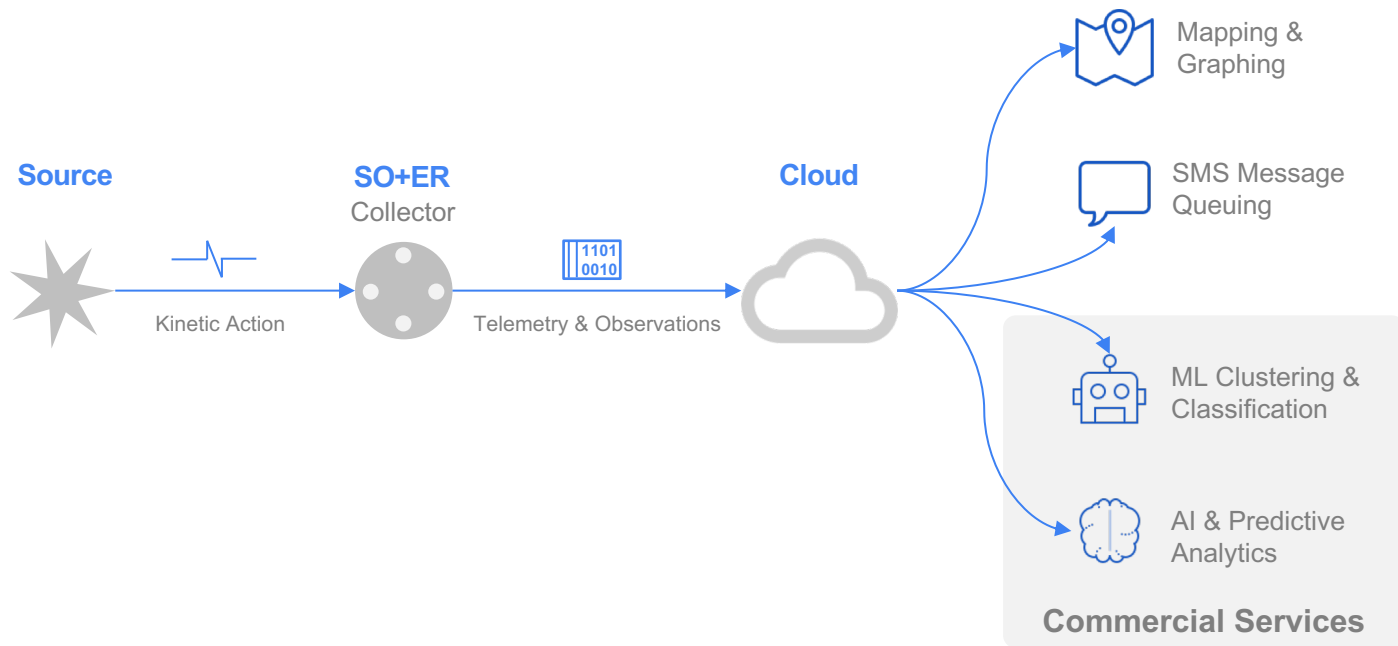
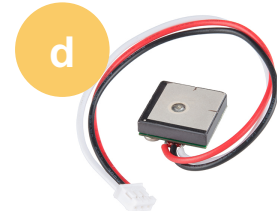
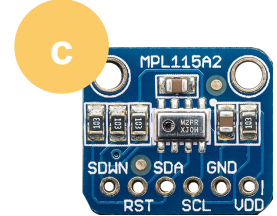
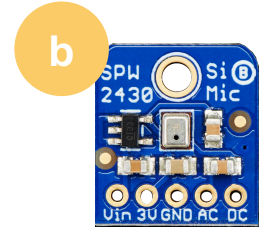
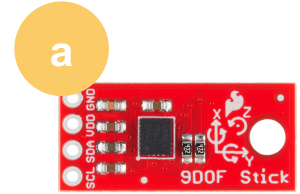
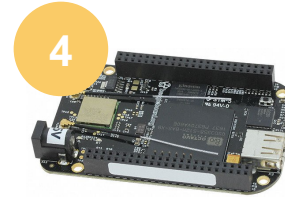
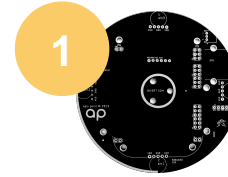


So, what does it do?



Stuff you'll need to build it

1. SO+ER PCB (x1)
2. SO+ER Enclosure (x1)
3. [Headers](#) (x2)
4. [BeagleBone Wireless](#) (x1)
5. Sensors
 - a. [9DOF](#) (x1)
 - b. [MEMS Mics](#) (x4)
 - c. [Temperature](#) (x1)
 - d. [GPS](#) (x1)
6. uxcell M3x3mm
 - i. [Phillips Round Head Nylon Machine Screw Bolt Fastener](#) (x3)
 - ii. [Female Thread Brass Knurled Threaded Insert Embedment Nuts](#) (x3)



❖ See the Bill of Materials (BOM) for a detailed list of COTS components, sensors, and other parts.

Who
builds
this
stuff?
It's DIY ;)

PCB Manufactures

- Seeed Studio Fusion PCB (China)
- OSH Park (USA)

Flashing the 4GB microSD Image

MacOS

```
dd if=soter.img of=/dev/rdev# bs=10m
```

Linux

```
dd if=soter.img of=/dev/dev# bs=10M
```

Pop the microSD in the BeagleBone and power on.
The BeagleBone powers off when flashing
completes.

Enclosure Manufactures

- Shapeways
- 3D Hubs

Cost Est. Min
\$200_{USD}

SO+ER Architecture: Overview

The call-outs below identify the various architecture elements found in a diagram.

- 1 Thin Client Devices
- 2 HTTP Path
- 3 SO+ER Device | Platform
- 4 HTTP Server
- 5 Proxy Microservices
- 6 Sensor Test Applications
- 7 Internet Path
- 8 Persisted Configuration Files

