

SensAct

A Flexible Open Source Sensor Hub for AAC

ISAAC 2016



Who are we?

Bruyère is the sole provider of complex continuing care in Ottawa, Canada.

Bruyère in Numbers

Total beds	731
Physicians	201
Employees	2,087
Volunteers	600

Primrose Family Medicine Centre	22,822 patient visits
Bruyère Family Medicine Centre	38,886 patient visits
Bruyère Village	227 apartments

Bruyère AAC Clinic

What we conventionally did.

Assessment

- > Find suitable switch
- > Fit ?

Bruyère AAC Clinic

We then started using
non-specialized sensors.

Assessment
-> Custom device/ programming
-> Adjust for a better Fit

Motivation easily enable AAC communications

Using inexpensive, flexible sensors;
Enable connection in multiple modes

Current switch control some issues

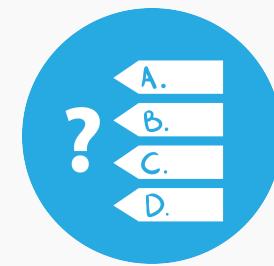
(often)
expensive



(usually)
limited



(can be)
cumbersome



Our objectives

Flexible
inputs

Beyond
conventional
sensors: any & all
analog sensors
Also, I²C sensors

Multiple
outputs

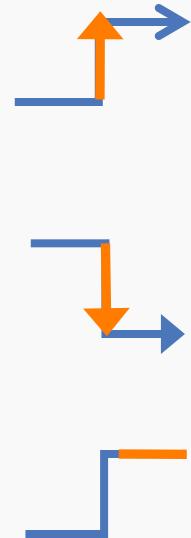
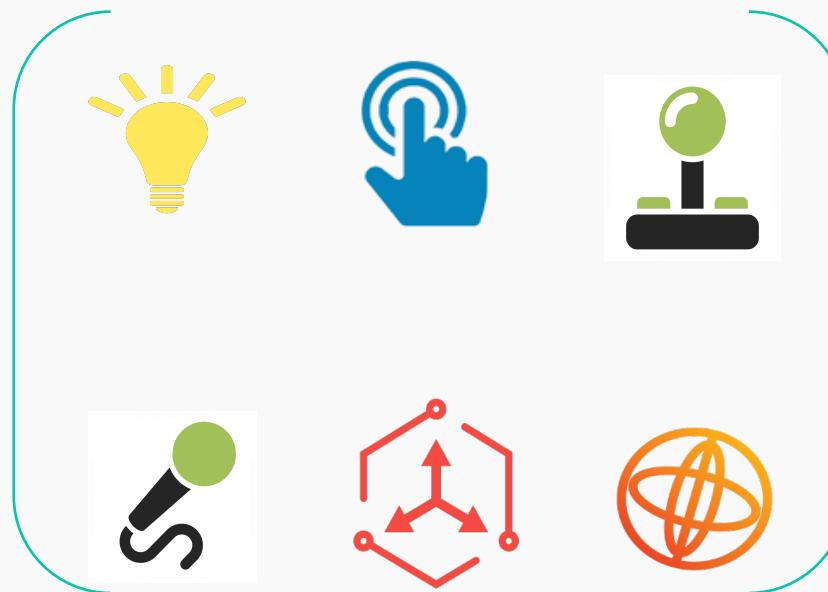
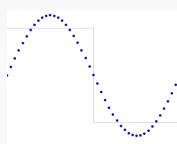
Control multiple
and diverse
devices

Easy
configuration

Cross platform;
Easy to configure

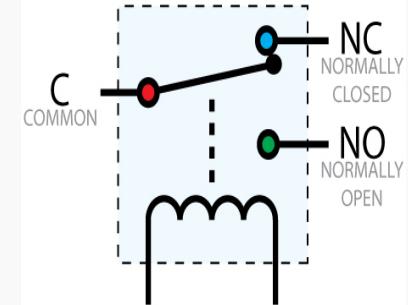
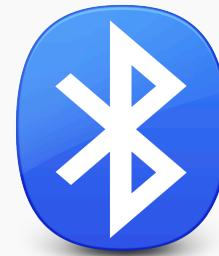
SensAct

Flexible
inputs



SensAct

Multiple
outputs



SensAct

Compatible
with smartphones,
tablets & desktops,
TVs, environmental
control, call bells

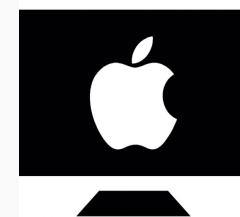


SensAct Quick Start

Standard
3.5mm jack



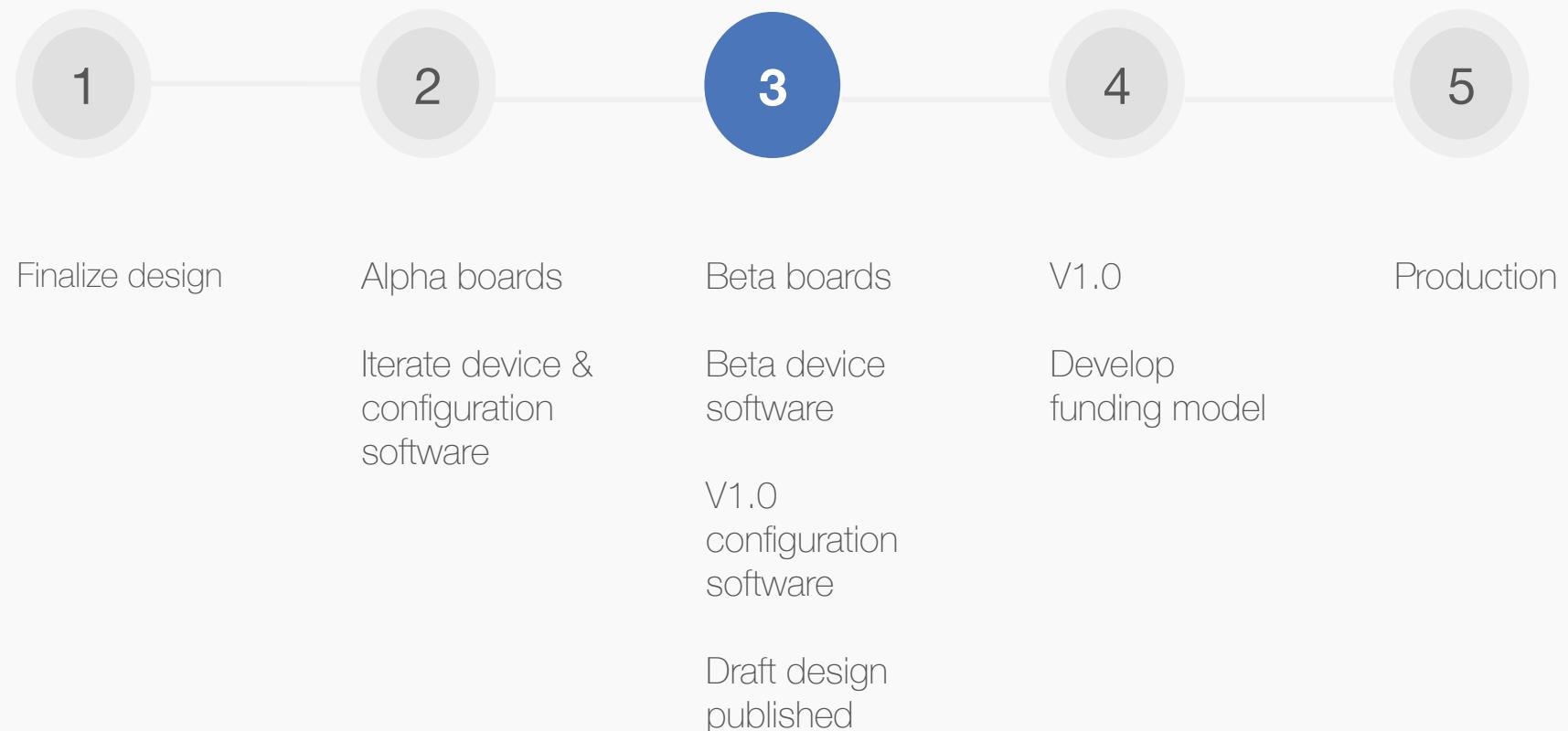
Cross
Platform



Easy to
configure



Our roadmap



<https://github.com/AbilitySpectrum/Sensact>

The Team



Bocar Ndiaye
Assistive Technologist



Hilary McKee
Occupational Therapist



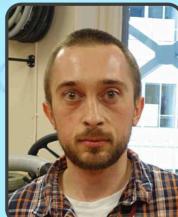
Ellen Andrews
Speech Pathologist



Krista Curtis
Speech Pathologist



Julia Luke
Speech Pathologist



Philippe Prévost
Wheelchair/Mounting
Technician



Heidi Duhaime
Coordinator,
Volunteer Resources



Bill Dawson
Volunteer



Bruce Braidek
Volunteer



Yih Lerh Huang
Volunteer

Thanks for listening

We would greatly appreciate your
feedback!

-> visit our booth <-