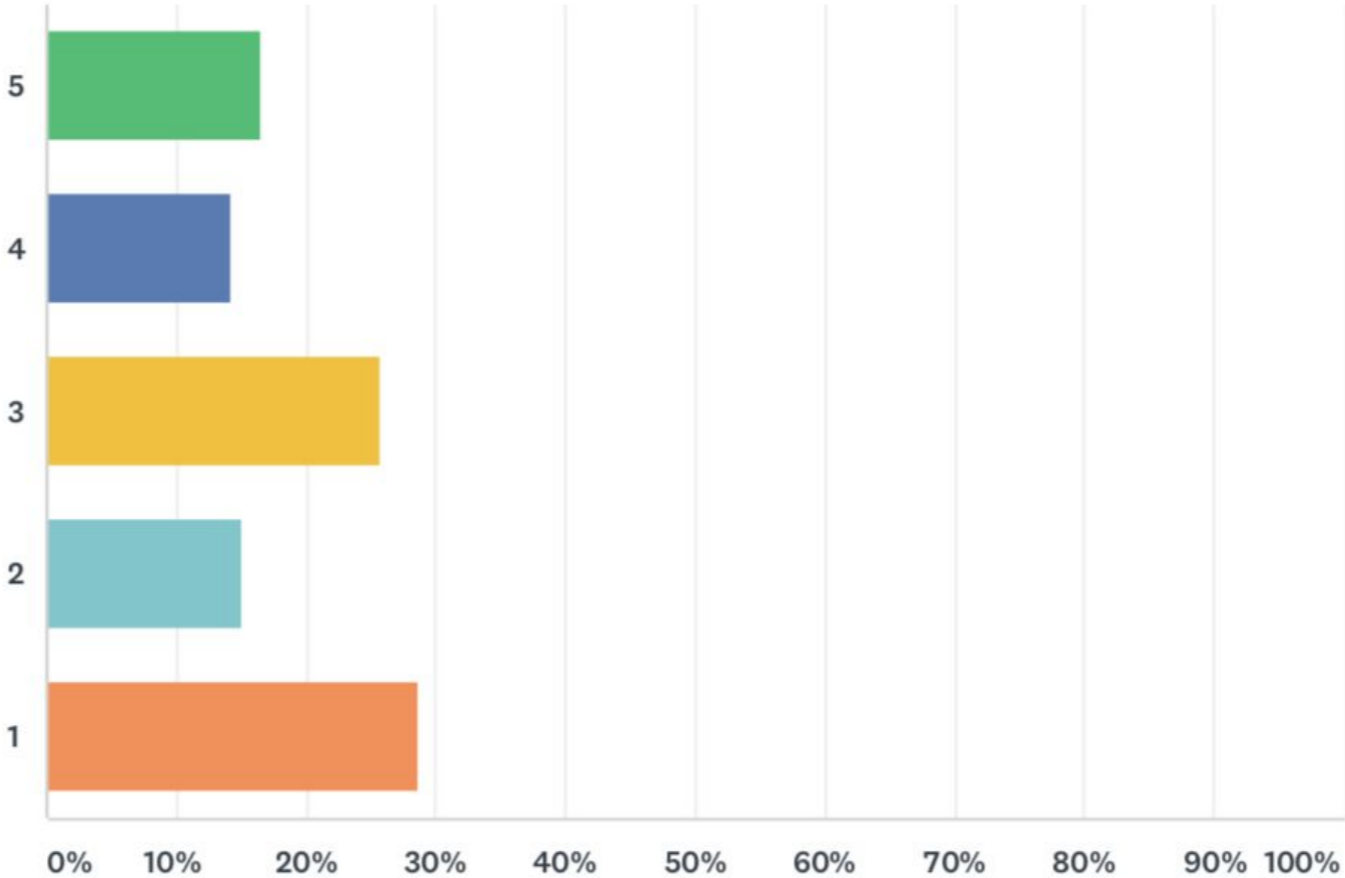


Motorola and iFixit—A Match Made in Mobile

WRITTEN BY ELISE BARSCH

Q2 To give us a better idea of who you are, on a scale of 1-5, please indicate what you consider to be your level of repair competency, with "1" indicating this was your first repair and "5" indicating you've done more than ten successful repairs on electronics.

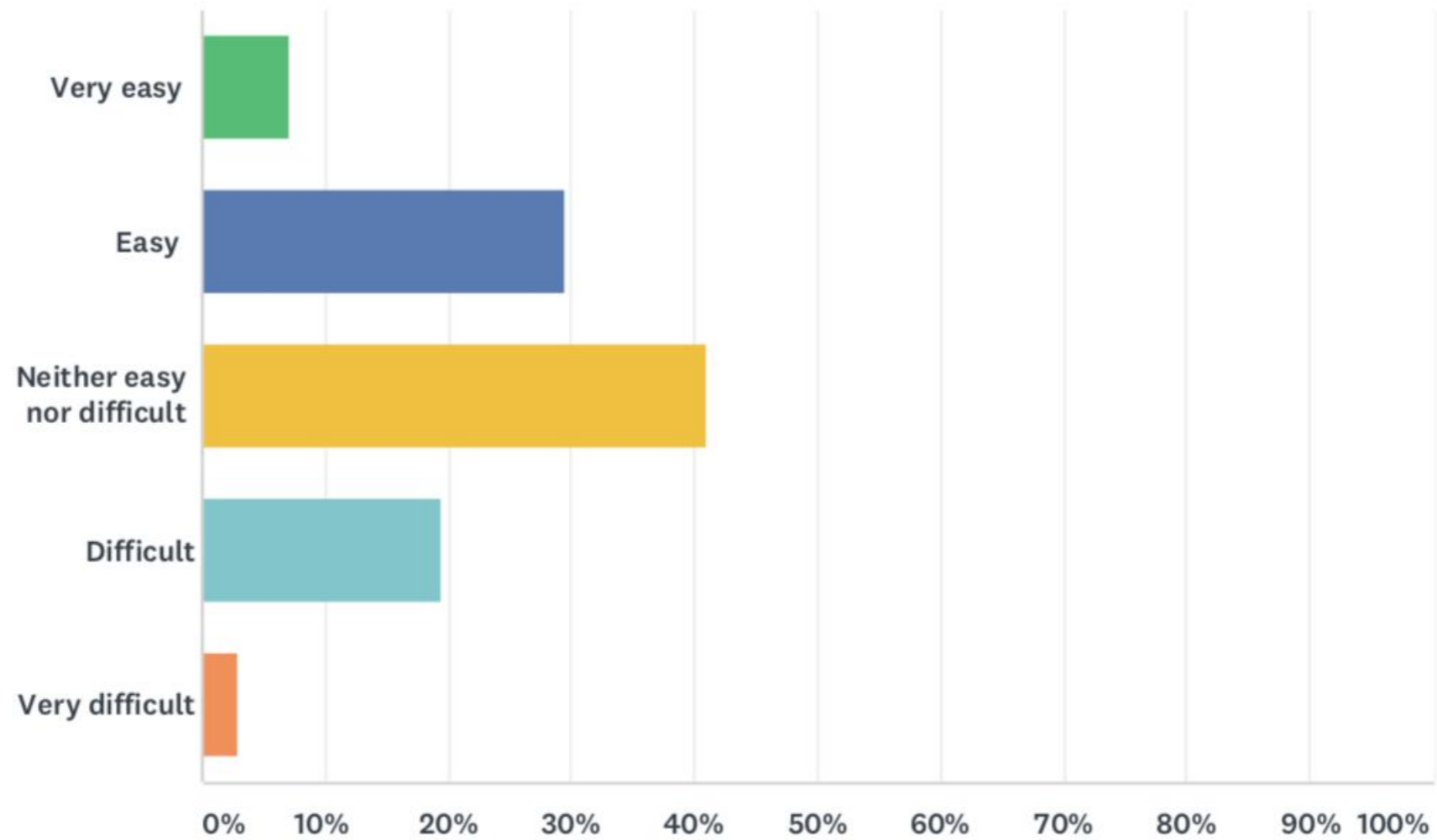
Answered: 140 Skipped: 0



ANSWER CHOICES	RESPONSES	
5	16.43%	23
4	14.29%	20
3	25.71%	36
2	15.00%	21
1	28.57%	40
TOTAL		140

Q6 How easy or difficult was it to complete the repair?

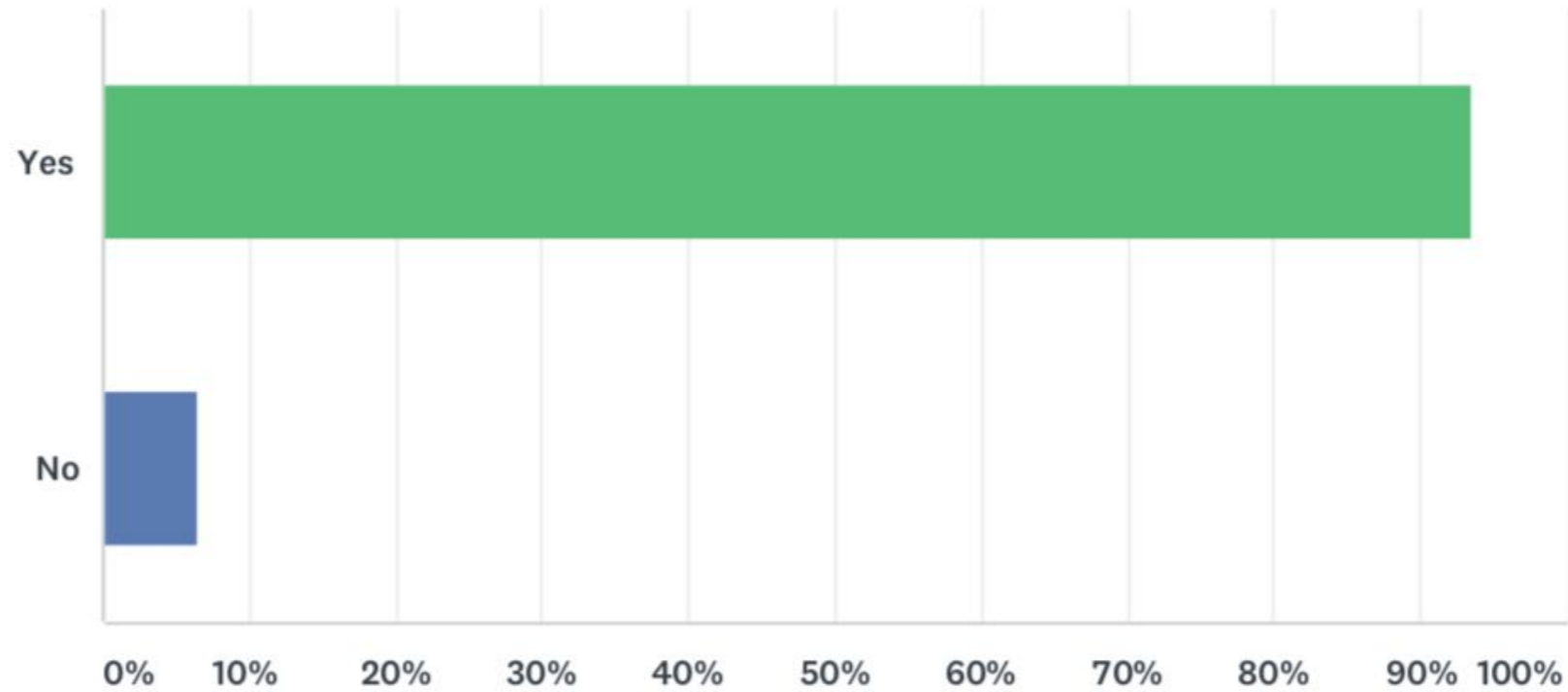
Answered: 139 Skipped: 1



ANSWER CHOICES	RESPONSES	
Very easy	7.19%	10
Easy	29.50%	41
Neither easy nor difficult	41.01%	57
Difficult	19.42%	27
Very difficult	2.88%	4
TOTAL		139

Q8 Would you consider using a Fix Kit should your device need repair again?

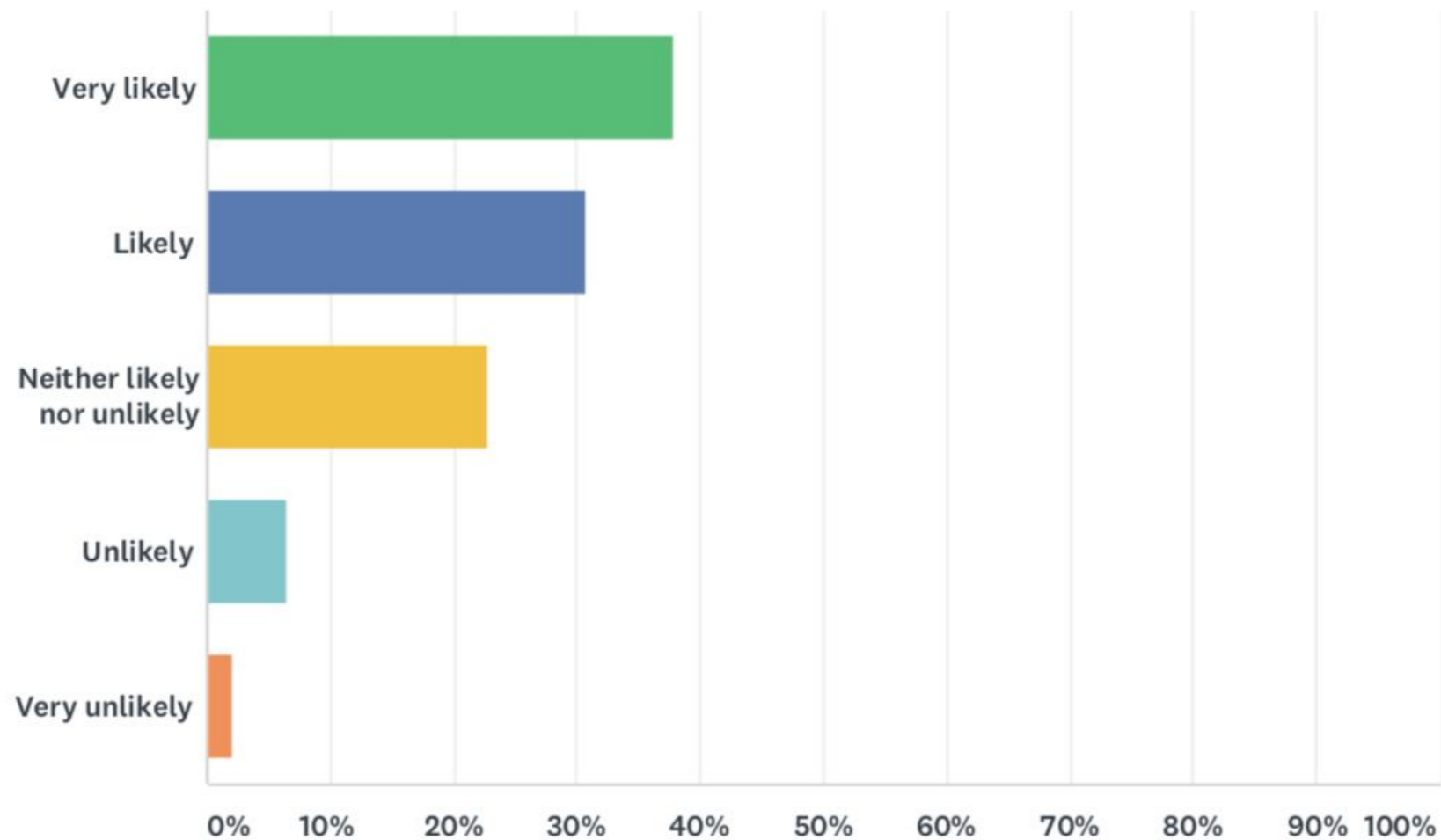
Answered: 140 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	93.57%	131
No	6.43%	9
TOTAL		140

Q9 Based on this experience, how likely are you to buy another Motorola phone in the future?

Answered: 140 Skipped: 0



ANSWER CHOICES	RESPONSES	
Very likely	37.86%	53
Likely	30.71%	43
Neither likely nor unlikely	22.86%	32
Unlikely	6.43%	9
Very unlikely	2.14%	3
TOTAL		140

CSAT Survey

“Repair worked out awesome! One week since repair & all phone functions operable. Thanks again IFixit, you saved me the cost of a new phone, well done!”

“Very clear instructions with good pictures. I don't know what could be done better.”

“The online repair guide with prior user comments was very helpful with some of the more difficult sections of the repair.”

“I liked knowing I was getting a genuine battery, and I was very surprised by the quality of the tool kit it came with.”

“Very pleased with the whole experience”



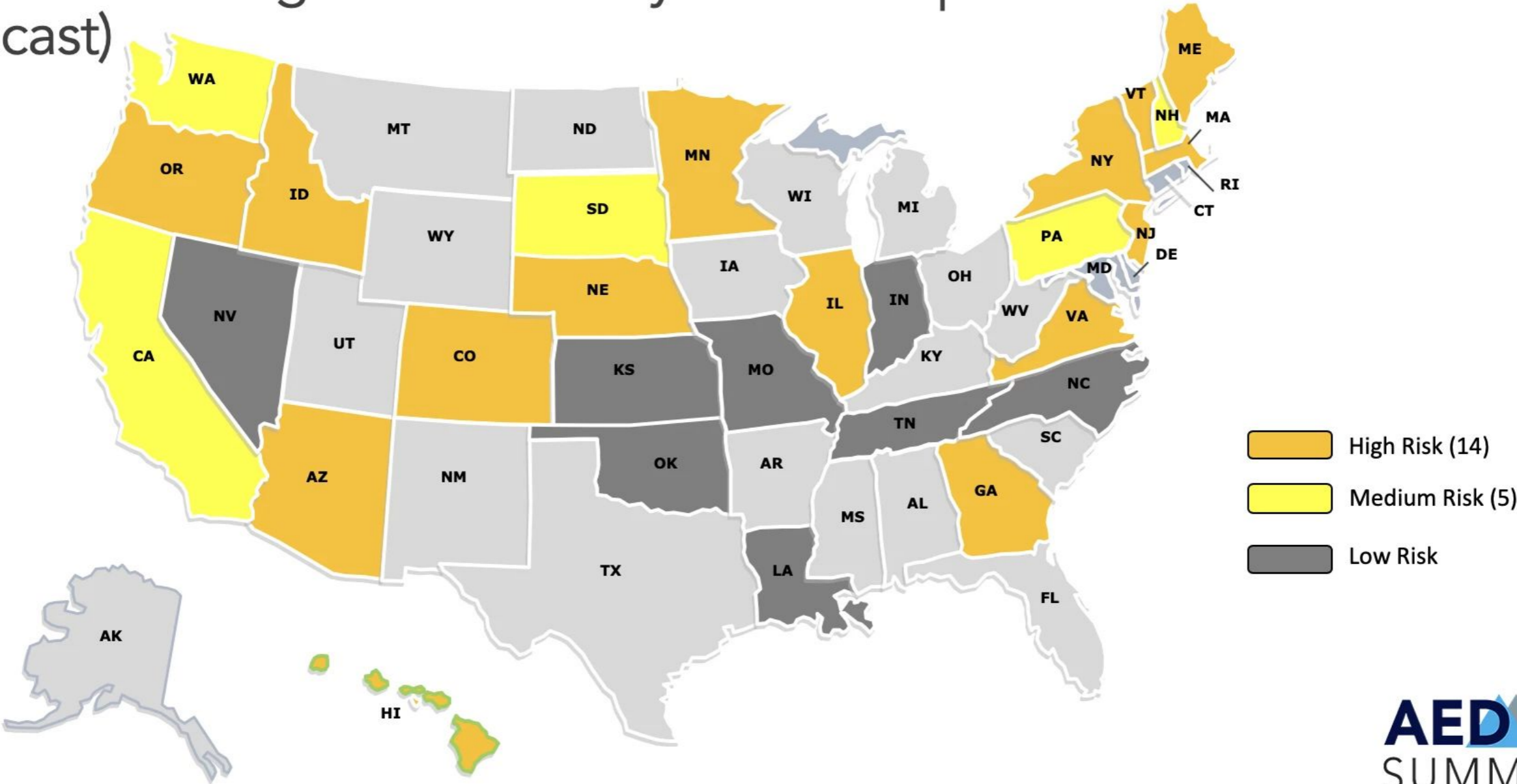


Right to Repair Legislation

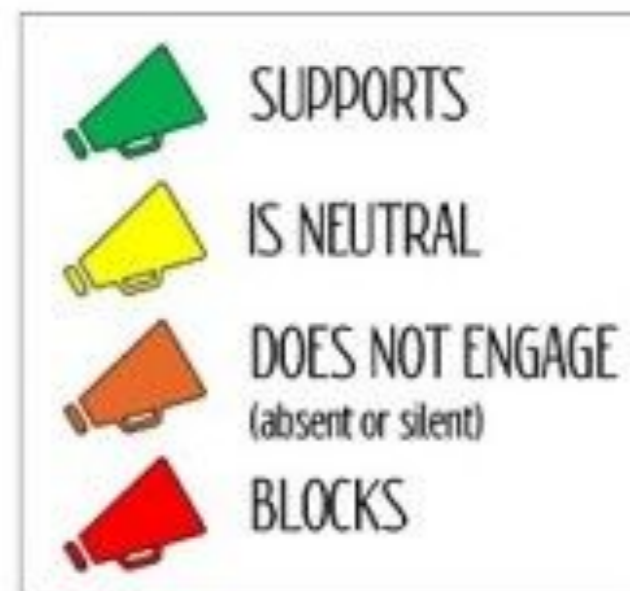
Parts + Tools + Know-how



2020 – State Legislative Activity “Heat Map” (forecast)



Does your country back ECODESIGN REQUIREMENTS on resource efficiency?



Overview of country positions on the European Commission Ecodesign proposals to facilitate repair and recycling of products based on participation in the last Ecodesign Consultation Forum meetings

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Electric goods 'should have repairability rating'

By Justin Parkinson
Political reporter, BBC News

🕒 3 days ago



GETTY IMAGES

The government must look at forcing manufacturers to put "repairability" scores on electric devices, opposition parties have said.

Fix, or Toss? The 'Right to Repair' Movement Gains Ground

Both Republicans and Democrats are pursuing laws to make it easier for people to fix cellphones, cars, even hospital ventilators. In Europe, the movement is further along.





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