Dealing with Existing Products

Can companies recycle old tech/chassis to upgrade to present specs or only making new tech more environmentally friendly/upgradable?

Buying new tech that reduces waste still creates waste over keeping what you had before

how long will it take before the benefits of this offset the costs of manufacturing it in the first place?

Can we find a way to make not standard parts fit a new standard (modding existing hardware instead of making new hardware)

Appeal

Will there be backlash to this from people who don't believe in climate change?

How could you make environmentally friendly devices popular?

Do consumers care enough to buy products that help the environment more?

How do we appeal to tech enthusiasts who feel very particular about what parts to use? How can we convince them to use eco-friendly methods over optimization?

Some kind of brand certification/badge would be helpful, like a sticker they can put on the box to let consumers know they're supporting sustainable electronics

Technical Challenges

How much does it cost to reduce the waste?

Can we make parts universal instead of fitting one company's ecosystem?

Are there security risks with anyone being able to modify a hardware product?

Would we have to regulate repair parts so they share the same format (ex. am4 cpu's, ram slots)

How to determine patents/rights of production: Does everyone get to make it or just a specific company if the design is changed?

Quality

Will this compromise build quality compared to a machine that can't be disassembled?

What will have to be given up if anything to make devices more environmentally friendly?

Will quality decrease post-upgrade/post-repair?

Can it be reliable?

How would this affect the maintenance process. Would it make upkeep more difficult?

Viability

Failed product in the past: Dell Alienware Area 51M

Successful product in the present: Framework Laptop startup

How would we convince companies to redo their current systems to match a more eco-friendly structure?

How can we incentivize companies to switch to more renewable methods?

can it be affordable for everyone?

There is always going to be a time frame before the general public will accept new technology. Will people really be interested this instead of what they're used to?