HERE-U

Shadrick Addy, Jessye Holmgren-Sidell,

Matt Lemmond, Krithika Sathyamurthy



ANDREA

HR Assistant

DHH: PROFOUNDLY DEAF WITH TWO COCHLEAR IMPLANTS

USER JOURNEY MAP - ANDREA

PROFOUNDLY DEAF

	12:00	12:02	12:30	1:15	2:00	2:30	2:35
TIME	Rides elevator downstairs with two coworkers	Orders food at a restaurant and eats her lunch with friends	Use the stairs to walk off her meal	Conducts a an in-person one-on-one interview for the HR department	Listening to a fire drill announcement while walking back to her desk	Files outside with the rest of her office when fire alarm goes off	Makes small talk with HR department while they wait on the sidewalk for the fire drill to be over
PAIN POINT(S)		Server speaks quickly and it is difficult for Andrea to read lips and understand her with the loud restaurant background noise	The stairwell is too echoey for Andrea to participate in conversation	Job candidate speaks quickly and mumbles her words, so Andrea has to the woman torepeat herself several times	Cannot understand the garbled voice and has to ask coworker what is going on		Has difficulting hearing the discussion and determining who is talking
моод	Content	Frustrated	Anxious	Uncomfortable	Confused	Tired	Irritated
EXPERIENCE	POSTIVE	2)———()(

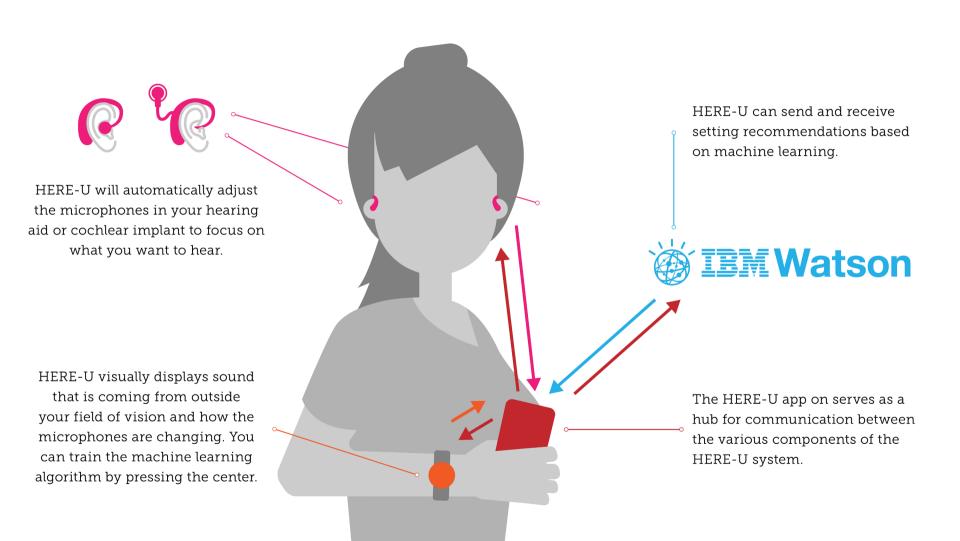
USER EXPERIENCE GOALS

- Adapts to conversational settings
- Improves conversational experience with friends and colleagues
- Strengthens social and professional relationships

Andrea is going into work. She plans to have

to lunch with her coworkers today and hopes

that the restaurant is not too noisy...









ANATOMY OF A HERE-U

<u>UNIQUE</u> FEATURES

Display

AMOLED screen with OLED Panel.

Haptic

Vibrates to alert them when someone is speaking to them. Sustained vibration is when someone is approaching them.

Sensors

Uses wireless motion detector sensors. These sensors are based on infrared light, ultrasound, or microwave/radar technology. We use sensors that do not identify individuals but detects human presence. The data collected by the sensors is yours.

Affordable

HERE-U has bluetooth capabilities which is the most energy efficient means of streaming sound and it's adaptive to any device. HERE-U also has an app that is adaptable to the Apple Watch.

<u>USAGE</u>



Magnetic Clasp

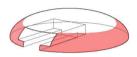
Clips Anywhere!

(ex: clips onto hair ties, shirt sleeve)

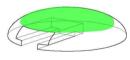


Keyfob

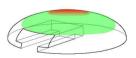
INTERACTION SAFE AREA



Caborem volorum quam facepe labore, ne sandae occus, ea que rest quate ditem asim quunt.

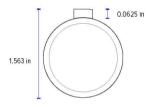


Display Surface



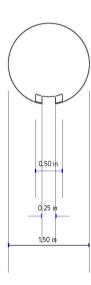
Safe area and active touch zone for flagging (training ML).

DIMENSIONS

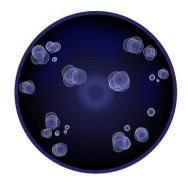




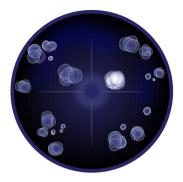




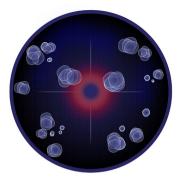
Weight: 1 ounce



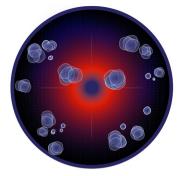
Interface - no talking, no blurs



Friend to right speaking



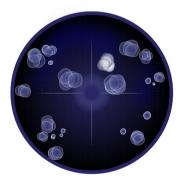
Moment flagged beginning



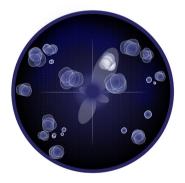
Moment flagged - progression



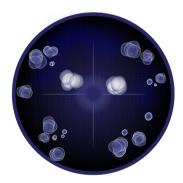
Side Blur activated



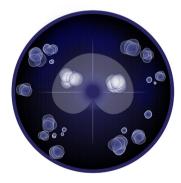
Waitress speaking - no blurs



Protrait blur activated



Many-to-one conversation



Bubble Blur activated



Bubble Blur activated sustained vibration feedback

DIAGRAM OF STATES

SCALABILITY

- Facilitates in-person conversation in various settings
- Provides data for noise level ratings on multiple review sites
- Increases awareness of DHH users in business environments

USE OF MACHINE LEARNING

- Algorithm learns from users' input and modifies its functionality to optimize the system
- Eventually, users will no longer have to train HERE-U

REFLECTION

- How could HERE-U function in other settings, like work meetings?
- —How could HERE-U change the way public places (restaurants, for example) accommodate those who are DHH?