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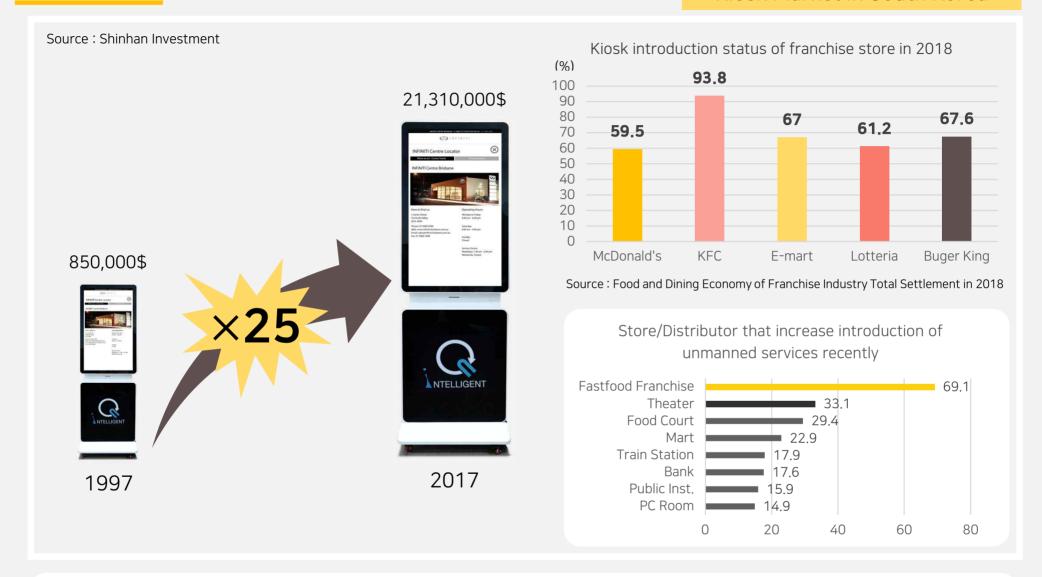
PROBLEMS IN DIGITAL ERA

SMART SENIOR EDUCATION

NDS's SOLUTION



Kiosk Market in South Korea

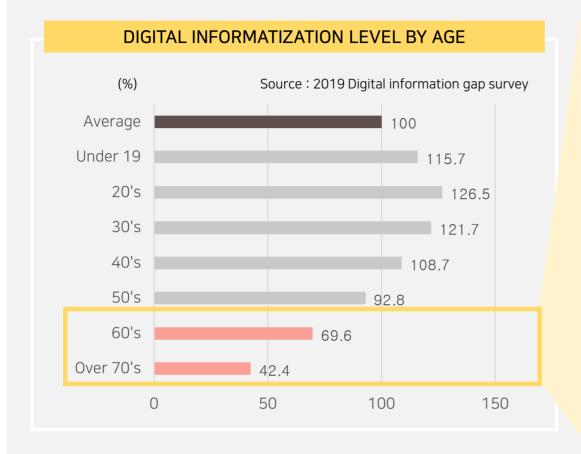




The domestic kiosk market was worth 850,000\$ 20 years ago, exceeded 21,310,000\$ as of 2017. Kiosk and other unmanned services have been introduced in most public facilities.

After since Covid-19 pandemic, untact(Not+Contact) is preferred.

PROBLEMS IN DIGITAL ERA



Forbes

Grandma Wants Digital Banking Too — Don't Ignore Her Needs



A study by the Financial Health Network found that 81% of customers 60 to 69 own a smartphone, as do 62% of customers older than 70. Of those ...

The New York Times

Seniors Seeking Vaccines Have a Problem: They Can't Use the Internet



The digital divide between generations has always been stark, ... Older Adults Technology Services has taught 48,000 people how to get ...

BBC BBC

The South Koreans left behind in a contact-free society

Digital technology has helped South Koreans cope with the pandemic. ... minimal-contact society has left a swathe of elderly people behind. Aug 3, 2020



ZDNet

Older workers are missing from tech. That's a big problem for everyone



"We certainly have anecdotal evidence from our members at BCS that sometimes they have faced age discrimination when it comes to applying for ...



The digital informatization level of the most digital underprivileged groups, including the disabled, the low-income group, the farmers and fishermen, and the elderly, is only 68.9% of the general population.

In particular, the digital informatization level of the elderly is the lowest at 63.1%.



Most public facilities introduce kiosk



02

Digital divide of underprivileged group gets serious.





Conflict with young generation and be alienated from digital society



PROBLEMS IN DIGITAL ERA



John(29)

There was an unmanned parking fee calculator that you have to pay before come out, and I guess an old lady didn't know that. She just go back and forth looking for a person who can help her. Even though staff explained it through microphone, she didn't get it. Eventually, the staff gave up and just opened the gate. It's too bad that she had to go through these situation.

I've never even imagined about using kiosk in a movie theater. When I struggle to use unmanned ticket machine, I feel like I'm behind the times and left out. Sometimes there aren't even face-to-face ticket office. Then a part-timer from other store comes to help me, and it made me feel sorry and fraustrated.



Emma(60's)



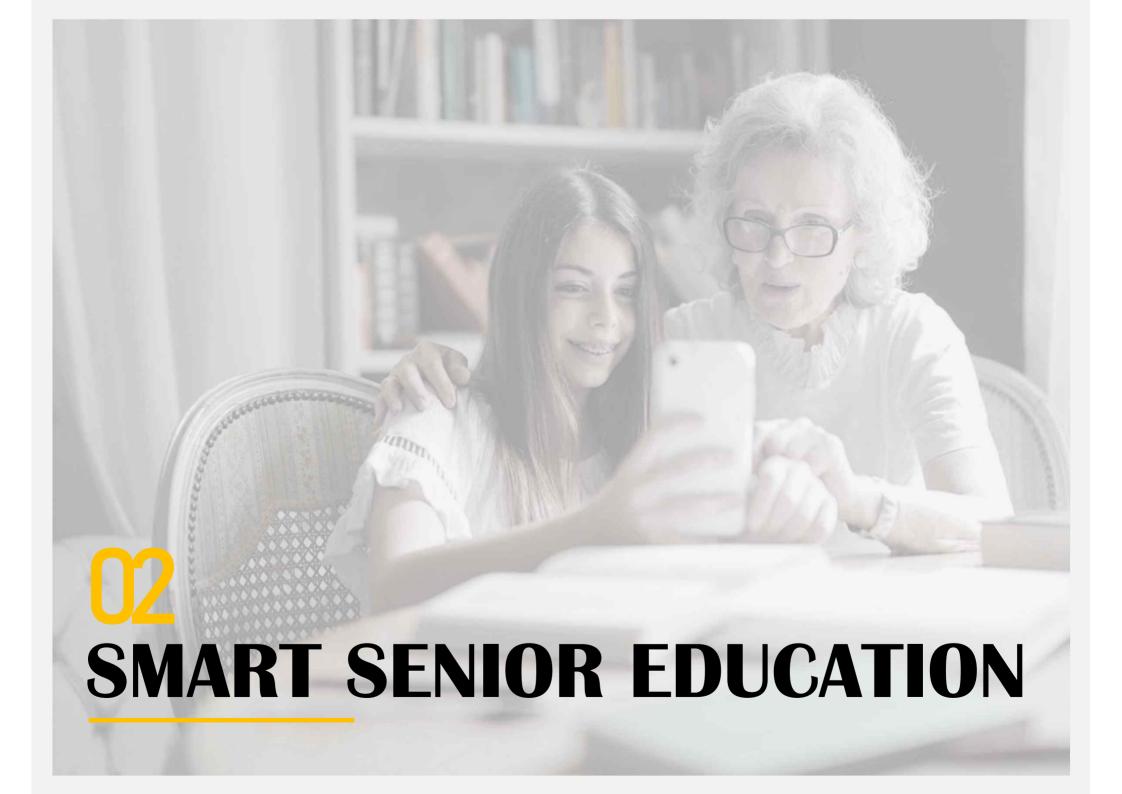
Alex(25)

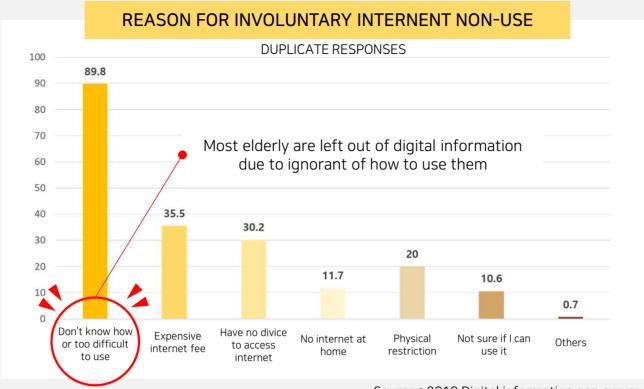
An old lady was sitting in my seat on the train. So I told her I booked this seat, but she didn't quite understand. I had to call a station attendant to solve this situation. Although she had to stand while the travel and I felt sorry about it, but since I paid for the ticket I couldn't let her sit. I hope the elderly also learn how to book on online.

I visited a burger franchise for the first time in a while and tried to order take-out. However, there was a strange machine called a kiosk that I've never seen before. In the process of ordering, I had a lot of trouble, and in the end, I asked another customer to help the order. It was an order that would have been easy face-to-face, but it was like a complicate guize with a machine.



Joe(64)





Source: 2019 Digital information gap survey



- Developed a digital signage education program for elderly for the first time in South Korea by local governments.(Program developed by NDS.)
- About 1500 students had taken this program by Jan, 2020

- Digital
 New Deal
- South Korea government confirmed and announced the Digital New Deal plicy on July 14, 2020.
- Government supporting an additional budget of 50 billion won for digital competency education for not lefting out the elderly.

2 SMART SENIOR EDUCATION

Narrowing 'digital divide': China steps up efforts to better serve the elderly in digital age

By Huang Lanlan, Li Qiao and Lu Yameng Source: Global Times Published: 2020/12/2 19:33:40



Volunteers in Beijing teach elderly people how to use smartphones. Photo: Xinhua

South China Morning Post

Fears for fate of China's elderly after pandemic's digital boom

Old people in China have suffered as services and facilities have digitised after the coronavirus outbreak, with some unable to work out how to ...



Ericsson

Technology for seniors can improve life quality

This already improves life for older people regarding private finances. ... Figure 2, below, shows how digital seniors aged 65-74 years have ... Mar 4, 2021



The Bangkok Post

Bridging the digital divide in Asia-Pacific - Bangkok Post

As an ICT enabler and partner in bridging the digital divide, ... and Internet of Things (IoT) to help people prepare for the digital age.

3 weeks ago



The World Economic Forum

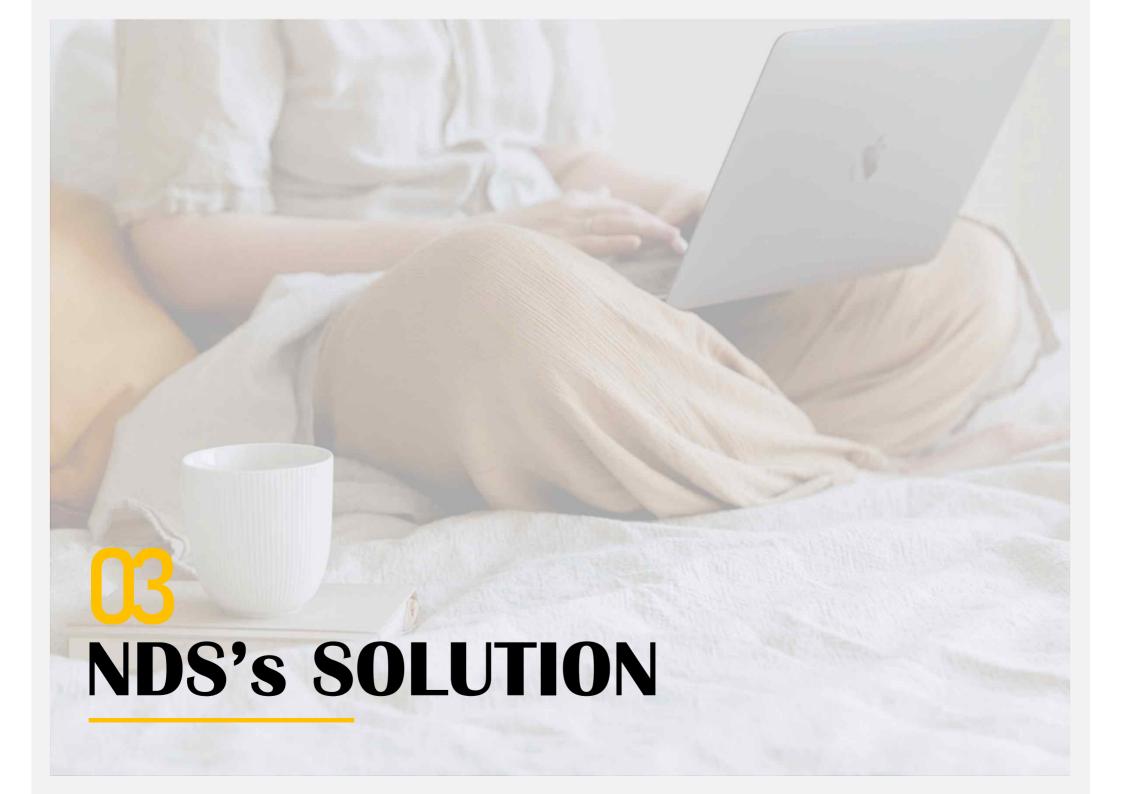
How to close the digital gap for the elderly

Her words speak to the difficulties many elderly people face. "By using this machine, I have not only experienced advanced technology, ...
Jan 19: 2021



A video of a 94-year-old grandma being carried to a bank for face recognition to activate her social security card in Guangshui, Central China's Hubei Province, has sparked heated debate on the internet, once again drawing attention to the difficulties elderly people face in using smart technology.

Various smart technologies emerging in the digital era have brought major convenience to many people's daily lives, but have also excluded the elderly from the modern world to a certain extent. The latest incident reflects the "technological intelligence dilemma" affecting millions of elderly people in China.





Kiosk education program in Seocho district office

NDS Own developed software Q-Sign / Q- Wayfinder



More than 30 experience of touch contents creation



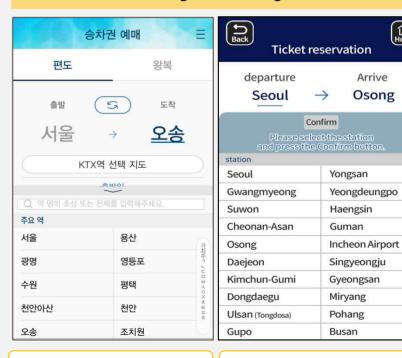
Reasonable price High quality and design





9 apps that we frequently encountered in daily life

Similar design as the original one



Intro page with ads

Option page

Real train booking app

NDS design

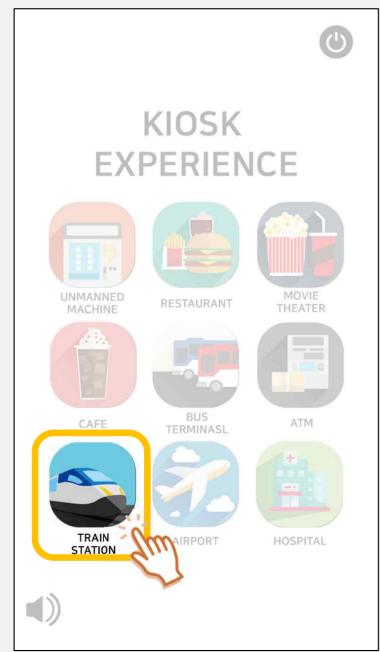
Home

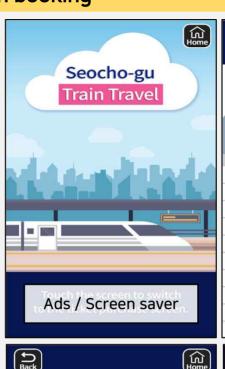
Arrive

Osong



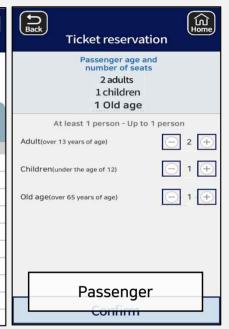
Kiosk education for the elderly - Train booking





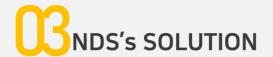




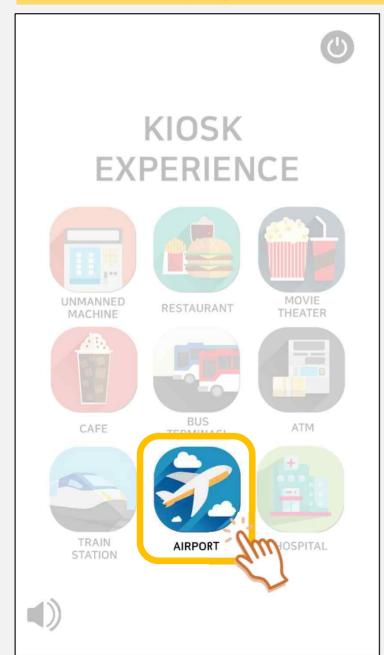








Kiosk education program for the elderly in Seocho district office – Self-check-in at the airport









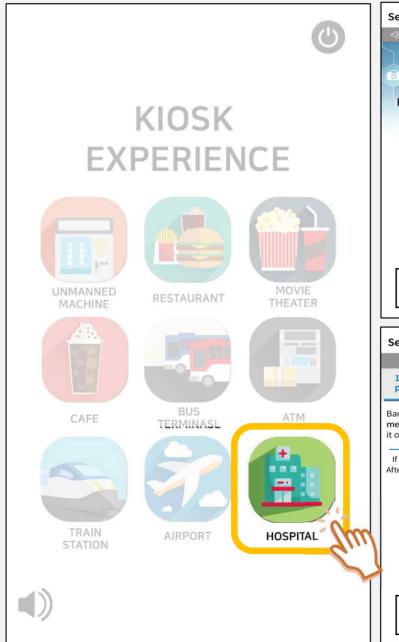




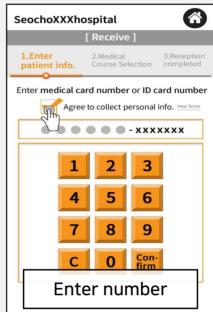


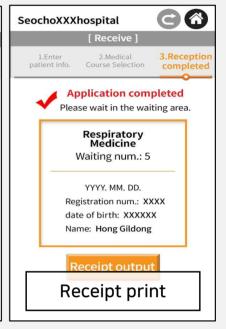


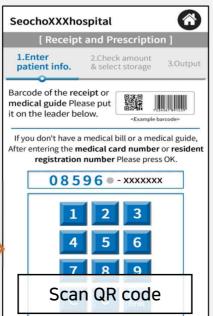
Kiosk education program for the elderly in Seocho district office - Train reservations

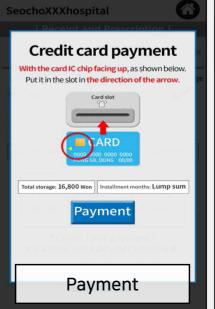


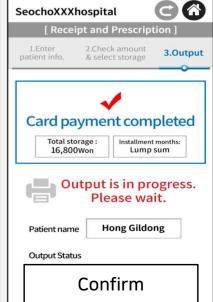














Kiosk experience program for the elderly

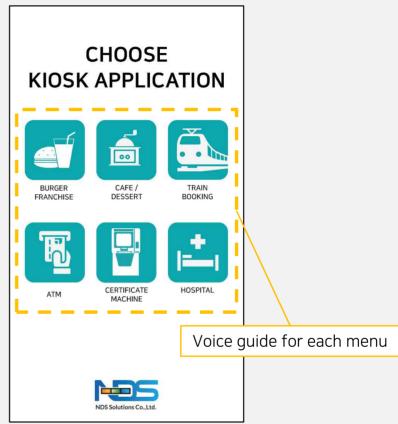
마음을 담다~ kt



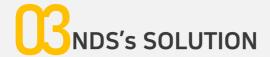
KT IT 서포터스는 어르신 대상으로 키오스크를 원활하게 이용할 수 있도록 실감형 교육 콘텐츠를 제공합니다.



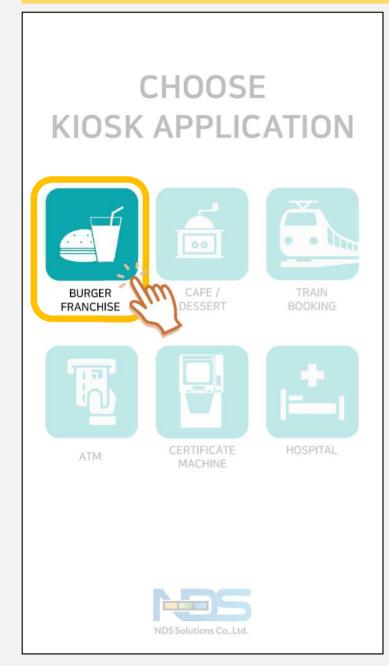




- Contents that we encountered in daily life.
- Designed as similar as the real one so that elderly won't have a problem to abopt it in real life.
- Customized design and contents menu.
- ATM, Transportation booking, restaurants, cafes, movie theater, etc.



Kiosk experience program for the elderly – Certificate machine

















Kiosk experience program for the elderly – ATM

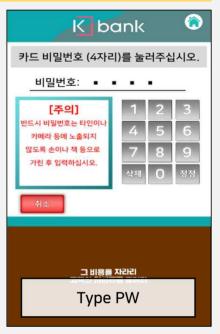








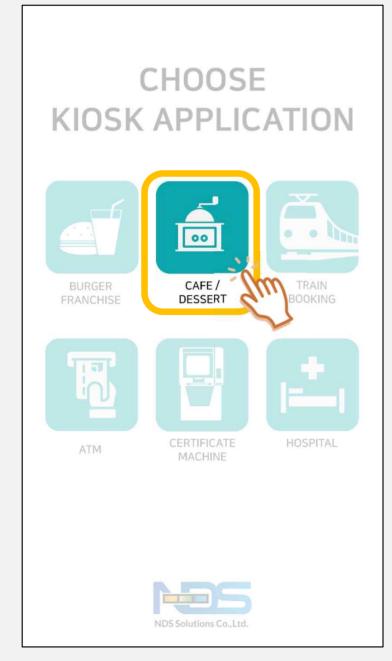








Kiosk experience program for the elderly - Franchise

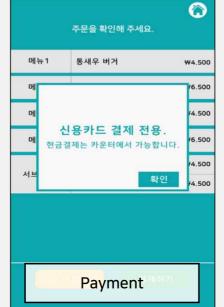
















Kiosk experience program for the elderly - cafe

