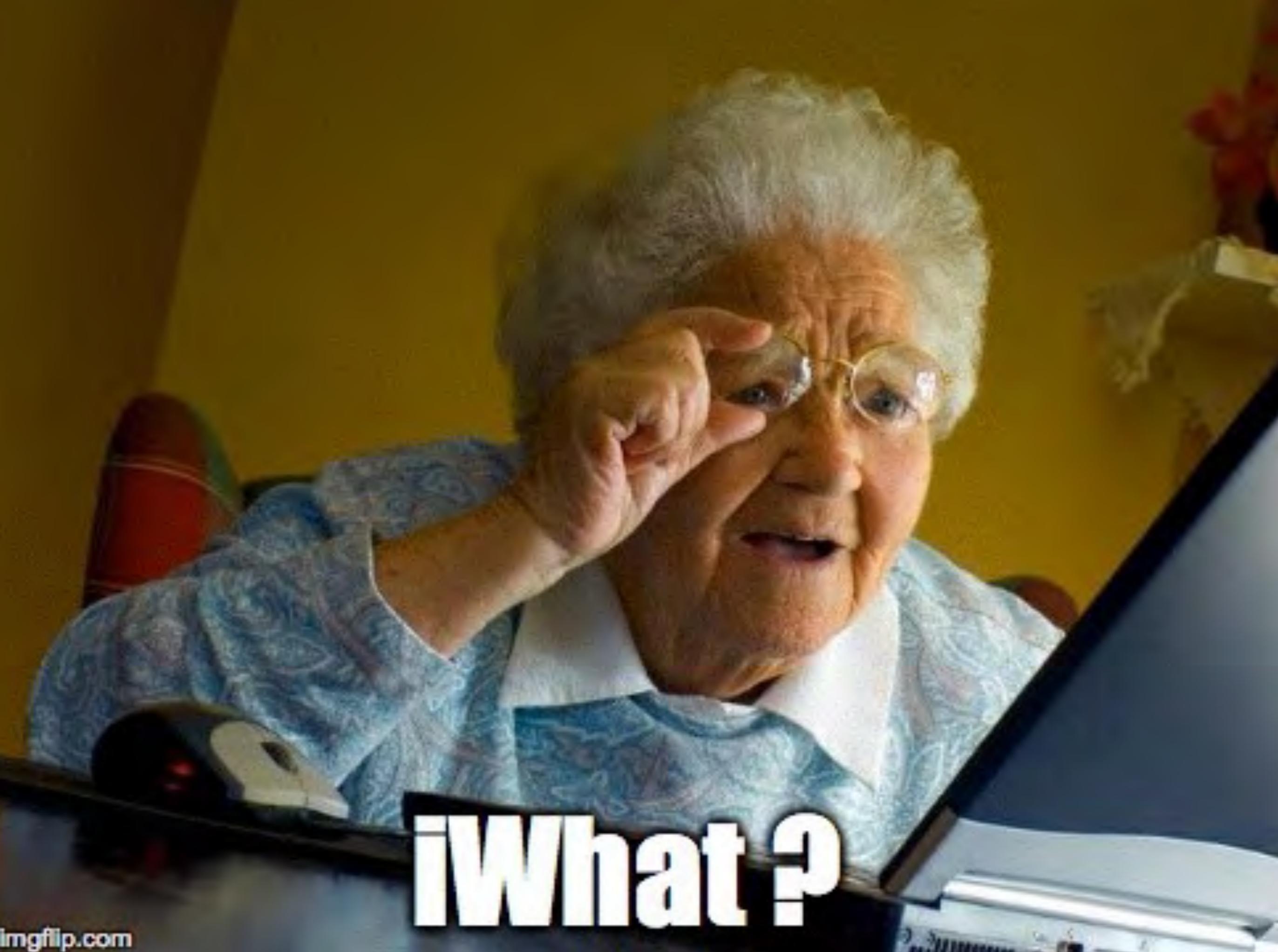


visio

Vesta

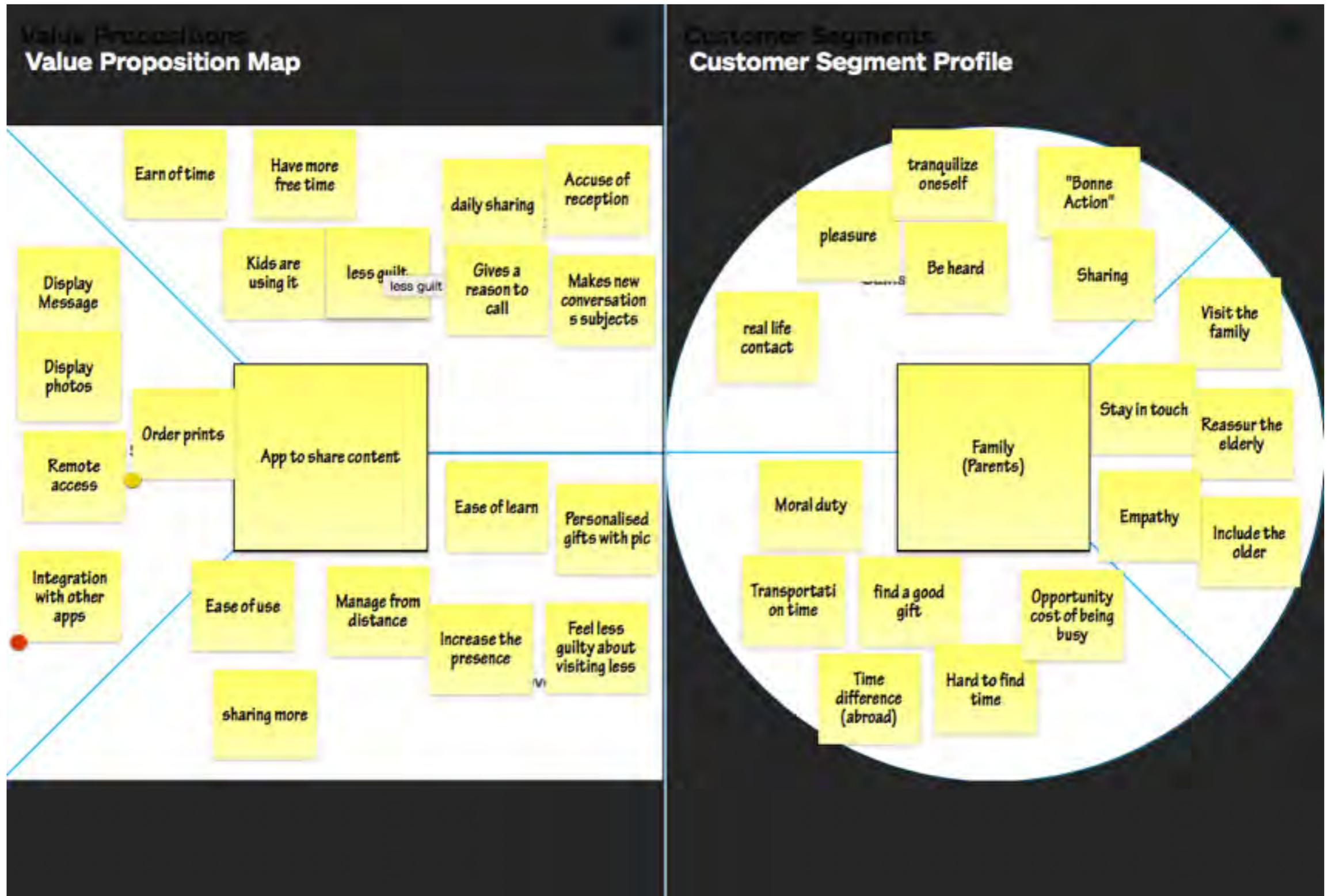




iWhat?



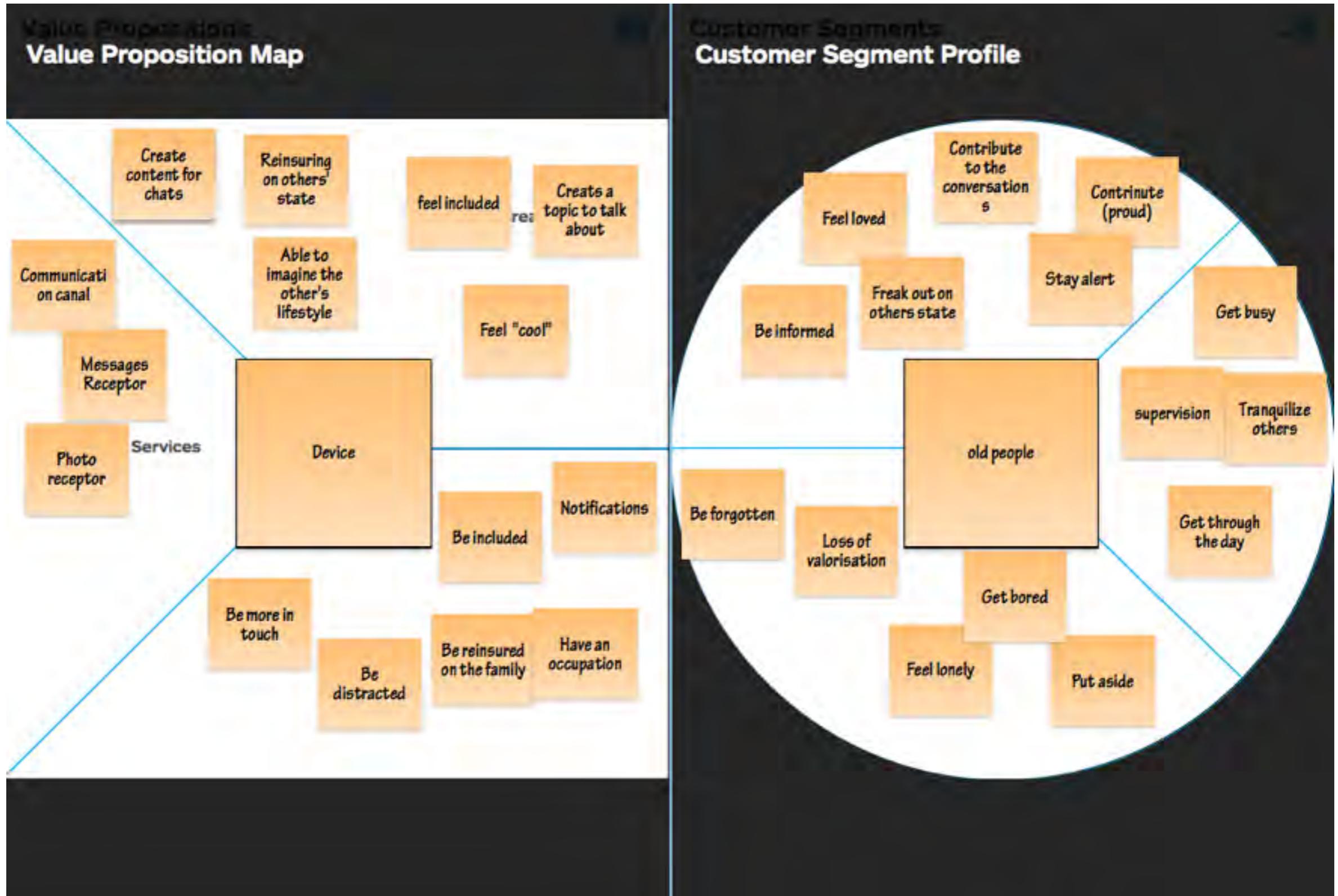
Sandwich generation

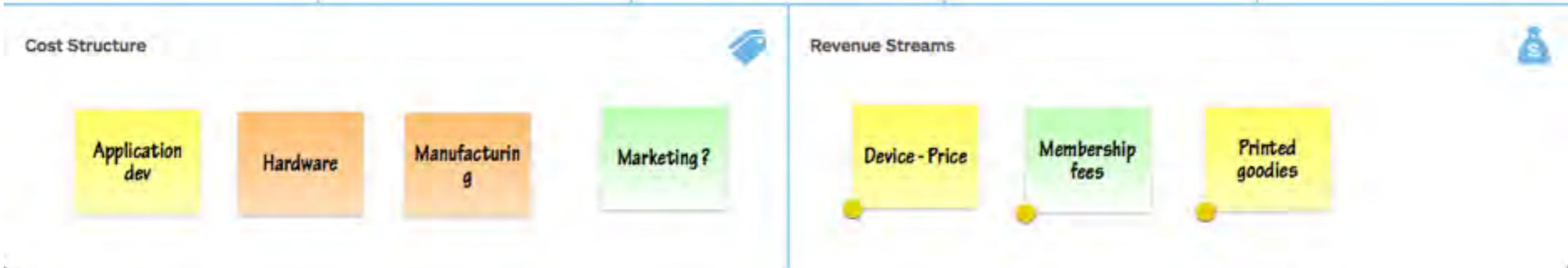
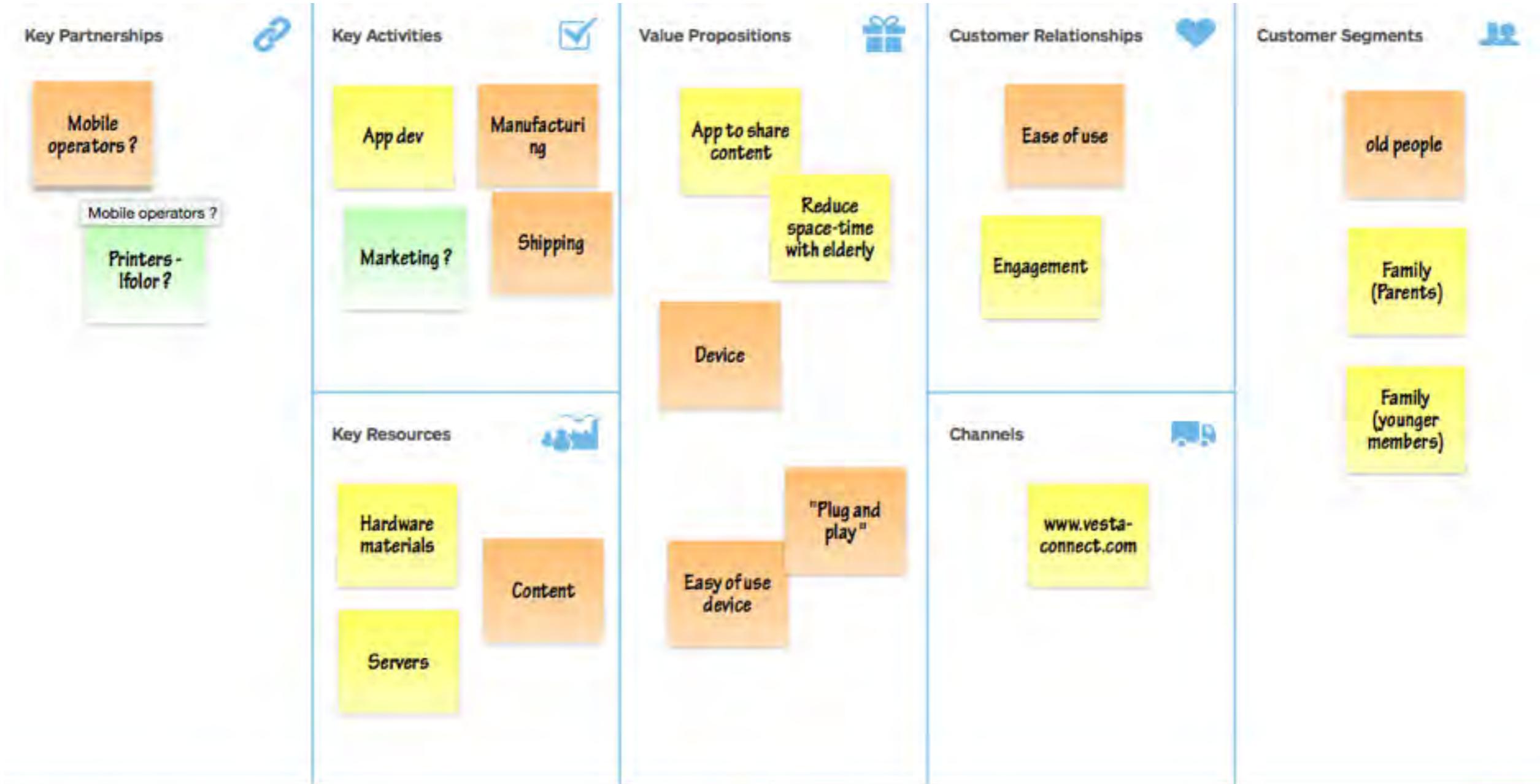




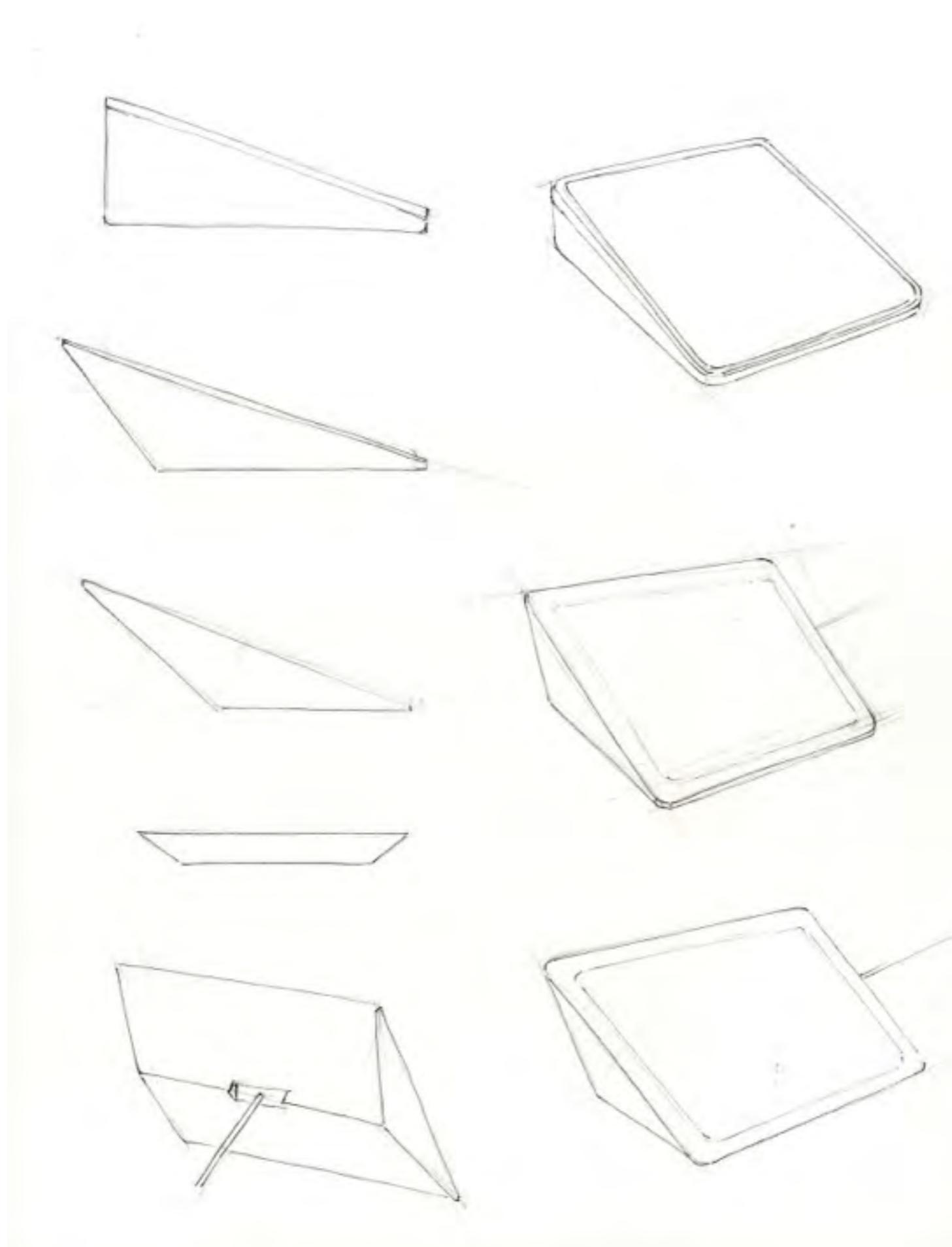


Elderly (from age 65+)





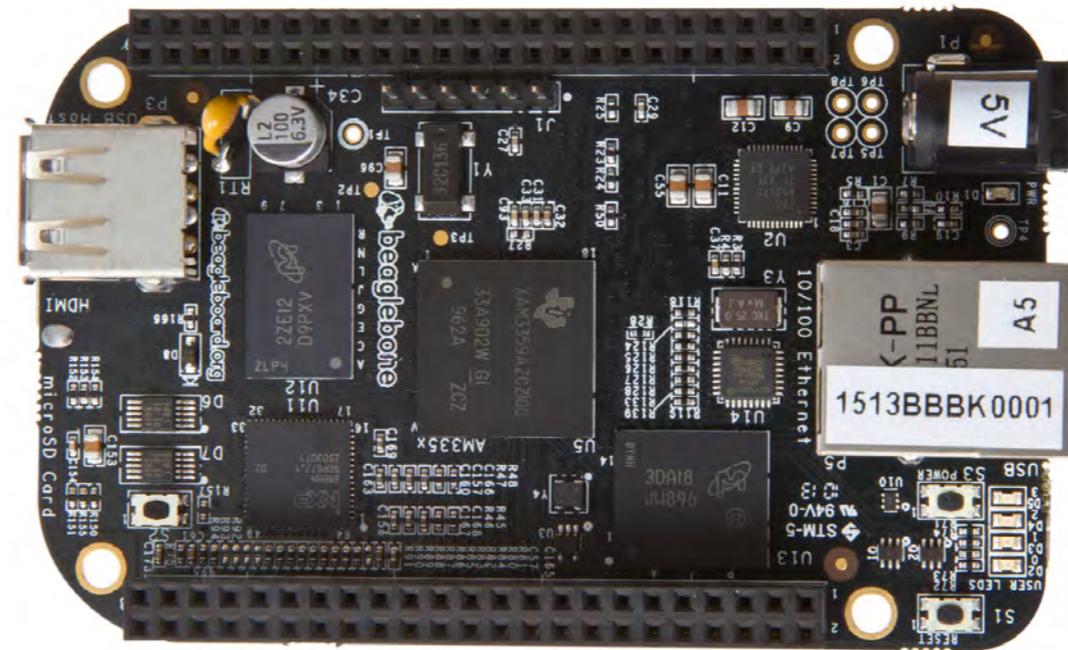
sketch





Hardware solutions : CPU

BeagleBone Black



- Linux
- 1 GHz
- GPIO
- Documentation

Wifi: esp8266



Gsm: Arch GPRS V2



Touchscreen

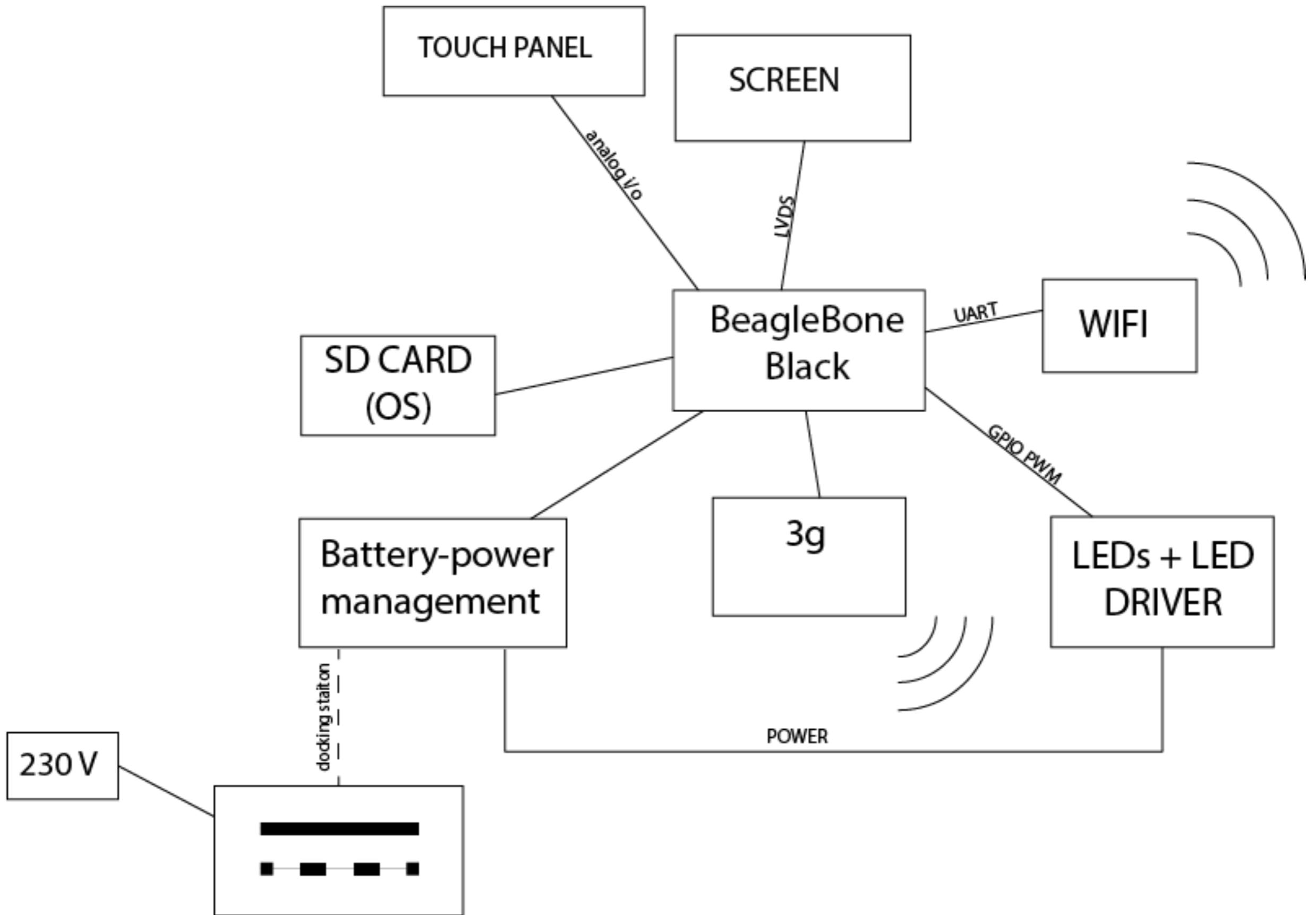


Switching power supply

&

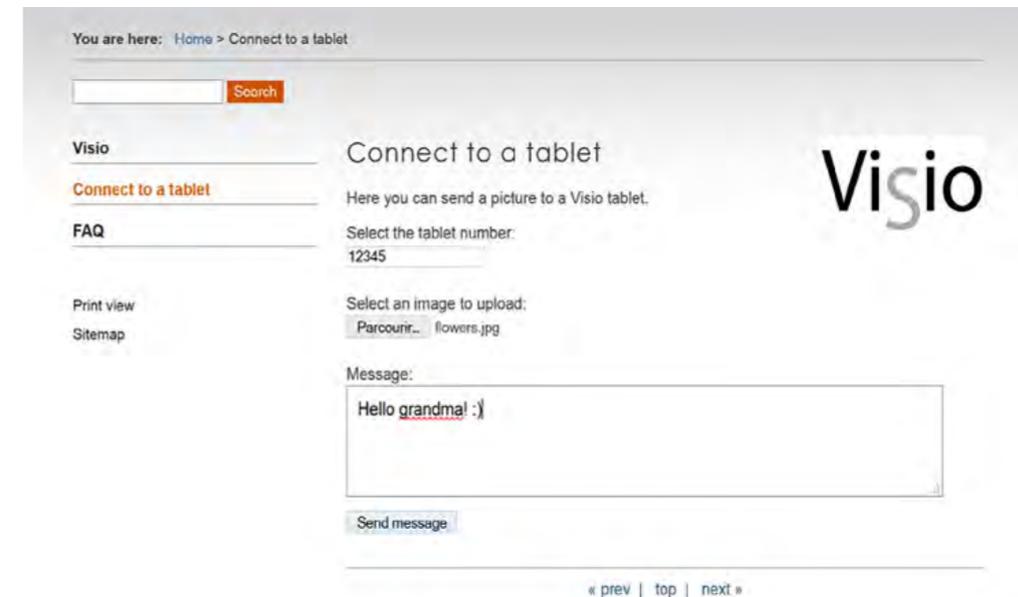
High power leds





Software solutions

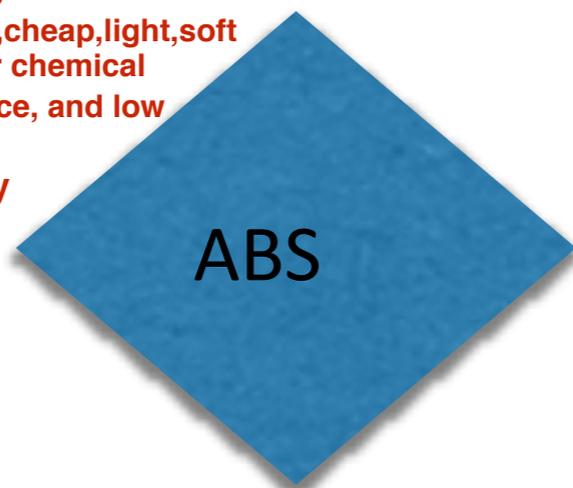
- The beaglebone's OS is debian (linux) and the software is programmed in C with the open-source graphical library QT.
- The website is developed with php/mySql and with a CMS base.



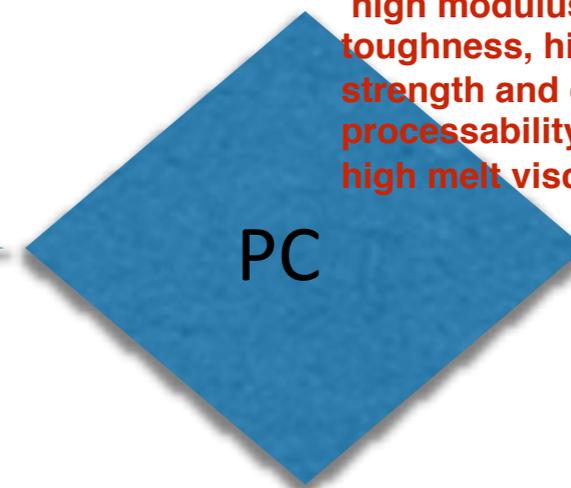
Material Selection

	Melting point/°C	Tensile strength/Mpa	Izod impact/J/m2
ABS	less than 100	35	10k
ABS/TPU	87~92	30	370~480
ABS/PVC	56~72	38~40	175~412
ABS/PC	110~160	35~60	~40k
PC	220~230	~60	95k

easier to process, cheap, light, soft but poor chemical resistance, and low thermal stability



different proportion



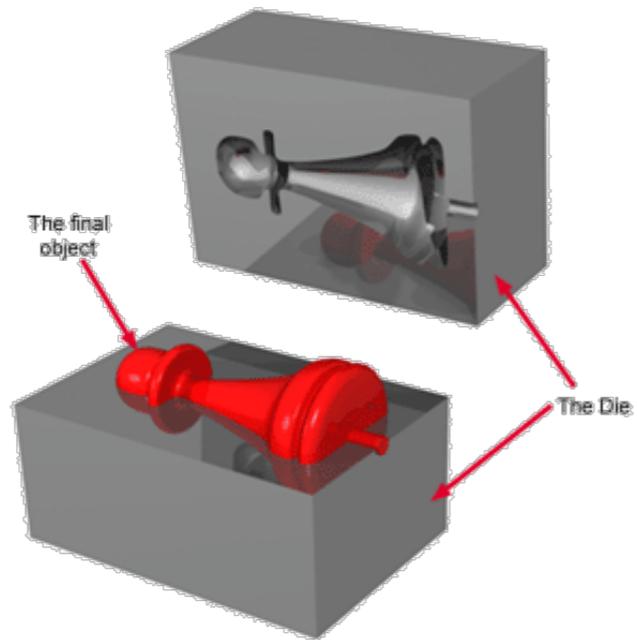
high modulus, high toughness, high impact strength and difficult processability due to its high melt viscosity.

Prototyping

3D Printing



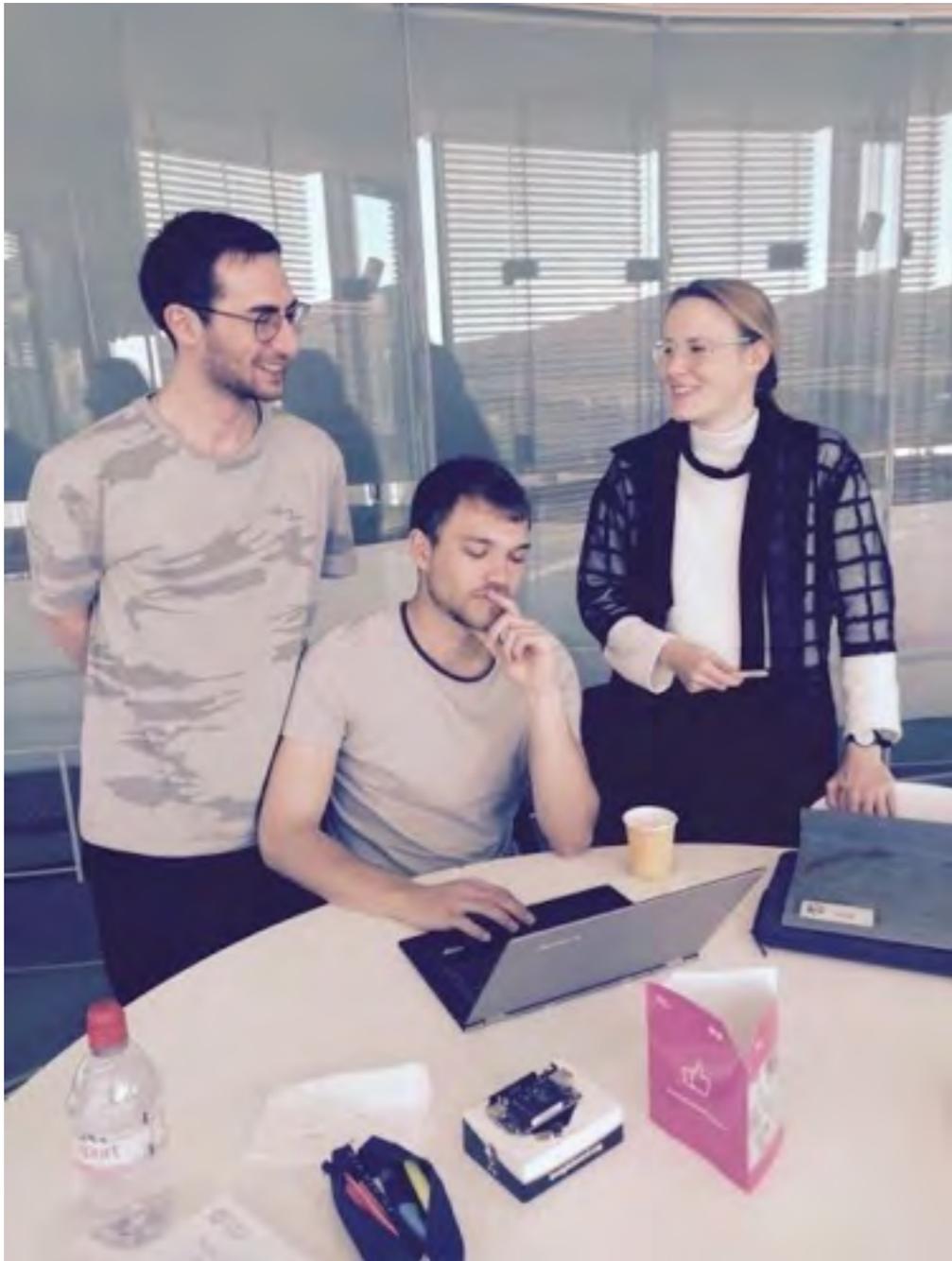
Injection Molding



Laser Cutting



Team work



Google drive

Facebook

Meetings at least once a week

Let's reconnect with the elderly

