

HEARING AID

TEAM6: ELDERLY



OUR TEAM MEMBERS



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PROBLEM

Sometimes users
cannot hear clearly in
conversations due to
the background is
noisy

Hearing aids can
sound too noisy.

Most hearing aids
are expensive

SOLUTION

Add Focus Mode to
help users can hear
others speak more
clearly

Add noise reduction
systems to hearing
aids

Create hearing
aids with lower
costs

TARGET AUDIENCE



Buyers and Distributors

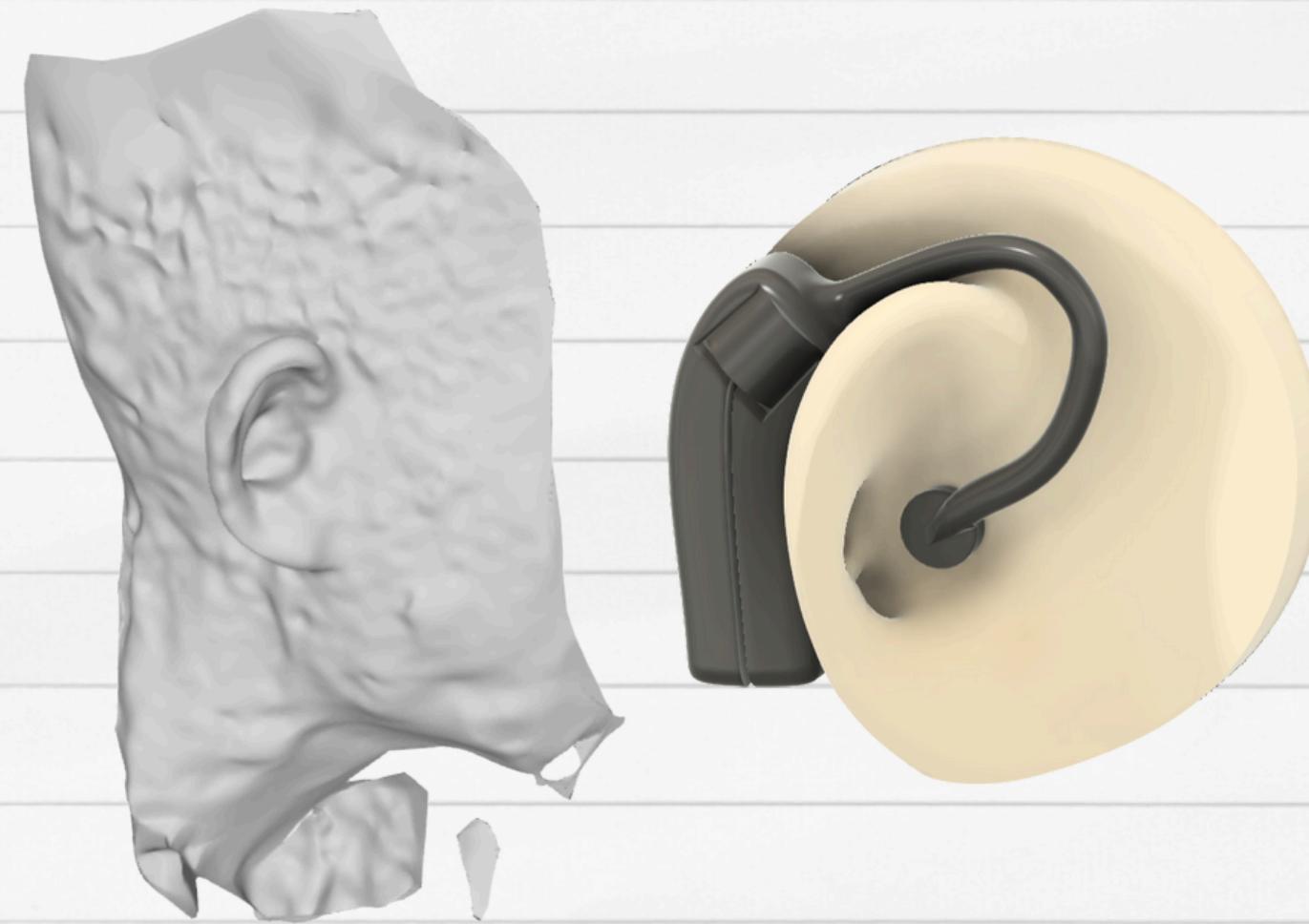
- Hospitals
- Hearing Clinics

Users/Patients

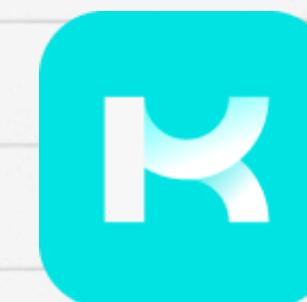
- Elderly People
- Adults
- Teenagers
- Children

DESIGN PROCESS

Turn pictures or video
to 3D File

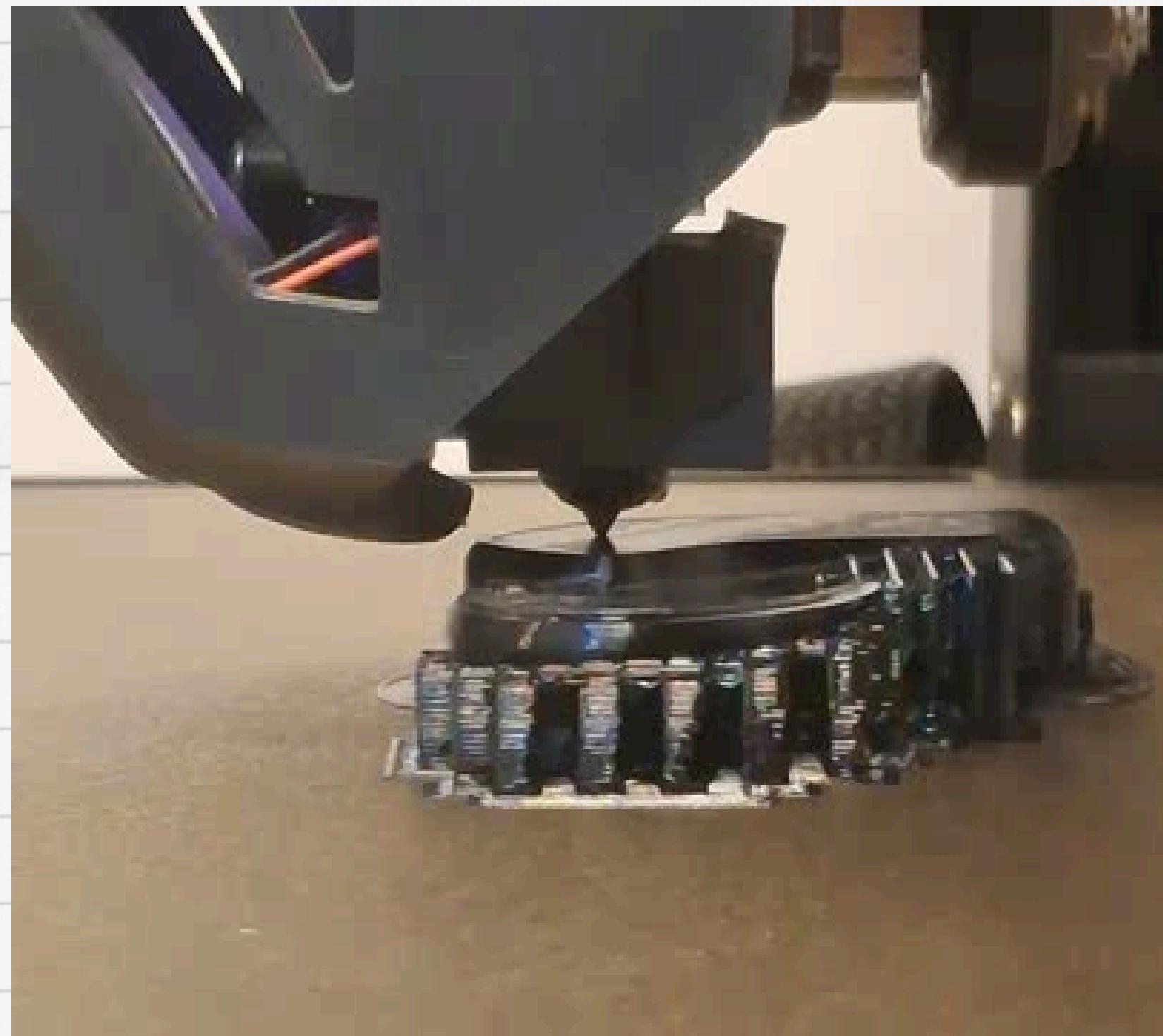


Personalized Hearing Aids
Based on Ear Anatomy

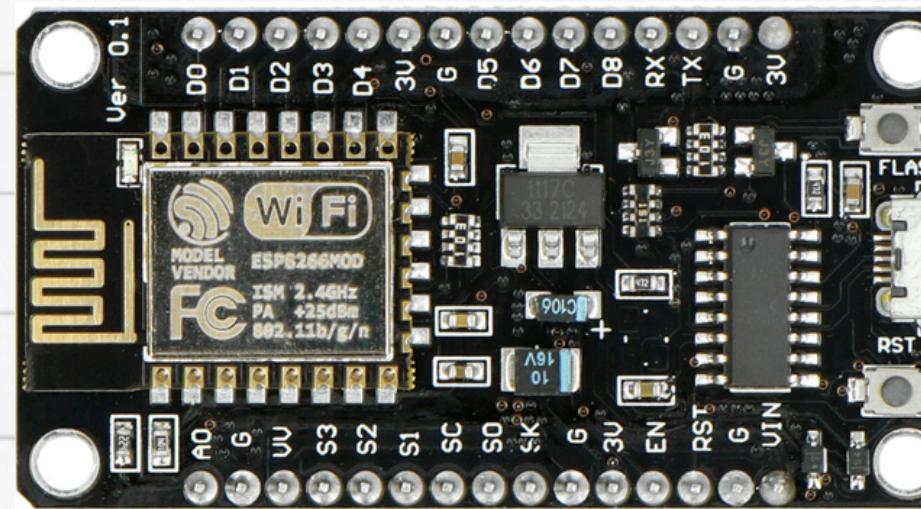


KIRI Engine

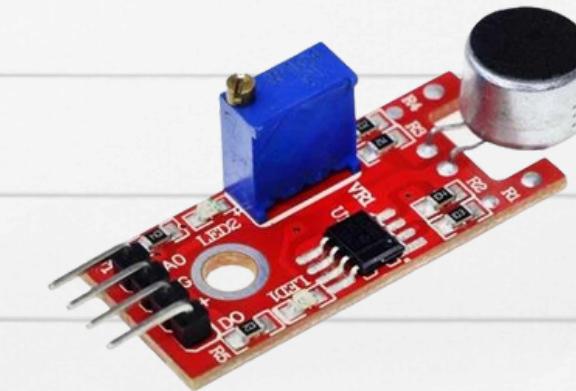
PROTOTYPE



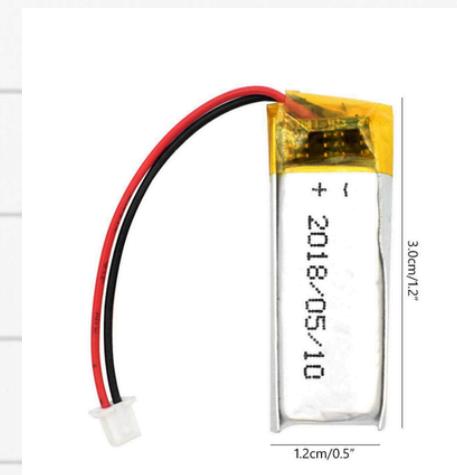
MATERIALS



ESP 8266



Mic sound sensor module

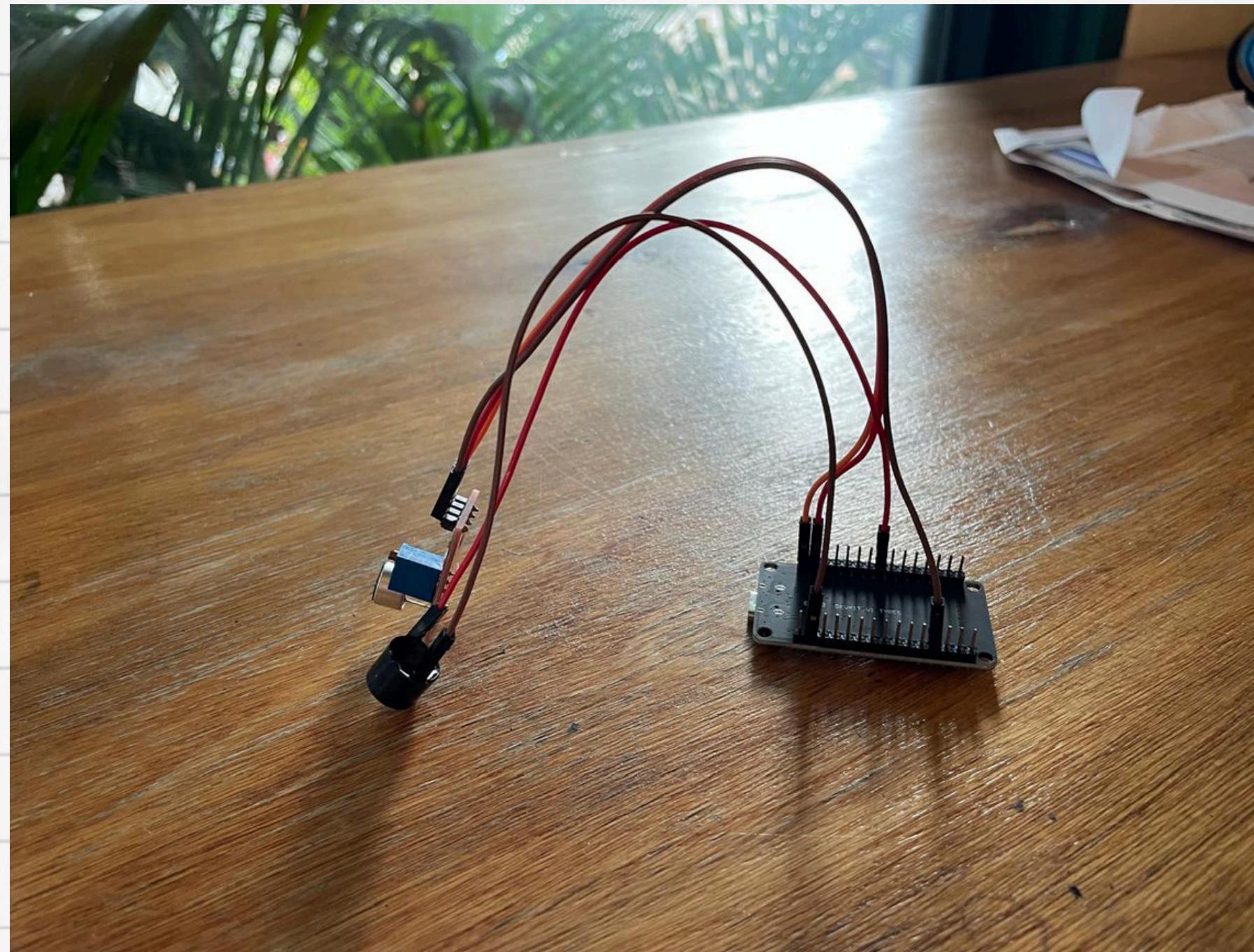


Smallest 3.7v 130mah polymer
rechargeable battery 501230 for
bluetooth headset



Buzzer

HANDS-ON TESTING



PROTOTYPE APP

The image displays three sequential screens from a mobile application prototype, arranged horizontally. Each screen is framed by a black border and set against a light gray background.

Screen 1: Home Screen

This screen shows a user profile icon at the top left. Below it is a greeting: "Hello, Honey!". Underneath the greeting are two device cards:

- Left Arora 3**: Status: Connected, Battery 50%.
- Right Arora 3**: Status: Connected, Battery 70%.

At the bottom are two yellow buttons:

- Sound settings** (with a speaker icon).
- Connect my Processor** (with a computer monitor icon).

Screen 2: Sound Settings

This screen is titled "Sound Settings". It contains the following controls:

- Volume**: Two sliders labeled L and R.
- Noise Reduction**: A slider ranging from Low to High.
- Focus Mode**: Three options: Automatic (highlighted), Directional, and 360°.

Screen 3: Connect my Processor

This screen is titled "Connect my Processor" and displays the message "Searching for devices...". It lists two processors:

- Processor A**: Status: Available, with a "Connect" button.
- Processor B**: Status: Connected, with a "Disconnect" button.

At the bottom right of this screen is the message "Let's enjoy to listen on your phone".

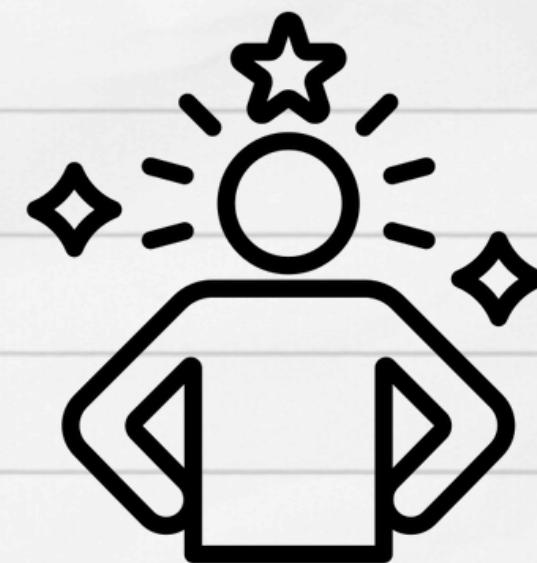
IMPACT



**Enhanced in listening
and communication
skills**



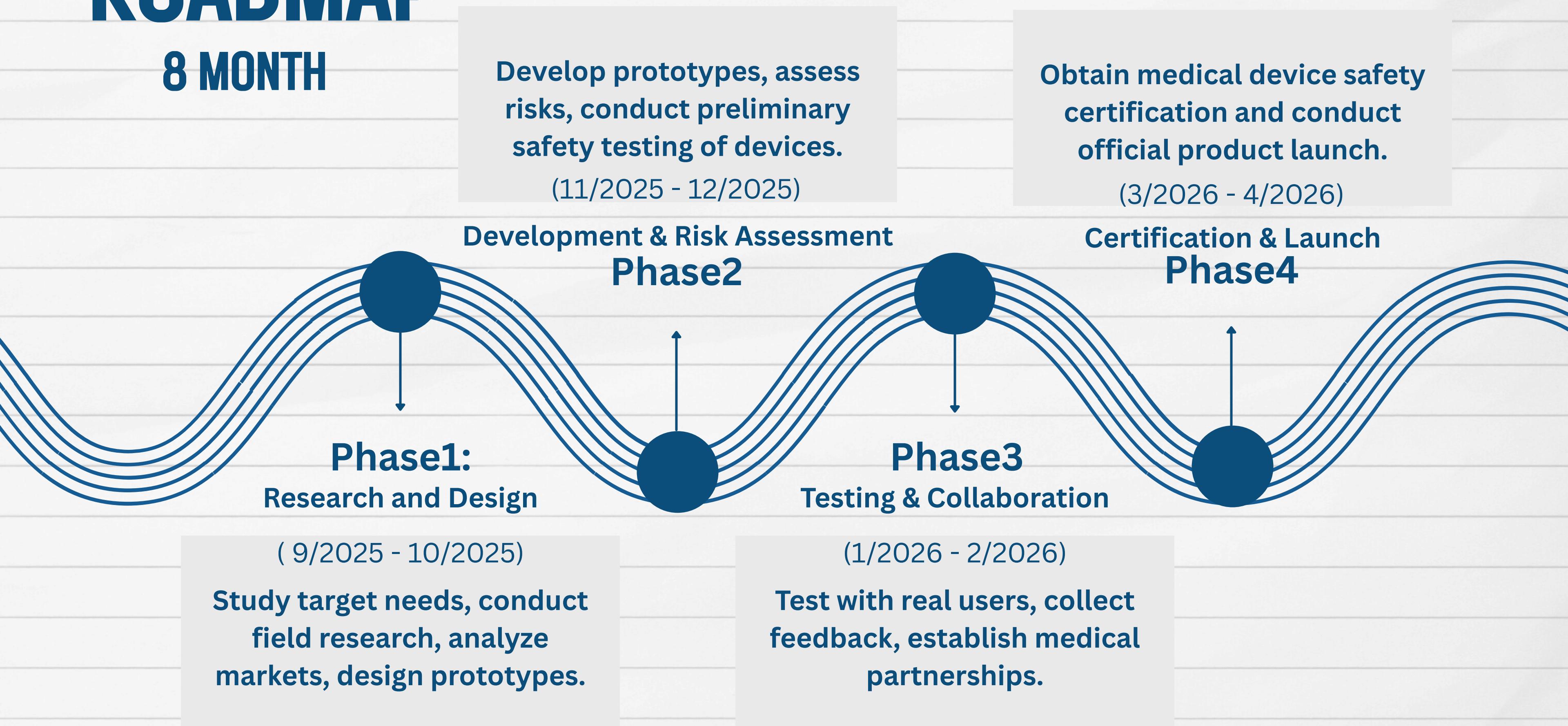
**Better quality of life
and equality**



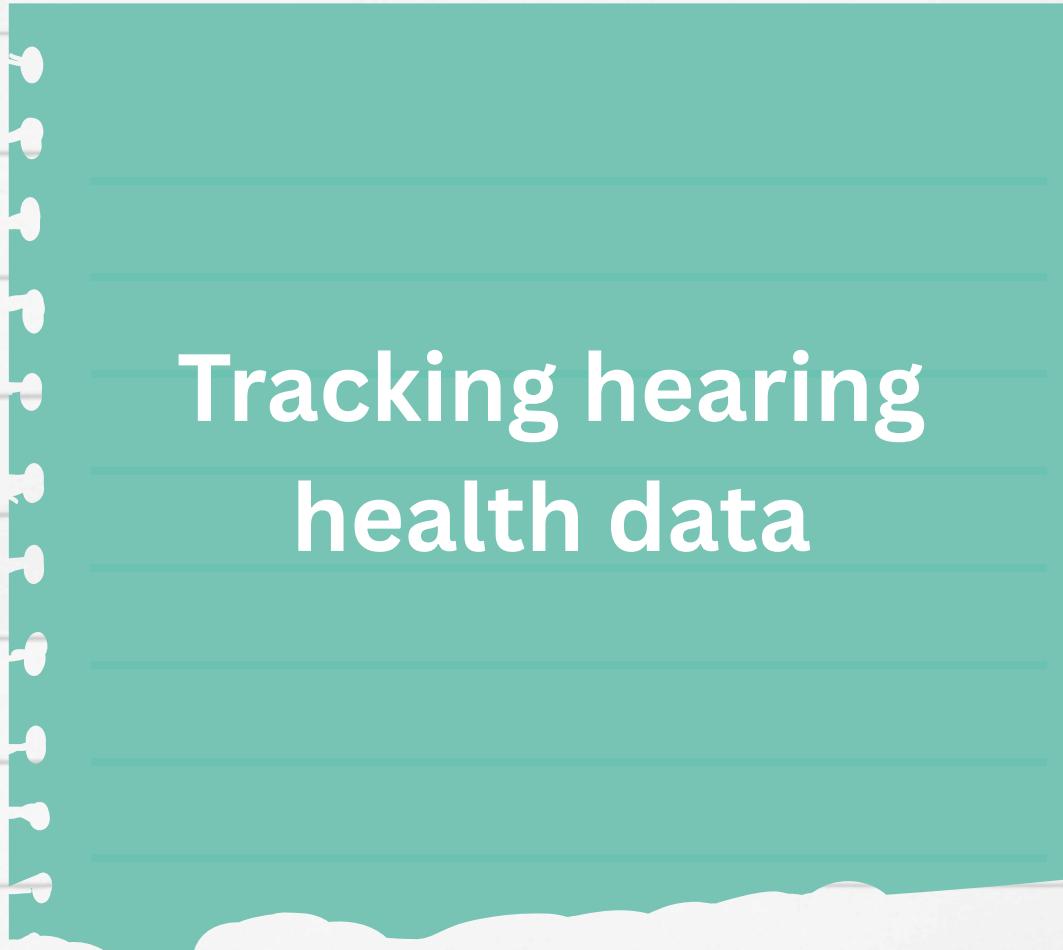
**Confidence in
Communication**

ROADMAP

8 MONTH



FUTURE PLAN



Tracking hearing health data



Assistive features in the application:
speech-to-text,
listening & speaking practice

THANK YOU

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PROJECT COST

	Project cost	1 unit
ESP 8266		35000
Microphone Sound detector		35000
Buzzer		21000
3D printing		300000
logistic shipping		35000
system deveptment and maintenance		150000
Smallest 3.7v 130mah polymaer rechargeable battery 501230 for bluetooth headset		150000
Cost price total (kip)		726000
Selling Price (kip)		945000
Profit		219000