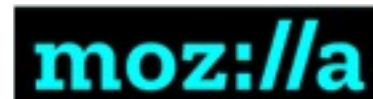# Project Lighthouse
and stuff we learnt along the way

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moz://a Connected Devices

About us

- We're Mozilla Connected Devices.

- Internal <u>non-profit</u> startups.

- We care about users.

- ... and we're trying to ship products.

Step 1.
Idea to prototype

Sometimes, a solution…

- Cheap Cameras + CPU + ? = cool

- Cheap Cameras + CPU + surveillance $\neq$ cool

…meets a problem

- ~285 million visually impaired people (source: WHO);

- many need help to shop/recognise household items;

- need a device to help you live independently? rake $2,000+.

- can we do something cheap, open source, open hardware?

Let's help vision-impaired people recognise household items

Ingredients

 + +

 + + x2

Ingredients (2)

+ x24

Full disclosure: These are not our real users.

If it hasn't been tested by users,
it doesn't work!

Results of step 1

- This device will definitely fill a need

- …if it remains cheap;
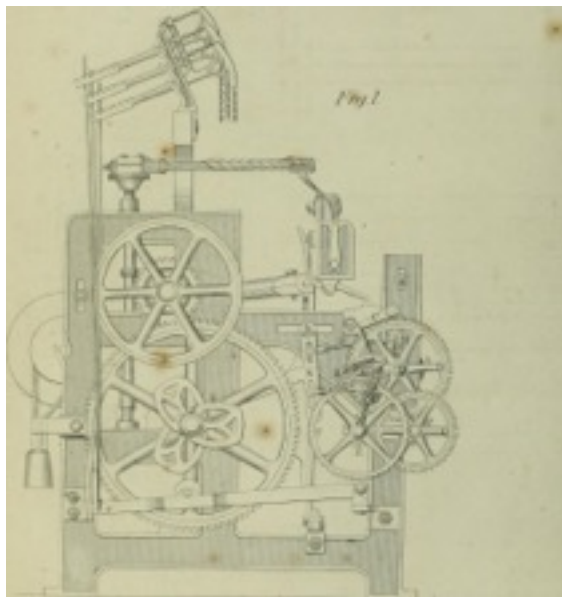
- …and simple;

- …and has a good form factor.

Step 2.
Prototype to product

It can't be hard, can it?
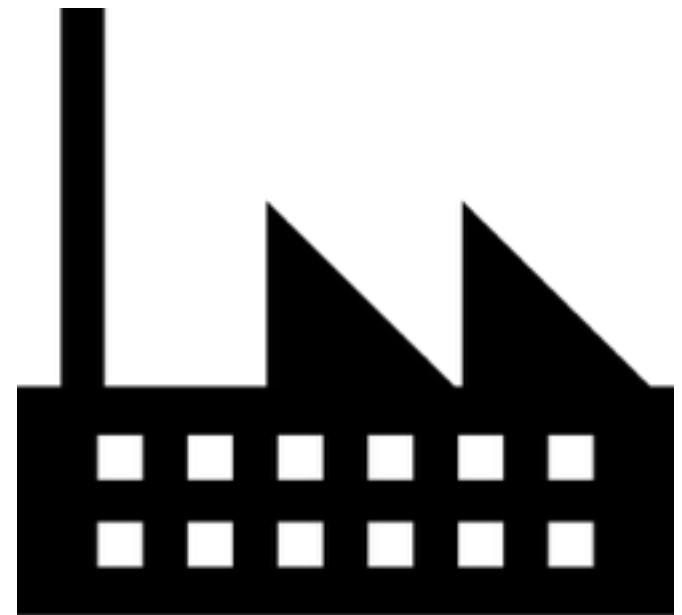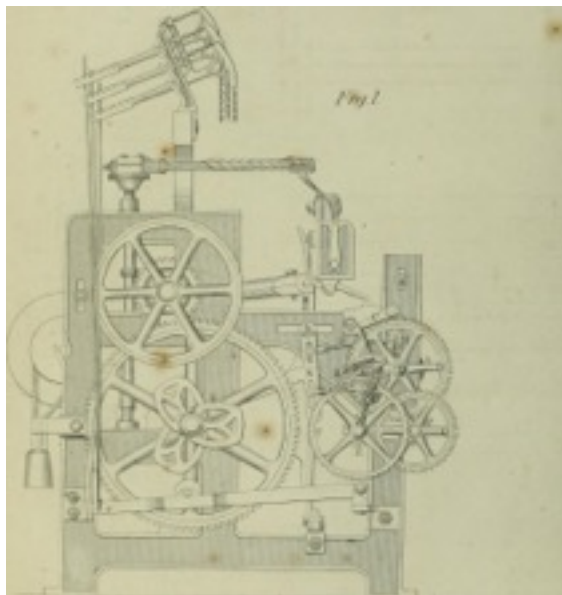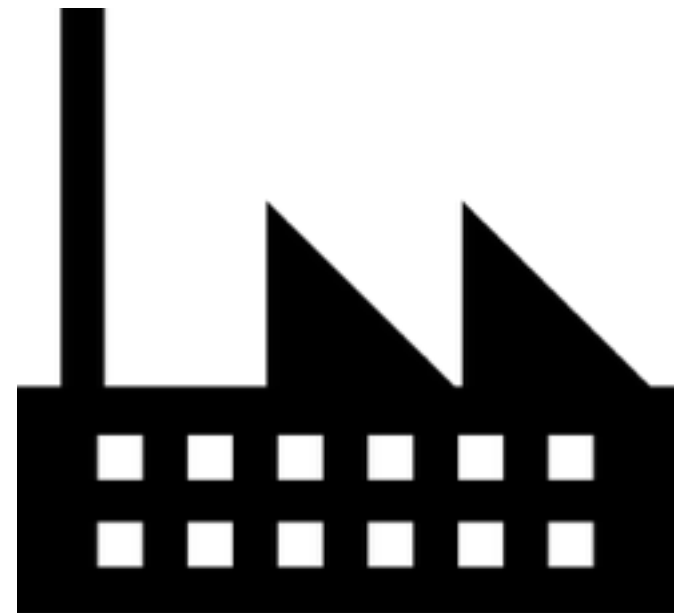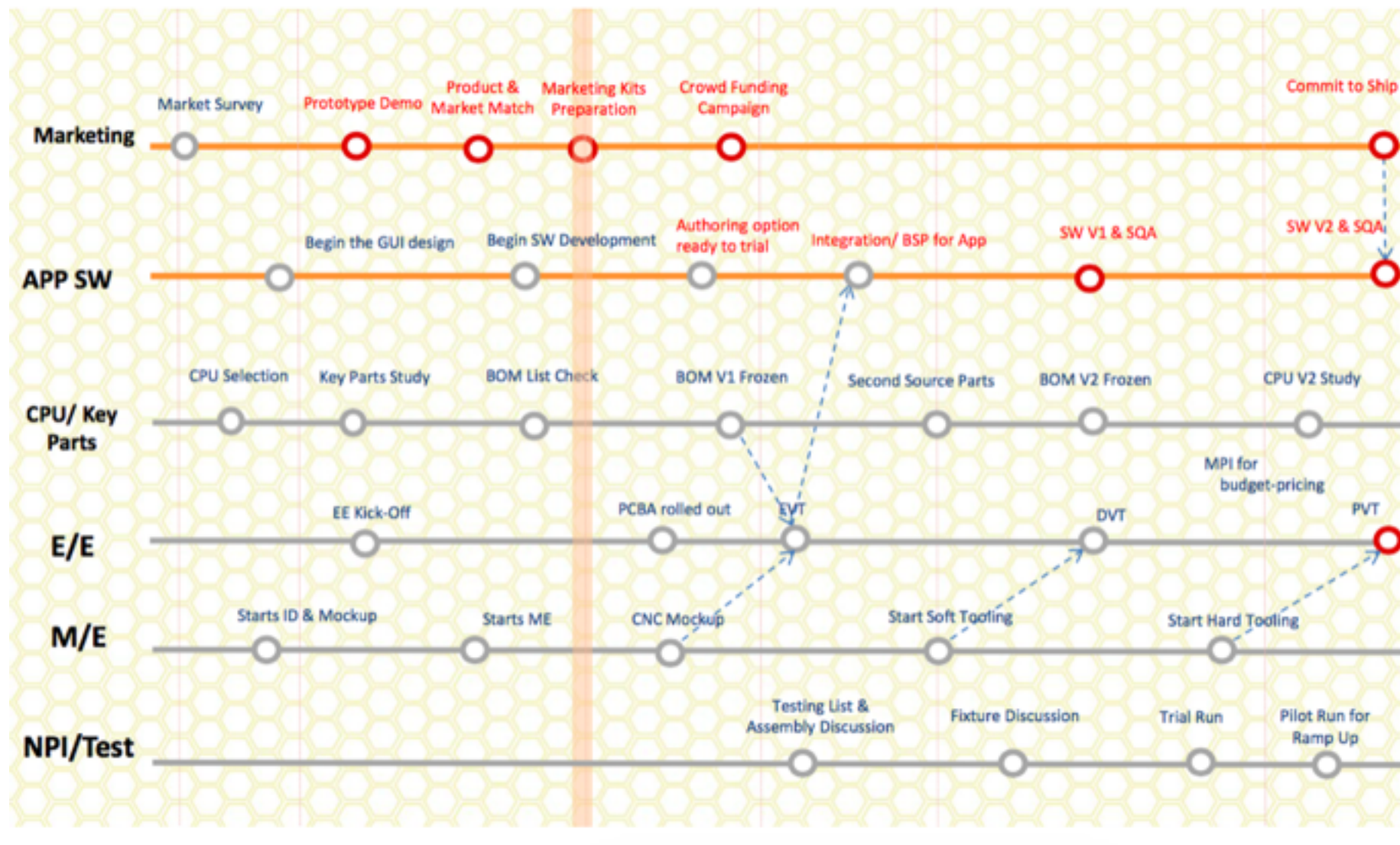
Ingredients

Ingredients

Process!

Process!

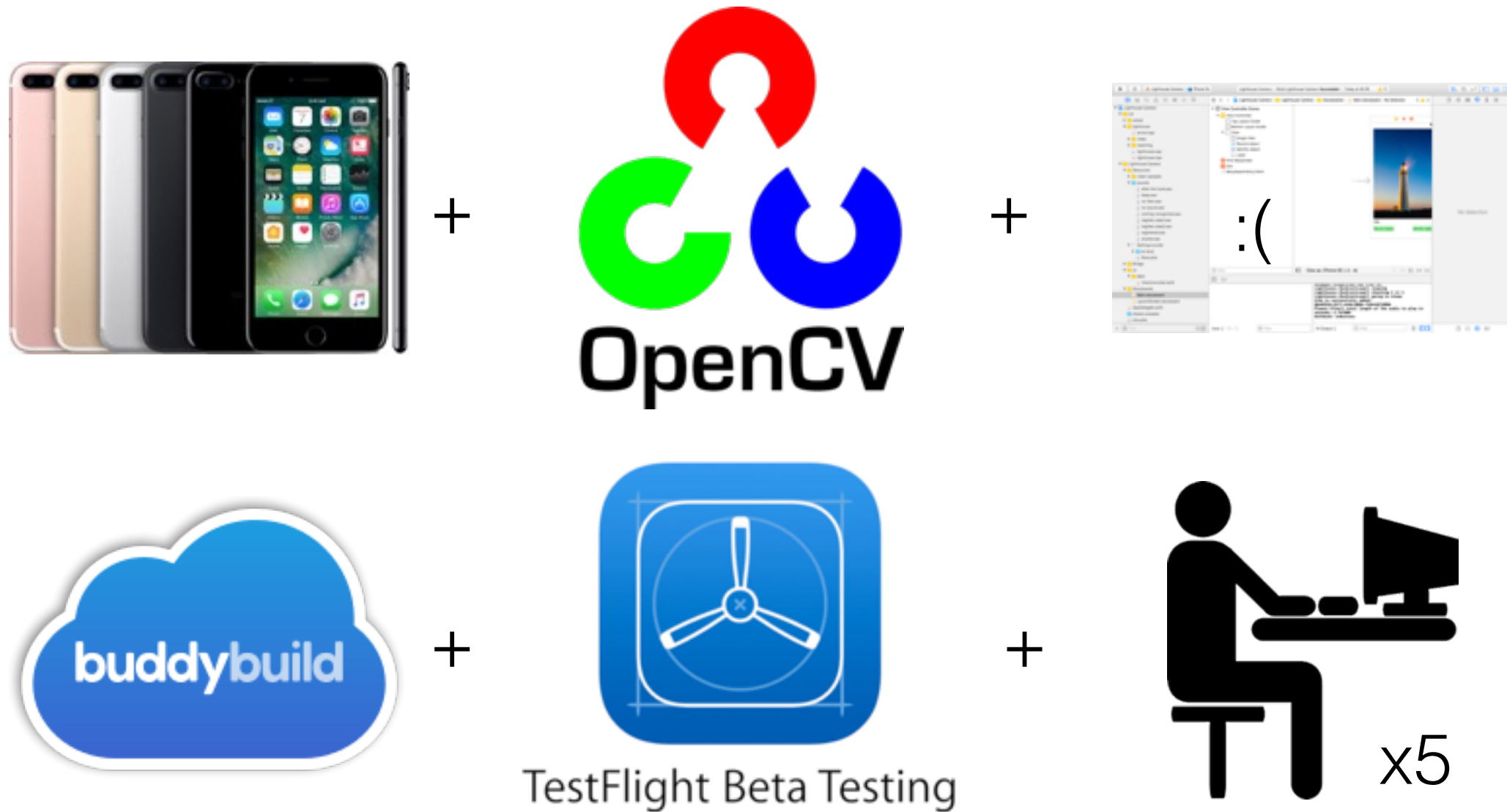**YES, MUCH HARDER AND MORE COMPLEX**

Estimate: 6+ months
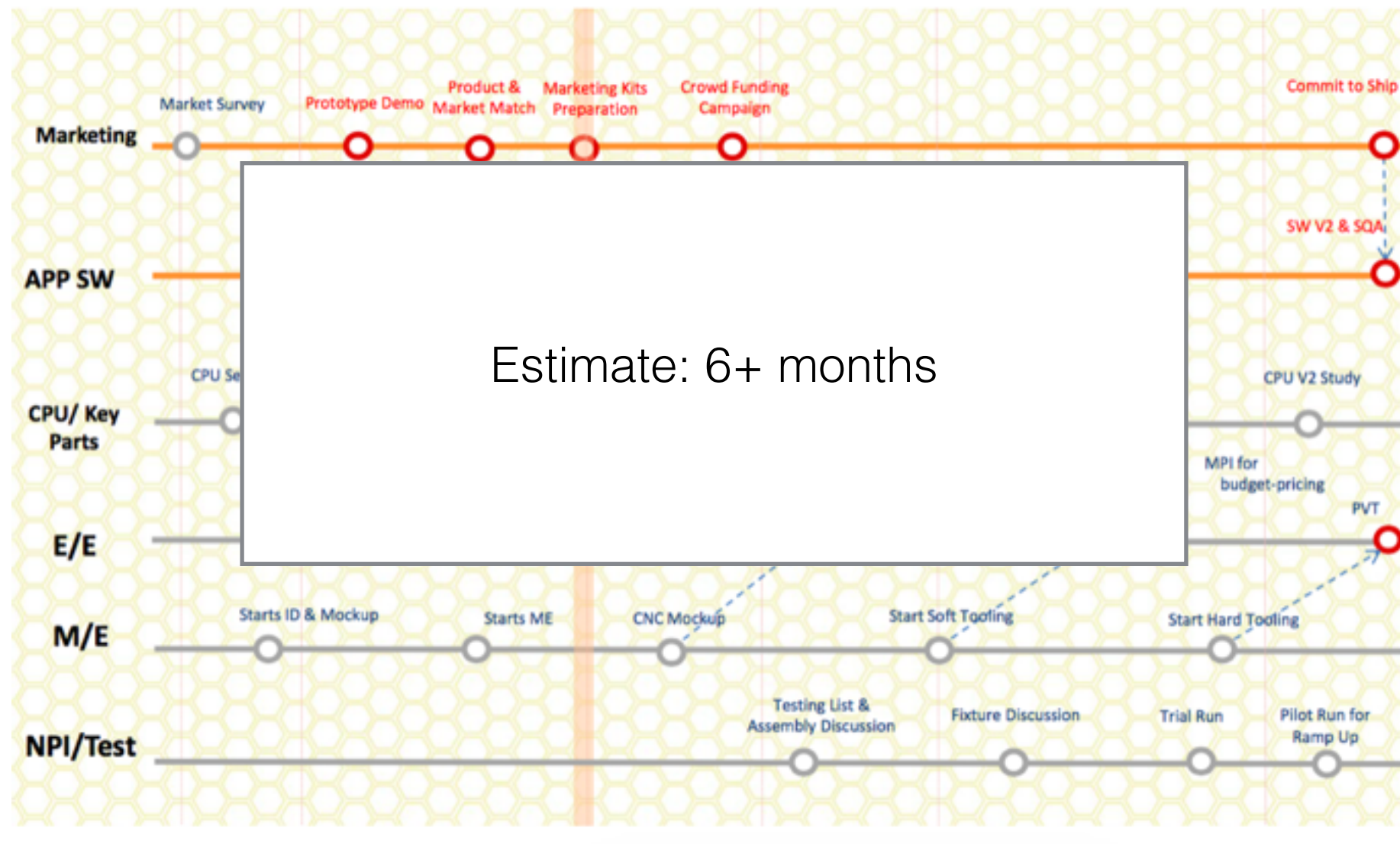
How do you iterate without devices?

- Use hardware *that people already own* (smartphone, tablet, tv, …).

- Find out which hardware *your users* have!

Ingredients

Our next steps

Soft prototype

- Iterate on Computer Vision, with real use cases.

- Iterate on Usability/Accessibility, with real users.

- Iterate on Features, with real users.

- Make it social: Connected Device doesn't need to be Big Brother-only!

Hard prototype

- Custom devices are expensive, avoid bankruptcy!

- Iterate on form factors with "fake" devices.

- Negotiate prices down.

And lots more!

- Insurances.

- Lawyers.

- Non-profit associations.

- Kickstarter?

To be continued

Maybe at FOSDEM 2018

https://github.com/project-lighthouse

https://discourse.mozilla-community.org/c/connected-devices/project-lighthouse