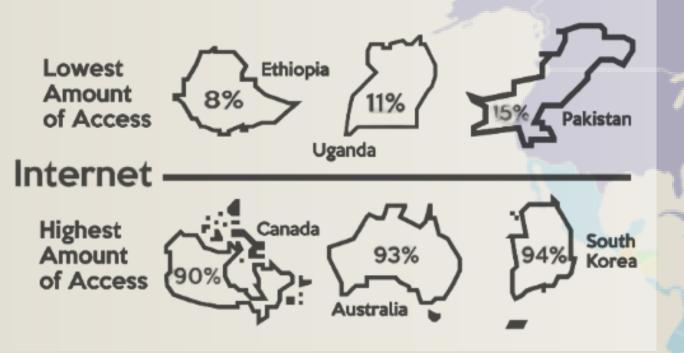
smartphones for the illiterate !





Product: A Low-end Smartphone That Can Help Illiterate People

Background: Digital Divide + Educational Gap

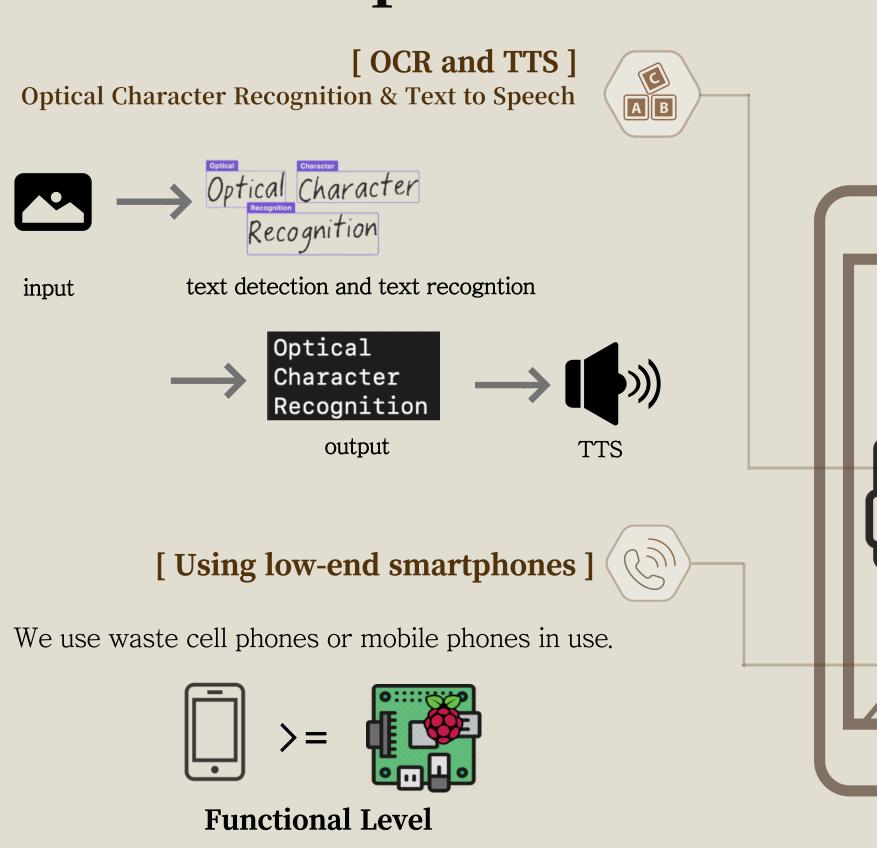
There are countries where more than half of the people are **illiterate**, and the **educational gap** is widening. The most fundamental problem to be solved for **sustainable development is "education"**.

Objective * Preventing disadvantages or dangers caused by not being able to read the text.

- * Solving the **fundamental problem** of poverty by allowing illiterate people to learn **basic languages**
- * Developing smartphones by recycling waste cell phones or mobile phones in use.
- For services * Extract and recognize character on signboards and documentation, read recognized characters and read that text, even if people can learn about that text. (use OCR & TTS)
 - * Basic alphabets and Language education programs using images.



Our smartphone has this function



Therefore, we use Raspberry Pi to create executable

files that can work on a low-end smartphone.

[An Educational Program Using Python]





The theory of alphabets

Alphabets Review test

Select the program number



Daily + safety related English

Words Review test

words

Output a word as a voice

Output the corresponding image



- 1. Theory of alphabets
- 2.Alphabet test
- 3.Daily + Safety words
- 4.Words test

Select the number : 1

minyeong@ubuntu:~/ict\$ python3 education.py Program lists

Our smartphone has this function

PEOPLE WHO?

For the illiterate person Run the Photo of the sign received Text ocr by the camera to Speech program HOW TO USE? STOP!!! DO NOT DO NOT ENTER ENTER Output Input "ENTER" Word WHERE TO USE? **Expected Effects:** Anywhere, even if the internet doesn't work. Reduce the digital gap by allowing the poor WHEN TO USE? to enjoy the technological benefits

If you want to read sign or instruction manual.

of the Fourth Industrial Revolution

