



Mobile diagnosis

D-RAY

Mobile diagnosis of Autism Spectrum Disorder/ADHD

- ✓ 7min length program
- ✓ Provide diagnosis with 90%+ reliability



Al-therapy solution

D-KIT

Al-based Mobile Therapy Solution

 ✓ Game treatment optimized for children
 ✓ Does not require expensive devices (Used on Smartphones)

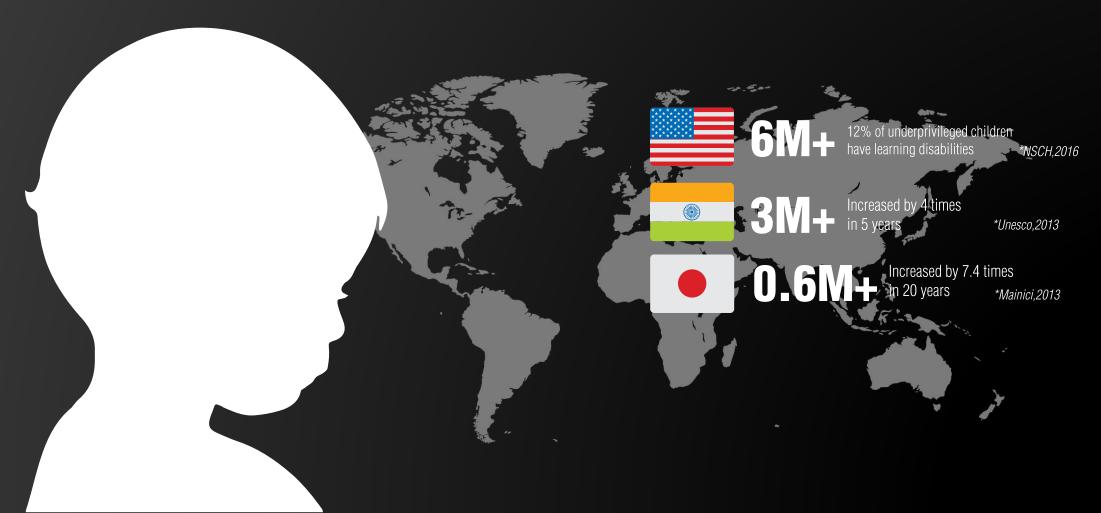


*DoBrain Therapy Screenshot

Problem

1 in 6 children around the world, experience developmental disabilities.

1 in 6 children in the United States experience developmental delays.



Problem

However, 93.7% of children with developmental delay are not receiving cognitive treatment.



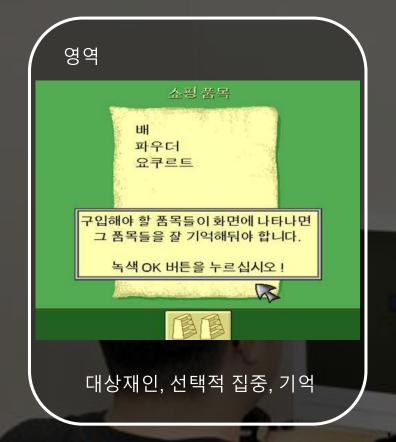
Shopping list

Pear
Powder
Yogurt

You have to remember the items which show up on screen. Click Green OK button

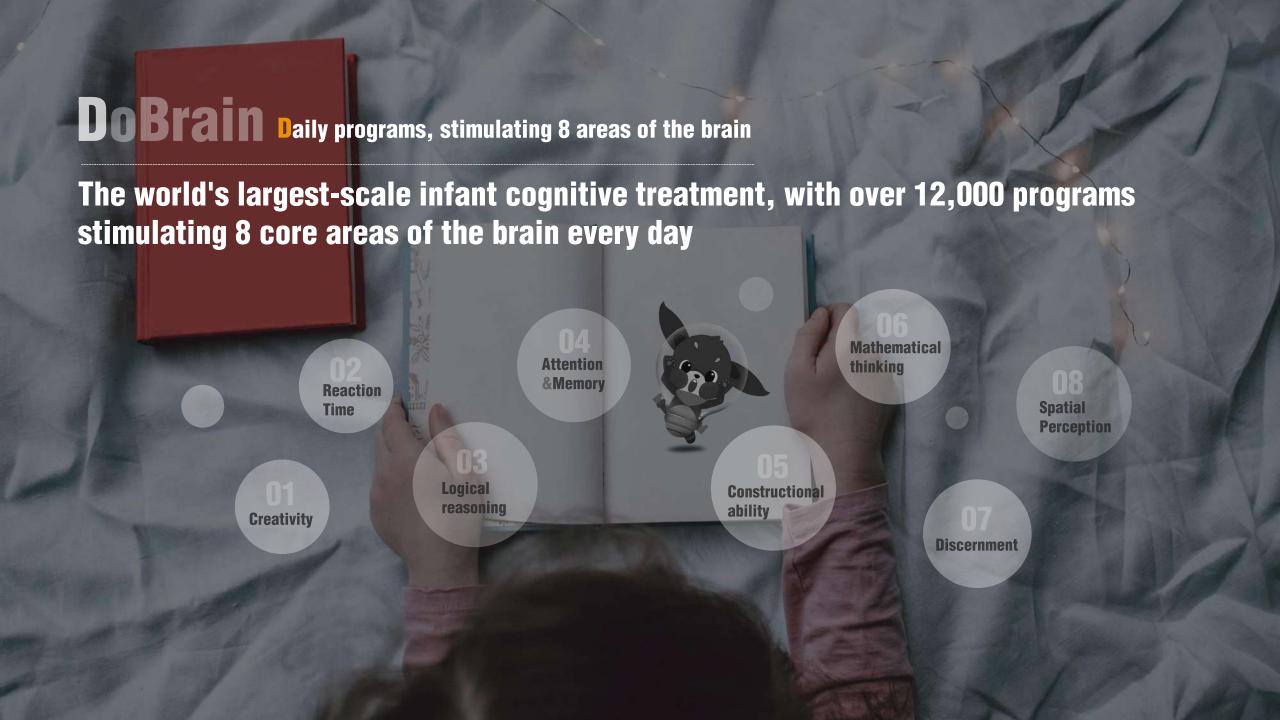
*rehacom, Most used programs in the US and Europe











DOBrain An Affordable solution

Reduce the cost of cognitive treatment to 1/20 - 1/80 of current offline solutions

B2C Model Subscription model for home 100 million children (300 thousand in Korea) **Target** Montly basic \$9.9 /month premium \$19.9/ month Fee Reduce the average cost of cognitive treatment to 1/20 to 1/80 of current offline treatment -With subscription, unlimited use of two brain treatment programs 12,000 + programs (96 new programs per week)

Target
Children's hospitals, welfare centers, cognitive treatment centers (3,000 places in Korea)

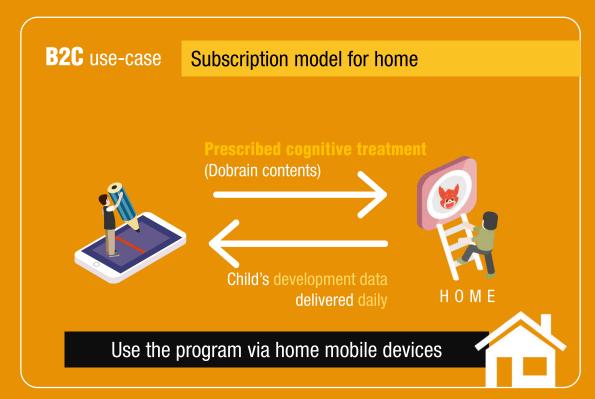
Montly Fee \$10 /month per children
Unlimited usage \$10,000 (no time or child limit)

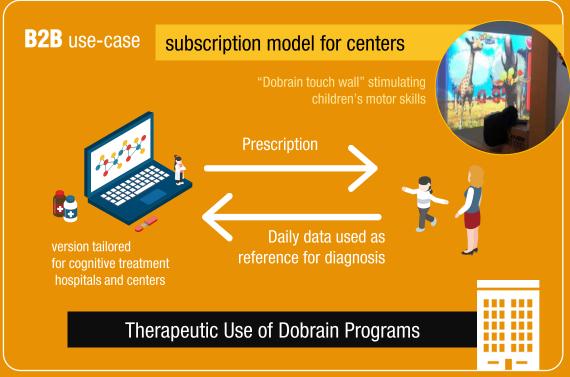
The most used computerized program in the world, Rehacom, is priced at \$50,000

-Treatment Centers use data synchronized with data generated at home

DOBIAIN One-on-one personalized care

Dobrain Al provides a personalized cognitive treatment program





Dobrain Al

Data collected from 150 thousand DoBrain users

Data1: Cognitive level

- -Collected through Dobrain cognitive diagnosis games
- -Data base of 8 cognitive areas (100,000 accumulated users)

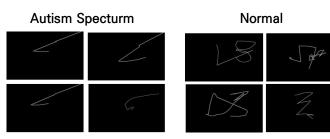




Data2: Finger fine motor skill

- -Analyze images, finger pressure, pen pressure and accuracy from child's drawing.
- -Analyze pressure data and image coordinate(10 data sets/second)





Data3: Face recognition

⊳Eye tracking

- Concentration and reaction



▶ Face recognition

-Reaction data of face muscles



Data4: Voice recognition

-Child and parent's voice analysis on problem situations



Data5: Lifelog analysis and life pattern assistant

Sleeping, exercise, communication length, direction of conversation, hon atmosphere, Smartphone usage time.



DOBITA In Interesting and engaging for children

We are loved by children and boast monthly retention rates of over 50%.

Soft launch,

3rd place in Google Store education app,

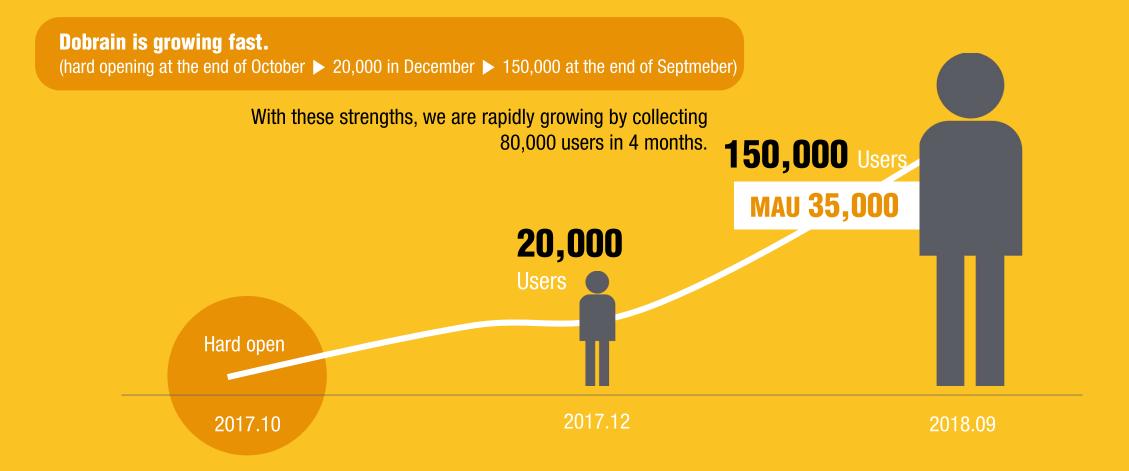
1st place in app store free apps for kids (aged 6-8 years)

monthly retention: **53.4**% (Andriod) / **55.0**% (iOS)



DOBIE No.1 solution to help children reach their full cognitive potential.

We are the world's only cognitive treatment program designed for children aged under 7





DoBrain Research Consortium for developing diagnosis Al











서울대학교 빅데이터 연구실

Cognitive development software for children in Cambodia



Dobrain will bring incredible magic and hope to children around the world

100Million of children can be treated by mobile hospital. This has a social value of \$50B per every month.

(100m*\$500 /month)



A multi-disciplinary research team competent in child cognitive development, artificial intelligence, rehabilitation medicine and strong executive power

A cognitive therapist Co-Founder with Business Capability



Wooseong

- Full-stack developer
- Game engine Unity
- Former) WeFrix CTO

Byeongjae

Education & Workforce Development

- Former) Clover CEO
- Data Analyst **Growth Hacker**

SNU Business

Cognitive therapist

- Child psychologist
- · Former) Researcher at K&T Brain Lab

Alex

Columbia Business School MBA Harvard Kennedy School, MPA

- Cofounder of Huemall, an online retailer for household goods (\$1M annual revenues)
- Have cofounded 8+ startups

Big data and Al Professional

Researcher Daehwan

Phd Student in University of Wharton MIS

- Machine learning
- Deep learning



Researcher Beomsoo

Phd Student in University of Arizona Eller College of MGMT

Nexon / illegal identity theft Development of detection algorithm Development of predictive model of laser ophthalmic surgery result using B & L / A.I et al.

30 years career as Asan Hospital Pediatric rehabilitation specialist

Professor of clinical research

Inyong Sung

- Present Professor, Rehabilitation Medicine, Asan Medical Center, Seoul
- · Former Chairman of Pediatric Rehabilitation Medicine An injini researcher who was named "Best app for special children" by Apple

Career as Editor for "The Simpsons"

Animating Supervisor

Hyejin

 Editor for "The Simpsons



Business Manager

Namdong

SNU Business Korea University Law School



Appendix-1

Partnership_Asan Medical Center http://eng.amc.seoul.kr

AMC is the largest medical institution in Korea with a total of 2,704 beds occupying about 85,000 square meters.



- The most respected hospital in Korea for 11 consecutive years
- Korean Management Association Consulting (KMAC) (from 2007 to 2017)
- No. 1 in great workplaces in Korea KMAC, 2012
- No. 1 in KS.SQI Korean Standards Association, 2012
- No. 1 in global customer satisfaction survey for four consecutive years JMAC (From 2008 to 2011)

Dobrain's medical researcher_ Sung, In-young(M.D., Ph.D.)

Medical researcher of 'Injini', a cognitive improvement program, selected as the Best app for special children by Apple



- (Former) President of Koream Society of Pediatric Rehabilitation and Developmental Medicine
- Visiting Scholar at Rusk Rehabilitation Center New York University, USA
- Professor in UUCM AMC
- Researcher at Thomas Jefferson University Hospital, Nemours duPont Pediatrics, USA

Appendix-2

Team's Educational Background_Seoul National Universty

http://en.snu.ac.kr/



- No.1 university in Korea
- No. 24 in the world METU
- No. 35 in the world QS

As South Korea's first national university, Seoul National University has a tradition of standing up for democracy and peace on the Korean peninsula.

Medical AI development with SNU MIS Data team



Dobrain Al diagnoses the condition of the child and recommends cognitive therapy according to personal progress, concentration ability, emotional state and type of disability.

Appendix-3

Awards and Honors

- Top prize for "Urban Innovation Challenge: Citypreneurs" UN ESCAP, WFUNA, SMG, 2017
- Excellence award from Asian Social Venture competition SVCA, 2016
- No.1 in Korea Game Awards (Good game category) Korea Ministry of Culture, 2017
- Top Prize in National Startup Competition KDB, 2017
- Top prize in Social Venture Competition Korea Ministry of Employment and Labor, 2016







