



What else can your phone do? (Problem)

In the US, 150 million phones are thrown out each year

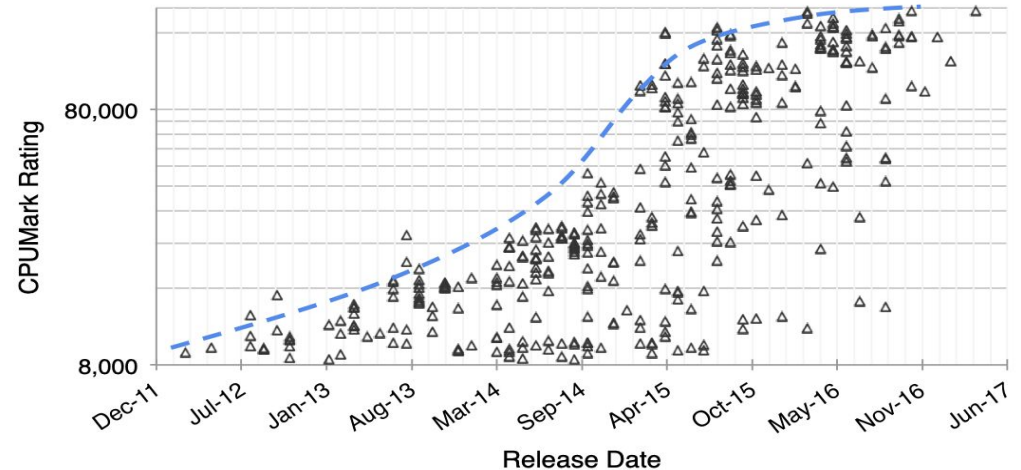


Let's reuse them instead!



What Value Does A Phone Data Center Bring? (Idea)

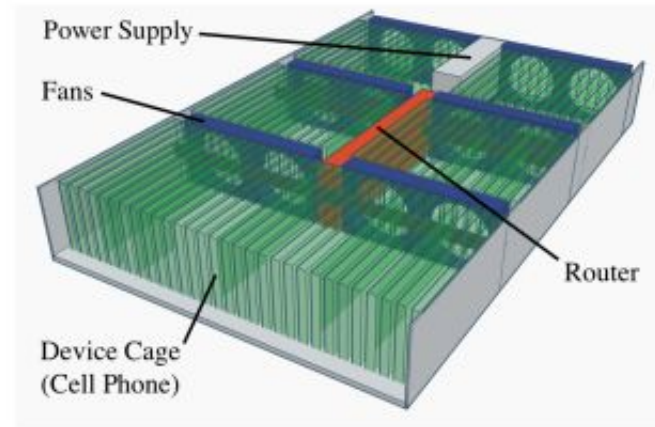
1. Extends the lifetime of the phones
2. Provides cost-effective compute
3. High battery capacity means we can adjust to meet power availability



Is this a crazy idea?

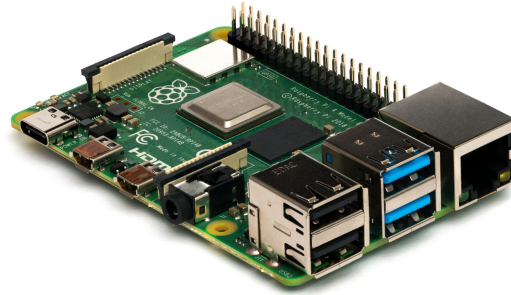
There's already existing related/research work around using non-reliable, cheap computers for compute jobs

- [Towards Deploying Decommissioned Mobile Devices as Cheap Energy-Efficient Compute Nodes](#)
- [FAWN: A Fast Array of Wimpy Nodes](#)

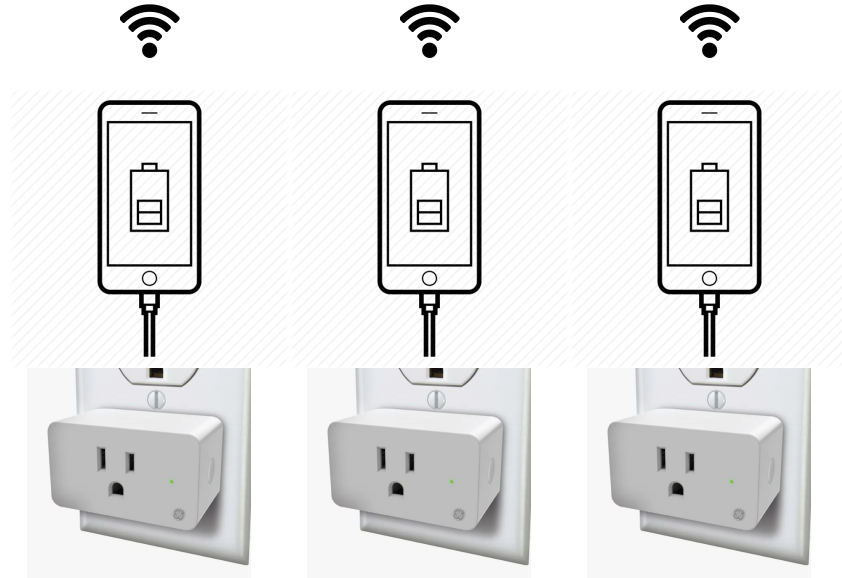


Proposed Solution

Raspberry Pi



Disposable Phones



Smart Plugs

Subteams & Deliverables

Mobile OS

- Ruohan, Jen



Benchmarks

- Emmanuel



Task Distribution

- Subhash, Eric



kubernetes