Braille Conversion Technology

Equal Access for the Blind

www.withni.com

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Introduction







A company that solves the problem of education and information access for the visually impaired

Braille transcription technology which saves time and cost

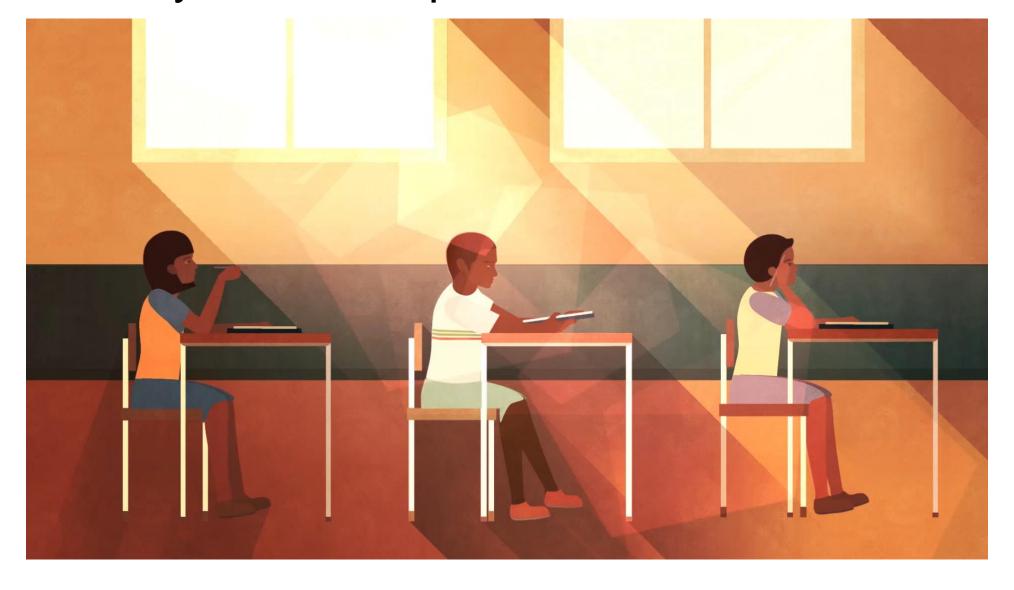
by reducing book production time from 6 months ~ 1 year to a single day

High volume real time braille transcription technology



SENSEE Story: Video Clip





Problem: A Social Mission



- 1. Long production time: 6 months ~ 1 year
- 2. Insufficient accessible contents: under 2% of e-books
- 3. Lack of a content management system



What's SENSEE?













	Text file production	Braille file production	Braille book production
Current methods	1 ~ 3 months	2 ~ 4 months	6 months
SENSEE	30 seconds		1 day

SENSEE allows fast and efficient production of contents for the visually impaired.

Comparison of Production Time



Current process



- 1 Typing or OCR
- 2 Proofreading

- ⑤ Proofreading
- 6 Braille File
- 7 Proofreading and printing
- (8) Braille Book



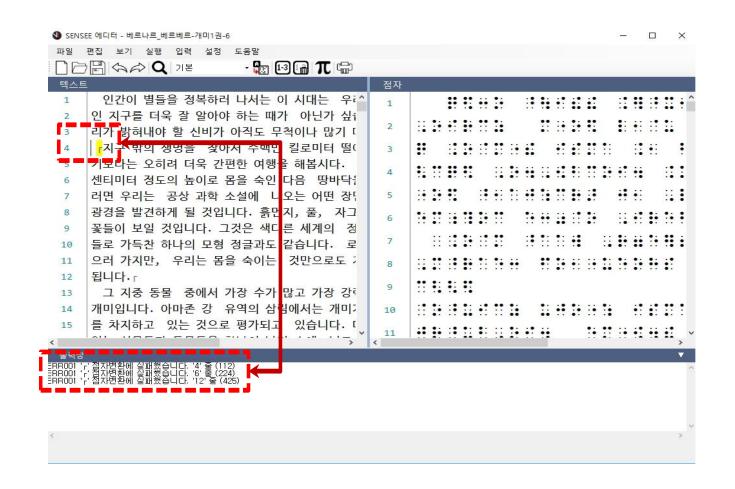
1 Automatic transcription

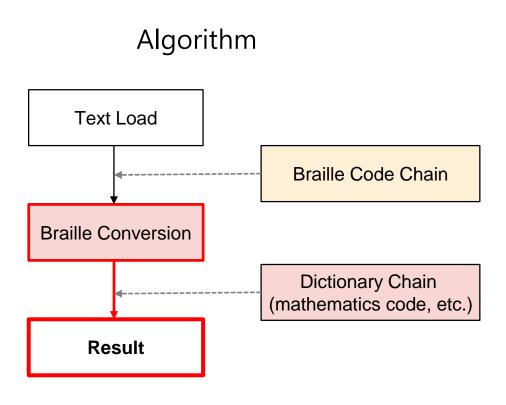


- 2 Proofreading and printing
- (3) Braille Book

SENSEE Editor



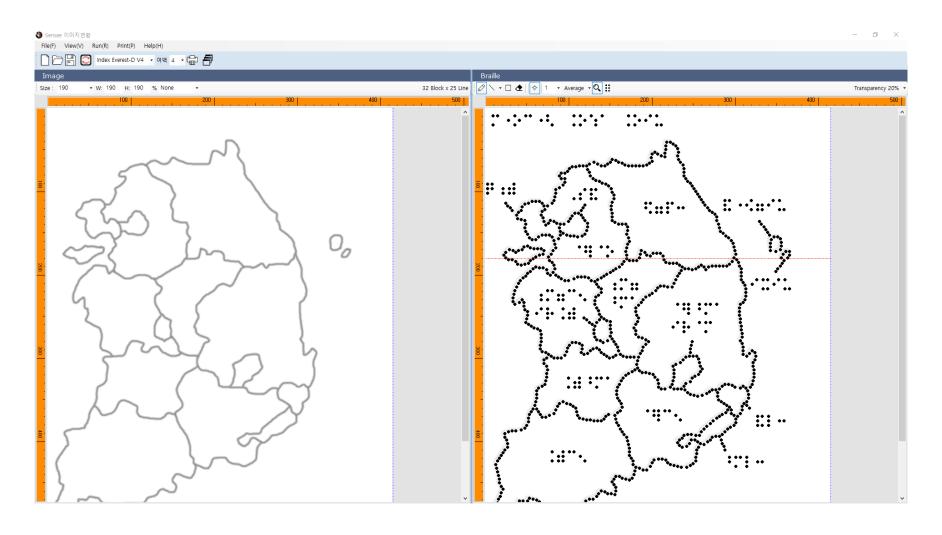




A function automatically indicating that correction or proof-reading is needed.

SENSEE Image Braille

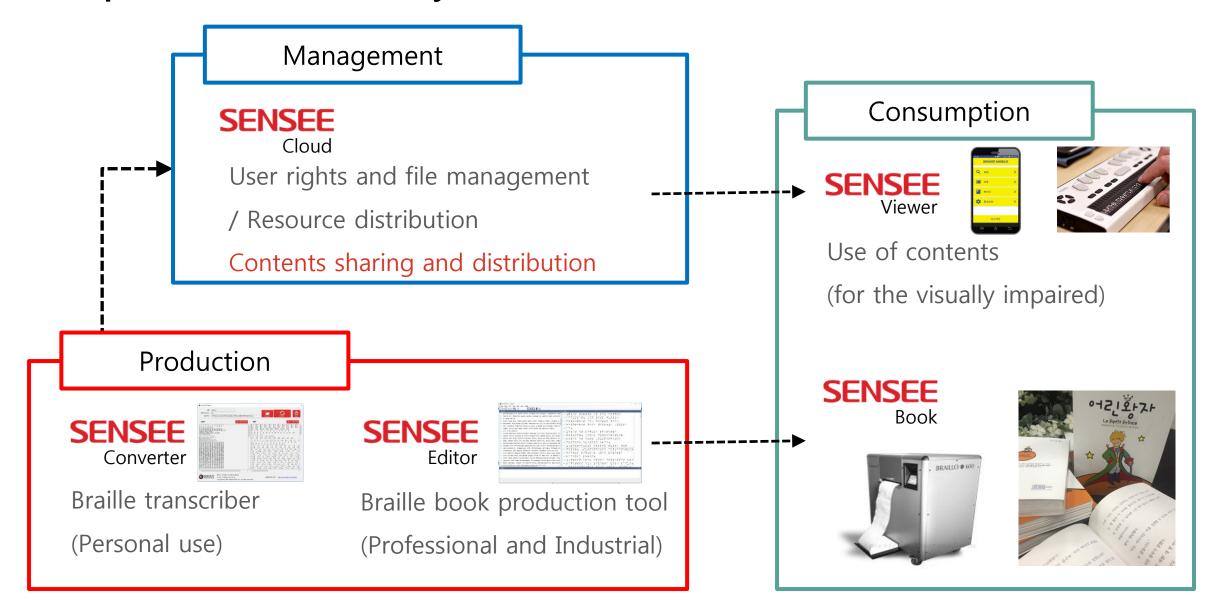




An image braille making by using Vision technology

Line-up: A New Ecosystem





Changes made by SENSEE









In 2018

- 1. There were 600 braille books in El Salvador in the past.

 Using SENSEE, in about a month, the number has increased to 5,000 books.

 It is changing into a country that can self-produce braille contents.
- 2. 30,000 contents have been converted to braille by using SENSEE.
- 3. In Korea, the number of visually impaired people directly and indirectly influenced by SENSEE is 40,000.

Examples of braille books made with SENSEE

































Cuentos de Barro











Ensayos









About 120 book titles.

Network



USA (B2C)

- Population: 7.3 M

- Market: \$1B/year

(USA PWD Report: \$5 B/year)







C.A. (B2B)

- Population: 14.8 M

- Market: \$100 M/year

- Intl. Cooperation business

- SENSEE Braille Center, 2019







Korea (B2B)

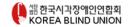
- Population: 0.25 M

- Market: \$10 M/year

- Alternative contents making and providing business (POD business)

- Projects of combining administrative e-network of public organizations

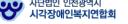
- cooperative business of alternative contents making for private organizations











280 million people

We are looking for the partners to change the world.

Next Mission









The beginning of everything is from a little concern. A little concern for the visually impaired is a start for all changes.



"Alone we can do so little; Together we can do so much."

Helen Keller

Together we can change the world and change our lives for the better.